Catalog CRL 33
$40.00

33

CRL 33 is a complete New Products Catalog made to be used in conjunction with our CRL 93 "Big Red" Master Catalog.

Glazing, Industrial, Construction and Automotive Supplies

C.R. LAURENCE CO., INC.

Locations to Serve the Industries Throughout North America

CERTIFIED ISO9000 COMPANY

www.crlaurence.com

CRL MANUFACTURING

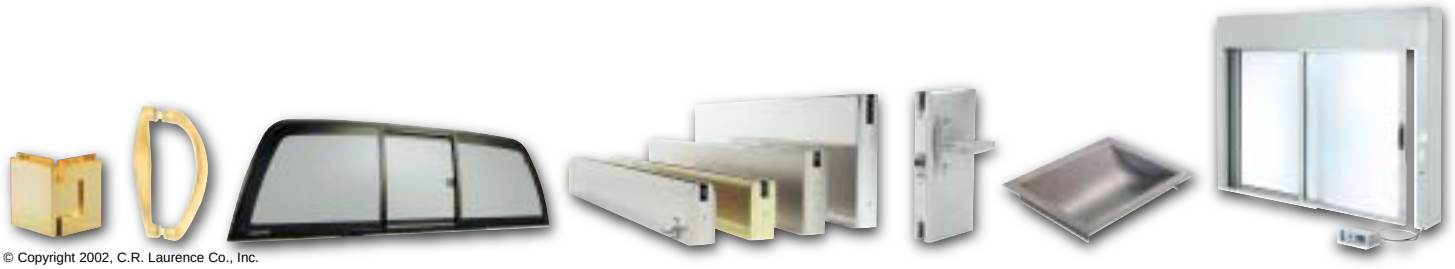
CRL MANUFACTURING, 2100 EAST 38TH STREET, VERNON, CALIFORNIA 90058-1617

We Do Everything Under One (Great Big) Roof to Better Serve Our Customers as We Further Our Commitment to the Industries We Serve

You may know C.R. Laurence Company as North America's largest distributor of supplies to the glass industry. Our network of 17 distribution facilities in the United States and Canada allows us to give our customers a level of service and a selection of products that is unmatched in the industry. Our four decades of experience combine with a continually improving order processing infrastructure to get you products of outstanding value and quality. Ever evolving information systems, such as our web site and assortment of catalogs keep you up to date with the newest and best products.

However, you may not know that C. R. Laurence Company is not just a distributor. CRL Manufacturing is the industry's source for over 3,000 of the products found in our online catalog. We employ more than 300 people, housed in over 270,000 square feet of manufacturing space in our facility in Vernon, California, just five minutes from our corporate headquarters and ten minutes from downtown Los Angeles. The CRL Quality System at our manufacturing plant is certified QS9000 and ISO9001 compliant to ensure that we give every product our full attention to detail. That's your assurance that when you select a product made by CRL Manufacturing you have made the best possible choice.

We're always looking for ways to make our products better, and along the way we've added knowledgeable experts in their fields to our staff of designers, engineers and craftspeople. Our goal is to make our products a better value to you, whether it's time or labor savings, extended service life, increased versatility or enhanced visual appeal. You know what you want, and we know we can deliver it to you. CRL Manufacturing offers versatility in design, and produces quality tools, parts and accessories for some of the world's largest corporations. We also serve the needs of smaller, more specialized businesses, and will work with you to provide products you can deliver to your clients with complete confidence. Products you can stand behind because you know they won't let you or your customers down.



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CRL CORPORATE EXPANSION

C.R. LAURENCE CORPORATE HEADQUARTERS, 2503 EAST VERNON AVENUE, LOS ANGELES, CALIFORNIA 90058-1897

Continued Investment in Service to Our Customers

HERE WE GROW AGAIN

In early 2003 the expansion of our Corporate Headquarters in Los Angeles will be complete, and when it is, CRL will be able to give our customers an even higher level of service than ever before. Our headquarters have been in the same location for over a quarter of a century, in the industrial City of Vernon, California, just ten minutes from downtown Los Angeles. From here we've grown from one building with 50,000 square feet to three buildings with over 150,000 square feet. With this expansion we're going to double in size to approximately 310,000 square feet of combined office and warehouse space.

Our goal is to better service our 17 North American distribution locations from where we fill your orders. It's part of our continuing investment in service to our customers, and that's what makes us the premiere source of supplies to the businesses we serve. No other supplier to the glass industry has invested as much time and effort as CRL to making our customers successful. This current expansion will help us further our goal to be your best source for top quality products used in your business.

CRL UNIVERSITY

Our expanded headquarters will also give us the opportunity to realize some big plans. Number one on the list is CRL University, a place where we will provide training classes to our customers and the CRL personnel who serve them. The "Classroom" will have plenty of room for installation demonstrations and computer training in our web-based design programs. You'll have the opportunity to learn from industry experts, and we plan to make these classes available on video for customers worldwide.

MAIN FRAME COMPUTER AND WEB CENTER

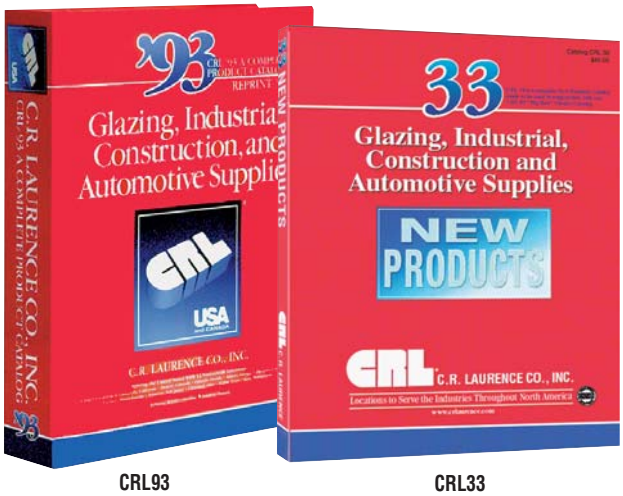
We're building a new home for our new Main Frame Computer, a truly state-of-the-art machine with massive power that allows us to process thousands of transactions daily, involving over 20,000 products in 17 distribution locations across North America. We consider our computer system vital for maintaining our service level because we know that to do a good job you have to have the best tools.

Also in our plans is the expansion of our Web Center where we maintain and improve our web site and online catalog for the thousands of visitors to **www.crlaurence.com**. When you visit the site please take a few minutes to tell us how we can improve what it offers you. We've provided a direct link for your comments, questions and suggestions.

DOUBLE THE INVENTORY SPACE

Best of all, over 120,000 square feet of new warehouse space will let us double what is already the largest inventory of any supplier to the industry. We have full trucks heading out six days a week to restock our distribution centers across North America. With more inventory stocked in our newly expanded warehouse we plan to be able to fill your orders better and faster than we already do. It's all part of our continuing commitment to improve our customer service.

CRL CATALOGS



CRL93
Almost 1000 pages of products!

CRL33
Over 400 full color pages of products!

The Complete Package for Smart Buying

Our **CRL93 Big Red Master Catalog** has a selection of products unequaled in the glass industry, but being the leader in our field means we have to continually search for new and better products. We've included thousands of new products in the **CRL33 New Products Catalog,** an over 400 page full color resource book of items that will let you work smarter, provide better service to your customers, and improve your profits.

CRL33 is a "companion" to, not a replacement for, the Big Red Master Catalog. Keep them together to use as a combined guide to all CRL products and services. With over 1,400 total pages between the two catalogs, you're more than likely going to find just what you need to do the job. And if you need additional assistance, you can always contact CRL Customer Service toll free at (800) 421-6144, or visit the CRL web site at **www.crlaurence.com.**

CRL Catalog Policy

CRL is a Business-to-Business distributor, and we have a Catalog Policy we feel is fair to the businesses we serve. Accounts in good standing receive a copy of our new catalogs whenever they become available. Businesses not already buying from us can request any CRL Catalog when they place their initial order. If you would like a copy of this or our Big Red Master Catalog, we will add one to your next order on request.

See What's New at CRL!

It's All Here in Our CRL33 New Products Catalog

C.R. Laurence has introduced over 8,000 new products since the publication of our **CRL93 Master Catalog**. Our **CRL33 New Products Catalog** is your guide to all of our new products for the Glazing, Construction, Industrial and Automotive Industries.

The New CRL33 Catalog Contains:

- Thousands of Brand New Products Not Shown in Our Big Red Master Catalog
- Our Patented Wedge-Lock Door Rails and Accessories for All Glass Entrances
- Glass Door Handles, Pulls, Locks and Panic Hardware
- Patch Hardware for Commercial Doors and Storefronts
- Glass Fittings for Stairway and Mezzanine Railings
- Our Complete Line of Commercial Door Closers
- Our Newest Transaction and Security Hardware Items
- Expanded Selection of Frameless Shower Door Hardware
- New Display Fittings and Glass Showcase Hardware
- Expanded Line of Mirror Plates and Extrusions
- Hundreds of New Replacement Hardware Products for Windows and Doors
- Our New Line of Amazing Glazing Tools for Glass
- Dozens of New Power and Hand Tools to Make Your Job Easier
- Improved Selection of Quality Silicone and Urethane Sealants
- Complete Selection of Autoglass Urethanes, Installation Tools and Replacement Fasteners
- Updated Model Selections of Sunroofs and Truck Sliders
- And Lots More, All in Full Color!

If you are not placing an order, but would still like a copy of CRL33 or CRL93 you can purchase one at a nominal price, plus the cost of shipping. Once you place your initial product order the price of the catalog you purchased will be credited against the order, effectively making the catalog free to you (except the initial shipping charges). We think you'll agree this policy is fair, and we're sure you'll enjoy our good service and low prices when you buy from our catalogs. For more information on available CRL Catalogs, see the next page, or visit **www.crlaurence.com.**

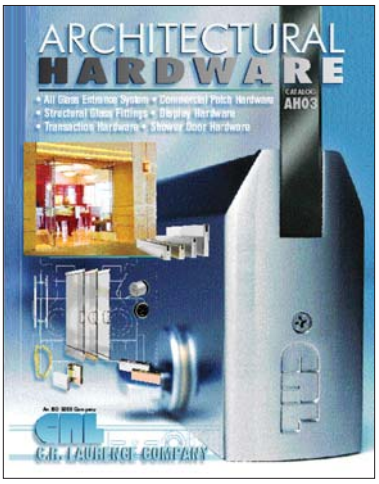
CRL's Product-of-the-Month Sale Brings You Big Savings Every Month on Our Most Popular Items

• Save 10, 15, 20, 25% or More, Plus Get Freight Incentives and Free Bonuses with Qualifying Orders

CRL Customers who receive our Product-of-the-Month Sale Flyer get extra special savings on our newest and most popular products. Every month we offer some of the products you use most at discounts of up to 25%, plus throw in special freight incentives and free bonus items of qualifying orders. We call this our Product-of-the-Month Sale, and we do it 12 times a year. You get a whole month to take advantage of these special savings and offers, and all you need do to get them is place your qualifying order. The CRL Computer System automatically gives you the sale prices, whether you place your order by toll free phone, toll free fax or over the Internet. It never costs you anything to get famous CRL Service, plus our Product-of-the-Month Sale Prices. So if you're not receiving your Product-of-the-Month Sale Flyers, call CRL Customer Service NOW at (800) 421-6144, and ask to be put on the Product-of-the-Month Mailing List right away!

CRL CATALOGS

CRL Specialty Catalogs are also available for some of our major product lines. Each catalog is presented in full color, and contains descriptive and informative specifications that will assist your field sales and estimating staff in the selection of the right product to satisfy your customer's needs. We invite you to contact CRL Customer Service by phone, fax, mail or E-Mail. You can order them separately, or add them to your regular product orders.

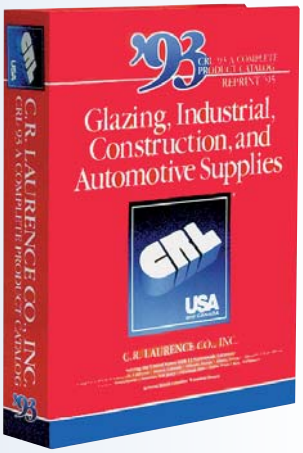


Our newest specialty catalog introduces our expanded selection of architectural metal and glass hardware for the construction of "all glass" entrances in commercial office buildings and storefronts. Plus there are many photos of finished projects, as well as helpful technical data to help you create your designs.

ASK FOR CATALOG NUMBER AH03

The CRL93 Big Red Catalog

- **The Original Source Book**
- **Almost 1,000 Pages of Products**

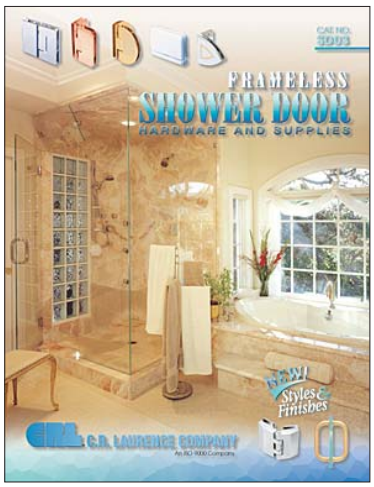


Our Big Red Master Catalog is available to accounts in good standing who might need an extra copy, or who have just plain worn their copy out. CRL93 is the source book for CRL products and services. Use it with our CRL33 New Products Catalog for the most complete reference to over 20,000 items available throughout North America from our network of 17 distribution locations. No one else in the industry has a catalog like Big Red. Make sure your business has one.

ASK FOR CATALOG NUMBER CRL93N

Our continually expanding line of Door Closers and related Door Control Hardware can be found in this full color catalog. Specifications and ordering information make it easy for you to select the right product every time.

ASK FOR CATALOG NUMBER DC03



CRL is your source for the largest selection of Frameless Shower Door Hardware and Supplies. See it all, plus beautiful photographs of finished installations.

ASK FOR CATALOG NUMBER SD03

Our Truck and Van Accents Catalog details the CRL automotive product line of quality truck sliders, sunroofs, van windows and other automotive accessories.

ASK FOR CATALOG NUMBER TV01

See the latest in top quality Transaction Hardware and bullet resistant exchange products, beautifully illustrated with specifications and installation photographs.

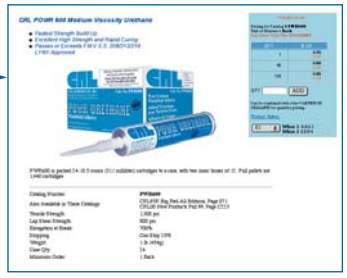
ASK FOR CATALOG NUMBER TH99

CRL PRICING ONLINE

Short Cut to Check Regular Prices by Catalog Number...

1. Log onto **www.crlaurence.com**
2. When the **crlaurence.com** Home Page appears enter the product's **Catalog Number** in the Search Box and click **Go.**

3. The Product will be displayed with its **Catalog Number**, **Unit of Measure**, and **Current Pricing for Each Quantity Price Break**. If you can combine the product with other products for quantity pricing a message will also appear directly below the prices. From here you can go directly into the ordering process, or return to the Search Box at the top of the screen and enter another Catalog Number.



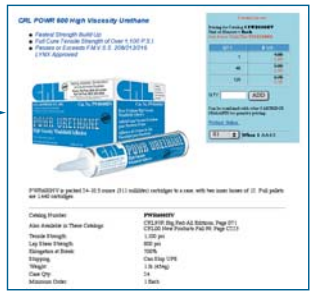
This is How to Check Sale Prices and Bonus Offers...

1. Log onto **www.crlaurence.com**
2. When the **crlaurence.com** Home Page appears click on the **Product of the Month Banner.**

3. When the Product of the Month Sale Page appears click on the **Product Group** for which you want pricing.

4. When the Product Group Page appears click on the **Catalog Number** of the Product.

5. The Product will be displayed with its **Catalog Number**, **Unit of Measure**, and **Current Pricing for Each Quantity Price Break**. If you can combine the product with other products for quantity pricing a message will also appear directly below the prices. From here you can go directly into the ordering process, or return to view other products.



Other Easy Ways to Get Accurate Prices for All CRL Products

BY PRICE DISK: Our Windows™ based Price Disk can be run on any computer using Windows™ 95, 98, NT, 2000, ME or XP. A "Help" screen describes the features and has user instructions. Pricing can be selected in U.S. or Canadian Dollars, and you can "build" an order as you review products. The program can also place your order directly over the internet, or use your fax server to transmit it directly to us. You can even enter a markup factor on the CRL price to calculate your selling prices. Best of all, you can update the disk by a download from our web site. How convenient!

BY PHONE: Call (800) 421-6144 toll free from anywhere in the United States or Canada and ask for Customer Service. We're staffed from 6 a.m. to 5 p.m. (Pacific Time) Monday through Friday, and a friendly voice will give you prices on all regular products. If you need pricing on custom fabricated merchandise, or large quantities, our Quotations Department will process your request, then call you back as quickly as possible.

BY FAX: You may fax your list, no matter how long, to us at (800) 262-3299 toll free from anywhere in the United States or Canada. We'll provide a quote by fax, plus we'll hold the quote for 30 days.

CRL WILL CALL: Each CRL warehouse has a Will Call Department you can visit from 8 a.m. to 5 p.m. Monday through Friday, and 8 a.m. to 12 p.m. Saturday. We'll make you comfortable while answering your questions, taking and filling your order, or just quoting prices. Some of our most experienced people staff our Will Call Departments, and they're always happy to see you.

CRL PRICING ONLINE

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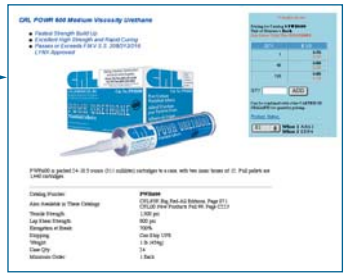

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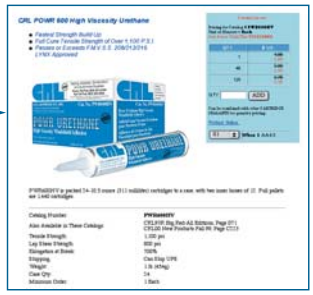

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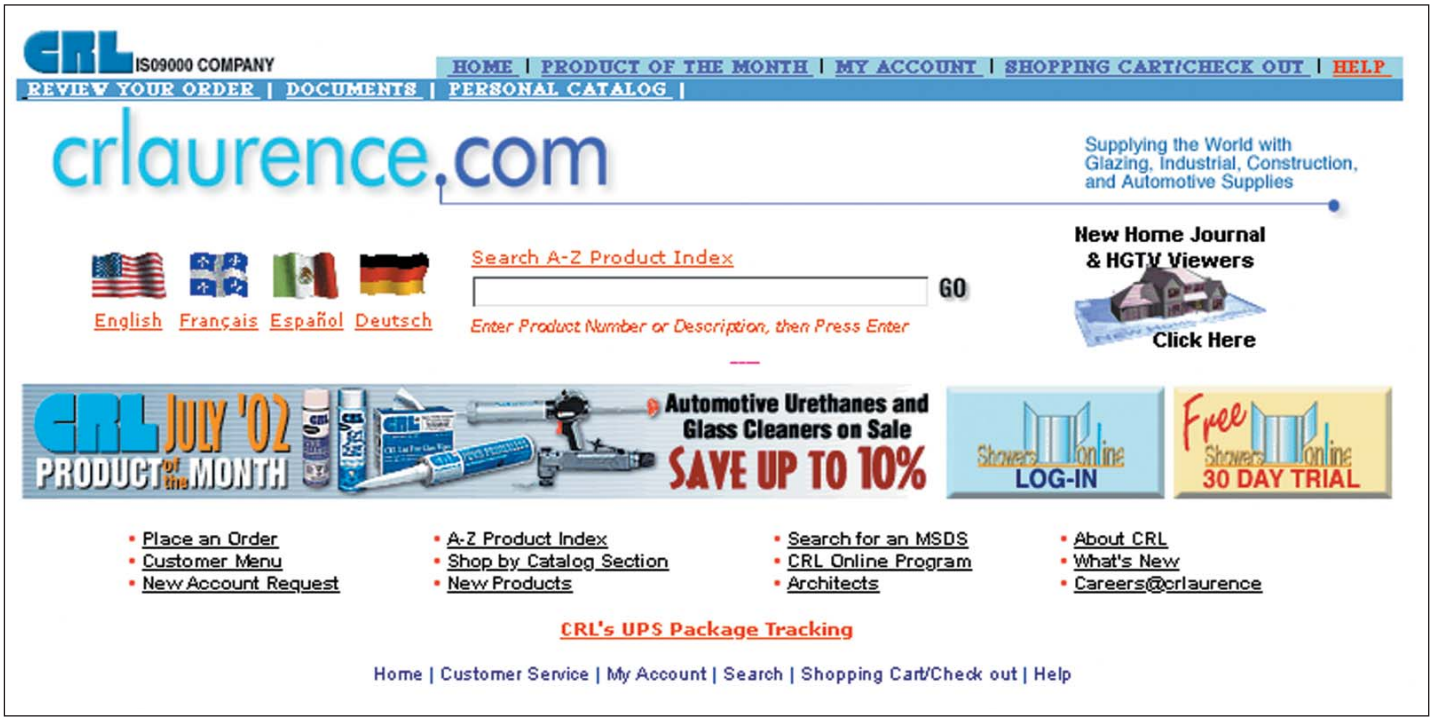
VISIT THE WORLD OF www.crlaurence.com



"Business-to-Business" Web Site

www.crlaurence.com was designed as a "business-to-business" information source that's easy to navigate because there's so much to see, and so much you can do. It's the quickest way to get product information and support, check prices and company policies, get tech bulletins, request catalogs or other literature, check the status of your account, or even place an order. The extensive and easy-to-use A to Z Product Index guides you to over 20,000 products, with new products added weekly. You can even use competitor's part numbers to look up CRL products. Our Product-of-the-Month Sale offers big savings on our most popular product lines, with bonus offers for qualifying orders.

www.crlaurence.com also has features you can interact with, such as our web-based programs for glass sizing and design of frameless shower enclosures and all glass commercial storefronts (see next page).

www.crlaurence.com can be viewed in English, French, Spanish and German. There's a place where you can offer your opinions, comments and questions. We're always glad to hear from you, and we'll do all we can to answer your questions quickly.

www.crlaurence.com is a constantly evolving web site that brings you information on new products, special offers, and other industry services that you can use to improve your business. We have an in-house Web Center whose mission is to add to and improve the features of the site, increasing its value to business users. It's an efficient way to order and speed delivery of what you need, and we encourage you to move up to this next level of CRL service.

What Else Can You Find at www.crlaurence.com?

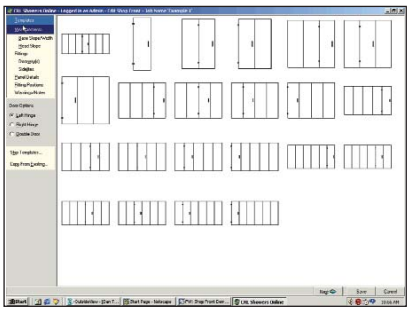
- Access to All CRL Products Through Our Easy-to-Use A to Z Product Index
- New CRL Products and Services
- Technical Articles and Product Support
- Ordering and Shipping information
- Help in Using the Site
- CRL Locations with Addresses, Directions, Phone and Fax Numbers
- Direct E-Mail Connections to CRL Departments
- Account Policies and Credit Terms
- A Calendar of Industry Trade Shows
- And Much More!

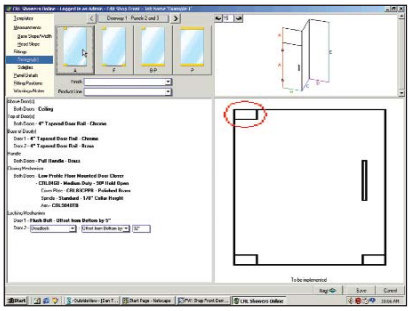
VISIT THE WORLD OF www.crlaurence.com

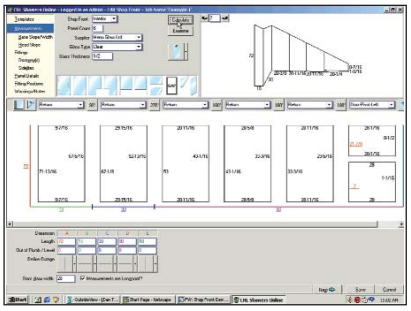
CRL Storefronts Online Design and Glass Size Program

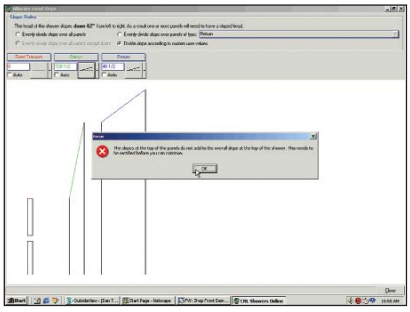
- An Innovative Web-Based Program that Generates Glass Sizes from Measurements You Take in the Field
- Storefront Glass Sizes Can Be Completed in as Few as Two Minutes
- Logs All of the Data You Generate for Easy Future Retrieval
- Simply Push the Print Icon Upon Completion of Data Entry to Generate Complete Glass Sizes
- Visual Prompts Pop Up on Screen to Help You Select the Correct Components for the Configuration
- Built-In Safety Features Ensure CRL Approves of Design and Specifications
- Live Tech Support

STOREFRONTS ONLINE
CAT. NO. SOL1









Designers of storefronts will find our new web-based Storefronts Online Design and Glass Size Program to be a real time saver. It's tailored for use in most any storefront project. Not only will it be easier to generate and print accurate glass sizes for individual jobs, but you'll be able to store them for future use.

Storefronts Online allows you to enter a list of components being used for a particular project, and the rough opening dimensions. The program then calculates final glass sizes and displays detailed information, including handle and closer locations, and much more.

Storefronts Online is available only to CRL Authorized professional designers and installers. You must have Internet access to use it. We even have live tech support to help you learn the process. For complete details, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail inquiries to **techsales@crlaurence.com.**

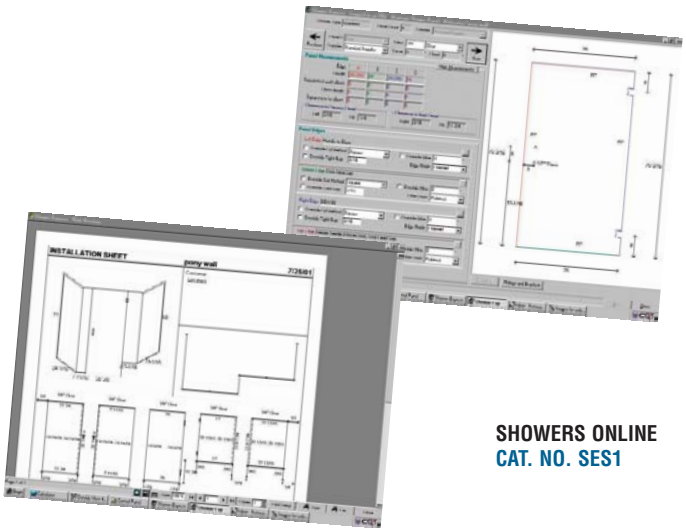
Also at www.crlaurence.com

CRL Showers Online Design and Glass Size Program

- Revolutionary Program Generates "Go" Glass Sizes from Your Field Measurements
- Upon Completion of Data Entry, Simply Push the Print Icon to Generate Complete Glass Sizes and Their Templates
- Sizes for Shower Enclosures Can Be Completed in as a Few as Two Minutes
- Web-Based Program Allowing 24 Hour Access

CRL's New Showers Online is a Design and Glass Size Program that allows you to enter a list of products being used for a particular job, and the field measurements. Showers Online then calculates the final glass sizes and displays detailed information, including hinge and handle locations, miters and much more. The program is tailored to work with most any shower enclosure configuration.

For more information, see page F154



SHOWERS ONLINE
CAT. NO. SES1

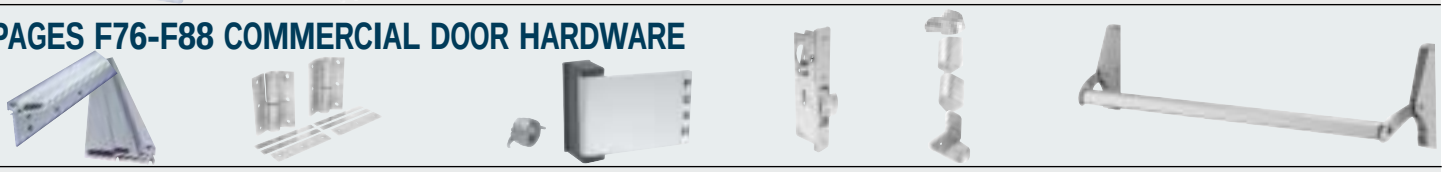
HERE'S WHAT YOU'LL FIND IN THE CRL33 CATALOG

CRL33 has over 400 pages of products organized by specific product categories and the industries we serve.
For the fastest way to find what you want, check our A to Z Product Index starting on Page F422.

PAGES F10-F47 GLASS ENTRANCE SYSTEM

PAGES F48-F75 COMMERCIAL PATCH HARDWARE

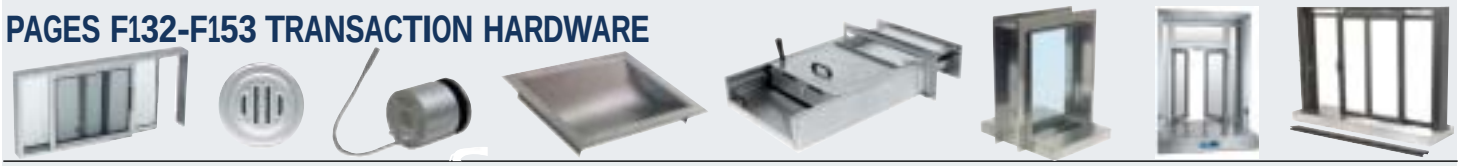
PAGES F76-F88 COMMERCIAL DOOR HARDWARE



PAGES F89-F113 DOOR CONTROLS

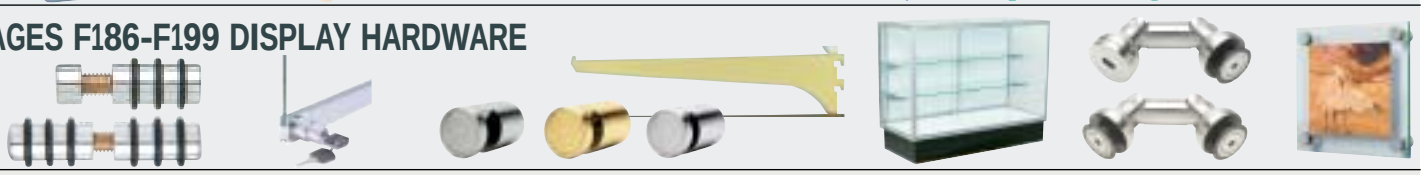
PAGES F114-F131 GLASS FITTINGS

PAGES F132-F153 TRANSACTION HARDWARE



PAGES F154-F185 FRAMELESS SHOWER DOOR HARDWARE

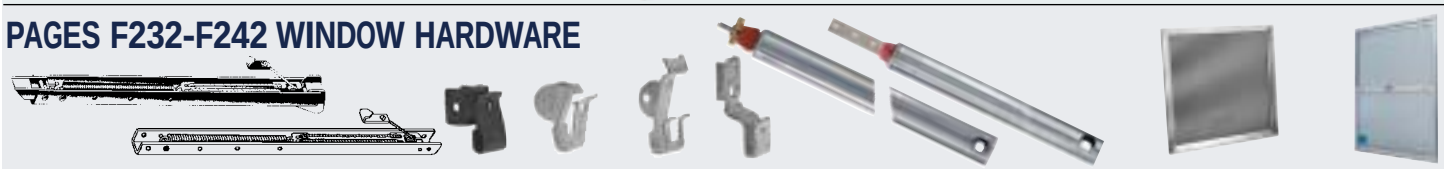
PAGES F186-F199 DISPLAY HARDWARE



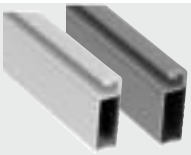
PAGES F200-F213 GLASS HARDWARE

PAGES F214-F231 MIRROR HARDWARE

PAGES F232-F242 WINDOW HARDWARE



PAGES F243-F248 SCREEN HARDWARE



PAGES F249-F276 REPLACEMENT HARDWARE

PAGES F277-F280 INSULATING GLASS SUPPLIES

PAGES F281-F319 GLAZIER'S TOOLS

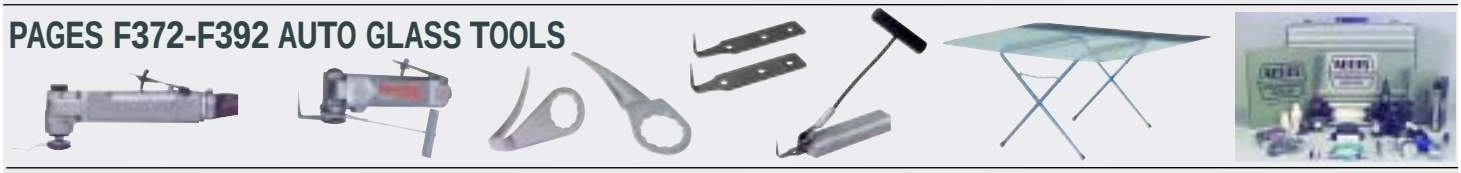
PAGES F320-F333 GENERAL TOOLS

PAGES F334-F353 SEALANTS AND ADHESIVES

PAGES F354-F361 CLEANING PRODUCTS

PAGES F362-F371 AUTO GLASS ADHESIVES

PAGES F372-F392 AUTO GLASS TOOLS



PAGES F393-F405 AUTO GLASS FASTENERS

PAGES F406-F413 PICK-UP TRUCK SLIDERS

PAGES F414-F421 CRL/SFC SUNROOFS

PAGES F422-F431 A TO Z PRODUCT INDEX A complete, easy-to-use alphabetical listing of the products in this catalog.

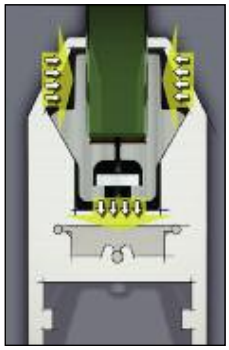
Features of the CRL Wedge-Lock Door Rail System

- Exclusive CRL Wedge-Lock Glass Securing System for Rapid Installation and Steadfast Holding Power
- Door Assembly Can Be Ready for Installation in Less Than 10 Minutes
- Universal Top and Bottom Rails Cut Inventory in Half and Make Ordering Easier
- Dry Glazing Allows Field Glass Replacement
- Stocked for 1/2" (12mm) Glass; 3/8" (10mm) and 3/4" (19mm) Available on Special Order
- Adjustable Door Alignment System Allows Jamb Line Adjustment Without Removing the Door
- Internal Components Do Not Require Removal Before Installation
- Rigid Single Component Housing Will Not Shift and Fall Out of Adjustment Over Time Because the Housing is Not Made Up of Two Halves
- Available With or Without a Lock
- Glass Securing Pads Designed for Longevity in Extreme Environments

10", 6" and 4" Square 4" Tapered W/Lock

- Five Stock Finishes in Single Door and Double Door Styles Available in 4", 6" and 10" Heights
- Custom Sizes and Finishes Also Available

Wedge-Lock Glass Securing System



(Patented)

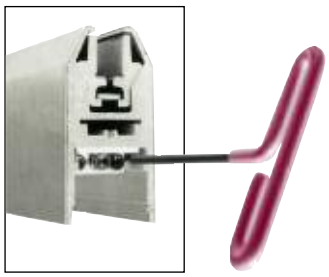
The patented Wedge-Lock Glass Securing System is a totally new concept for securing the glass in the Door Rail. It works by applying pressure from the bottom of the Door Rail, using two glass retaining aluminum extrusions via a flat stainless steel bar. As this bar is pulled down with socket head cap bolts, pressure is applied to the glass retaining aluminum extrusions. The bottom of the extrusions are at an angle and fit into an angled groove in the Door Rail. As the glass retaining extrusions are being pulled down, the angled wedge in the Door Rail also pulls the glass retaining extrusions together. This action, along with our specially designed door retaining gasket, creates a tremendous amount of force.

Laboratory Test

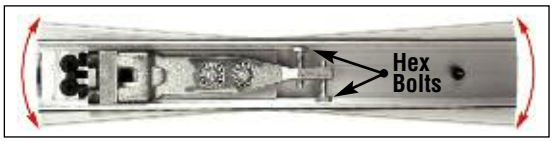
Pull Test

National Technical Systems, a certified laboratory, tested the Wedge-Lock Door Rail System at a temperature range from -10° to 150° F, with 1000 pounds of tension load applied. No evidence of movement was detected at any temperature. At an ambient temperature of 73° F, in a "Pull to Failure Test", 6900 pounds of tension was required before any creep (not failure) was detected. Our Door Rails come completely fabricated with the end caps in place, thus making them ready to install right out of the package. Experienced installers can secure our Door Rails in fewer than ten minutes.

Adjustable Door Rail Alignment System (for Jamb Alignment Centering)



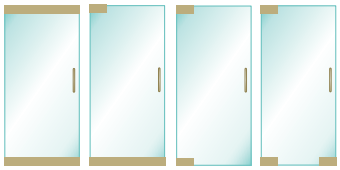
This feature allows you to adjust the door 1/8" towards and away from the jamb without removing the door (standard on both Top and Bottom Rails). After the door is installed, all that is required to adjust the door is to remove the end cap (one screw). This will reveal three socket head bolts. The center bolt is the securing bolt used to lock the adjustment slide in position. The two outer bolts are used to adjust the slide 1/8" in or out. The low profile of the adjustable slide allows the arm or pivot blocks to be moved to a position other than the American Standard setback of 2-3/4". This means if you use our Door Rails, we can fabricate them for vertically out of square openings.



Door centering is easily achieved by turning the two hex head bolts

"Industry Standard" Door Styles and Swinging Door Patterns

Four common door styles represent the industry standard. By identifying your particular door style it will make it clear what your intentions are for the particular project.



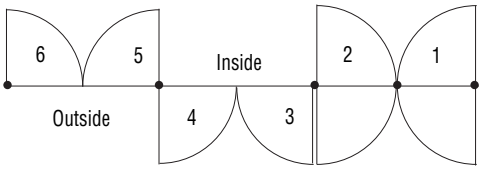
P Style B-P Style A Style F Style

P Style: Continuous Horizontal Top and Bottom Rails

B-P Style: Continuous Horizontal Bottom Rail with Top Corner Rail or Patch Fitting at Pivot Corner

A Style: Corner Rail or Patch Fitting at Top and Bottom Pivot Corner

F Style: Corner Rails or Patch Fitting at Top and Bottom Pivot Corner, and a Lock Rail or Patch at the Leading Edge of the Door



These Swinging Door Patterns are shown for your convenience. When planning your project, let us know which pattern fits your particular job.

CRL 4" Full Length Door Rails

- Patented Wedge-Lock Glass Securing System
- Adjust and Align Doors Without Removal
- Stock Models for Single and Double Doors
- For Use with 1/2" (12mm) Glass
- Available for 3/8" (10mm) Glass on Special Order
- Two Styles in Five Standard Finishes
- Custom Lengths and Finishes Available

NEW
Door Rails for 3/4" (19mm) Glass.
See Page F14

4" Tapered Door Rails

- Available With or Without Lock

Tapered Door Rails for single or double doors are available exclusively in the 4 inch size.

4" TAPERED SINGLE DOOR RAILS — 35-3/4" LENGTH

WITHOUT LOCK	WITH LOCK *	FINISH
DR4TSA12S	DR4TSA12SL	Clear Anodized
DR4TDU12S	DR4TDU12SL	Duranodic Bronze
DR4TPS12S	DR4TPS12SL	Polished Stainless
DR4TBS12S	DR4TBS12SL	Brushed Stainless
DR4TPB12S	DR4TPB12SL	Polished Brass

4" TAPERED DOUBLE DOOR RAILS — 35-13/16" LENGTH

WITHOUT LOCK	WITH LOCK *	FINISH
DR4TSA12D	DR4TSA12DL	Clear Anodized
DR4TDU12D	DR4TDU12DL	Duranodic Bronze
DR4TPS12D	DR4TPS12DL	Polished Stainless
DR4TBS12D	DR4TBS12DL	Brushed Stainless
DR4TPB12D	DR4TPB12DL	Polished Brass

4" CUSTOM LENGTH** TAPERED SINGLE DOOR RAILS

WITHOUT LOCK	WITH LOCK *	FINISH
DR4TSA12C	DR4TSA12CL	Clear Anodized
DR4TDU12C	DR4TDU12CL	Duranodic Bronze
DR4TPS12C	DR4TPS12CL	Polished Stainless
DR4TBS12C	DR4TBS12CL	Brushed Stainless
DR4TPB12C	DR4TPB12CL	Polished Brass

All Door Rails can be combined for quantity pricing.

END CAPS FOR 4" TAPERED DOOR RAILS

CAT. NO.	FINISH
DREC4TSA	Clear Anodized
DREC4TDU	Duranodic Bronze
DREC4TPS	Polished Stainless
DREC4TBS	Brushed Stainless
DREC4TPB	Polished Brass

All End Caps can be combined for quantity pricing.

4" Square Door Rails

- Available With or Without Lock

4 inch Square Door Rails come in five stock finishes for single or double doors.

4" SQUARE SINGLE DOOR RAILS — 35-3/4" LENGTH

WITHOUT LOCK	WITH LOCK *	FINISH
DR4SSA12S	DR4SSA12SL	Clear Anodized
DR4SDU12S	DR4SDU12SL	Duranodic Bronze
DR4SPS12S	DR4SPS12SL	Polished Stainless
DR4SBS12S	DR4SBS12SL	Brushed Stainless
DR4SPB12S	DR4SPB12SL	Polished Brass

4" SQUARE DOUBLE DOOR RAILS — 35-13/16" LENGTH

WITHOUT LOCK	WITH LOCK *	FINISH
DR4SSA12D	DR4SSA12DL	Clear Anodized
DR4SDU12D	DR4SDU12DL	Duranodic Bronze
DR4SPS12D	DR4SPS12DL	Polished Stainless
DR4SBS12D	DR4SBS12DL	Brushed Stainless
DR4SPB12D	DR4SPB12DL	Polished Brass

4" CUSTOM LENGTH** SQUARE SINGLE DOOR RAILS

WITHOUT LOCK	WITH LOCK *	FINISH
DR4SSA12C	DR4SSA12CL	Clear Anodized
DR4SDU12C	DR4SDU12CL	Duranodic Bronze
DR4SPS12C	DR4SPS12CL	Polished Stainless
DR4SBS12C	DR4SBS12CL	Brushed Stainless
DR4SPB12C	DR4SPB12CL	Polished Brass

All Door Rails can be combined for quantity pricing.

END CAPS FOR 4" SQUARE DOOR RAILS

CAT. NO.	FINISH
DREC4SSA	Clear Anodized
DREC4SDU	Duranodic Bronze
DREC4SPS	Polished Stainless
DREC4SBS	Brushed Stainless
DREC4SPB	Polished Brass

All End Caps can be combined for quantity pricing.

All Rails are supplied standard with Jamb Alignment Block. Closer Arms and Floor or Overhead Pivots must be ordered separately to complete job requirements.

* Rails are supplied with Latch Mechanism installed. Matching finished Keyed Cylinders or Thumbturns must be ordered separately.

** Door Rail length (Including End Caps) must be specified when ordering Custom Length Rails.

Rail Specifications, Templates and Hardware Package Specifications are available from CRL Technical Sales.
Call (800) 421-6144, Ext. 777 for information, or e-mail techsales@crlaurence.com

CRL 6" Square Full Length Door Rails

- Adjust and Align Doors Without Removal
- Available With or Without Lock

- Stock Models for Single and Double Doors
- For Use with 1/2" (12mm) Glass
- Available for 3/8" (10mm) Glass on Special Order
- Custom Lengths and Finishes Available

6" SQUARE SINGLE DOOR RAILS — 35-3/4" LENGTH

WITHOUT LOCK	WITH LOCK *	FINISH
DR6SSA12S	DR6SSA12SL	Clear Anodized
DR6SDU12S	DR6SDU12SL	Duranodic Bronze
DR6SPS12S	DR6SPS12SL	Polished Stainless
DR6SBS12S	DR6SBS12SL	Brushed Stainless
DR6SPB12S	DR6SPB12SL	Polished Brass

6" SQUARE DOUBLE DOOR RAILS — 35-13/16" LENGTH

WITHOUT LOCK	WITH LOCK *	FINISH
DR6SSA12D	DR6SSA12DL	Clear Anodized
DR6SDU12D	DR6SDU12DL	Duranodic Bronze
DR6SPS12D	DR6SPS12DL	Polished Stainless
DR6SBS12D	DR6SBS12DL	Brushed Stainless
DR6SPB12D	DR6SPB12DL	Polished Brass

6" CUSTOM LENGTH** SQUARE SINGLE DOOR RAILS

WITHOUT LOCK	WITH LOCK *	FINISH
DR6SSA12C	DR6SSA12CL	Clear Anodized
DR6SDU12C	DR6SDU12CL	Duranodic Bronze
DR6SPS12C	DR6SPS12CL	Polished Stainless
DR6SBS12C	DR6SBS12CL	Brushed Stainless
DR6SPB12C	DR6SPB12CL	Polished Brass

All Door Rails can be combined for quantity pricing.

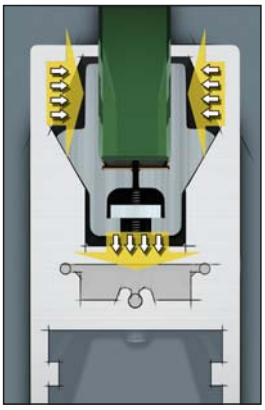
END CAPS FOR 6" SQUARE DOOR RAILS

CAT. NO.	FINISH
DREC6SSA	Clear Anodized
DREC6SDU	Duranodic Bronze
DREC6SPS	Polished Stainless
DREC6SBS	Brushed Stainless
DREC6SPB	Polished Brass

All End Caps can be combined for quantity pricing.

• Patented Wedge-Lock Glass Securing System

This exclusive feature of CRL Door Rails makes them more secure, and easier to install. It sets them apart from all others, and is so advanced it's patented.



Five Standard Finishes

Clear Anodized | Duranodic Bronze | Polished Stainless | Brushed Stainless | Polished Brass

All Rails are supplied standard with Jamb Alignment Block. Closer Arms and Floor or Overhead Pivots must be ordered separately to complete job requirements.

* Rails are supplied with Latch Mechanism installed. Matching finished Keyed Cylinders or Thumbturns must be ordered separately.

** Door Rail length (Including End Caps) must be specified when ordering Custom Length Rails.

Rail Specifications, Templates and Hardware Package Specifications are available from CRL Technical Sales.
Call (800) 421-6144, Ext. 777 for information, or e-mail techsales@crlaurence.com

CRL 10" Square Full Length Door Rails

- Patented Wedge-Lock Glass Securing System
- Adjust and Align Doors Without Removal
- Stock Models for Single and Double Doors Complete with End Caps
- For Use with 1/2" (12mm) Glass Only
- Square Style in Five Standard Finishes
- Custom Lengths and Finishes Available

NEW
Door Rails for 3/4" (19mm) Glass.
See Page F14

Thumbturn

Keyed Cylinder

Lock

Door Rails with Locks can be ordered with a Keyed Cylinder and a Thumbturn, or Keyed Cylinders on both sides.

Locks are available in both Regular Throw and optional Long Throw models. (Long throw models require additional fabrication.)

10" SQUARE SINGLE DOOR RAILS — 35-3/4" LENGTH

WITHOUT LOCK	WITH LOCK*	FINISH
DR10SSA12S	DR10SSA12SL	Clear Anodized
DR10SDU12S	DR10SDU12SL	Duranodic Bronze
DR10SPS12S	DR10SPS12SL	Polished Stainless
DR10SBS12S	DR10SBS12SL	Brushed Stainless
DR10SPB12S	DR10SPB12SL	Polished Brass

10" SQUARE DOUBLE DOOR RAILS — 35-13/16" LENGTH

WITHOUT LOCK	WITH LOCK*	FINISH
DR10SSA12D	DR10SSA12DL	Clear Anodized
DR10SDU12D	DR10SDU12DL	Duranodic Bronze
DR10SPS12D	DR10SPS12DL	Polished Stainless
DR10SBS12D	DR10SBS12DL	Brushed Stainless
DR10SPB12D	DR10SPB12DL	Polished Brass

10" CUSTOM LENGTH** SQUARE SINGLE DOOR RAILS

WITHOUT LOCK	WITH LOCK*	FINISH
DR10SSA12C	DR10SSA12CL	Clear Anodized
DR10SDU12C	DR10SDU12CL	Duranodic Bronze
DR10SPS12C	DR10SPS12CL	Polished Stainless
DR10SBS12C	DR10SBS12CL	Brushed Stainless
DR10SPB12C	DR10SPB12CL	Polished Brass

All Door Rails can be combined for quantity pricing.

END CAPS FOR 10" SQUARE DOOR RAILS

CAT. NO.	FINISH
DREC10SSA	Clear Anodized
DREC10SDU	Duranodic Bronze
DREC10SPS	Polished Stainless
DREC10SBS	Brushed Stainless
DREC10SPB	Polished Brass

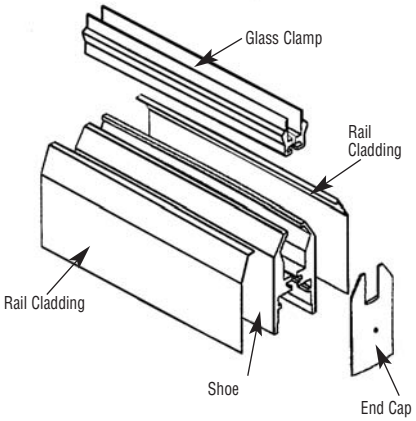
All End Caps can be combined for quantity pricing.

All Rails are supplied standard with Jamb Alignment Block. Closer Arms and Floor or Overhead Pivots must be ordered separately to complete job requirements.

* Rails are supplied with Latch Mechanism installed. Matching finished Keyed Cylinders or Thumbturns must be ordered separately.

** Door Rail length (Including End Caps) must be specified when ordering Custom Length Rails.

Rail Specifications, Templates and Hardware Package Specifications are available from CRL Technical Sales. Call (800) 421-6144, Ext. 777 for information, or e-mail techsales@crlaurence.com



Custom Made Door Rails

- Let Us Quote Your Next Door Rail Job
- Custom Lengths in Five Finishes
- All Rails Fabricated in Our California Manufacturing Plant

QUICK-FAB SERVICE
Need a custom Door Rail in a hurry? Need a replacement Door Rail like yesterday? We can give you the quickest service on custom made and replacement Door Rails. Contact CRL Technical Sales at (800) 421-6144, Ext. 777.
CRL CAN DO IT!

Not all Door Rail jobs are the same, so if you need rails in non-stock sizes or finishes CRL is your source. Tapered or Square Style Door Rails in special lengths, heights or finishes can be fabricated to your special needs in our California manufacturing plant. Hardware packages for installation, templates for cutting, and expert technical assistance are also available to ensure your Door Rail job is a success. Call the CRL Technical Sales Department at (800) 421-6144, Ext. 777 for assistance with your Custom Door Rail needs.

CRL 4" and 10" Square Full Length Door Rails for 3/4" (19mm) Glass

- Patented Wedge-Lock Glass Securing System
- Adjust and Align Doors Without Removal
- Stock Models for Single and Double Doors Complete with End Caps
- Square Style in Five Standard Finishes
- Custom Lengths and Finishes Available

10" Square Door Rails

- Available With or Without Lock

10" SQUARE SINGLE DOOR RAILS — **35-3/4" LENGTH**

WITHOUT LOCK	WITH LOCK*	FINISH
DR10SSA34S	DR10SSA34SL	Clear Anodized
DR10SDU34S	DR10SDU34SL	Duranodic Bronze
DR10SPS34S	DR10SPS34SL	Polished Stainless
DR10SBS34S	DR10SBS34SL	Brushed Stainless
DR10SPB34S	DR10SPB34SL	Polished Brass

10" SQUARE DOUBLE DOOR RAILS — **35-13/16" LENGTH**

WITHOUT LOCK	WITH LOCK*	FINISH
DR10SSA34D	DR10SSA34DL	Clear Anodized
DR10SDU34D	DR10SDU34DL	Duranodic Bronze
DR10SPS34D	DR10SPS34DL	Polished Stainless
DR10SBS34D	DR10SBS34DL	Brushed Stainless
DR10SPB34D	DR10SPB34DL	Polished Brass

10" CUSTOM LENGTH SQUARE SINGLE DOOR RAILS**

WITHOUT LOCK	WITH LOCK*	FINISH
DR10SSA34C	DR10SSA34CL	Clear Anodized
DR10SDU34C	DR10SDU34CL	Duranodic Bronze
DR10SPS34C	DR10SPS34CL	Polished Stainless
DR10SBS34C	DR10SBS34CL	Brushed Stainless
DR10SPB34C	DR10SPB34CL	Polished Brass

All Door Rails can be combined for quantity pricing.

END CAPS FOR 10" SQUARE DOOR RAILS

CAT. NO.	FINISH
DREC10SSA34	Clear Anodized
DREC10SDU34	Duranodic Bronze
DREC10SPS34	Polished Stainless
DREC10SBS34	Brushed Stainless
DREC10SPB34	Polished Brass

All End Caps can be combined for quantity pricing.

4" Square Door Rails

- Available With or Without Lock

4 inch Square Door Rails come in five stock finishes for single or double doors.

4" SQUARE SINGLE DOOR RAILS — **35-3/4" LENGTH**

WITHOUT LOCK	WITH LOCK *	FINISH
DR4SSA34S	DR4SSA34SL	Clear Anodized
DR4SDU34S	DR4SDU34SL	Duranodic Bronze
DR4SPS34S	DR4SPS34SL	Polished Stainless
DR4SBS34S	DR4SBS34SL	Brushed Stainless
DR4SPB34S	DR4SPB34SL	Polished Brass

4" SQUARE DOUBLE DOOR RAILS — **35-13/16" LENGTH**

WITHOUT LOCK	WITH LOCK *	FINISH
DR4SSA34D	DR4SSA34DL	Clear Anodized
DR4SDU34D	DR4SDU34DL	Duranodic Bronze
DR4SPS34D	DR4SPS34DL	Polished Stainless
DR4SBS34D	DR4SBS34DL	Brushed Stainless
DR4SPB34D	DR4SPB34DL	Polished Brass

4" CUSTOM LENGTH SQUARE SINGLE DOOR RAILS**

WITHOUT LOCK	WITH LOCK *	FINISH
DR4SSA34C	DR4SSA34CL	Clear Anodized
DR4SDU34C	DR4SDU34CL	Duranodic Bronze
DR4SPS34C	DR4SPS34CL	Polished Stainless
DR4SBS34C	DR4SBS34CL	Brushed Stainless
DR4SPB34C	DR4SPB34CL	Polished Brass

All Door Rails can be combined for quantity pricing.

END CAPS FOR 4" SQUARE DOOR RAILS

CAT. NO.	FINISH
DREC4SSA34	Clear Anodized
DREC4SDU34	Duranodic Bronze
DREC4SPS34	Polished Stainless
DREC4SBS34	Brushed Stainless
DREC4SPB34	Polished Brass

All End Caps can be combined for quantity pricing.

All Rails are supplied standard with Jamb Alignment Block. Closer Arms and Floor or Overhead Pivots must be ordered separately to complete job requirements.

* Rails are supplied with Latch Mechanism installed. Matching finished Keyed Cylinders or Thumbturns must be ordered separately.

** Door Rail length (Including End Caps) must be specified when ordering Custom Length Rails.

Rail Specifications, Templates and Hardware Package Specifications are available from CRL Technical Sales. Call (800) 421-6144, Ext. 777 for information, or e-mail techsales@crlaurence.com

CRL 9-1/2" Patch Door Rails

- Patented Wedge-Lock Glass Securing System
- Adjust and Align Doors Without Removal
- Two Styles Available, 4" Tapered and 4" Square Complete with End Caps
- Optional Patch with Lock Available
- For Use with 1/2" (12mm) Glass
- Available for 3/8" (10mm) Glass on Special Order
- Five Standard Finishes with Custom Finishes Available

CRL 9-1/2" Patch Door Rails are preferred by many designers to create the "all glass" look. Common applications include interior board or conference rooms, and retail storefronts. All 9-1/2" Patch Door Rails feature the Wedge-Lock Glass Securing System and other features listed on the previous pages. Stocked in five standard finishes, with custom finishes available on special order. Patch Door Rails install with simple hand tools, and require only one corner notch in the glass.

4" TAPERED 9-1/2" PATCH DOOR RAILS

WITHOUT LOCK	WITH LOCK *	FINISH
DR4TSA12P	DR4TSA12PL	Clear Anodized
DR4TDU12P	DR4TDU12PL	Duranodic Bronze
DR4TPS12P	DR4TPS12PL	Polished Stainless
DR4TBS12P	DR4TBS12PL	Brushed Stainless
DR4TPB12P	DR4TPB12PL	Polished Brass

All Patch Door Rails can be combined for quantity pricing.

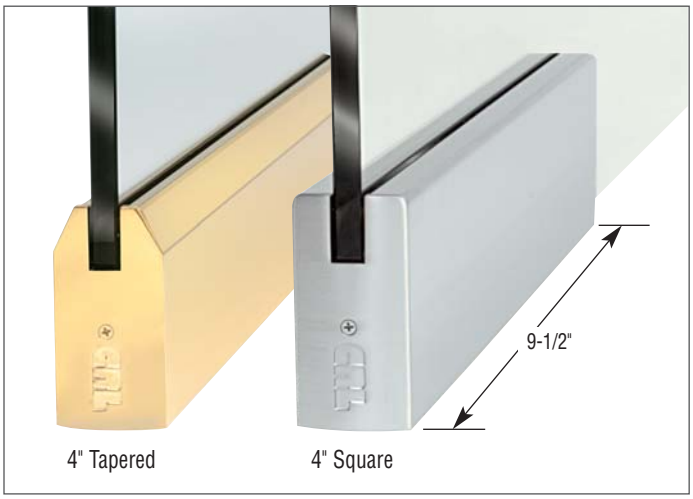
4" SQUARE 9-1/2" PATCH DOOR RAILS

WITHOUT LOCK	WITH LOCK *	FINISH
DR4SSA12P	DR4SSA12PL	Clear Anodized
DR4SDU12P	DR4SDU12PL	Duranodic Bronze
DR4SPS12P	DR4SPS12PL	Polished Stainless
DR4SBS12P	DR4SBS12PL	Brushed Stainless
DR4SPB12P	DR4SPB12PL	Polished Brass

All Patch Door Rails can be combined for quantity pricing.

All Patch Rails are supplied standard with Jamb Alignment Block. Closer Arms and Floor or Overhead Pivots must be ordered separately to complete job requirements.

*Patch Rails are supplied with Latch Mechanism installed. Matching finish Keyed Cylinders or Thumbturns must be ordered separately.



END CAPS FOR 4" TAPERED 9-1/2" PATCH DOOR RAILS

Closed End Cap

CLOSED END CAT. NO.	FINISH	SPLIT END CAT. NO.
DREC4TSA	Clear Anodized	DRSEC4TSA
DREC4TDU	Duranodic Bronze	DRSEC4TDU
DREC4TPS	Polished Stainless	DRSEC4TPS
DREC4TBS	Brushed Stainless	DRSEC4TBS
DREC4TPB	Polished Brass	DRSEC4TPB

All End Caps can be combined for quantity pricing.

Split End Cap

END CAPS FOR 4" SQUARE 9-1/2" PATCH DOOR RAILS

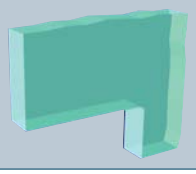
Closed End Cap

CLOSED END CAT. NO.	FINISH	SPLIT END CAT. NO.
DREC4SSA	Clear Anodized	DRSEC4SSA
DREC4SDU	Duranodic Bronze	DRSEC4SDU
DREC4SPS	Polished Stainless	DRSEC4SPS
DREC4SBS	Brushed Stainless	DRSEC4SBS
DREC4SPB	Polished Brass	DRSEC4SPB

All End Caps can be combined for quantity pricing.

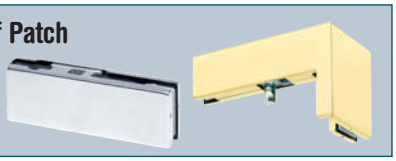
Split End Cap

Glass Fabrication Required:
One Corner Notch



Rail Specifications, Templates and Hardware Package Specifications are available from CRL Technical Sales. Call (800) 421-6144, Ext. 777 for information, or e-mail techsales@crlaurence.com

Our Complete Selection of Patch Hardware can be found beginning on page F48.



CRL Door Rail Accessories

CRL Weatherstrip Kits for Glass Doors with 4" Door Rails

- Low Profile Maximizes "All Glass" Look
- Reduces Drafts without Detracting from Appearance of Door
- Clear Polycarbonate or Metal Channel for 1/2" (12mm) Thick Glass

Split End Caps and Center Weatherstrips match the finish and style of CRL 4" Door Rails.

PROFILE

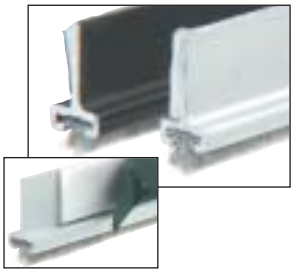
Weatherstrip Kits for all glass doors are available to fit doors using our 4" Tapered or Square Door Rails. The kit includes either Clear Polycarbonate or polished finished Aluminum Extrusions with Wool Pile Weatherstrip, plus a set of Split End Caps. It is easily installed using Transparent Very Hi-Bond Tape.

Clear Polycarbonate Channel Kit for 4" Tapered Rails CAT. NO.	Clear Polycarbonate Channel Kit for 4" Square Rails CAT. NO.	Aluminum Channel Kit for 4" Tapered Rails CAT. NO.	Aluminum Channel Kit for 4" Square Rails CAT. NO.	FINISH
CTW12PS	CSW12PS	MTW12PS	MSW12PS	Polished Stainless
CTW12PB	CSW12PB	MTW12PB	MSW12PB	Polished Brass
CTW12BS	CSW12BS	----------	----------	Brushed Stainless
CTW12DU	CSW12DU	----------	----------	Duranodic Bronze
CTW12SA	CSW12SA	----------	----------	Satin Anodized

Finishes can be combined for quantity pricing. 98" Stock Lengths can be shipped U.P.S.

CRL Pile Weatherstrips for Door Rails

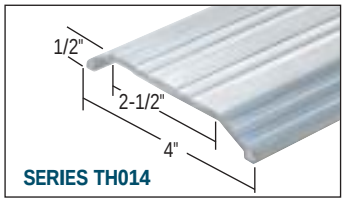
- Fit All CRL Single and Double Door Rails
- Install Without Modifications Using Very Hi-Bond Tape

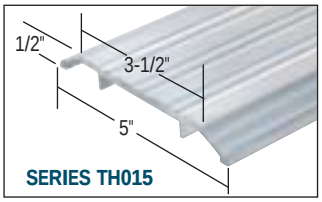


CAT. NO.	TYPE	FINISH	UNIT
DRWSAS	Single Door Rail	Satin Anodized	Set of 2
DRWDUS	Single Door Rail	Duranodic Bronze	Set of 2
DRWSAD	Double Door Rail	Satin Anodized	Set of 4
DRWDUD	Double Door Rail	Duranodic Bronze	Set of 4
DRWSA144	Custom Rail	Satin Anodized	144" Length
DRWDU144	Custom Rail	Duranodic Bronze	144" Length

Finishes can be combined for quantity pricing.
144" Lengths must ship common carrier, unless you have us cut them to ship U.P.S.

CRL Residential / Commercial Saddle Thresholds





ALUMINUM CAT. NO.	DARK BRONZE CAT. NO.	WIDTH	LENGTH
TH014A36	TH014D36	4"	36"
TH014A72	TH014D72	4"	72"
TH015A36	TH015D36	5"	36"
TH015A72	TH015D72	5"	72"

All Thresholds can be combined for quantity pricing.

Extruded Aluminum Thresholds are furnished with screws for easy installation.

CRL Very Hi-Bond Adhesive Tape

- Transparent Acrylic

CRL Transparent Double-Sided Very Hi-Bond Acrylic Tape can be used to install Pile Weatherstrips to edges of glass doors. Excellent resistance to all weather conditions.

CAT. NO.	WIDTH	THICKNESS	FT./RL.
AT04014	1/4"	.040"	108
AT0401436	1/4"	.040"	36

CRL Snug Strip Nylon Pile

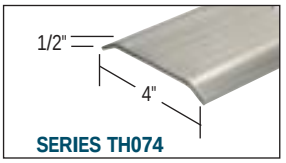
- Apply to Vertical Edge of Glass Door to Reduce Drafts

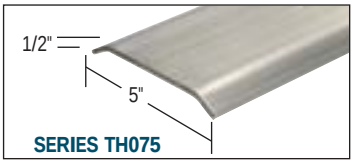
Gray pile with shiny finish metal backing that can be adhered to edge using Very Hi-Bond Tape.

CAT. NO.	FT./RL.
SS34PK	50

Minimum order: 1 Roll.

CRL Stainless Steel Saddle Thresholds





Solid #304 alloy stainless steel will provide you with years of service in the most corrosive of environments. This is the highest quality stainless steel threshold available!

CAT. NO.	WIDTH	LENGTH
TH074SS36	4"	36"
TH075SS36	5"	36"

All Thresholds can be combined for quantity pricing.

See pages 862 and 863 of our Big Red Master Catalog for our complete selection of Thresholds, or visit **www.crlaurence.com**

CRL Door Rail Accessories

Mortise Key Cylinders and Thumbturns

Cylinders and Thumbturns for use with CRL Door Rails.

Key Cylinder

Thumbturn

Dummy Cylinder

CAT. NO.	TYPE	FINISH
DRA10SA	Key Cylinder	Clear Anodized
DRA10DU	Key Cylinder	Duranodic Bronze
DRA10PS	Key Cylinder	Polished Stainless
DRA10BS	Key Cylinder	Brushed Stainless
DRA10PB	Key Cylinder	Polished Brass
DRA20SA	Thumbturn	Clear Anodized
DRA20DU	Thumbturn	Duranodic Bronze
DRA20PS	Thumbturn	Polished Stainless
DRA20BS	Thumbturn	Brushed Stainless
DRA20PB	Thumbturn	Polished Brass
DRA30SA	Dummy Cylinder	Clear Anodized
DRA30DU	Dummy Cylinder	Duranodic Bronze
DRA30PS	Dummy Cylinder	Polished Stainless
DRA30BS	Dummy Cylinder	Brushed Stainless
DRA30PB	Dummy Cylinder	Polished Brass

Finishes can be combined for quantity pricing.

Straight Cylinder Rings

For Spacing Mortise Key Cylinders

- 3 Thicknesses to Fit Cylinders and Thumbturns Above

.100"

.256"

.360"

CAT. NO.	SIZE	FINISH
DRA100BS	.100"	Brushed Stainless
DRA100PB	.100"	Polished Brass
DRA100PS	.100"	Polished Stainless
DRA100SA	.100"	Clear Anodized
DRA256BS	.256"	Brushed Stainless
DRA256PB	.256"	Polished Brass
DRA256PS	.256"	Polished Stainless
DRA256SA	.256"	Clear Anodized
DRA360BS	.360"	Brushed Stainless
DRA360DU	.360"	Duranodic Bronze
DRA360PB	.360"	Polished Brass
DRA360PS	.360"	Polished Stainless
DRA360SA	.360"	Clear Anodized

Finishes can be combined for quantity pricing.

AR Style Cam

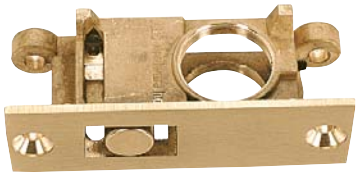
Adams Rite (AR) Style Cams are universal, and will permit the use of our DRA Series Mortise Cylinders for applications other than our Door Rail System.

CAT.NO. DRACAM

Door Rail Floor Lock

Replacement for lock used in all CRL Door Rails with Locks.

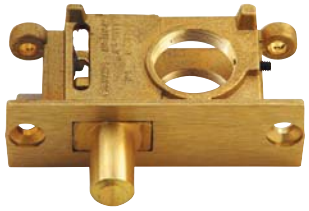
CAT. NO. 777S 3/4" Throw



Door Rail Long Throw Locks

Long Throw Locks are available on special order, and must be fitted in the Door Rail at the factory. For more information call CRL Technical Sales at (800) 421-6144, ext. 777

CAT. NO. 777SL 1-5/32" Throw



Strike Plate

CAT. NO.	FINISH
777SPSA	Clear Anodized
777SPBS	Brushed Stainless
777SPDU	Duranodic Bronze
777SPPS	Polished Stainless
777SPPB	Polished Brass

Finishes can be combined for quantity pricing.

Works with 777S and 777SL Door Rail Floor Locks.

Dustproof Keeper

Dustproof Keeper without Mounting Plate. Works with 777S and 777SL Door Rail Floor Locks.

CAT. NO.	FINISH
AMR207BR	Brass
AMR207PS	Polished Stainless

Finishes can be combined for quantity pricing.

Dustproof Keeper

Dustproof Keeper with Mounting Plate. Works with 777S and 777SL Door Rail Floor Locks. Available with or without locking option.

CAT. NO.	TYPE	FINISH
AMR208BR	Non-Locking	Polished Brass
AMR208PS	Non-Locking	Polished Stainless
AMR209BR	Locking	Polished Brass
AMR209PS	Locking	Polished Stainless

Finishes can be combined for quantity pricing.

Gripping Jaw Replacements for Door Rails

- Custom Sizes Available

CAT. NO.	JAW SIZE	RAIL SIZE	GLASS SIZE
LGJ12	Large	10"	1/2"
SGJ12	Small	4" & 6"	1/2"
SGJ38	Small	4" & 6"	3/8"

Sold only in sets of two.

CRL Overhead Concealed Door Closers for Patch Fittings and Door Rails

- Includes All Necessary Parts
- 5 Year Limited Warranty
- U.L. Listed

- Made with Longer (3/4") Spindle Required for Patch Hardware Fittings

CAT. NO.	SPRING SIZE	TYPE
CRL9160	Medium	90° Hold Open
CRL9162	Medium	90° No Hold Open
CRL9170	Medium	105° Hold Open
CRL9172	Medium	105° No Hold Open
CRL9260	Heavy	90° Hold Open
CRL9262	Heavy	90° No Hold Open
CRL9270	Heavy	105° Hold Open
CRL9272	Heavy	105° No Hold Open
CRL9970	A.D.A. - 8.5 Lb.	105° Hold Open
CRL9972	A.D.A. - 8.5 Lb.	105° No Hold Open

All CRL Door Closers can be combined for quantity pricing

Interchangeable with:
International, Jackson and similar brands of Overhead Concealed Closers.

These Overhead Concealed Door Closers have a longer spindle (approximately 3/4"), which is the preferred length when used in conjunction with Patch Hardware Fittings and Door Rails. Closer has dual action valves for closing operation (one valve for closing, one for latching). 90˚ and 105˚ Hold Open and No Hold Open models are available. Mounting Clips and instructions are included with each Closer Body.

CRL Heavy Weight Floor Mounted Door Closers

- The Perfect Closer to Support CRL's Door Rail System
- 800 Lb. Capacity, 54" Doors
- Interchangeable Spindle Heights
- Adjustable Hold Open Position
- Variable Delayed Action
- Equivalent to Dorma BTS-80 Closer
- 5 Year Limited Warranty

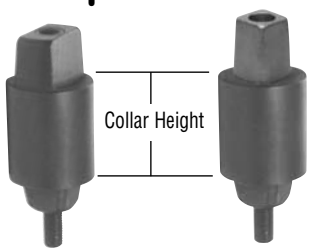
CAT. NO.	SPRING SIZE	MAXIMUM DOOR WIDTH INTERIOR	EXTERIOR
CRL8520	A.D.A. - 8.5 lb.	36" (915 mm)	30" (762 mm)
CRL8530	Medium	46" (1168 mm)	36" (915 mm)
CRL8540	Heavy	54" (1372 mm)	46" (1168 mm)

All CRL Door Closers can be combined for quantity pricing.

NEW

The CRL8500 Series Floor Closer is a heavy weight capacity floor closer that features hydraulically adjustable hold open and selective delayed action, all in one unit. Accessories such as Cover Plates, Pivots, Center-Hung and Offset Arms are also available. See page F111.

CRL Spindles



- Heights from 1/8" (3mm) to 1-5/16" (33mm)

Flat Tapered and "MAB" Type Square Spindles are available to accommodate different threshold heights. Fits all CRL8300, CRL8400 and CRL8500 Series Floor Mounted Door Closers. See page F111 for more information.

CRL Low Profile Floor Mounted Door Closers

- Low Profile 1-9/16" (40mm) Depth Model with Changeable Spindle Heights
- Includes Closer, Cement Box and Brushed Stainless Steel Cover Plate
- Equivalent to Dorma BTS-84 Closer
- U.L. Listed

CAT. NO.	SPRING SIZE	TYPE
CRL8360	Medium	90° Hold Open
CRL8370	Medium	105° Hold Open
CRL8372	Medium	105° No Hold Open

All CRL Door Closers can be combined for quantity pricing.

SPECIFICATIONS
Maximum Door Width 37-3/8" (950mm)
Maximum Door Weight 264 Lbs. (120 Kgs)

CRL Narrow Width Floor Mounted Door Closers

- Narrow Width 2-1/64" (51mm) Depth Model with Changeable Spindle Heights
- Includes Closer, Cement Box and Brushed Stainless Steel Cover Plate
- Similar to Dorma BTS-75 Closer
- U.L. Listed

CAT. NO.	SPRING SIZE	TYPE
CRL8460	Medium	180°-Hold Open @ 90˚
CRL8462	Medium	180° Hold Open

All CRL Door Closers can be combined for quantity pricing.

SPECIFICATIONS
Maximum Door Width 37-3/8" (950mm)
Maximum Door Weight 264 Lbs. (120 kgs)

CRL Door Rail Accessories

Short End Load Arm

Specially designed to fit CRL Door Rails.

CAT. NO. CRL8010AS

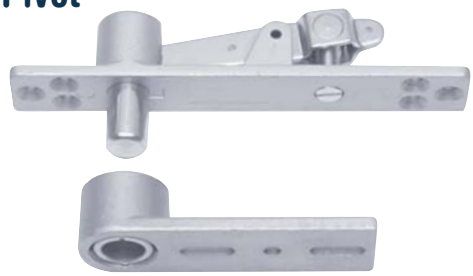
Short Floor Closer Arm

Specially designed to fit CRL Door Rails.

CAT. NO. CRL9040AS

Walking Beam Pivot

Works in wood headers, or metal headers when used with CRL9040MB Tube Mounting Brackets.



CAT. NO. CRL9040WBP

Tube Mounting Brackets

Work with CRL9040WBP Walking Beam Pivot in metal headers.

CAT. NO. CRL9040MB

Walking Beam Pivot Cover Plate

Available in four finishes to fit CRL9040WBP Walking Beam Pivot.

CAT. NO.	FINISH
CRL9040CPA	Satin Aluminum
CRL9040CPPB	Polished Brass

CAT. NO.	FINISH
CRL9040CPPS	Polished Stainless Steel
CRL9040CPBS	Brushed Stainless Steel

Top Door Rail Fitting

Specially designed to fit CRL Door Rails.

CAT. NO. CRL9040TDF

Top Free Swinging Pivot

Installs easily in wood or metal substrates to work with CRL9040TDF Top Door Rail Fitting.

CAT. NO. 1NT401

Bottom Heavy-Duty Free Swinging Pivot

Heavy-Duty Bottom Pivot specially designed to fit CRL Door Rails.

CAT. NO. CRL8010SET

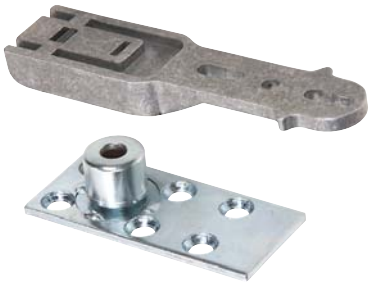
Threshold Base Plate

Designed for use with 1/2" high thresholds. Works with CRL8010SET.

CAT. NO. CRL8010TBP

Complete Bottom Pivot with Plate

Heavy-Duty Floor Mount Bottom Pivot for use with CRL Door Rail System.



CAT. NO. CRL8010BP

Floor Mounted Free Swinging Pivot

Floor Mounted Free Swing Pivot with tapered type spindle for use with the CRL Door Rail System.

CAT. NO. 1NT402

Pivot Bracket

AGT2 Pivot Brackets accommodate an all-glass transom. Supports the weight of the transom glass and enables door to pivot.

CAT. NO.	HANDING	FINISH
AGT2LBS	Left Hand	Brushed Stainless
AGT2LPS	Left Hand	Polished Stainless
AGT2RBS	Right Hand	Brushed Stainless
AGT2RPS	Right Hand	Polished Stainless

Offset Top Pivot

Full mortise, non-handed 3/4" Offset Pivot for use with CRL Door Rails, as well as standard wood, aluminum and hollow metal doors.

CAT. NO.	FINISH
CRL9075PB	Polished Brass
CRL9075PS	Polished Stainless
CRL9075BS	Brushed Stainless

Finishes can be combined for quantity pricing.

Offset Bottom Pivot Arm

See page F39 for handing chart.

3/4" Offset Bottom Pivot Arm for use with CRL Door Rails, as well as standard wood, aluminum and hollow metal doors.

RH/LHR Shown

LH/RHR CAT. NO.	FINISH	RH/LHR CAT. NO.
CRL9077PB	Polished Brass	CRL9079PB
CRL9077PS	Polished Stainless	CRL9079PS
CRL9077BS	Brushed Stainless	CRL9079BS

Finishes can be combined for quantity pricing.

CRL Heavy Glass Sliding Doors

- **Variety of Styles and Finishes Available for Use with 3/8" (10mm) or 1/2" (12mm) Glass**
- **Each Unit Custom Built to Fit the Opening**
- **Saves Valuable Floor Space - Will Not Project Out of the Door Opening**
- **Simple to Install, and Doors Can Be Aligned Without Removal**

NEW

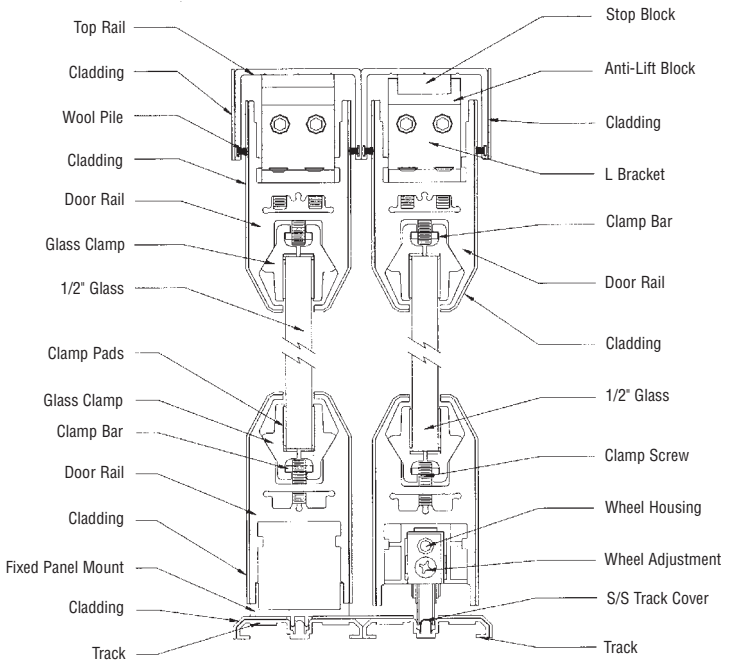
Our New Heavy Glass Sliding Door System uses the same technology found in our Wedge-Lock Door Rails to secure heavy panels of 3/8" or 1/2" (10mm or 12mm) glass to create almost "frameless" glass doors between interior areas. Several profiles are available in any of the five architectural finishes used for our Door and Sidelite Rails in both Tapered and Square styles. Installation is simplified because each unit is custom built to your specifications for opening size and glass thickness. Once installed, you can adjust or align doors without removal.

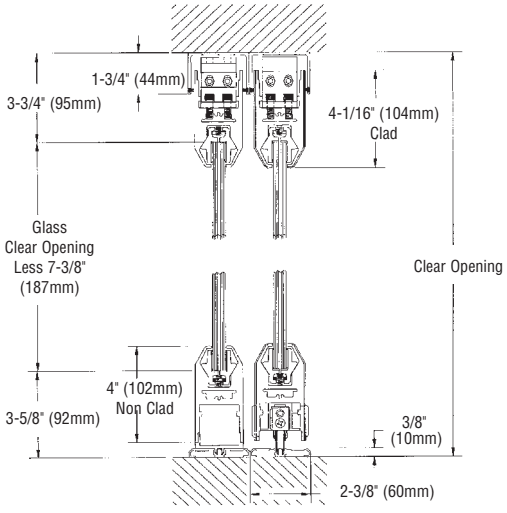
SPECIFICATIONS

For Use With: 3/8" (10mm) or 1/2" (12mm) Glass
Note: Available by custom order only. Most orders can be fabricated within five business days from our Vernon, California manufacturing facility.

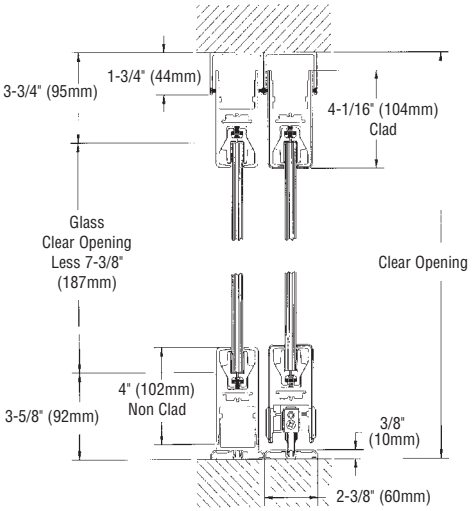
Optional Hardware

Our newest option for "All Glass" entrances is our Frameless Pull Handle.
See page F40

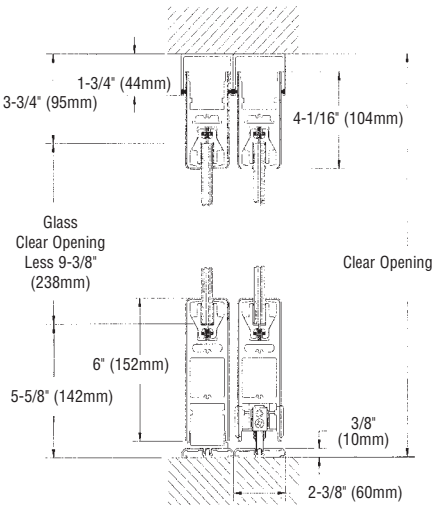




4" Tapered Door Rail
Top and Bottom;
Clad or Non Clad



4" Square Door Rail
Top and Bottom;
Clad or Non Clad

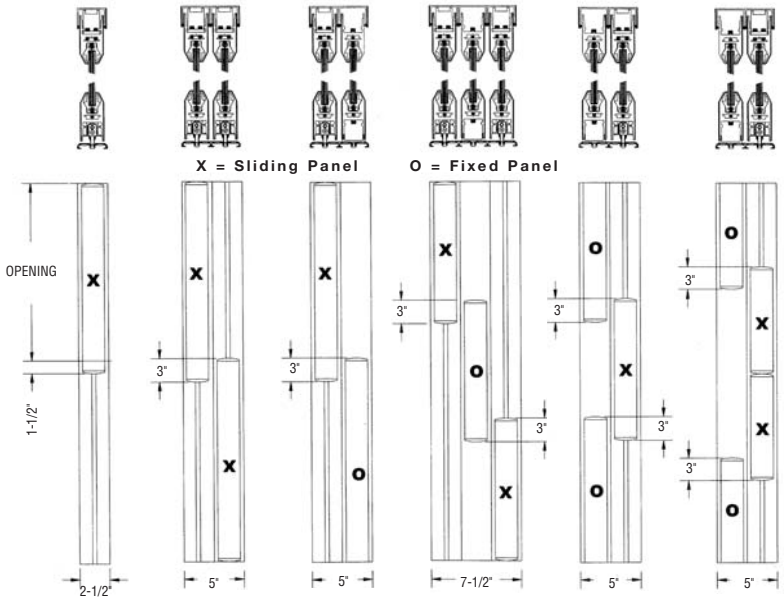


4" Square Door Rail Top;
6" Square Door Rail Bottom;
Clad

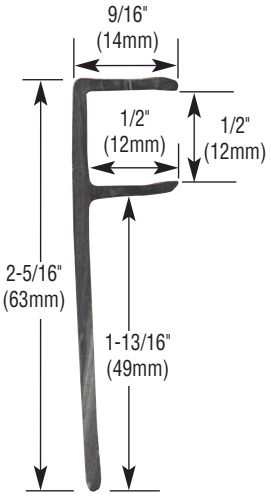
GLASS ENTRANCE SYSTEM

CRL Technical Sales can help you select the right Sliding Door configuration for your needs. For assistance, call (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

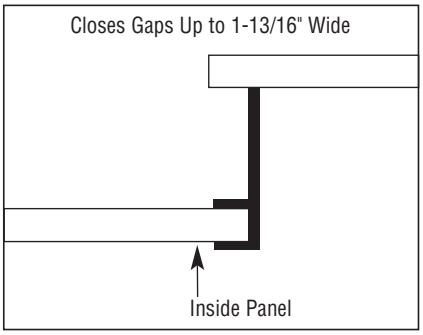
• Sliding Door Systems Can Be Custom Built in Six Standard Configurations



	X	XX	XO(OX)	XOX	OXO	OXXO
FINISH	**4" TAPERED RAIL TOP AND BOTTOM**					
Brushed Stainless	SDR1ABS	SDR2BBS	SDR2CBS	SDR3DBS	SDR3EBS	SDR4FBS
Duranodic Bronze	SDR1ADU	SDR2BDU	SDR2CDU	SDR3DDU	SDR3EDU	SDR4FDU
Polished Brass	SDR1APB	SDR2BPB	SDR2CPB	SDR3DPB	SDR3EPB	SDR4FPB
Polished Stainless	SDR1APS	SDR2BPS	SDR2CPS	SDR3DPS	SDR3EPS	SDR4FPS
Satin Anodized	SDR1ASA	SDR2BSA	SDR2CSA	SDR3DSA	SDR3ESA	SDR4FSA
FINISH	**4" SQUARE RAIL TOP AND BOTTOM**					
Brushed Stainless	4SDR1ABS	4SDR2BBS	4SDR2CBS	4SDR3DBS	4SDR3EBS	4SDR4FBS
Duranodic Bronze	4SDR1ADU	4SDR2BDU	4SDR2CDU	4SDR3DDU	4SDR3EDU	4SDR4FDU
Polished Brass	4SDR1APB	4SDR2BPB	4SDR2CPB	4SDR3DPB	4SDR3EPB	4SDR4FPB
Polished Stainless	4SDR1APS	4SDR2BPS	4SDR2CPS	4SDR3DPS	4SDR3EPS	4SDR4FPS
Satin Anodized	4SDR1ASA	4SDR2BSA	4SDR2CSA	4SDR3DSA	4SDR3ESA	4SDR4FSA
FINISH	**4" SQUARE RAIL TOP, 6" SQUARE RAIL BOTTOM**					
Brushed Stainless	6SDR1ABS	6SDR2BBS	6SDR2CBS	6SDR3DBS	6SDR3EBS	6SDR4FBS
Duranodic Bronze	6SDR1ADU	6SDR2BDU	6SDR2CDU	6SDR3DDU	6SDR3EDU	6SDR4FDU
Polished Brass	6SDR1APB	6SDR2BPB	6SDR2CPB	6SDR3DPB	6SDR3EPB	6SDR4FPB
Polished Stainless	6SDR1APS	6SDR2BPS	6SDR2CPS	6SDR3DPS	6SDR3EPS	6SDR4FPS
Satin Anodized	6SDR1ASA	6SDR2BSA	6SDR2CSA	6SDR3DSA	6SDR3ESA	6SDR4FSA



NEW



CRL Sliding Door Gap Closing Polycarbonate

• Clear Polycarbonate Extrusion for 1/2" (12mm) Glass

• Simple Snap-On Installation Using Clear Very High Bond Tape

This clear polycarbonate extrusion closes the gap between the two sliding panels in our Wedge-Lock Sliding Door System. Fits glass up to 1/2" (12mm) thick, and can be permanently adhered using our Cat. No. AT0401436 Double-Sided Very High Bond Tape. Simply apply tape to leading edge of glass on inside sliding panel, then snap extrusion in place.

CAT. NO.	DESCRIPTION	STOCK LENGTH
SDGC98	Sliding Door Gap Closing Polycarbonate	98" (2490mm)

Stock lengths are individually packed to protect them during shipping.

Overhead Track Sliding and Bi-Fold Doors

NEW

- 4-Roller Units Silently Move the Door Rails
- Provides a Flush Bottom Surface
- Available in Three Configurations and Five Finishes
- Bottom Door Rails Can Be Secured Two Ways

The CRL Overhead Track Sliding and Bi-Fold Door System was designed to work in a variety of different installations. It's universal design allows it to be used as a sliding system with six standard configurations, or as bi-fold system in full leaf or half leaf styles. The top rollers are easily adjustable for height and alignment. The overhead track and the door rails are the same width to provide a matching sight line. Pile weatherstrip between the overhead track and door rail conceals the gap. Securing the bottom door rails can be accomplished two different ways: with a guide that slides in a channel mounted in the floor; in a dust proof keeper in the floor using a slide bolt or keyed lock. The narrow bottom guide channel has only a 1/4" wide opening, narrow enough so high heels won't get caught, yet wide enough to be easily cleaned. Any of the five attractive finishes will provide esthetics and longevity on the job. Because all units will be custom made to match the customer's requirements, catalog numbers represent each style and finish. All other necessary information will be required when quoting.

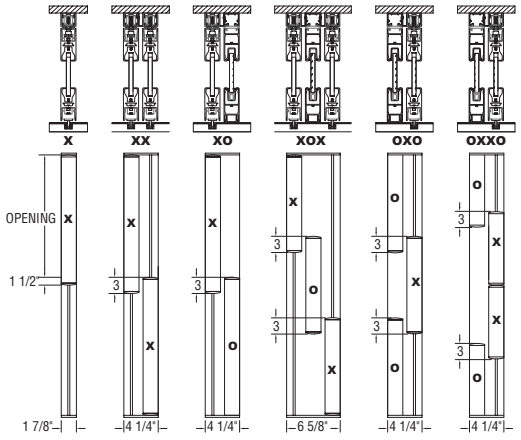
TYPICAL USES

• Stadium Luxury Boxes • Conference Rooms • Display Cases
• Large Entry Doors • "Open Air" Rooms

CAT. NO.	TYPE	FINISH
OTS1SA	Sliding	Satin Anodized
OTS1DU	Sliding	Duranodic Bronze
OTS1PS	Sliding	Polished Stainless
OTS1BS	Sliding	Brushed Stainless
OTS1PB	Sliding	Polished Brass

Sliding Door Configurations

- Sliding Door Systems Can Be Custom Built in Six Standard Configurations

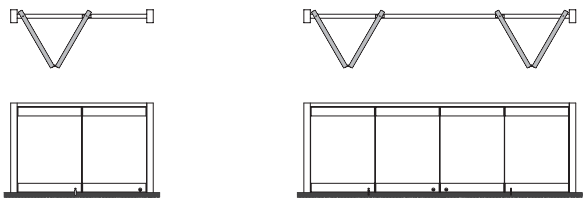


X= Sliding Panel O= Fixed Panel

New Sliding Door Handle

See page F40

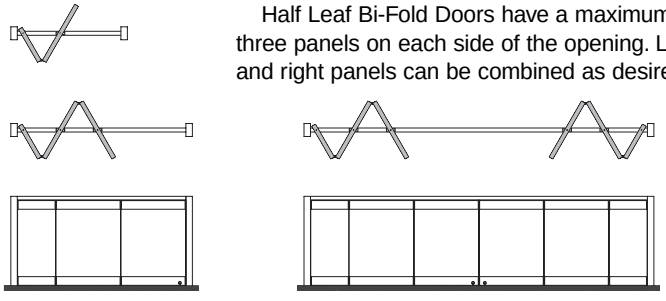
Full Leaf Bi-Fold Configurations



Full Leaf Bi-Fold Doors have a maximum of two panels on each side of the opening. All units are custom made to order.

CAT. NO.	TYPE	FINISH
OTB2SA	Full Leaf	Satin Anodized
OTB2DU	Full Leaf	Duranodic Bronze
OTB2PS	Full Leaf	Polished Stainless
OTB2BS	Full Leaf	Brushed Stainless
OTB2PB	Full Leaf	Polished Brass

Half Leaf Center Hung Configurations



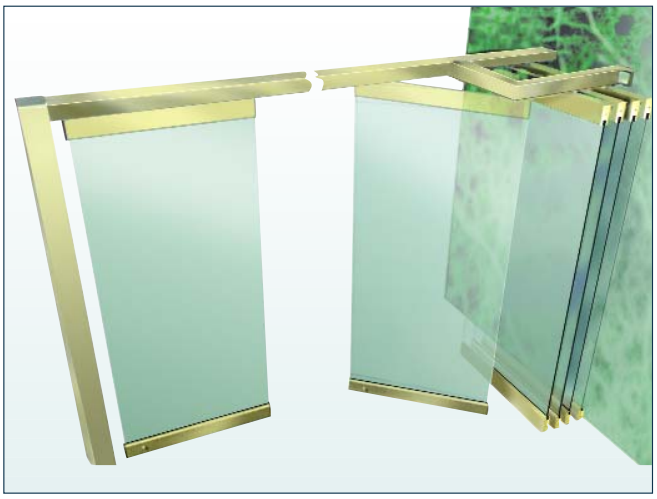
Half Leaf Bi-Fold Doors have a maximum of three panels on each side of the opening. Left and right panels can be combined as desired.

CAT. NO.	TYPE	FINISH
OTC3SA	Half Leaf	Satin Anodized
OTC3DU	Half Leaf	Duranodic Bronze
OTC3PS	Half Leaf	Polished Stainless
OTC3BS	Half Leaf	Brushed Stainless
OTC3PB	Half Leaf	Polished Brass

For more information contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**

CRL Frameless Overhead Track Stacking Door System NEW

- Typical Applications:
- Storefronts in Malls
- Stadium Luxury Boxes
- All Glass Room Dividers
- Auto Showroom Entrances

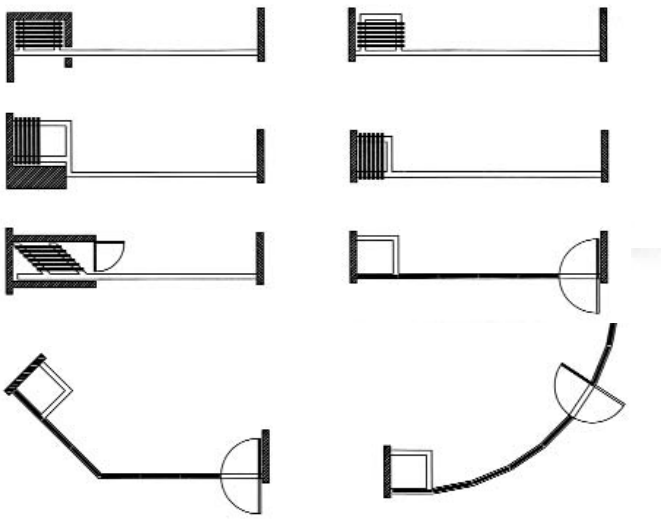


- For Parking Sliding and Swinging Doors
- Provides a Full Width Opening
- Creates the Elegant All Glass Look
- Available in Five Architectural Finishes
- For 3/8" (10mm) or 1/2" (12mm) Glass

CRL Frameless Overhead Track Stacking Door System is designed to accommodate both Sliding and Swinging Doors. Either style door can stack in an open or closed parking area to provide a full width opening. Many types of parking areas are available, and different configurations can be accommodated.

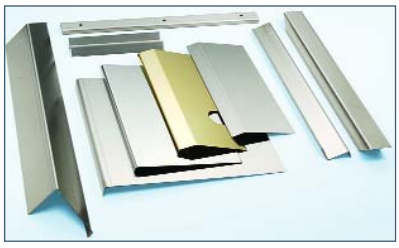
Shown here are just a few of the many installation styles available. For additional information regarding configurations, finishes and available options, contact Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

Parking and Configuration Options



CRL Custom Fabricated Cladding NEW

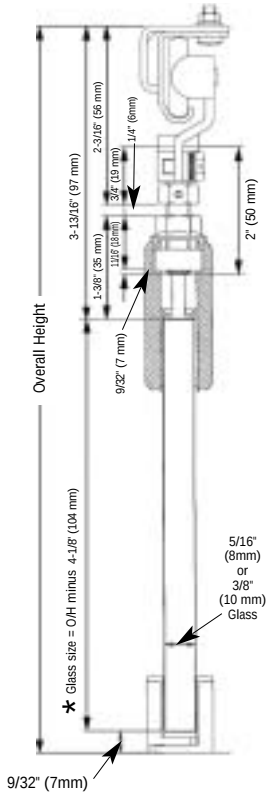
- High Quality Metals and Finishes Fabricated to Your Specifications
- Specializing in Custom Break Shapes
- Five Popular Architectural Finishes: Clear Anodized (US28), Duranodic Bronze (313), #8 Polished Brass (US3NL), #4 Stainless Steel (US32D), #10 Polished Stainless Steel (US32)



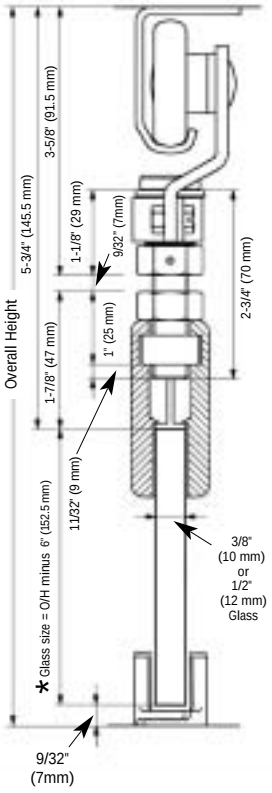
C.R. Laurence Manufacturing heard the requests of our customers and now provides custom fabricated cladding from our expanded manufacturing facilities in Vernon, California. You supply the drawings and dimensions, we fabricate the cladding and can make shipment to anywhere in the world. We can also fabricate your aluminum framing for the installation of hardware. For further details, or for a quote on your job requirements, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

CRL Top Hung Single Track Sliding Door System

K80 Series for 5/16" (8mm) and 3/8" (10mm) Tempered Glass
Up to 176 Lbs. (80kg) per panel



K180 Series for 3/8" (10mm) and 1/2" (12mm) Tempered Glass
Up to 396 Lbs. (180kg) per panel



✱ **Glass size allows 5/32" (4mm) up or down adjustment**

TYPICAL APPLICATIONS:

•Closets •Display Cases •Cabinets •Pass-thru

K80 SERIES PARTS FOR 5/16" OR 3/8" GLASS UP TO 176 LBS.(80KG) PER PANEL

CAT.NO.	DESCRIPTION
K3319	Series K80 Steel Track 157" (4 meters) Long
K3387	Series K80 Steel Wall Bracket (10 per Pack)
K3924	Series K80 2 Rollers and 2 Stops
K3925	Series K80 2 Regulator Bolts
K3926	Series K80 2 Clamps and 1 Guide
K3938	Series K80/K180 Bottom Guide

All catalog numbers should be ordered individually to customize your system.

K180 SERIES PARTS FOR 3/8" OR 1/2" GLASS UP TO 396 LBS.(180KG) PER PANEL

CAT.NO.	DESCRIPTION
K3611	Series K180 Steel Track 157" (4 meters) Long
K3686	Series K180 Steel Wall Bracket (10 per Pack)
K3927	Series K180 2 Rollers and 2 Stops
K3928	Series K180 2 Regulator Bolts
K3929	Series K180 2 Clamps and 1 Guide
K3938	Series K80/K180 Bottom Guide

All catalog numbers should be ordered individually to customize your system.

For more information contact
CRL Technical Sales
at (800) 421-6144, Ext. 777, or e-mail
techsales@crlaurence.com

- **Two Complete Hardware Systems for 5/16" (8mm), 3/8" (10mm) or 1/2" (12mm) Thick Tempered Glass**
- **K80 System for 5/16" (8mm) and 3/8" (10mm) Glass is Rated for Panels Weighing Up to 176 Lbs. (80kg)**
- **K180 System for 3/8" (10mm) and 1/2" (12mm) Glass is Rated for Panels Weighing Up to 396 Lbs. (180kg)**
- **No Notches or Holes Necessary for Installation**

Our New Top Hung Single Track Sliding Door System is easy to install, and is a cost effective solution to add a modern, elegant look to commercial or residential applications. The only fabrication needed for the glass is polishing the edges. Single-sided handles or knobs can be added to aid opening and closing. Optional brake metal covers are available on special order to help conceal the operating hardware.

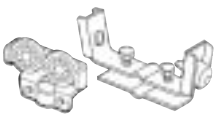
NOTE: This system is not designed to be used for shower or steam room applications.

SPECIFICATIONS:

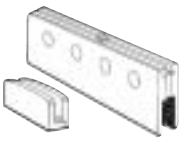
Material:
Aluminum and steel components (glass not provided)
For Use With:
5/16" (8mm), 3/8" (10mm) or 1/2" (12mm) thick tempered glass
Glass Fabrication Required:
Polished edges; Holes when handles or knobs are used

K3319

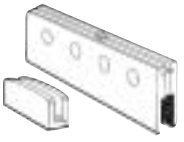
K3387

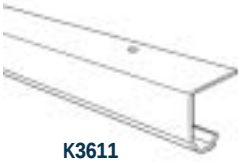

K3924

K3925

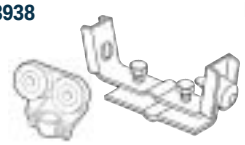

K3926

K3938


K3929


K3611

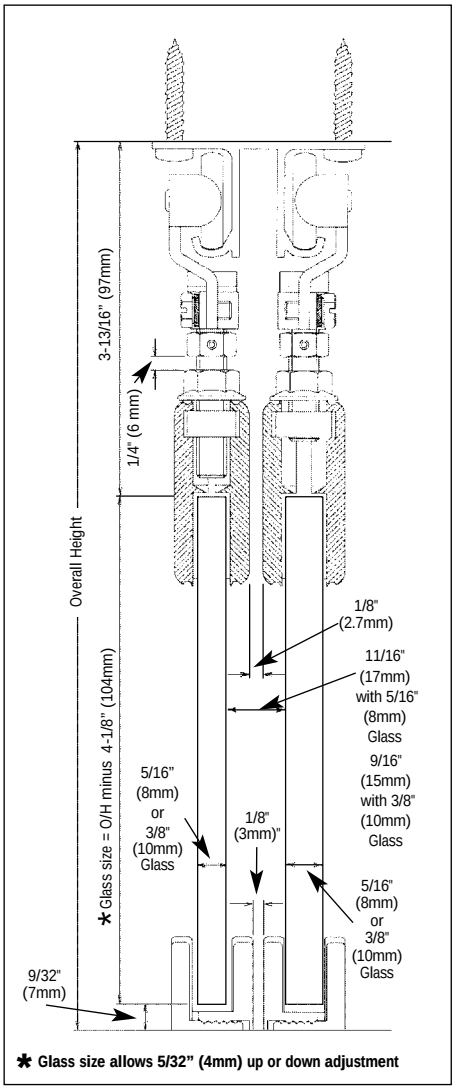
K3686


K3927

K3928

CRL Top Hung Double Track Sliding Door System

Top Hung Double Track Sliding Door
for 5/16" (8mm) and 3/8" (10mm) Tempered Glass
Up to 176 Lbs. (80 kg) per panel



- **Complete Hardware System for 5/16" (8mm) and 3/8" (10mm) Thick Tempered Glass**
- **Double Track System is Rated for Panel Weights Up to 176 Lbs. (80kg)**
- **No Notches or Holes Necessary for Installation**
- **An Easy-to-Install Bypass Door System**

The New Top Hung Double Track Sliding Door System is a perfect contemporary look for closets, display cases, cabinets and pass-thru applications. Single-sided handles or knobs can be added to aid opening and closing. Optional break metal covers are available on special order to help conceal the operating hardware.

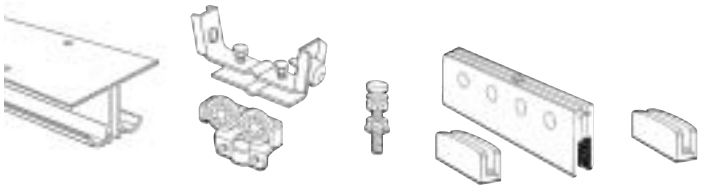
NOTE: This system is not designed to be used for shower or steam room applications.

SPECIFICATIONS:

Material:
Aluminum and steel components (glass not provided)

For Use With:
5/16" (8mm) and 3/8" (10mm) thick tempered glass

Glass Fabrication Required:
Polished edges; Holes when handles or knobs are used



K3907 K3924 K3925 K3926 K3938

TYPICAL APPLICATIONS:

•Closets •Display Cases •Cabinets •Pass-thru

AVAILABLE PARTS FOR 5/16" OR 3/8" GLASS UP TO 176 LBS.(80KG) PER PANEL

CAT.NO.	DESCRIPTION
K3907	Aluminum Track 118" (3 meters) Long
K3924	2 Rollers and 2 Stops
K3925	2 Regulator Bolts
K3926	2 Clamps and 1 Guide
K3938	Bottom Guide

All Catalog numbers should be ordered individually to customize your system.

For more information contact
CRL Technical Sales
at (800) 421-6144, Ext. 777, or e-mail
techsales@crlaurence.com

CRL Sidelite Rails with Top Load Roll-In Gasket

- **Four Styles in Five Stock Finishes:**
  Brushed Stainless, Polished Brass, Clear Anodized, Polished Stainless, Duranodic Bronze, Plus Custom Finishes
- **Extruded Saddle is Reversible to Match 1/4" or 3/4" Door Clearances**
- **Sidelite Rails Match Door Rails for Even Siteline**
- **Top Load Roll-In Gasketing for 3/8" (10mm) or 1/2" (12mm) Glass**
- **Custom 10" Square Sidelite Rails Available**

The profiles of our Sidelite Rails match perfectly with our Door Rails. Available in five finishes in 120" lengths, and two finishes in extra long 240" lengths, they match heights of both floor mounted and 1/2" threshold doors using our Reversible Saddle. Use the Sidelite Rails alone for your upper rails, and with our Aluminum Neoprene Setting Blocks, lifting the glass into the upper rail and lowering it into the bottom rail. This will give you a 9/16" retention in both the top and bottom channels. Complete the job by installing the Roll-In E.P.D.M. Glazing Gasket and matching finish End Caps.

Roll-In Gasket and UCSB4 Setting Block

Saddle Illustrated for 1/4" Clearance

Saddle Illustrated for 3/4" Clearance

For additional information, Contact Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**

4" SIDELITE RAILS — 120" LENGTH

4" TAPERED CAT. NO.	4" SQUARE CAT. NO.	FINISH
SR4TSA3812SL	SR4SSA3812SL	Clear Anodized
SR4TDU3812SL	SR4SDU3812SL	Duranodic Bronze
SR4TPS3812SL	SR4SPS3812SL	Polished Stainless
SR4TBS3812SL	SR4SBS3812SL	Brushed Stainless
SR4TPB3812SL	SR4SPB3812SL	Polished Brass

4" SIDELITE RAILS — 240" LENGTH

4" TAPERED CAT. NO.	4" SQUARE CAT. NO.	FINISH
SR4TSA3812240	SR4SSA3812240	Clear Anodized
SR4TDU3812240	SR4SDU3812240	Duranodic Bronze

4" SIDELITE RAILS — CUSTOM LENGTH**

4" TAPERED CAT. NO.	4" SQUARE CAT. NO.	FINISH
SR4TSA3812CL	SR4SSA3812CL	Clear Anodized
SR4TDU3812CL	SR4SDU3812CL	Duranodic Bronze
SR4TPS3812CL	SR4SPS3812CL	Polished Stainless
SR4TBS3812CL	SR4SBS3812CL	Brushed Stainless
SR4TPB3812CL	SR4SPB3812CL	Polished Brass

** Sidelite Rail length (including End Caps) must be specified when ordering. - Maximum length 120"; 240" for SA and DU.
# Available only for Will Call at the nearest CRL Warehouse - Cannot ship common carrier.

6" SIDELITE RAILS — 120" LENGTH

6" SQUARE CAT. NO.	FINISH
SR6SSA3812SL	Clear Anodized
SR6SDU3812SL	Duranodic Bronze
SR6SPS3812SL	Polished Stainless
SR6SBS3812SL	Brushed Stainless
SR6SPB3812SL	Polished Brass

6" SIDELITE RAILS — 240" LENGTH#

6" SQUARE CAT. NO.	FINISH
SR6SSA3812240	Clear Anodized
SR6SDU3812240	Duranodic Bronze

6" SIDELITE RAILS / 10" SIDELITE RAILS — CUSTOM LENGTH**

6" SQUARE CAT. NO.	10" SQUARE CAT. NO.	FINISH
SR6SSA3812CL	SR10SSA12CL	Clear Anodized
SR6SDU3812CL	SR10SDU12CL	Duranodic Bronze
SR6SPS3812CL	SR10SPS12CL	Polished Stainless
SR6SBS3812CL	SR10SBS12CL	Brushed Stainless
SR6SPB3812CL	SR10SPB12CL	Polished Brass

All Sidelite Rails can be combined for quantity pricing.

END CAPS FOR 4" SIDELITE RAILS

4" TAPERED CAT. NO.	4" SQUARE CAT. NO.	FINISH
SREC4TSA	SREC4SSA	Clear Anodized
SREC4TDU	SREC4SDU	Duranodic Bronze
SREC4TPS	SREC4SPS	Polished Stainless
SREC4TBS	SREC4SBS	Brushed Stainless
SREC4TPB	SREC4SPB	Polished Brass

Tapered Square

All End Caps can be combined for quantity pricing.

END CAPS FOR 6" AND 10" SIDELITE RAILS

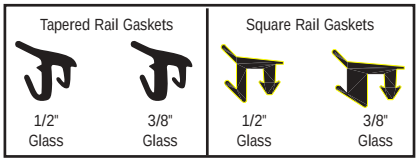
6" SQUARE CAT. NO.	10" SQUARE CAT. NO.	FINISH
SREC6SSA	DREC10SSA	Clear Anodized
SREC6SDU	DREC10SDU	Duranodic Bronze
SREC6SPS	DREC10SPS	Polished Stainless
SREC6SBS	DREC10SBS	Brushed Stainless
SREC6SPB	DREC10SPB	Polished Brass

Square

All End Caps can be combined for quantity pricing.

E.P.D.M. ROLL-IN GLAZING GASKET FOR SIDELITE RAILS

TAPERED CAT. NO.	SQUARE CAT. NO.	GLASS SIZE	FEET/ROLL
GGT38100	GG38100	3/8" (10mm)	100
GGT38500	GG38500	3/8" (10mm)	500
GGT12100	GG12100	1/2" (12mm)	100
GGT12500	GG12500	1/2" (12mm)	500



Glazing Gasket, End Caps and Setting Blocks sold separately.

CRL Sidelite Rails for 3/4" (19mm) Glass

- **Two Styles in Five Stock Finishes:**
  Brushed Stainless, Polished Brass, Clear Anodized, Polished Stainless, Duranodic Bronze, Plus Custom Finishes
- **Extruded Saddle is Reversible to Match 1/4" or 3/4" Door Clearances**
- **Sidelite Rails Match Door Rails for Even Siteline**
- **Custom 10" Square Sidelite Rails Available**

The profiles of our Sidelite Rails match perfectly with our Door Rails. 4 inch square profile Sidelite Rails are available in five finishes in 120" lengths, and two finishes in extra long 240" lengths. 10 inch square profile Sidelite Rails have a maximum length of 60" in five finishes. They match heights of both floor mounted and 1/2" threshold doors using our Reversible Saddle. Use the Sidelite Rails alone for your upper rails, and with our Aluminum Neoprene Setting Blocks, lifting the glass into the upper rail and lowering it into the bottom rail. This will give you a 9/16" retention in both the top and bottom channels. Complete the job by installing the matching finish End Caps.

NEW

10" Square (Custom Only) 4" Square

For additional information, contact Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**

4" SIDELITE RAILS — 120" LENGTH

4" SQUARE CAT. NO.	FINISH
SR4SSA34SL	Clear Anodized
SR4SDU34SL	Duranodic Bronze
SR4SPS34SL	Polished Stainless
SR4SBS34SL	Brushed Stainless
SR4SPB34SL	Polished Brass

4" SIDELITE RAILS — 240" LENGTH#

4" SQUARE CAT. NO.	FINISH
SR4SSA34240	Clear Anodized
SR4SDU34240	Duranodic Bronze

10" SIDELITE RAILS — CUSTOM LENGTH**

10" SQUARE CAT. NO.	FINISH
SR10SSA34CL	Clear Anodized
SR10SDU34CL	Duranodic Bronze
SR10SPS34CL	Polished Stainless
SR10SBS34CL	Brushed Stainless
SR10SPB34CL	Polished Brass

** Sidelite Rail length (including End Caps) must be specified when ordering. - Maximum length 60".
All Sidelite Rails can be combined for quantity pricing.

4" SIDELITE RAILS — CUSTOM LENGTH**

4" SQUARE CAT. NO.	FINISH
SR4SSA34CL	Clear Anodized
SR4SDU34CL	Duranodic Bronze
SR4SPS34CL	Polished Stainless
SR4SBS34CL	Brushed Stainless
SR4SPB34CL	Polished Brass

** Sidelite Rail length (including End Caps) must be specified when ordering. - Maximum length 120", 240" for SA and DU.
# Available only for Will Call at the nearest CRL Warehouse - Cannot ship common carrier.

END CAPS FOR 10" SQUARE SIDELITE RAILS

CAT. NO.	FINISH
DREC10SSA34	Clear Anodized
DREC10SDU34	Duranodic Bronze
DREC10SPS34	Polished Stainless
DREC10SBS34	Brushed Stainless
DREC10SPB34	Polished Brass

All End Caps can be combined for quantity pricing.

END CAPS FOR 4" SQUARE SIDELITE RAILS

CAT. NO.	FINISH
SREC4SSA34	Clear Anodized
SREC4SDU34	Duranodic Bronze
SREC4SPS34	Polished Stainless
SREC4SBS34	Brushed Stainless
SREC4SPB34	Polished Brass

All End Caps can be combined for quantity pricing.

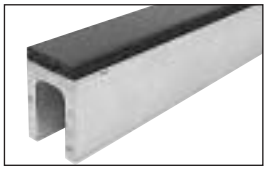
E.P.D.M. ROLL-IN GLAZING GASKET FOR 4" SIDELITE RAILS

CAT. NO.	GLASS SIZE	FEET/ROLL
GG12100	3/4" (19mm)	100
GG12500	3/4" (19mm)	500

Square Rail Gasket 3/4" Glass

4" ALUMINUM AND NEOPRENE SETTING BLOCK CAT. NO. UCSB4

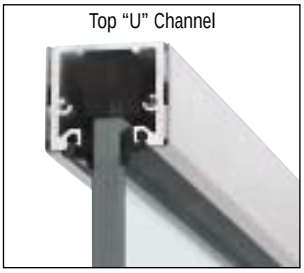
Length: 4"
Width: 5/8"
Height: 7/8"

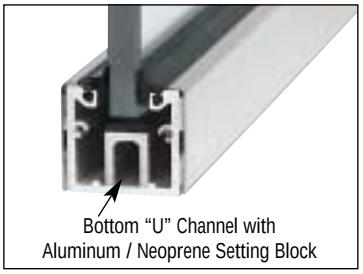


CRL "U" Channel with Top Load Roll-In Gasket

Regular "U" Channel

• Accepts 3/8" (10mm) or 1/2" (12mm) Glass





• Top Loading Roll-In Gasket for 3/8" (10mm) or 1/2" (12mm) Glass

"U" Channel with Roll-In Top Load Gasket was designed to be used with 3/8" (10mm) or 1/2" (12mm) glass in conjunction with our Patch Hardware, or our Header for Overhead Door Closers with Fixed Sidelites and Door Rail System. The design allows it to be surface or recess mounted, with the Roll-In Top Load Gasket securing the glass. This multi-functional extrusion comes in five different finishes, and has a family of accessories that facilitate different installations. The 4" long Aluminum Setting Blocks with Neoprene on the top provide a rigid glass support in the Bottom Channel. They are the proper height to provide 9/16" glass coverage in both the Top and Bottom Channels when glazed with the "lift and drop" method. Roll-in Top Load Gasketing for 3/8" or 1/2" (10mm to 12mm) glass is sold separately in 100 or 500 foot rolls. End Caps in all five finishes are also available.
NOTE: "U" Channel in 240" lengths are only available for Will Call at any of our warehouses with a 7 to 10 day advance order.

REGULAR "U" CHANNEL

CAT. NO.	SQUARE SIZE	LENGTH	FINISH
UCSA3812SL	1-5/8" x 1-5/8"	120"	Clear Anodized
UCDU3812SL	1-5/8" x 1-5/8"	120"	Duranodic Bronze
UCPS3812SL	1-3/4" x 1-11/16"	120"	Polished Stainless
UCBS3812SL	1-3/4" x 1-11/16"	120"	Brushed Stainless
UCPB3812SL	1-3/4" x 1-11/16"	120"	Polished Brass
UCSA3812240	1-5/8" x 1-5/8"	240" #	Clear Anodized
UCDU3812240	1-5/8" x 1-5/8"	240" #	Duranodic Bronze

Available only for Will Call at the nearest CRL warehouse - Cannot ship common carrier.
All "U" Channel can be combined for quantity pricing.

Shallow "U" Channel

• Accepts 3/8" (10mm) or 1/2" (12mm) Glass

Shallow "U" Channel can be used for securing fixed glass panels above a transom. Also used on walls or in floors, where drywall or floor covering can be installed flush with the "U" Channel for an "almost invisible" look. Five stock finishes to match our Regular "U" Channel, Sidelite and Door Rails.

• Both are Available in Five Stock Finishes:

- Brushed Stainless
- Polished Stainless
- Polished Brass
- Duranodic Bronze
- Clear Anodized
- Plus Custom Finishes

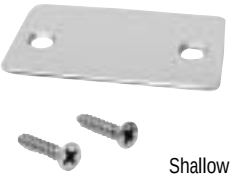
SHALLOW "U" CHANNEL

We recommend Cat. No. SB579 Setting Blocks where they are needed to cushion glass.

CAT. NO.	SQUARE SIZE	LENGTH	FINISH
SCSA3812SL	1-5/8" x 11/16"	120"	Clear Anodized
SCDU3812SL	1-5/8" x 11/16"	120"	Duranodic Bronze
SCPS3812SL	1-3/4" x 13/16"	120"	Polished Stainless
SCBS3812SL	1-3/4" x 13/16"	120"	Brushed Stainless
SCPB3812SL	1-3/4" x 13/16"	120"	Polished Brass
SCSA3812240	1-5/8" x 11/16"	240" #	Clear Anodized
SCDU3812240	1-5/8" x 11/16"	240" #	Duranodic Bronze

Available only for will call at the nearest CRL warehouse - Cannot ship common carrier.
All "U" Channel can be combined for quantity pricing.

Regular End Cap


Shallow End Cap

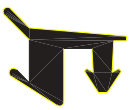
END CAPS FOR "U" CHANNEL

REGULAR "U" CHANNEL CAT. NO.	SHALLOW "U" CHANNEL CAT. NO.	FINISH
UCECSA	SCECSA	Clear Anodized
UCECDU	SCECDU	Duranodic Bronze
UCECPS	SCECPS	Polished Stainless
UCECBS	SCECBS	Brushed Stainless
UCECPB	SCECPB	Polished Brass

All End Caps can be combined for quantity pricing.

E.P.D.M. Roll-In Glazing Gasket

CRL E.P.D.M. Roll-In Glazing Gasket can be used in CRL "U" Channel and Sidelite Rails to secure 3/8" or 1/2" (10mm or 12mm) glass.


3/8" Glass

1/2" Glass

E.P.D.M. ROLL-IN GLAZING GASKET

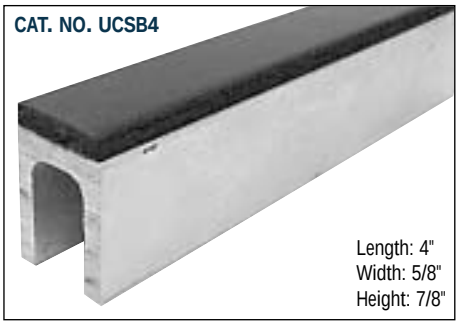
CAT. NO.	GLASS SIZE	FEET/ROLL
GG38100	3/8" (10mm)	100
GG38500	3/8" (10mm)	500
GG12100	1/2" (12mm)	100
GG12500	1/2" (12mm)	500

Glazing Gasket, End Caps and Setting Blocks sold separately.

4" Aluminum and Neoprene Setting Block

For use with "U" Channel, Square and Tapered Sidelite Rails and Headers.

CAT. NO. UCSB4



CRL Combination Wide "U" Channel and Narrow Header

NEW

- Matches the Width of Door and Sidelite Rails
- Accepts Roll-In Gasket, Top Pivot Block and Flush Snap-In Insert
- Available in Stock Lengths, Fabricated Headers, or Headers with Side Pockets for "Lift and Drop" Panel Glazing
- Special Sidelite Rail Adapter Allows for a Continuous Sight Line Using the Sidelite Rail in Conjunction with the Narrow Header

Matching End Caps Also Available

This aluminum extrusion was developed with three uses in mind: As a "U" Channel that would be the same width as our Sidelite and Door Rails; as a Narrow Header that is the same width as our Door and Sidelite Rails, and will accept a top free-swinging pivot to secure the top of the doors; as an Even Sight Line System, accomplished by first securing the fabricated Narrow Header to the top of the opening, then securing the Sidelite Rail to the Narrow Header with the 1/4" header saddle. All drilling, tapping and fabrication is done during the manufacturing process to save time and prevent the need for field fabrication. For additional information, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

WIDE "U" CHANNEL FOR 3/8" (10MM) OR 1/2" (12MM) GLASS

120" STOCK LENGTH CAT. NO.	240" STOCK LENGTH CAT. NO.	FINISH	END CAP CAT. NO.
NH2SASL	NH2SA240#	Clear Anodized	NHECSA
NH2DUSL	NH2DU240#	Duranodic Bronze	NHECDU
NH2PBSL	———	Polished Brass	NHECPB
NH2PSSL	———	Polished Stainless	NHECPS
NH2BSSL	———	Brushed Stainless	NHECBS

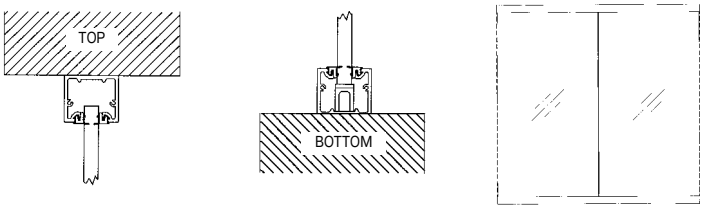
WIDE "U" CHANNEL FOR 3/4" (19MM) GLASS

120" STOCK LENGTH CAT. NO.	240" STOCK LENGTH CAT. NO.	FINISH	END CAP CAT. NO.
NH3SASL	NH3SA240#	Clear Anodized	NH3ECSA
NH3DUSL	NH3DU240#	Duranodic Bronze	NH3ECDU
NH3PBSL	———	Polished Brass	NH3ECPB
NH3PSSL	———	Polished Stainless	NH3ECPS
NH3BSSL	———	Brushed Stainless	NH3ECBS

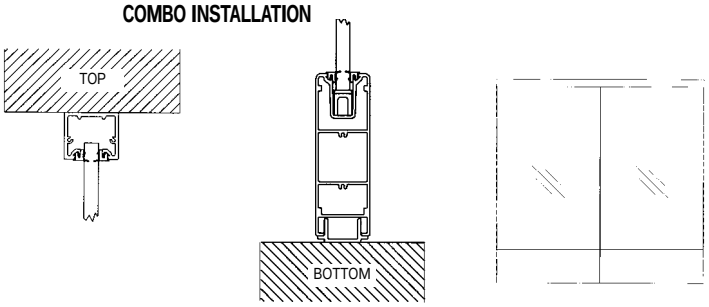
Available only for Will Call at the nearest CRL warehouse - Cannot ship common carrier. All "U" Channel can be combined for quantity pricing.

End Caps can be combined for quantity pricing, and must be ordered separately.

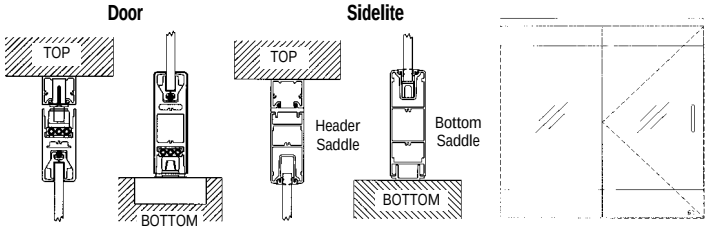
"U" CHANNEL



COMBO INSTALLATION



HEADER WITH EVEN SIGHT LINE



Door with top pivot and floor closer

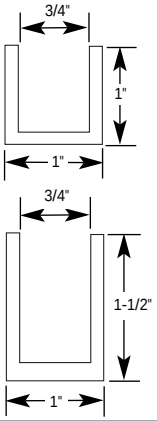
Sidelite with standard saddle at bottom and header saddle at top

CRL Wet Glaze "U" Channel

NEW

WU1 Clear Anodized WU3 Bronze Anodized

Wet Glaze "U" Channel is an economical way to surround 3/8" to 1/2" (10mm to 12mm) thick glass, and most commonly used in "lift and drop" installations where silicone is the preferred method of glazing.



- 120" and 240" Stock Lengths Available in Two Finishes
- Accepts 3/8" (10mm) or 1/2" (12mm) Glass

1" X 1" WET GLAZE "U"CHANNEL

120" STOCK LENGTH CAT. NO.	240" STOCK LENGTH CAT. NO.	FINISH
WU3SASL	WU3SA240#	Clear Anodized
WU3DUSL	WU3DU240#	Duranodic Bronze

1-1/2" X 1" WET GLAZE "U" CHANNEL

120" STOCK LENGTH CAT. NO.	240" STOCK LENGTH CAT. NO.	FINISH
WU1SASL	WU1SA240#	Clear Anodized
WU1DUSL	WU1DU240#	Duranodic Bronze

Available only for Will Call at the nearest CRL warehouse - Cannot ship common carrier. All "U" Channel can be combined for quantity pricing.

CRL Roll-In Glazing Gasket

CRL Roll-In Glazing Gasket can be used in CRL Wet Glaze U-Channel and CRL Hat Channel to secure 3/8" (10mm) and 1/2" (12mm) glass.

CAT. NO.	GLASS SIZE	FEET/ROLL
RG38100	3/8" (10mm)	100
RG38500	3/8" (10mm)	500
RG12100	1/2" (12mm)	100
RG12500	1/2" (12mm)	500

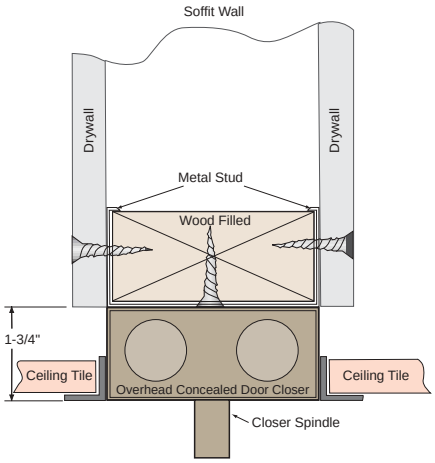
CRL Hat Channel and Hat Channel Door Closer Header for Drop Ceiling Systems

NEW

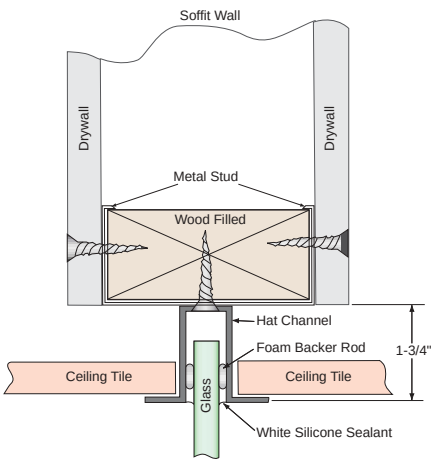
- Designed for New or Retrofit Construction in Buildings with Large, Open Space Floors
- Extruded Aluminum with White Finish Designed for an Almost Invisible Look in Drop Ceilings

For additional information, contact
CRL Technical Sales at
(800) 421-6144, Ext. 777, or e-mail
techsales@crlaurence.com

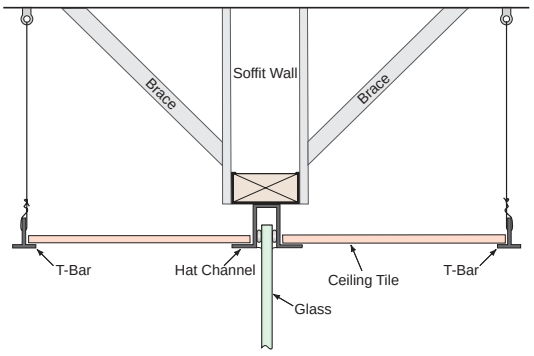
HAT CHANNEL DOOR CLOSER HEADER



HAT CHANNEL



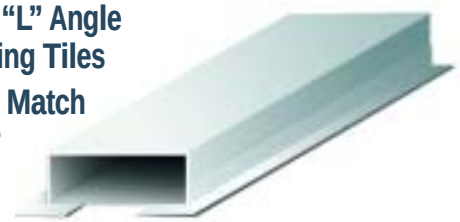
T-BAR OR DROP CEILING INSTALLATIONS



END VIEW

Hat Channel Door Closer Header for Single and Double Doors

- Surrounded by "L" Angle to Support Ceiling Tiles
- White Finish to Match Ceiling "T" Bar



Hat Channel Door Closer Header is designed to be used for an almost invisible look when glass doors and fixed panels are installed in Drop Ceilings. The Header is connected to a soffit that has a bottom dimension 1-3/4" above the ceiling line.

WHITE 4" HAT CHANNEL DOOR CLOSER HEADER

CAT. NO.	LENGTH
HH4WHS	36" Single Door
HH4WHD	72" Double Door
HH4WHCS	Custom** Single Door
HH4WHCD	Custom** Double Door

** Length must be specified when ordering. Maximum length up to 96".

Hat Channel for Fixed Glazing

- White Finish to Match Ceiling "T" Bar
- Accepts 3/8" (10mm) or 1/2" (12mm) Glass
- Glass Secured with Silicone Sealant

Our Hat Channel secures to the bottom of the soffit. It provides a glazing pocket for 3/8" or 1/2" (10mm or 12mm) glass, and ceiling panel retaining lips that match the "T" Bar 1-3/4" below the soffit. Glass is secured with RTV408W White CRL Silicone Sealant.

WHITE HAT CHANNEL

CAT. NO.	LENGTH
HC1WHSL	120"
HC1WH240	240" #
HC1WHCL	Custom**

** Length must be specified when ordering. Maximum length up to 240".
# Available only for Will Call at the nearest CRL warehouse. Cannot ship common carrier.

CRL Stock Size Headers for Overhead Concealed Door Closers

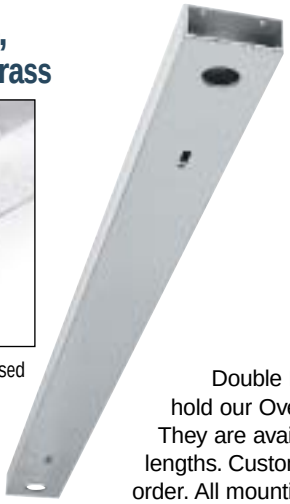
- **Available in Five Finishes: Clear Anodized, Duranodic Bronze, Polished Stainless Steel, Brushed Stainless Steel, Polished Brass**

36" Single Door Header

- **Includes Snap-In Cover Plates**
- **4" and 4-1/2" Widths**

Typical Installation Showing Exposed Spindle of Overhead Closer

Single Door Headers are fabricated to hold our Overhead Concealed Door Closers. They are available in 4" and 4-1/2" widths in 36" stock lengths. Custom lengths are available on special order. Headers are supplied with an aluminum mounting clip for mounting the Header on the opposite side of the door closer. The door closer contains the mounting clip for that side of the Header. Snap-in cover plates allow for easy installation of the closer. Available in five finishes. Note: Nominal size of the Header changes for clad and un-clad finishes (see chart below for size).



72" Double Door Header

- **Includes Snap-In Cover Plates**
- **4" and 4-1/2" Widths**

Double Door Headers are fabricated to hold our Overhead Concealed Door Closers. They are available in 4" and 4-1/2" widths in 72" lengths. Custom lengths are available on special order. All mounting clips necessary for installation are supplied with the Overhead Concealed Door Closers. Snap-in cover plates allow for easy installation of the door closer. Available in five finishes. Note: Nominal size of the Header changes for clad and un-clad finishes (see chart below for size).

36" SINGLE DOOR HEADERS

4" CAT. NO.	RECTANGULAR SIZE	4-1/2" CAT. NO.	RECTANGULAR SIZE	FINISH
DCH4SAS	4" x 1-3/4"	DCHSAS	4-1/2" x 1-3/4"	Clear Anodized
DCH4DUS	4" x 1-3/4"	DCHDUS	4-1/2" x 1-3/4"	Duranodic Bronze
DCH4PSS	4-3/16" x 1-7/8"	DCHPSS	4-11/16" x 1-7/8"	Polished Stainless
DCH4BSS	4-3/16" x 1-7/8"	DCHBSS	4-11/16" x 1-7/8"	Brushed Stainless
DCH4PBS	4-3/16" x 1-7/8"	DCHPBS	4-11/16" x 1-7/8"	Polished Brass

72" DOUBLE DOOR HEADERS

4" CAT. NO.	RECTANGULAR SIZE	4-1/2" CAT. NO.	RECTANGULAR SIZE
DCH4SAD	4" x 1-3/4"	DCHSAD	4-1/2" x 1-3/4"
DCH4DUD	4" x 1-3/4"	DCHDUD	4-1/2" x 1-3/4"
DCH4PSD	4-3/16" x 1-7/8"	DCHPSD	4-11/16" x 1-7/8"
DCH4BSD	4-3/16" x 1-7/8"	DCHBSD	4-11/16" x 1-7/8"
DCH4PBD	4-3/16" x 1-7/8"	DCHPBD	4-11/16" x 1-7/8"

CUSTOM LENGTH** SINGLE DOOR HEADERS

4" CAT. NO.	RECTANGULAR SIZE	4-1/2" CAT. NO.	RECTANGULAR SIZE	FINISH
DCH4SACS	4" x 1-3/4"	DCHSACS	4-1/2" x 1-3/4"	Clear Anodized
DCH4DUCS	4" x 1-3/4"	DCHDUCS	4-1/2" x 1-3/4"	Duranodic Bronze
DCH4PSCS	4-3/16" x 1-7/8"	DCHPSCS	4-11/16" x 1-7/8"	Polished Stainless
DCH4BSCS	4-3/16" x 1-7/8"	DCHBSCS	4-11/16" x 1-7/8"	Brushed Stainless
DCH4PBCS	4-3/16" x 1-7/8"	DCHPBCS	4-11/16" x 1-7/8"	Polished Brass

** Header length must be specified when ordering.
Headers do not include Door Closers. Finishes and sizes can be combined for quantity pricing.

CUSTOM LENGTH** DOUBLE DOOR HEADERS

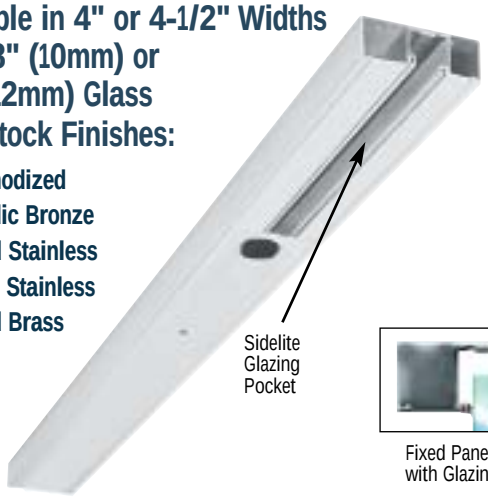
4" CAT. NO.	RECTANGULAR SIZE	4-1/2" CAT. NO.	RECTANGULAR SIZE
DCH4SACD	4" x 1-3/4"	DCHSACD	4-1/2" x 1-3/4"
DCH4DUCD	4" x 1-3/4"	DCHDUCD	4-1/2" x 1-3/4"
DCH4PSCD	4-3/16" x 1-7/8"	DCHPSCD	4-11/16" x 1-7/8"
DCH4BSCD	4-3/16" x 1-7/8"	DCHBSCD	4-11/16" x 1-7/8"
DCH4PBCD	4-3/16" x 1-7/8"	DCHPBCD	4-11/16" x 1-7/8"

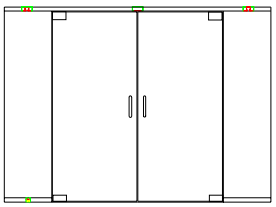
** Header length must be specified when ordering.
Headers do not include Door Closers. Finishes and sizes can be combined for quantity pricing.

Custom Length Single and Double Door Headers with Glazing Pocket

Many times installations dictate the need for a door, or pair of doors, with sidelites on either side. In the past if you used a Header on top for your Overhead Door Closers, you had to adapt a different extrusion next to your Header to secure the top of the sidelites. CRL has developed a snap-in insert with a glazing pocket that snaps in on either side of the doors.
This allows you to use one continuous Header with the center fabricated for the doors, and the sides fabricated for fixed sidelites. Glass is secured in the extrusion with the provided Top Load Roll-in Gasket. To secure the bottom of the fixed sidelites, use our UC38 Series "U" Channel available in five finishes: Clear Anodized, Duranodic Bronze, Polished Stainless Steel, Brushed Stainless Steel, Polished Brass. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

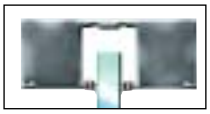
- **Available in 4" or 4-1/2" Widths for 3/8" (10mm) or 1/2" (12mm) Glass**
- **Five Stock Finishes:**
  - **Clear Anodized**
  - **Duranodic Bronze**
  - **Polished Stainless**
  - **Brushed Stainless**
  - **Polished Brass**





Typical Double Glass Doors with Sidelites

End Views



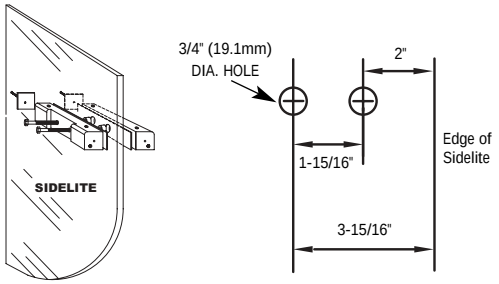
Fixed Panel Section with Glazing Gasket

Header Section

CRL Floating Header for Overhead Concealed Door Closers

- **Available for 1/2" (12mm) Glass-to-Glass or Glass-to-Wall Installations With or Without Overhead Concealed Door Closers**
- **Stock 36" Single and 72" Double Headers, with Custom Sizes Available**
- **Five Finishes Available: Clear Anodized, Duranodic Bronze, Polished Stainless Steel, Brushed Stainless Steel, Polished Brass**

The 4" x 1-3/4" Floating Header for Overhead Concealed Door Closers was designed to allow the installation of single or double doors off of glass sidelites, with a transom above. Stock Floating Headers are fabricated for use in 1/2" glass-to-glass installations, and are prepared to accept our Overhead Concealed Door Closers and a 1/2" (12mm) thick Glass Transom. Custom Floating Headers cover the rest of the offered configurations. Custom lengths, glass-to-wall configurations, prepped for surface mounted top pivot, walking beam pivot or Overhead Concealed Door Closers are all available. For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**



STOCK FLOATING HEADER

For Glass-to-Glass Installations, prepped for Overhead Concealed Door Closers

SINGLE 36" CAT. NO.	DOUBLE 72" CAT. NO.	FINISH
FH4SAS	FH4SAD	Clear Anodized
FH4DUS	FH4DUD	Duranodic Bronze
FH4PSS	FH4PSD	Polished Stainless
FH4BSS	FH4BSD	Brushed Stainless
FH4PBS	FH4PBD	Polished Brass

CUSTOM FLOATING HEADER**

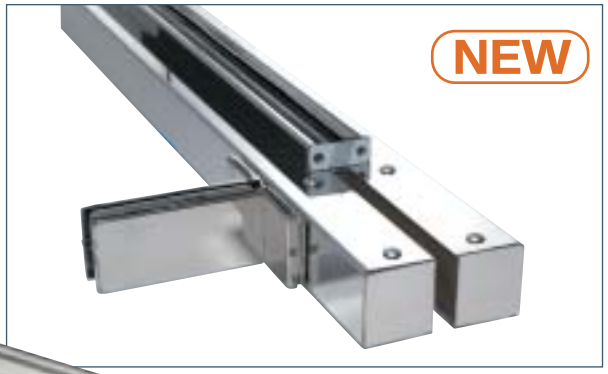
For all other possible configurations, contact CRL Technical Sales at (800) 421-6144, Ext. 777

SINGLE CAT. NO.	DOUBLE CAT. NO.	FINISH
FH4SACS	FH4SACD	Clear Anodized
FH4DUCS	FH4DUCD	Duranodic Bronze
FH4PSCS	FH4PSCD	Polished Stainless
FH4BSCS	FH4BSCD	Brushed Stainless
FH4PBCS	FH4PBCD	Polished Brass

** Length, installation type and top supporting hardware must be specified when ordering.

CRL Floating Header with Fin Brackets

- **Adds Rigidity and Helps Stabilize Your Opening**
- **Only Available on Special Order in Five Finishes: Clear Anodized, Duranodic Bronze, Polished Brass, Brushed Stainless Steel, Polished Stainless Steel**
- **Available for Glass-to-Glass or Glass-to-Wall Installations With or Without Overhead Concealed Door Closers**



- **Each Header is Customized to Your Needs**

Typical Store Entrance with Support Fins
(Viewed from the Inside)

Works With:

See Page F58

PH94 Ceiling Mounted Support Fin Bracket

For additional information, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**

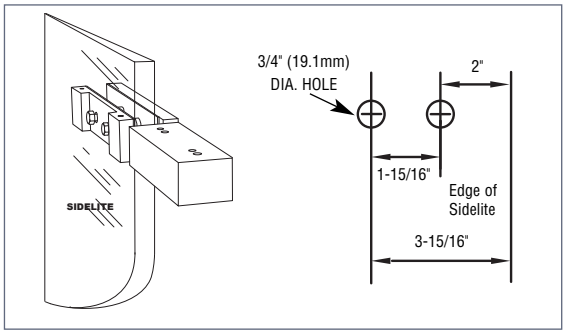
"All glass" entrances are increasing in popularity and size. We have developed a means of adding rigidity to these openings using our Floating Header. Fin Supports will reduce the amount of deflection caused by wind or stack load pressure, and impacts. Please contact CRL Technical Sales for more information.

CRL Narrow Floating Header with Surface Mounted Top Pivots

- **Supported by Glass Side Panels**
- **Creates an Even Sight Line When Used with CRL Door Rails**
- **Available in Five Stock Finishes: Clear Anodized, Duranodic Bronze, Polished Stainless Steel, Brushed Stainless Steel, Polished Brass**

NEW

The 1-7/8" x 1-5/8" Narrow Floating Header with Surface Mounted Top Pivots works with CRL PH20 Series and PH21 Series Top Door Patch Hardware Fittings, and with all CRL 3/8" or 1/2" Heavy Glass Door Rails. When used with CRL Door Rails you get an even sight line, as the width of the Narrow Header matches the width of the Door Rail. For use with Free Swinging Bottom Pivots or Floor Closers in the floor, Stock Narrow Floating Headers with Surface Mounted Top Pivots are fabricated for use in 1/2" (12mm) glass-to-glass configurations. Custom lengths and glass-to-wall configurations are also available. For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**



STOCK NARROW FLOATING HEADER

For Glass-to-Glass Installations, with Surface Mounted Top Pivots

SINGLE 36" CAT. NO.	DOUBLE 72" CAT. NO.	FINISH
NFH4SAS	NFH4SAD	Clear Anodized
NFH4DUS	NFH4DUD	Duranodic Bronze
NFH4PSS	NFH4PSD	Polished Stainless
NFH4BSS	NFH4BSD	Brushed Stainless
NFH4PBS	NFH4PBD	Polished Brass

CUSTOM NARROW FLOATING HEADER**

For all other possible configurations, contact CRL Technical Sales at (800) 421-6144, Ext. 777

SINGLE CAT. NO.	DOUBLE CAT. NO.	FINISH
NFH4SACS	NFH4SACD	Clear Anodized
NFH4DUCS	NFH4DUCD	Duranodic Bronze
NFH4PSCS	NFH4PSCD	Polished Stainless
NFH4BSCS	NFH4BSCD	Brushed Stainless
NFH4PBCS	NFH4PBCD	Polished Brass

** Length and installation type must be specified when ordering.

CRL Narrow Floating Header with Support Fin Brackets

- **Support Fin Brackets Provide Extra Stability in Tall Openings**
- **Only Available on Special Order in Five Finishes: Clear Anodized, Duranodic Bronze, Polished Brass, Polished Stainless Steel, Brushed Stainless Steel**

NEW

Typical Store Entrance with Support Fins
(Viewed from the Inside)

Works With:

See Page F58

PH94 Ceiling Mounted Support Fin Bracket

For additional information, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**

Our Narrow Header with Support Fin Brackets is the perfect solution when you need to minimize the Header profile and maximize the strength of the opening. Fin Supports will reduce deflection caused by wind or stack load pressure, and impacts. Please contact CRL Technical Sales for more information.

CRL Electromagnetic Locks

Electromagnetic Locks

- Energy Efficient
- Very Low Maintenance (No Moving Parts)
- Models for Single and Double Doors

Electromagnetic Locks are very efficient because they have low power requirements, plus the absence of moving parts means there is less required maintenance. We can supply single or double magnet models with a range of holding force to suit a variety of installations. For selection assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

Shear Lock Electromagnetic Locks

- Compact Design
- Completely Concealed
- UL 10C, CUL, and CSFM Listed
- 5 Year Limited Warranty

Our Electromagnetic Mortise Shear Locks are designed for use with single and double metal doors and frames, or glass doors with top rails and metal frames. Their compact size allows for a totally concealed locking mechanism, providing superior security and appearance.

CAT. NO. GF3000
Holding Force: 3,000Lbs.
Input Voltage: 12/24V DC
(Automatic Selection)
Dimensions with
Mounting Tabs:
L = 11-9/16" (294 mm)
H = 1-1/2" (38 mm)
D = 1-1/2" (38 mm)

CAT. NO. 280PLUS
Holding Force: 2,700Lbs.
Input Voltage: 12/24V DC
(Automatic Selection)
Dimensions with
Mounting Tabs:
L = 8-9/16" (217 mm)
H = 1-1/4" (32 mm)
D = 1-1/2" (38 mm)

NEW

Weatherproof Electromagnetic Locks

- Sealed in a Stainless Steel Housing to Resist Severe Weather Conditions
- For Interior / Exterior Installation
- UL Listed
- Limited Warranty

These interior / exterior Surface Mounted Magnetic Locks are sealed in a Stainless Steel Housing, and are tamper and weatherproof, even under extreme conditions. With no moving parts, they are maintenance free, and will provide superior, long lasting performance.

CAT. NO. ML1200U
Holding Force: 1,200 Lbs.
Dual Voltage: 12 / 24 Volts
12 Volt Current Draw: 500mA
24 Volt Current Draw: 250mA
Standard Wiring
Unmonitored
L = 8" (203 mm)
H = 2-15/16" (75 mm)
D = 1-7/8" (48 mm)

Standard Electromagnetic Locks

- Aluminum Housing with Brushed Aluminum Finish
- Available as Single or Double Magnets
- UL Listed
- Limited Warranty

These Magnetic Locks are constructed with rugged aluminum housings for durability and good looks. Intended for interior use, they have no moving parts, are maintenance free, and will provide superior, long lasting performance.

CAT. NO. MLST1200U
SINGLE MAGNET
Holding Force: 1,200 Lbs.
Dual Voltage: 12 / 24 Volts
12 Volt Current Draw: 500mA
24 Volt Current Draw: 250mA
Standard Wiring
Unmonitored
L = 10-7/16" (265 mm)
H = 2-15/16" (75 mm)
D = 1-5/8" (41 mm)

CAT. NO. MLST1202U
DOUBLE MAGNETS
Holding Force: 1,200 Lbs.
Dual Voltage: 12 / 24 Volts
12 Volt Current Draw: 500mA
24 Volt Current Draw: 250mA
Standard Wiring
Unmonitored
L = 21" (534 mm)
H = 2-15/16" (75 mm)
D = 1-5/8" (41 mm)

CRL Electric Locks and Accessories

Solenoid Bolt

- Fail Safe Feature
- UL Listed
- 12 or 24V DC (Not Dual)

Solenoid Bolt for use on single action doors. **CAT.NO. MLEDB1**
This dual monitoring lock has a 0, 2.5 and 5 seconds locking timer.

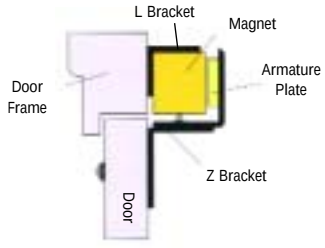
12 Volt Current Draw: 300mA (standby);
24 Volt Current Draw: 150mA (standby).

Face: 1-5/16" x 8-5/16" (33 mm x 211 mm)
Depth: 1-3/4" (44 mm)
Cover Plate: 1-1/2" x 8-3/4" (38 mm x 222 mm)

Mounting Brackets

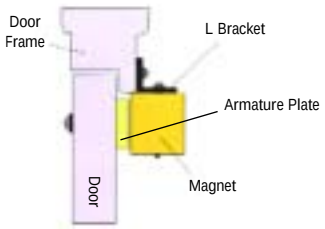
Adjustable "Z" & "L" Brackets allow mounting of single and double Magnetic Locks. "L" Bracket length is 10-1/2" (266 mm), "Z" Bracket is 7-1/4" (184 mm).

"Z & L" Bracket



Adjustable "Z & L" Bracket for inswing doors

"L" Bracket



Adjustable "L" Bracket for outswing doors

CAT.NO.	LENGTH	DESCRIPTION
MLBR26	7-1/4" & 10-1/2"	"Z" & "L" Adjustable Brackets for Inswing Doors
MLBR6	10-1/2"	"L" Adjustable Bracket for Outswing Doors

Surface Armature Housing

Replacement for worn or damaged Housings in existing openings. Can also be used in new installations to mount Armature on face of a top Door Rail. Measures 3" by 7-3/4" (76 mm x 197 mm).

CAT.NO MLBR16

Digital Keypad

Designed for access control and security applications. Supplied complete with junction box and brushed stainless steel faceplate.

CAT.NO. MLDK83

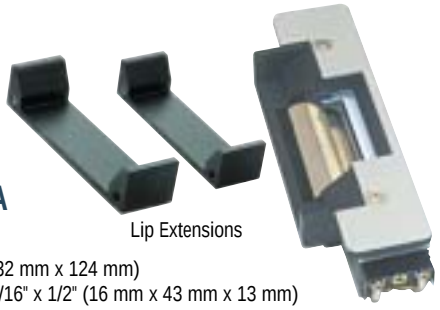
- 4 Programmable Code Levels: Master, User, Duress, Quick
- Programmable N.O. or N.C. Output
- Status LED's and Audible Confirmation Buzzer
- Non-Volatile eprom Memory Storage

Width: 3" (76 mm)
Height: 4-5/8" (118 mm)
Box Depth: 1-5/8" (41 mm)
Input: 12V DC

Deadlatch Electric Strike

This Electric Strike offers superior strength and smooth operation. The strike releases when current is applied. Optional Lip Extensions are available for mounting in 4" (102 mm) or 4-1/2" (114 mm) wide jambs. Transformer sold separately.

- Finished Face Plate Included
- Non-Handed
- UL Listed
- 12V DC-360mA



Lip Extensions

Faceplate: 1-1/4" x 4-7/8" (32 mm x 124 mm)
Strike Opening: 5/8" x 1-11/16" x 1/2" (16 mm x 43 mm x 13 mm)
Case: 1" x 3-7/8" x 1-1/2" (25 mm x 98 mm x 38 mm)

CAT.NO.	DESCRIPTION
ST125A	Strike with Aluminum Faceplate
ST125DU	Strike with Dark Bronze Faceplate
STLE4	Lip Extension 4" Jamb
STLE45	Lip Extension 4-1/2" Jamb

12V DC Transformer

This 12V DC Transformer is intended for use with either ST125A or ST125DU Deadlatch Electric Strikes. Uses 115V AC.

CAT.NO. ST125TR

Door Loop

Designed for carrying low voltage or monitoring cable between door and frame. Armored loop type in brushed stainless finish. Loop length is 15-3/4".

CAT. NO. MLDL101

Illuminated Exit Button

- Narrow Style Illuminated SPDT

Designed for use with Electric Strikes and Magnetic Locks. Supplied complete with junction box and brushed stainless steel plate.

Face: 1-3/8" x 4" (35 mm x 102 mm)
Depth: 1-1/4" (32 mm) Clearance Required

CAT. NO. MLEB4NS

CRL 4" x 10" Center Locks and Glass Keepers NEW

Center Lock with Deadlatch

LHR Shown

- Installs Easily with Bolts; No Messy Silicone or Cement Required
- Stock Models Available in Four Finishes
- Accepts 1/2" (12mm) Glass

4"x 10" Center Locks with Deadlatch come with a Deadlatch that can be dogged in the open position, an 8" Back-to-Back "D" Handle, a Thumbturn on the inside, and a Keyed Cylinder on the outside. The dogging feature is engaged by simply pushing both deadlatch bolts fully into the open position, then engaging the dogging clips by turning either the Keyed Cylinder or Thumbturn until the clips snap in place. Available in four attractive finishes for 1/2" (12 mm) heavy glass doors. Extra gaskets available on special order for doors using 3/8" (10 mm) glass. Custom designed locks with a variety of options are available on special order (see next page).
Glass Keeper shown at right.

LH/RHR* CAT. NO.	RH/LHR* CAT. NO.	FINISH
DL410LBS	DL410RBS	Brushed Stainless
DL410LPB	DL410RPB	Polished Brass
DL410LPS	DL410RPS	Polished Stainless
DL410LSC	DL410RSC	Satin Chrome

* See page F39 for handing chart.

Glass Cut-Out Required

Center Lock Glass Keeper

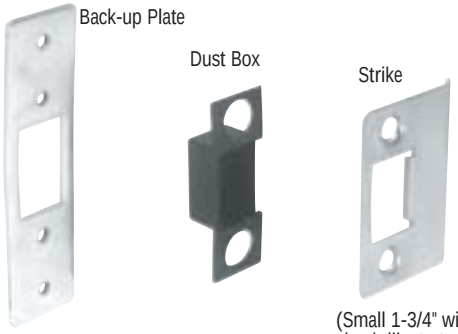
- Installs Easily with Bolts; No Messy Silicone or Cement Required
- Non-Handed Stock Models Available in Four Finishes
- Accepts 1/2" (12mm) Glass

4" x 10" Center Lock Glass Keepers have a Strike Plate with a latch entry ramp on both sides, making them universal for all applications. Available in four attractive finishes for 1/2" (12 mm) heavy glass doors. Extra gaskets available on special order for doors or fixed panels using 3/8" (10 mm) glass. Glass Keepers with Deadlatch Electric Strikes are available on special order (see next page).
Center Lock shown at left.

CAT. NO.	HANDING	FINISH
DLK410BS	Non-Handed	Brushed Stainless
DLK410PB	Non-Handed	Polished Brass
DLK410PS	Non-Handed	Polished Stainless
DLK410SC	Non-Handed	Satin Chrome

Glass Cut-Out Required

CRL Center Lock Strike



(Small 1-3/4" wide jamb illustrated)

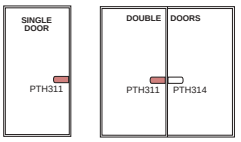
- Stainless Steel Construction
- Dust Box and Back-Up Plate Included
- Non-Handed

Center Lock Strikes come with all the necessary hardware for mounting. A back-up plate is included for use in aluminum tubes, along with a dust box to finish off the installation. One per package.

SMALL 1-3/4" WIDE JAMB CAT. NO.	MEDIUM 4" WIDE JAMB CAT. NO.	LARGE 4-1/2" WIDE JAMB CAT. NO.	FINISH
DL4515	DL4540	DL4545	Brushed Stainless

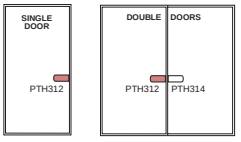
Other Glass Mounted Latches and Keepers Available from CRL

Glass Mounted Latch with Lock and Thumbturn for Single or Double Doors



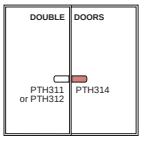
Cat. No. PTH311

Glass Mounted Passage Latch for Single or Double Doors



Cat. No. PTH312

Glass Mounted Latch Keeper for Either Latch Above



Cat. No. PTH314

See page F71 for details

CRL 4" x 10" Center Locks and Glass Keepers

Custom Center Lock with Deadlatch

- Installs Easily with Bolts; No Messy Silicone or Cement Required
- Ready to Ship Within One Week
- Available in Four Finishes
- Accepts 1/2" (12mm) Glass

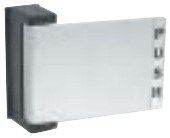
NEW

4" X 10" Custom Center Lock with Deadlatch are available with many options. You have a choice of Actuating Mechanisms, Keyed Cylinder or Thumbturn, Handle and Crossbar (see below for selection). These locks have a dogging feature that is engaged by simply pushing both deadlatch bolts fully into the open position, then engaging the dogging clips by turning either the Keyed Cylinder or Thumbturn until the clips snap in place. Available in four attractive finishes for 1/2" (12 mm) heavy glass doors. Strike Plates or Glass Keepers must be ordered separately (see previous page). Glass Keepers with Electric Strikes are shown below. To simplify ordering we have an Easy-to-Use Ordering Menu available (see below for ordering information).

LH Shown

LH Shown

LH Shown


Paddle Handle

Lever Latch

Keyed Cylinder

Thumbturn

8" D-Handle

28" Crossbar

LH* CAT. NO.	RH* CAT. NO.	LHR* CAT. NO.	RHR* CAT. NO.	FINISH
DLL410BSC	DLR410BSC	DLL411BSC	DLR411BSC	Brushed Stainless
DLL410PBC	DLR410PBC	DLL411PBC	DLR411PBC	Polished Brass
DLL410PSC	DLR410PSC	DLL411PSC	DLR411PSC	Polished Stainless
DLL410SCC	DLR410SCC	DLL411SCC	DLR411SCC	Satin Chrome

* See page F39 for handing chart. Extra gaskets available on special order for use with 3/8" (10mm) glass.

Glass Cut-Out Required

Custom Center Lock Glass Keeper with Deadlatch Electric Strike

- Accepts 1/2" (12mm) Glass

4" x 10" Custom Center Lock Glass Keeper with Deadlatch Electric Strike is handed to match the appropriate Center Lock. To simplify ordering use the same handing as the lock. That way you match the Glass Keeper with Deadlatch Electric Strike to Center Lock handing, which eliminates confusion. These units are special order and can be shipped within one week. Please contact Technical Sales at (800) 421-6144, Ext. 777 for details, or e-mail **techsales@crlaurence.com**.

(RH/LHR Illustrated)

LH/RHR* CAT. NO.	RH/LHR* CAT. NO.	FINISH
DLEL410BS	DLER410BS	Brushed Stainless
DLEL410PB	DLER410PB	Polished Brass
DLEL410PS	DLER410PS	Polished Stainless
DLEL410SC	DLER410SC	Satin Chrome

* See page F39 for handing chart. Extra gaskets available on special order for use with 3/8" (10mm) glass.

Glass Cut-Out Required

Easy-to-Use Ordering Menu

This Easy-to-Use Menu for quoting and ordering 4" x 10" Custom Center Locks is available upon request by fax, or from the CRL website at **www.crlaurence.com**. Please contact CRL Technical Sales at (800) 421-6144, Ext. 777 for details, or e-mail **techsales@crlaurence.com**.

CRL 4" x 10" Center Locks and Glass Keepers NEW

Center Lock with Long Throw Deadlock

- Installs Easily with Bolts; No Messy Silicone or Cement Required
- Non-Handed Stock Models Available in Four Finishes
- Accepts 1/2" (12mm) Glass

4" x 10" Center Locks with Long Throw Deadlock include a DL2110 Long Throw Deadlock, an 8" Back-to-Back "D" Handle, a Thumbturn on the inside, and a Keyed Cylinder outside. Available in four attractive finishes for 1/2" (12 mm) heavy glass doors. Extra gaskets available on special order for doors using 3/8" (10 mm) glass. Custom designed locks with a variety of options are available on special order. (Request an Easy-to-Use Ordering Menu shown at the bottom of this page).

CAT. NO.	HANDING	FINISH
DT410BS	Non-Handed	Brushed Stainless
DT410PB	Non-Handed	Polished Brass
DT410PS	Non-Handed	Polished Stainless
DT410SC	Non-Handed	Satin Chrome

Glass Cut-Out Required

Center Lock with Hook Throw Deadlock

- Installs Easily with Bolts; No Messy Silicone or Cement Required
- Non-Handed Stock Models Available in Four Finishes
- Accepts 1/2" (12mm) Glass

4" x 10" Center Locks with Hook Throw Deadlock include a DL2130 Hook Throw Deadlock, an 8" Back-to-Back "D" Handle, a Thumbturn on the inside, and a Keyed Cylinder on the outside. Available in four attractive finishes for 1/2" (12 mm) heavy glass doors. Extra gaskets available on special order for doors using 3/8" (10 mm) glass. Custom designed locks with a variety of options are available on special order. (Request an Easy-to-Use Ordering Menu shown at the bottom of this page).

CAT. NO.	HANDING	FINISH
DH410BS	Non-Handed	Brushed Stainless
DH410PB	Non-Handed	Polished Brass
DH410PS	Non-Handed	Polished Stainless
DH410SC	Non-Handed	Satin Chrome

Glass Cut-Out Required

4" x 10" Glass Keeper for Center Locks with Deadlock

- Installs Easily with Bolts; No Messy Silicone or Cement Required
- Non-Handed Stock Models Available in Four Finishes
- Accepts 1/2" (12mm) Glass

Non-Handed 4" x 10" Glass Keepers for the 4" x 10" Center Lock with Deadlock are available in four attractive finishes for 1/2" (12 mm) heavy glass doors. Extra gaskets are available on special order for doors using 3/8" (10 mm) glass. Center Locks with Deadlock are shown above.

CAT. NO.	HANDING	FINISH
DTK410BS	Non-Handed	Brushed Stainless
DTK410PB	Non-Handed	Polished Brass
DTK410PS	Non-Handed	Polished Stainless
DTK410SC	Non-Handed	Satin Chrome

Glass Cut-Out Required

Faceplate/Lock Strike

- For DH410 and DT410 Series Center Locks
- Available in Two Finishes

Our Faceplate/Lock Strike for use with DH410 and DT410 Center Locks measures 6-7/8" long by 1" wide. One per pack with screws. Brushed stainless finish Faceplate/Lock Strike should be used with all finishes except polished stainless.

CAT. NO.	FINISH
DL48BS	Brushed Stainless
DL48PS	Polished Stainless

Flat Profile

Easy-to-Use Ordering Menu

This Easy-to-Use Menu for quoting and ordering your 4" x 10" Custom Center Lock with Deadlock is available upon request. We will fax it to you, or you can get it from our website **www.crlaurence.com**. Please contact Technical Sales at (800) 421-6144, Ext. 777 for details, or e-mail **techsales@crlaurence.com.**

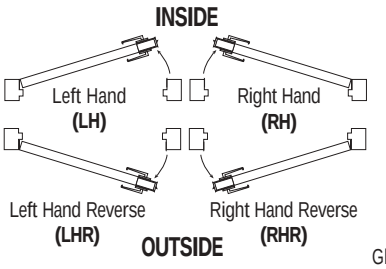
CRL 6" x 10" Center Locks and Glass Keepers

Center Lock with Deadlatch

6" x 10" Center Locks with Deadlatch offer the most diversity in lock function and security. Available in four attractive finishes for 1/2" (12 mm) heavy glass doors. Extra Gaskets are available on special order for doors using 3/8" (10 mm) glass doors. The operation of the lock varies with the lock function. (See Lock Functions below)

- For 1/2" (12mm) Glass
- Ships in Under a Week
- Available in Four Finishes
- Hassle Free Installation Without the Mess of Cement or Silicone

NEW



Glass Cut-Out Required

LHR Shown

LH CAT. NO.	RH CAT. NO.	LHR CAT. NO.	RHR CAT. NO.	FINISH
OFFICE LOCK				
DL610L0BS	DL610R0BS	DL611L0BS	DL611R0BS	Brushed Stainless
DL610L0PS	DL610R0PS	DL611L0PS	DL611R0PS	Polished Stainless
DL610L0PB	DL610R0PB	DL611L0PB	DL611R0PB	Polished Brass
DL610L0SC	DL610R0SC	DL611L0SC	DL611R0SC	Satin Chrome
ENTRANCE LOCK				
DL610LEBS	DL610REBS	DL611LEBS	DL611REBS	Brushed Stainless
DL610LEPS	DL610REPS	DL611LEPS	DL611REPS	Polished Stainless
DL610LEPB	DL610REPB	DL611LEPB	DL611REPB	Polished Brass
DL610LESC	DL610RESC	DL611LESC	DL611RESC	Satin Chrome
PASSAGE LOCK				
DL610LPBS	DL610RPBS	DL611LPBS	DL611RPBS	Brushed Stainless
DL610LPPS	DL610RPPS	DL611LPPS	DL611RPPS	Polished Stainless
DL610LPPB	DL610RPPB	DL611LPPB	DL611RPPB	Polished Brass
DL610LPSC	DL610RPSC	DL611LPSC	DL611RPSC	Satin Chrome
STOREROOM LOCK				
DL610LSBS	DL610RSBS	DL611LSBS	DL611RSBS	Brushed Stainless
DL610LSPS	DL610RSPS	DL611LSPS	DL611RSPS	Polished Stainless
DL610LSPB	DL610RSPB	DL611LSPB	DL611RSPB	Polished Brass
DL610LSSC	DL610RSSC	DL611LSSC	DL611RSSC	Satin Chrome

Lock Functions:

Office Lock:

Latchbolt is operated by lever on either side (except when outside lever is locked by button in faceplate) or by a key outside. Auxiliary Latchbolt deadlocks the main Latchbolt to prevent jimmying of lock. Turning inside lever will always retract the locking mechanism and allow exiting.

Entrance Lock:

Latchbolt is operated by lever on either side (except when Deadbolt is projected). Deadbolt is operated by key outside and thumbturn inside. Turning inside lever will retract Latchbolt and Deadbolt simultaneously to allow exiting.

Passage Lock:

Latchbolt is operated by lever on either side. Turning inside lever will always retract the locking mechanism and allow exiting.

Storeroom Lock:

Latchbolt is operated by lever inside, and by key outside. The outside lever is always fixed. Auxiliary Latchbolt deadlocks the main Latchbolt to prevent jimmying of lock. Turning inside lever will always retract the locking mechanism to allow exiting.
This lock is used primarily with Electric Strikes.

Center Lock Glass Keeper

- Installs Easily with Bolts; No Messy Silicone or Cement Required
- Ships in Under a Week
- Available in Four Popular Finishes
- For 1/2" (12mm) Glass

6" x 10" Center Lock Glass Keepers have a strike plate with a latch entry ramp on both sides, making them universal for all applications. Available in four attractive finishes for 1/2" (12 mm) heavy glass doors. Extra gaskets available on special order for doors or fixed panels using 3/8" (10 mm) glass.

CAT. NO.	HANDING	FINISH
DLK610BS	Non-Handed	Brushed Stainless
DLK610PB	Non-Handed	Polished Brass
DLK610PS	Non-Handed	Polished Stainless
DLK610SC	Non-Handed	Satin Chrome

Glass Cut-Out Required

Center Lock Glass Keeper with Deadlatch Electric Strike

6" x 10" Custom Center Lock Glass Keepers with Deadlatch Electric Strike are handed to match the appropriate Center Lock. To simplify ordering use the same handing as the lock. That way you can match the Glass Keeper with Deadlatch Electric Strike to the Center Lock handing. These units are special ordered and can be shipped within one week. Please contact Technical Sales at (800) 421-6144, Ext. 777 for details, or e-mail **techsales@crlaurence.com.**

LH/RHR CAT. NO.	RH/LHR CAT. NO.	FINISH
DLEL610BS	DLER610BS	Brushed Stainless
DLEL610PB	DLER610PB	Polished Brass
DLEL610PS	DLER610PS	Polished Stainless
DLEL610SC	DLER610SC	Satin Chrome

Glass Cut-Out Required

CRL Panic and Deadbolt Handles

NEW

- For 1/2" (12mm) or 3/4" (19mm) Tempered Glass Doors
- Can Be Used as a Direct Replacement for Older Panics
- Dogging Feature Defeats Locking Action During Business Hours
- Available in Polished or Brushed Stainless Steel
- Stock Size Units Available to Ship from Any CRL Location
- Custom Sizes Ship Within Two Weeks

Our new Glass Door Panic and Deadbolt Handles are designed to allow maximum view and a contemporary look to your 1/2" or 3/4" (12mm or 19mm) tempered glass doors. Installations can be made on single or double doors. For your convenience, we have designed the handles so they are ready to install on 36" to 48" wide doors ranging in height from 90" to 102" high without modifications. "Dogging", locking the device in the open position, is easy with just a slide of a knob. A Door Stop/Strike must be ordered separately. Optional Keyed Access Device also available.

PANIC HANDLES

LEFT HAND CAT. NO.	RIGHT HAND CAT. NO.	FINISH
PA3696LBS	PA3696RBS	Brushed Stainless
PA3696LPS	PA3696RPS	Polished Stainless

Can be combined for quantity pricing.

DEADBOLT HANDLES

LEFT HAND CAT. NO.	RIGHT HAND CAT. NO.	FINISH
DB3696LBS	DB3696RBS	Brushed Stainless
DB3696LPS	DB3696RPS	Polished Stainless

Can be combined for quantity pricing.

DOOR STOP/STRIKE

SINGLE DOOR CAT. NO.	DOUBLE DOOR CAT. NO.	FINISH
PK1BS	PK2BS	Brushed Stainless
PK1PS	PK2PS	Polished Stainless

Can be combined for quantity pricing.

Optional Keyed Access Device

Stock Panic and Deadbolt Handles are manufactured so the horizontal bar will be centered at 42" from the bottom of a 96" door. When using the Stock Panic or Deadbolt Handle on shorter or taller doors the horizontal location will change accordingly, but should not exceed 48", or go lower than 36", above the floor to conform with current Uniform Building Code requirements for hardware location. Please check your local codes for additional requirements.

If you want a specific location for the horizontal bar you will need to order a Custom Panic or Deadbolt Handle. Please contact CRL Technical Sales at (800) 421-6144, Ext. 777 for assistance in quoting or ordering.

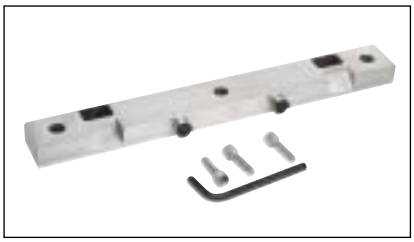
SPECIFICATIONS:

Material: 1-1/4" (32mm) Diameter Stainless Steel Tubing (1.5mm thick)

Glass Thickness: 1/2" (12mm) or 3/4" (19mm)

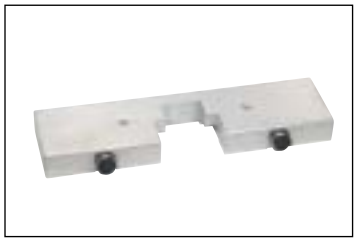
Glass Fabrication: Varies. Please contact CRL Technical Sales at (800) 421-6144, Ext. 777 for details, or e-mail **techsales@crlaurence.com**

Latch Detail

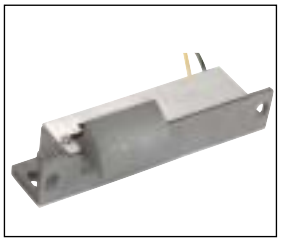


Door Stop/Strike

Optional Items:



Electric Strike Keeper



Electric Strike

KEYED ACCESS DEVICE

LEFT HAND CAT. NO.	RIGHT HAND CAT. NO.	FINISH
KAD2LBS	KAD2RBS	Brushed Stainless
KAD2LPS	KAD2RPS	Polished Stainless

Can be combined for quantity pricing.

ELECTRIC STRIKE KEEPER

SINGLE DOOR CAT. NO.	DOUBLE DOOR CAT. NO.	FINISH
ESK1BS	ESK2BS	Brushed Stainless
ESK1PS	ESK2PS	Polished Stainless

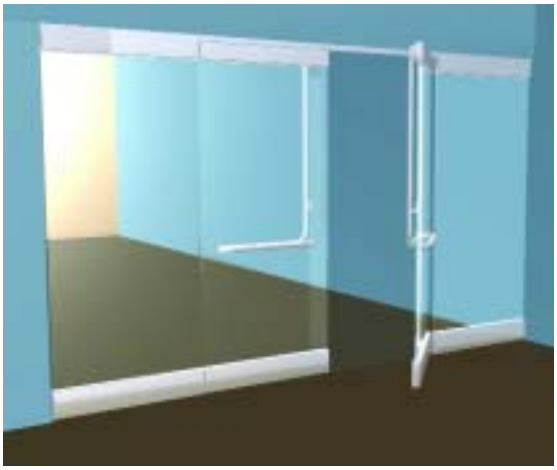
Can be combined for quantity pricing.

ELECTRIC STRIKE

CAT. NO.	HANDING	VOLTAGE
ES3101	Non-handed	24V DC

CRL Electronic Egress Control Handles

NEW



These handles are not classified as panic devices, but as Electronic Egress Control Handles.

- For 1/2" (12mm) or 3/4" (19mm) Tempered Glass Doors
- Available in Polished or Brushed Stainless Steel
- Stock Size Units Available to Ship from Any CRL Location
- Custom Sizes Ship within Two Weeks

LOCKING OPTIONS

Concealed Magnetic Locks

Surface Mounted Magnetic Locks

See page F34 for more details on Magnetic Locks

Electric Deadbolts

Our new Electronic Egress Control Handles are a more economical method to control access into or out of areas that call for security, and still maintain the beauty and view of an "all glass" door. When the handle is pushed an electronic switch releases the magnetic lock at the top of the door. For your convenience, we have designed the handles so they are ready to install on 36" to 48" wide doors ranging in height from 90" to 102" tall without any modification. Installations can be made on single doors or double doors. Please consult your local building codes as they relate to electromagnetic locking hardware for applicability.

Stock Electronic Egress Control Handles are manufactured so the horizontal bar will be centered at 42" from the bottom of a 96" door. When using the Stock Handles on shorter or taller doors the horizontal location will change accordingly, not to exceed 48" or lower than 36" from the floor, which conforms with current Uniform Building Code requirements for hardware location. Please check your local codes for additional requirements.

If you want a specific location for the horizontal bar you will need to order a Custom Handle. Please contact CRL Technical Sales at (800) 421-6144, Ext. 777 for assistance in quoting or ordering.

ELECTRONIC EGRESS CONTROL HANDLES

CAT. NO.	HANDING*	FINISH
EG3696LBS	Left Hand	Brushed Stainless
EG3696LPS	Left Hand	Polished Stainless
EG3696RBS	Right Hand	Brushed Stainless
EG3696RPS	Right Hand	Polished Stainless

*Handing is determined by viewing from the outside of the door.

KEYED ACCESS DEVICE

LEFT HAND CAT. NO.	RIGHT HAND CAT. NO.	FINISH
KAD2LBS	KAD2RBS	Brushed Stainless
KAD2LPS	KAD2RPS	Polished Stainless

Can be combined for quantity pricing.

SPECIFICATIONS

Material: 1-1/4" (32mm) Diameter Stainless Steel Tubing (1.5mm Thick)
Glass Thickness: 1/2" (12mm) or 3/4" (19mm)
Glass Fabrication: Varies. Please contact CRL Technical Sales at (800) 421-6144, Ext. 777 for details, or e-mail **techsales@crlaurence.com**

We can supply 1-3/4" x 4" or 4-1/2", and 2" x 6" Headers prefabricated for door closers or pivots and strikes. Please contact CRL Technical Sales at (800) 421-6144, Ext. 777 for details.

CRL Glass Mounted Ladder Style Pull Handle with Acrylic Semi-Inserts

INCLUDES:

1 Set: CA18X18 Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/4" (32mm) Diameter Matching Finish Metal Washers and Rubber Gaskets

Overall Length 24-1/2" (622mm)

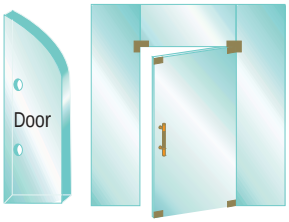
SPECIFICATIONS:

For Use With:
3/8" (10mm) and 1/2" (12mm) Glass
Construction:
1" (25mm) Diameter Stainless Steel or Brass Tubing with Acrylic Semi-Insert (White Accent Lines in Acrylic)
Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes, 18" (457mm) Center-to-Center

LADDER STYLE PULL HANDLE (BACK-TO-BACK)

CAT. NO.	FINISH
CA18X18BR	Polished Brass
CA18X18PS	Polished Stainless

All Door Handles can be combined for quantity pricing.



CRL Glass Mounted Ladder Style Pull Handle with Acrylic Full Inserts

INCLUDES:

1 Set: CB18X18 Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/4" (32mm) Diameter Matching Metal Finish Washers and Rubber Gaskets

Overall Length 27" (685mm)

SPECIFICATIONS:

For Use With:
3/8" (10mm) and 1/2" (12mm) Glass
Construction:
1" (25mm) Diameter Stainless Steel or Brass Tubing with Acrylic Full Insert (Black Accent Lines in Acrylic)
Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes, 18" (457mm) Center-to-Center

LADDER STYLE PULL HANDLE (BACK-TO-BACK)

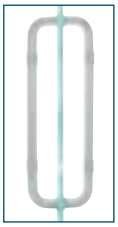
CAT. NO.	FINISH
CB18X18BR	Polished Brass
CB18X18PS	Polished Stainless

All Door Handles can be combined for quantity pricing.

CRL Glass Mounted Ring Style Pull Handle

INCLUDES:

1 Set: CR18X18 Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/4" (32mm) Diameter Matching Finish Metal Washers and Rubber Gaskets



SPECIFICATIONS:

For Use With:
3/8" (10mm) and 1/2" (12mm) Glass
Construction:
1" (25mm) Diameter Stainless Steel or Brass Tubing
Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes, 18" (457mm) Center-to-Center

RING STYLE PULL HANDLE (BACK-TO-BACK)

CAT. NO.	FINISH
CR18X18BR	Polished Brass
CR18X18PS	Polished Stainless

All Door Handles can be combined for quantity pricing.

CRL Glass Mounted Ladder Style Pull Handle with Undercut Accent Rings

INCLUDES:

1 Set: CT18X18 Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/4" (32mm) Diameter Matching Finish Metal Washers and Rubber Gaskets

Overall Length 25" (635mm)

SPECIFICATIONS:

For Use With:
3/8" (10mm) and 1/2" (12mm) Glass
Construction:
1" (25mm) Diameter Stainless Steel or Brass Tubing
Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes, 18" (457mm) Center-to-Center

LADDER STYLE PULL HANDLE (BACK-TO-BACK)

CAT. NO.	FINISH
CT18X18BR	Polished Brass
CT18X18PS	Polished Stainless
CT18X18BS	Brushed Stainless

All Door Handles can be combined for quantity pricing.

CRL Extra Length Ladder Style Pull Handles

NEW

- Extra Height for Eye-Catching Contemporary and Elegant Appearance
- 1-1/4" Diameter Heavy-Wall Stainless Steel Tubing
- Four Sizes in Two Popular Stock Finishes
- Custom Finishes and Sizes Available
- For 3/8" (10mm) or 1/2" (12mm) Glass

Extra Length Ladder Style Pull Handles are for back-to-back mounting with supplied through-bolts. Intended for use with full size glass doors made from 3/8" to 1/2" (10mm to 12mm) thick glass. Custom sizes and finishes are also available.

INCLUDES:

1 Set: Ladder Style Pull Handles (Back-to-Back Mounting)
2 Each: Through-Bolts for Glass Mounting

SPECIFICATIONS:

For Use With:
3/8" (10mm) or 1/2" (12mm) Glass
Construction:
1-1/4" (32mm) Diameter Heavy Wall Stainless Steel Tubing
Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes

CAT.NO.	OVERALL LENGTH	MOUNTING HOLES CENTER-TO-CENTER*	FINISH
48LPPS	48"	36"	Polished Stainless
48LPBS	48"	36"	Brushed Stainless
60LPPS	60"	48"	Polished Stainless
60LPBS	60"	48"	Brushed Stainless
72LPPS	72"	60"	Polished Stainless
72LPBS	72"	60"	Brushed Stainless
84LPPS	84"	72"	Polished Stainless
84LPBS	84"	72"	Brushed Stainless

Sizes and finishes can be combined for quantity pricing.
* Additional hole required if extra Mid-Post (see below) is added.

Mid-Post for Extra Length Ladder Style Pull Handles

Mid-Post provides additional strength when mounting Extra Length Ladder Style Pulls. Must be installed at factory. Allow one week for fabrication. For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

CAT.NO.	FINISH
LPMPPS	Polished Stainless
LPMPBS	Brushed Stainless

CRL Frameless Sliding Door Handles

NEW

- Contemporary and Elegant Appearance
- Low Projection Will Not Interfere with Sliding Door Action
- Four Popular Stock Finishes
- For 1/2" (12mm) Glass

CRL Door Handles for frameless sliding doors feature a low profile projection that will not interfere with the sliding action of the door. These handles are available in four stock architectural finishes to complement our Frameless Sliding Door System. Custom finishes and custom sizes also available.

SPECIFICATIONS:

For Use With: 1/2" (12mm) Glass
Glass Fabrication Required:
Glass Cut-Out with Polished Edges; Two 1/2" (12mm) Diameter Holes

CAT.NO.	FINISH
SGH8BN	Brushed Nickel
SGH8BR	Lacquered Brass
SGH8CH	Chrome
SGH8SC	Satin Chrome

Finishes can be combined for quantity pricing.

CRL Frameless Mail Slot

- Beautiful Accessory for Frameless All Glass Entrance Doors
- Choice of Four Architectural Finishes
- Fits Doors with 1/2" (12mm) Thick Glass

NEW

The latest innovation from CRL is our brass constructed Frameless Mail Slot for all glass commercial entrance doors. This easy to install unit features a 1/2" (12mm) glass flap with a pair of spring hinges that will fit 1/2" (12mm) thick glass. It's a beautiful alternative to the traditional aluminum mail slot. Available in four architectural finishes to complement our Door Rail and Patch Hardware. Custom finishes are also available.

SPECIFICATIONS:

For Use With:
1/2" (12mm) Thick Glass
Construction: Solid Brass
Glass Fabrication Required: Cut-Out
Included: Installation Instructions and Cut-Out Details

Glass Cut-Out Required

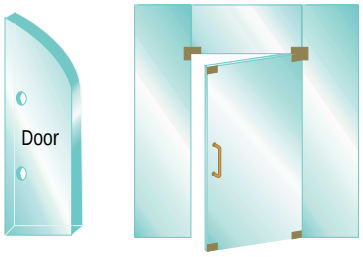
CAT.NO.	FINISH
FMS500BN	Brushed Nickel
FMS500BR	Lacquered Brass
FMS500CH	Chrome
FMS500SC	Satin Chrome

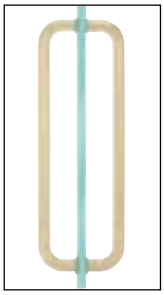
Finishes can be combined for quantity pricing.

CRL Glass Mounted Straight and Offset Back-To-Back Pull Handles

INCLUDES:

1 Set: CM10X10, CM12X12, CM18X18, CM24X24, CD10X10, CD12X12 or CD18X18 Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/4" (32mm) Diameter Matching Finish Metal Washers and Rubber Gaskets





Straight

Offset

SPECIFICATIONS:

For Use With:
3/8" (10mm) and 1/2" (12mm) Glass

Construction:
1" (25mm) Diameter Stainless Steel or Brass Tubing

Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes,
10X10: 10" (254mm) Center-to-Center
12X12: 12" (305mm) Center-to-Center
18X18: 18" (457mm) Center-to-Center
24X24: 24" (610mm) Center-to-Center

STRAIGHT PULL HANDLE (BACK-TO-BACK)

CAT. NO.	SIZE	FINISH
CM10X10BR	10"	Polished Brass
CM10X10BS	10"	Brushed Stainless
CM10X10DU	10"	Duranodic Bronze
CM10X10PS	10"	Polished Stainless
CM10X10SA	10"	Satin Anodized
CM12X12BR	12"	Polished Brass
CM12X12BS	12"	Brushed Stainless
CM12X12DU	12"	Duranodic Bronze
CM12X12PS	12"	Polished Stainless
CM12X12SA	12"	Satin Anodized
CM18X18BR	18"	Polished Brass
CM18X18BS	18"	Brushed Stainless
CM18X18PS	18"	Polished Stainless
CM24X24BR	24"	Polished Brass
CM24X24BS	24"	Brushed Stainless
CM24X24PS	24"	Polished Stainless

All Door Handles can be combined for quantity pricing.

OFFSET PULL HANDLE (BACK-TO-BACK)

CAT. NO.	SIZE	FINISH
CD10X10BR	10"	Polished Brass
CD10X10BS	10"	Brushed Stainless
CD10X10DU	10"	Duranodic Bronze
CD10X10PS	10"	Polished Stainless
CD10X10SA	10"	Satin Anodized
CD12X12BR	12"	Polished Brass
CD12X12BS	12"	Brushed Stainless
CD12X12DU	12"	Duranodic Bronze
CD12X12PS	12"	Polished Stainless
CD12X12SA	12"	Satin Anodized
CD18X18BR	18"	Polished Brass
CD18X18BS	18"	Brushed Stainless
CD18X18PS	18"	Polished Stainless

All Door Handles can be combined for quantity pricing.

CRL Glass Mounted Straight and Offset Combination Push and Pull Handles

INCLUDES:

1 Set: CM10X28, CM12X28, CD10X28, CD10X33 or CD12X28 Combination Push-Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/4" (32mm) Diameter Matching Finish Metal Washers and Rubber Gaskets

SPECIFICATIONS:

For Use With:
3/8" (10mm) and 1/2" (12mm) Glass

Construction:
1" (25mm) Diameter Stainless Steel or Brass Tubing

Glass Fabrication Required:
Three 5/8" (16mm) Diameter Holes,
10" (254mm) Center-to-Center
12" (305mm) Center-to-Center
28" (711mm) Center-to-Center
33" (838mm) Center-to-Center

STRAIGHT COMBINATION PUSH and PULL HANDLE

CAT. NO.	SIZE	FINISH
CM10X28BR	10" X 28"	Polished Brass
CM10X28BS	10" X 28"	Brushed Stainless
CM10X28DU	10" X 28"	Duranodic Bronze
CM10X28PS	10" X 28"	Polished Stainless
CM10X28SA	10" X 28"	Satin Anodized
CM12X28BR	12" X 28"	Polished Brass
CM12X28BS	12" X 28"	Brushed Stainless
CM12X28DU	12" X 28"	Duranodic Bronze
CM12X28PS	12" X 28"	Polished Stainless
CM12X28SA	12" X 28"	Satin Anodized

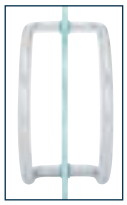
All Door Handles can be combined for quantity pricing.

OFFSET COMBINATION PUSH and PULL HANDLE

CAT. NO.	SIZE	FINISH
CD10X28BR	10" X 28"	Polished Brass
CD10X28BS	10" X 28"	Brushed Stainless
CD10X28DU	10" X 28"	Duranodic Bronze
CD10X28PS	10" X 28"	Polished Stainless
CD10X28SA	10" X 28"	Satin Anodized
CD10X33BR	10" X 33"	Polished Brass
CD10X33BS	10" X 33"	Brushed Stainless
CD10X33DU	10" X 33"	Duranodic Bronze
CD10X33PS	10" X 33"	Polished Stainless
CD10X33SA	10" X 33"	Satin Anodized
CD12X28BR	12" X 28"	Polished Brass
CD12X28BS	12" X 28"	Brushed Stainless
CD12X28DU	12" X 28"	Duranodic Bronze
CD12X28PS	12" X 28"	Polished Stainless
CD12X28SA	12" X 28"	Satin Anodized

All Door Handles can be combined for quantity pricing.

CRL Glass Mounted Curved Style Pull Handle



INCLUDES:

1 Set: CC12X12 Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/4" (32mm) Diameter Matching Finish Metal Washers and Rubber Gaskets

SPECIFICATIONS:

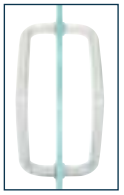
For Use With:
3/8" (10mm) and 1/2" (12mm) Glass
Construction:
1" (25mm) Diameter Stainless Steel or Brass Tubing
Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes, 12" (305mm) Center-to-Center

CURVED STYLE PULL HANDLE (BACK-TO-BACK)

CAT. NO.	FINISH
CC12X12BR	Polished Brass
CC12X12BS	Brushed Stainless
CC12X12PS	Polished Stainless

All Door Handles can be combined for quantity pricing.

CRL Glass Mounted Elbow Style Pull Handle



INCLUDES:

1 Set: CV12X12 Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/4" (32mm) Diameter Matching Finish Metal Washers and Rubber Gaskets

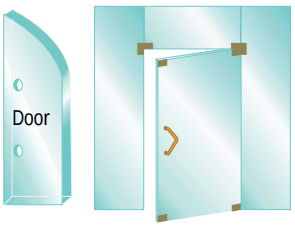
SPECIFICATIONS:

For Use With:
3/8" (10mm) and 1/2" (12mm) Glass
Construction:
1" (25mm) Diameter Stainless Steel or Brass Tubing
Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes, 12" (305mm) Center-to-Center

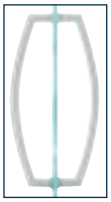
ELBOW STYLE PULL HANDLE (BACK-TO-BACK)

CAT. NO.	FINISH
CV12X12BR	Polished Brass
CV12X12BS	Brushed Stainless
CV12X12PS	Polished Stainless

All Door Handles can be combined for quantity pricing.

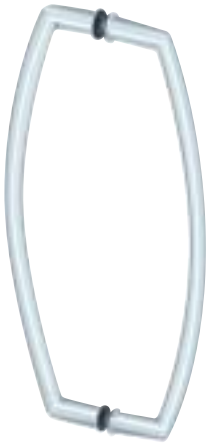


CRL Glass Mounted Bracket Style Pull Handle



INCLUDES:

1 Set: CX17X17 Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/4" (32mm) Diameter Matching Finish Metal Washers and Rubber Gaskets



SPECIFICATIONS:

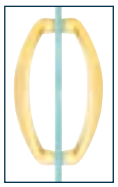
For Use With:
3/8" (10mm) and 1/2" (12mm) Glass
Construction:
1" (25mm) Diameter Stainless Steel Tubing
Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes, 16-3/4" (425mm) Center-to-Center

BRACKET STYLE PULL HANDLE (BACK-TO-BACK)

CAT. NO.	FINISH
CX17X17BS	Brushed Stainless
CX17X17PS	Polished Stainless

All Door Handles can be combined for quantity pricing.

CRL Glass Mounted Sculptured Style Pull Handle



INCLUDES:

1 Set: CQ10X10 Pull Handles (Back-to-Back Mounting);
2 Each: Through-Bolts for Glass Mounting;
4 Each: 1-1/16" (27mm) Diameter Matching Finish Metal Washers and Rubber Gaskets

SPECIFICATIONS:

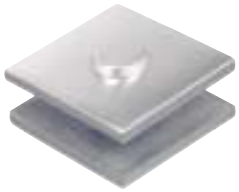
For Use With:
3/8" (10mm) and 1/2" (12mm) Glass
Construction: Cast Solid Brass
Glass Fabrication Required:
Two 5/8" (16mm) Diameter Holes, 10" (254mm) Center-to-Center

SCULPTURED STYLE PULL HANDLE (BACK-TO-BACK)

CAT. NO.	FINISH
CQ10X10BR	Polished Brass
CQ10X10CH	Chrome Plated
CQ10X10ABR	Antique Brass
CQ10X10BSC	Brushed Satin Chrome
CQ10X10BN	Brushed Nickel
CQ10X10PN	Polished Nickel
CQ10X10GP	Gold Plated
CQ10X10ORB	Oil Rub Bronze

All Door Handles can be combined for quantity pricing.

CRL Mall Front Clamps for Fixed Glass Panels



2" x 2"
Square

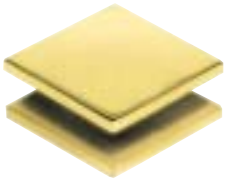
STYLE A

Attach with a Single Beveled Female Nut

2"
Diameter

STYLE B

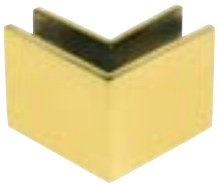
Attach with a Single Beveled Female Nut



2" x 2"
Square

STYLE C

Attach with Two Oval Head Phillips Screws



2" x 2"
90° Outside Squares

STYLE D

90 Degrees (Outside View)

2" x 2"
135° Outside Squares

STYLE E

135 Degrees (Outside View)

Styles D and E install using CRL RTV408C Silicone

- **Commonly Used in Malls for Joining Vertical Joints of Glass Wall Panels**
- **Reduce Deflection and Improve Rigidity**
- **Available in Polished Stainless, Polished Brass and Brushed Stainless Finishes**
- **A Choice of High Tech, Contemporary Designs**
- **For Use with 3/8" (10mm) or 1/2" (12mm) Thick Glass**

Mall Front Clamps join vertical glass wall panels and provide rigidity to reduce deflection between the panels when pressure is applied. They can also serve as floating indicators to alert pedestrians of a panel's presence in dimly lit areas. Two new styles round out our line: 90° and 135° clamps for use with angled glass walls. All clamps come in polished brass, polished stainless, or brushed stainless finishes, and are designed for 1/2" (12mm) thick glass. To use on 3/8" (10mm) glass simply file the threaded shank to the desired size. For Clamp Styles A, B and C, the suggested minimum gap between panels is 7/32".

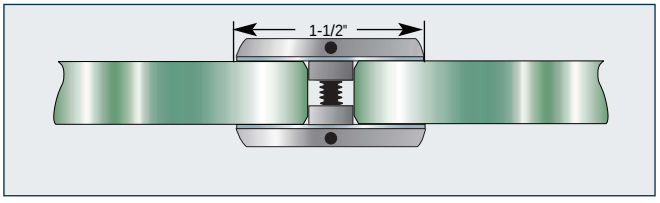
CAT. NO.	CLAMP STYLE	FINISH
MFC10	A	Polished Stainless
MFC11	A	Brushed Stainless
MFC12	A	Polished Brass
MFC14	B	Polished Stainless
MFC15	B	Brushed Stainless
MFC16	B	Polished Brass
MFC18	C	Polished Stainless
MFC19	C	Brushed Stainless
MFC20	C	Polished Brass
MFC22	D	Polished Stainless
MFC23	D	Brushed Stainless
MFC24	D	Polished Brass
MFC26	E	Polished Stainless
MFC27	E	Brushed Stainless
MFC28	E	Polished Brass

All Mall Clamps can be combined for quantity pricing.

CRL Mini Mall Front Clamps

- **Perfect for Joining Vertical Interior Panels of Heavy Glass in Malls**
- **1-1/2" Diameter Clamp Does Not Detract from Attractive Glass Appearance**
- **For Use with 3/8" (10mm) to 1/2" (12mm) Thick Glass**

Mini Mall Front Clamps are used to join vertical glass wall panels, and serve as a "floating" indicator of their presence. They can make it more difficult to pinch fingers or clothing between glass panels. Clamps come with two different length studs for use with 3/8" to 1/2" (10mm to 12mm) thick glass, and are easy to install. Round cap is tightened by simply putting a 3/32" drill in the round hole in the beveled edge and turning. 1-1/2" diameter circular Clamps are available with solid brass construction in a choice of brass or chrome finishes, or aluminum construction in a choice of satin anodized or black finishes. Suggested minimum gap between panels is 1/4".



CAT. NO. MC112BR
Brass Finish
Solid Brass

CAT. NO. MC112CH
Chrome Finish
Solid Brass

CAT. NO. MC112A
Satin Anodized
Aluminum

CAT. NO. MC112BL
Black Anodized
Aluminum

CAT. NO.	CONSTRUCTION	FINISH
MC112BR	Solid Brass	Brass
MC112CH	Solid Brass	Chrome
MC112A	Aluminum	Satin Anodized
MC112BL	Aluminum	Black Anodized

All Mall Clamps can be combined for quantity pricing.

Recommendations for Use of CRL Mall Front Clamps

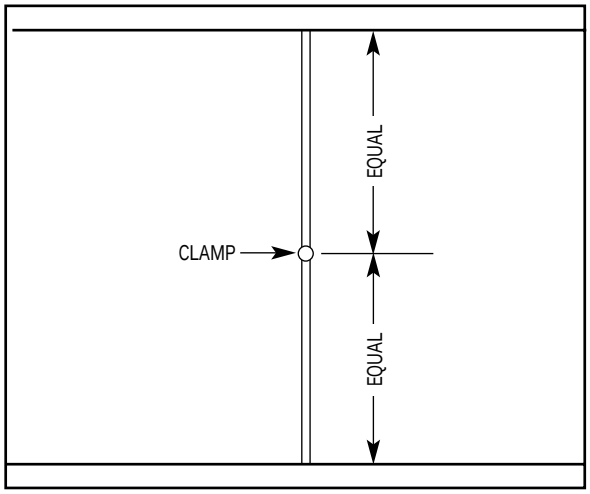
In early installations of interior mall fronts, it was found that butt glazed glass panels supported only on the top and bottom could bow enough to allow clothing or body parts to be captured between the panels. Mall Front Clamps were designed to help reduce this "differential deflection" to be no more than the thickness of the glass. The use of Mall Front Clamps is not only recommended, in some areas they are required by code. Below is a guide that shows recommended use of our Mall Front Clamps for 3/8" (10mm) and 1/2" (12mm) fully tempered glass.

Note: Mall Front Clamps will NOT add structural strength or rigidity to an opening. Where strength or overall rigidity are a factor the use of stabilizing fins needs to be considered. These are only recommendations. Please refer to your local building codes and officials for specific requirements. For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

Mall Front Clamp Spacing

- **Recommended Use of Mall Front Clamps for Fully Tempered Glass Used on Butt Glazed Interior Panels Captured Only at Top and Bottom**

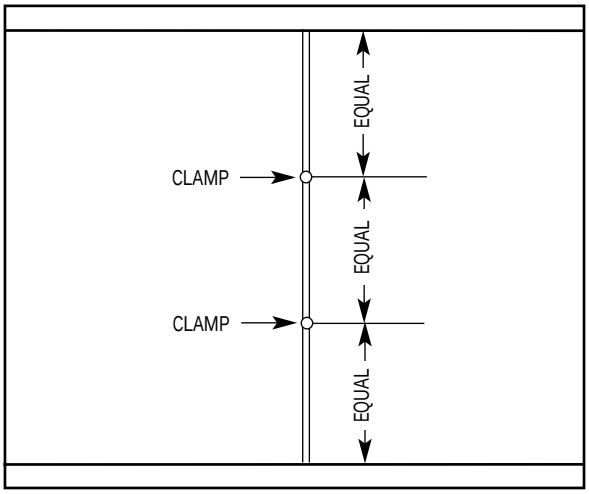
3/8" (10mm) and 1/2" (12mm) Panels Up to 96" (2.4m) in Height



One Clamp Centered

Minimum of one clamp centered, not to exceed 48" (1.2m) spacing from top or bottom edges of glass

3/8" (10mm) and 1/2" (12mm) Panels Over 96" (2.4m) in Height



Two Clamps Equally Spaced

Minimum of two clamps equally spaced, not to exceed 48" (1.2m) apart

The Frameless Storefront and Entrance System

- An Excellent Choice for All Glass Entrances
- Provides Frameless Storefront Appearance for Unobstructed Display of Merchandise
- Allows Combination of Aesthetics and Versatility
- A Complete Selection of Products Including Patch Fittings, Inserts and Pivots, Lever Locks and Latches, Concealed Overhead and Floor Closers, Door Handles and Many More Accessories

Common Applications:

- Mall Fronts
- Retail Outlets
- Hotels
- Arenas and Museums
- Professional Office Buildings
- Restaurants and Clubs

TECHNICAL ASSISTANCE:
Your job can be made easier with the help of our Technical Sales Representatives who are trained in the newest Patch Hardware Systems, and can offer detailed diagrams and layout sheets. Call (800) 421-6144, Ext 777.

Seizing That 1-1/2 Seconds of Opportunity...

According to national statistics, the average merchant has only 1-1/2 seconds, a very short time span to attract a passing customer into his business. Through attractive window displays of trendy or proprietary products that fit a business, you increase the odds that the passing customer will enter. Just as important is the presentation, or how the customer is able to view the display unobstructed, without clutter and distraction to detract from the merchandise. A standard aluminum framed storefront system consists of vertical and horizontal extrusions that distract the eye from the merchandise displayed. A storefront system using patch hardware has minimal distractions, and creates an almost frameless appearance. The result is customer concentration on the merchandise, not the surrounding glass support system.

C.R. Laurence offers a variety of Patch Hardware to make this state of the art glazing system available to the storefront industry. CRL's commitment to our customers is to carry sufficient inventories of popular stock items, and short lead times for special orders. It is a total program that will allow your entry into the frameless storefront or all glass entrance market. For additonal information, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail to **techsales@crlaurence.com**

COMMERCIAL PATCH HARDWARE

SPECIFICATIONS:

PATCH FITTINGS:

North American

North American Standard is 2-3/4" (70mm)
(Finished opening to pivot center)

European

European Standard is 2-9/16" (65mm)
(Finished opening to pivot center)

FINISHES AVAILABLE:

Aluminum	**Polished Stainless**	**Duranodic Bronze**
Polished Brass	**Brushed Stainless**	

Gaskets Supplied When Required
Maximum Door Weight: 176 lbs. (80kg)
Maximum Door Width: 43" (1100mm)
For doors weighing over 176 lbs. (80kg) and up to 264 lbs. (120 kg), or doors with widths over 43" (1100mm) and up to 55" (1400mm), Door Rails should be used. See page F10.

GLASS ASPECT RATIO:

Panel height not to exceed seven times panel width (7:1)

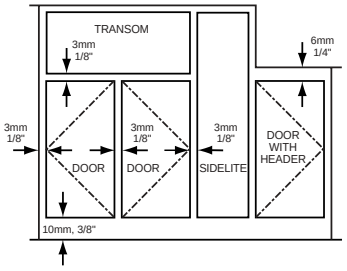
SUPPORT FINS:

As a general guide, when the height of the transom, plus the width of the side panel exceeds a total of 47" (1200mm) a Support Fin is needed. This will cope with loads imposed on the assembly by the action of the door, or doors, and external wind loads. The Support Fins will be securely fixed to a suitably rigid structure at the top of the assembly.

WARRANTY:

C.R. Laurence Company warrants the hardware against mechanical or finishing defects for a period of three years from date of purchase. This warranty is void if hardware has been damaged due to improper cleaning, installation or modification.

STANDARD HARDWARE / GLASS CLEARANCES



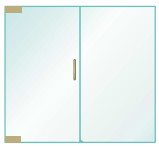
- CLEARANCES ARE FOR TYPICAL CONDITIONS WITH PLUMB AN SQUARE OPENINGS
- FLOOR CLEARANCE APPLIES FOR MANUAL PIVOT OR FLOOR CLOSER
- ADD FOR THRESHOLD THICKNESS AS REQUIRED

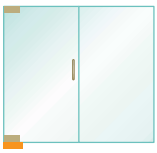
Popular Configurations of Toughened Glass Assemblies

Single Door with Manual Top and Bottom Pivots

Single Door with Floor Closer

Single Door with Concealed Overhead Closer


Single Door and Sidelite with Top and Bottom Manual Pivots


Single Door and Sidelite with Floor Closer

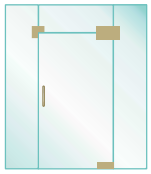
Single Door and Sidelite with Concealed Overhead Closer

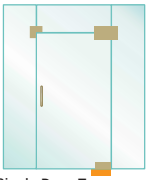
Single Door and Transom with Top and Bottom Manual Pivots

Single Door and Transom with Floor Closer

Single Door, Transom and Sidelite with Top and Bottom Manual Pivots

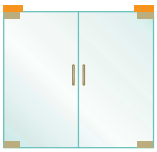
Single Door, Transom and Sidelite with Floor Closer

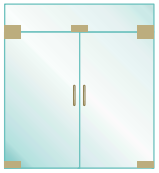

Single Door, Transom and Sidelites with Top and Bottom Manual Pivots

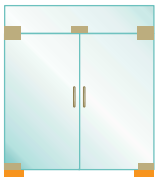

Single Door, Transom and Sidelites with Floor Closer

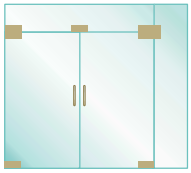
Paired Doors with Top and Bottom Manual Pivots

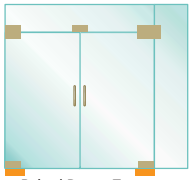
Paired Doors with Floor Closers

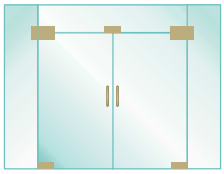

Paired Doors with Concealed Overhead Closers

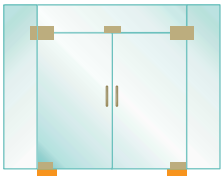

Paired Doors and Transom with Top and Bottom Manual Pivots


Paired Doors and Transom with Floor Closers


Paired Doors, Transom and Sidelite with Top and Bottom Manual Pivots

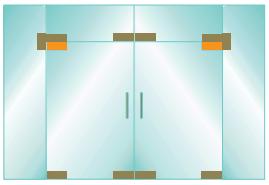

Paired Doors, Transom and Sidelite with Floor Closers


Paired Doors, Transom and Sidelites with Top and Bottom Manual Pivots


Paired Doors, Transom and Sidelites with Floor Closers

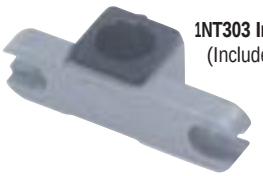
CRL North American Top Door Patch with 1NT303 Insert and Cover Plates

2-3/4" (70mm) Pivot Setback

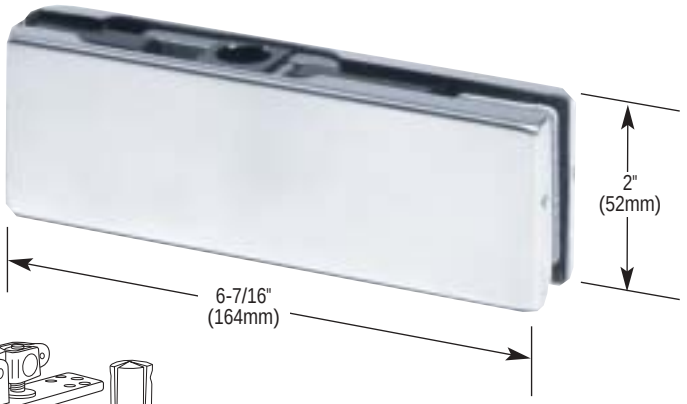


INCLUDES:

High Density Cast Body;
1NT303 Top Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions



1NT303 Insert
(Included)



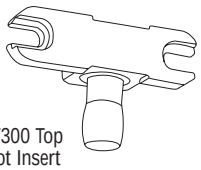
SPECIFICATIONS:

For Use With:
PH34, PH40, PH41L, PH41R and
PH51 Transom Patch Fittings;
1NT300 Top Pivot Insert;
1NT401 Surface Mounted Top Pivot;
1NT405 Threaded Top Pivot;
CRL9040WBP Walking Beam Pivot

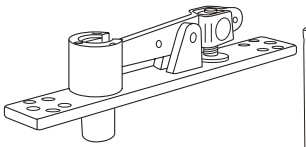
Glass Fabrication Required:
One 3/4" (19mm) Diameter Hole and Corner Notch

Do Not Use With:
PH42L, PH42R, PH43L or PH43R Transom Patch Fittings.
They Require European Door Patch Fitting PH21A.

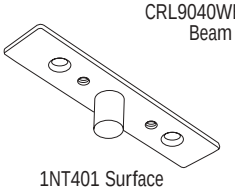
Works With:



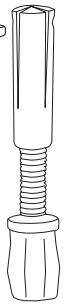
1NT300 Top
Pivot Insert



CRL9040WBP Walking
Beam Pivot



1NT401 Surface
Mounted Top Pivot



1NT405 Threaded
Top Pivot

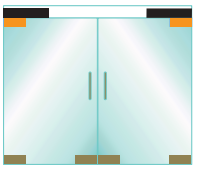
COMPLETE TOP DOOR PATCH FITTING

CAT. NO.	FINISH
PH20AA	Aluminum
PH20ADU	Bronze
PH20ABR	Polished Brass
PH20ABS	Brushed Stainless
PH20APS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL North American Top Door Patch with 1NT304 Insert and Cover Plates

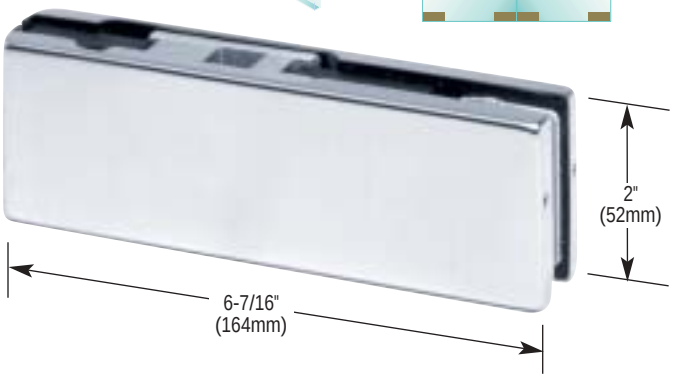
2-3/4" (70mm) Pivot Setback



INCLUDES:

High Density Cast Body;
1NT304 Top Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

1NT304 Insert
(Included)



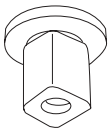
SPECIFICATIONS:

For Use With:
CRL, Jackson, International and other
2-3/4" (70mm) Pivot Setback Overhead
Concealed Door Closers
with 9/16" Square Spindle

Glass Fabrication Required:
One 3/4" (19mm) Diameter
Hole and Corner Notch

Do Not Use With:
European 2-9/16" (65mm) Pivot Setback
Overhead Concealed Door Closers.
They Require European Door Patch Fitting PH21B.

Works With:



North American Pivot Setback 2-3/4" (70mm)
Concealed Overhead Door Closers
With 9/16" Square Spindle

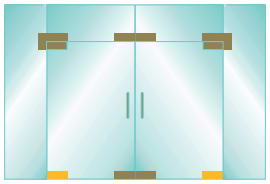
COMPLETE TOP DOOR PATCH FITTING

CAT. NO.	FINISH
PH20BA	Aluminum
PH20BDU	Bronze
PH20BBR	Polished Brass
PH20BBS	Brushed Stainless
PH20BPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL North American Bottom Door Patch with 1NT301 Insert and Cover Plates

2-3/4" (70mm) Pivot Setback



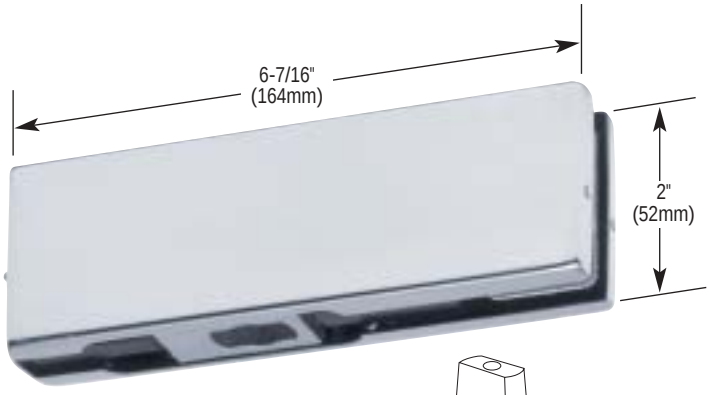
INCLUDES:

High Density Cast Body;
1NT301 Bottom Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

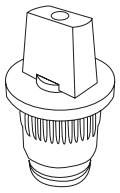
SPECIFICATIONS:

For Use With:
CRL8300 Series Floor Closers;
CRL8400 Series Floor Closers;
1NT402 Bottom Free Swinging Pivot;
1NT403 Adjustable Bottom Free Swinging Pivot;
1NT406 Adjustable Bottom Free Swinging Pivot

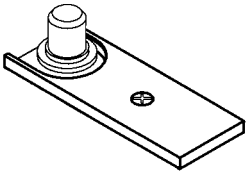
Glass Fabrication Required:
One 3/4" (19mm) Diameter
Hole and Corner Notch



1NT301 Insert
(Included)

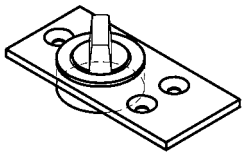


1NT406 Adjustable Bottom Free Swinging Pivot

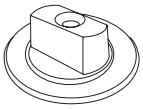


1NT403 Adjustable Bottom Free Swinging Pivot

Works With:



1NT402 Bottom Free Swinging Pivot



Floor Closers with This Type of Spindle

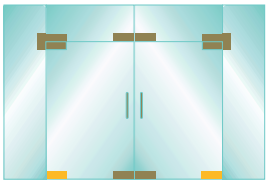
COMPLETE BOTTOM DOOR PATCH FITTING

CAT. NO.	FINISH
PH10CA	Aluminum
PH10CDU	Bronze
PH10CBR	Polished Brass
PH10CBS	Brushed Stainless
PH10CPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL North American Bottom Door Patch with 1NT302 Insert and Cover Plates

2-3/4" (70mm) Pivot Setback



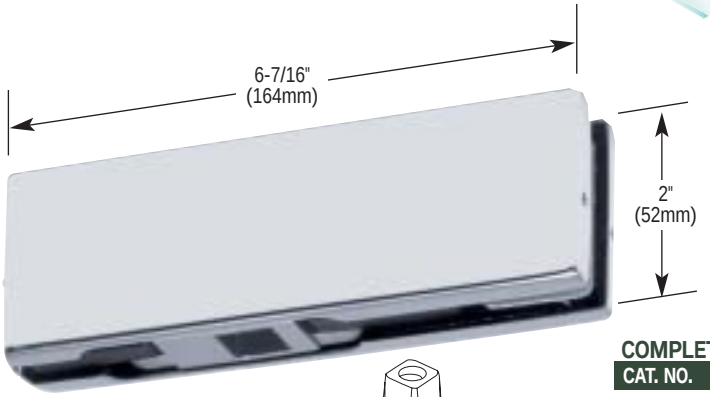
INCLUDES:

High Density Cast Body;
1NT302 Bottom Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

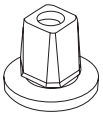
SPECIFICATIONS:

For Use With:
Floor Closers with Casma (Speedy) Tapered Square Spindle;
1NT404 Adjustable Bottom Free Swinging Pivot

Glass Fabrication Required:
One 3/4" (19mm) Diameter
Hole and Corner Notch

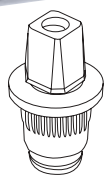


1NT302 Insert
(Included)



Floor Closers with Casma (Speedy) Tapered Square Spindle

Works With:



1NT404 Adjustable Bottom Free Swinging Pivot

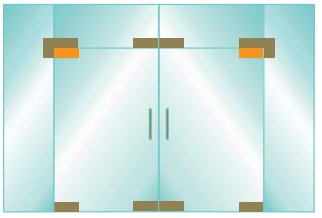
COMPLETE BOTTOM DOOR PATCH FITTING

CAT. NO.	FINISH
PH10DA	Aluminum
PH10DDU	Bronze
PH10DBR	Polished Brass
PH10DBS	Brushed Stainless
PH10DPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL European Top Door Patch with 1NT303 Insert and Cover Plates

2-9/16" (65mm) Pivot Setback



INCLUDES:

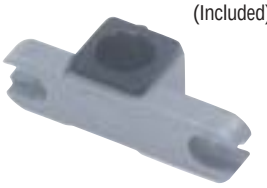
High Density Cast Body;
1NT303 Top Door Patch Insert;
Cover Plates
(Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

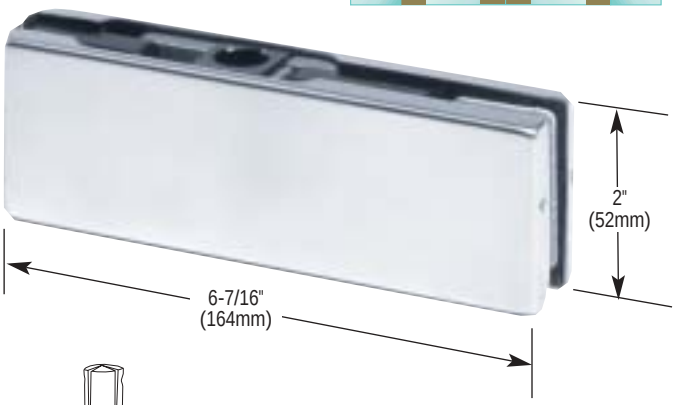
SPECIFICATIONS:

For Use With:
PH34, PH40, PH41L, PH41R, PH42L, PH42R, PH43L, PH43R and PH51 Transom Patch Fittings;
1NT300 Top Pivot Insert;
1NT401 Surface Mounted Top Pivot;
1NT405 Threaded Top Pivot;
CRL9040WBP Walking Beam Pivot

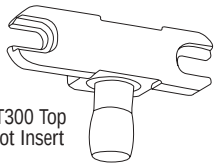
Glass Fabrication Required:
One 3/4" (19mm) Diameter
Hole and Corner Notch

1NT303 Insert
(Included)

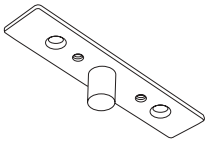




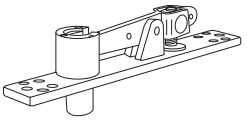
Works With:



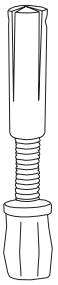
1NT300 Top
Pivot Insert



1NT401 Surface
Mounted Top Pivot



CRL9040WBP Walking
Beam Pivot



1NT405 Threaded
Top Pivot

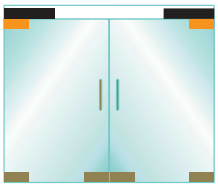
COMPLETE TOP DOOR PATCH FITTING

CAT. NO.	FINISH
PH21AA	Aluminum
PH21ABR	Polished Brass
PH21ABS	Brushed Stainless
PH21APS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL European Top Door Patch with 1NT304 Insert and Cover Plates

2-9/16" (65mm) Pivot Setback



INCLUDES:

High Density Cast Body;
1NT304 Top Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

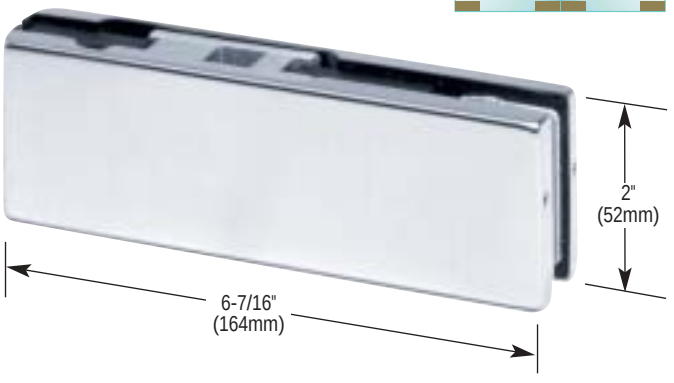
SPECIFICATIONS:

For Use With:
European 2-9/16" (65mm) Pivot Setback Overhead Concealed Door Closers

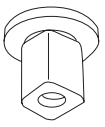
Glass Fabrication Required:
One 3/4" (19mm) Diameter
Hole and Corner Notch

Do Not Use With:
CRL, Jackson, International and other 2-3/4" (70mm) Pivot Setback Overhead Concealed Door Closers. They Require North American Door Patch Fitting PH20B.

1NT304 Insert
(Included)



Works With:



European 2-9/16" (65mm) Pivot Setback
Concealed Overhead Door Closers
With 9/16" Square Spindle

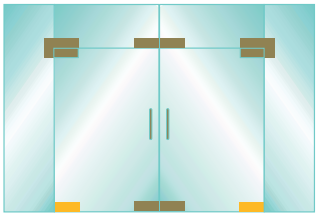
COMPLETE TOP DOOR PATCH FITTING

CAT. NO.	FINISH
PH21BA	Aluminum
PH21BBR	Polished Brass
PH21BBS	Brushed Stainless
PH21BPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL European Bottom Door Patch with 1NT301 Insert and Cover Plates

2-9/16" (65mm) Pivot Setback



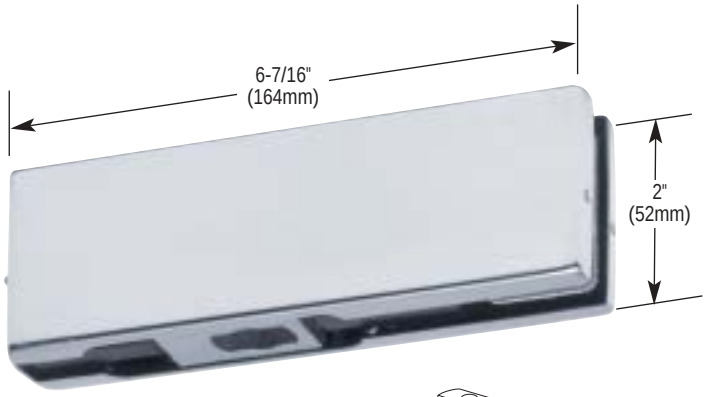
INCLUDES:

High Density Cast Body;
1NT301 Bottom Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

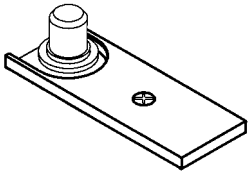
SPECIFICATIONS:

For Use With:
CRL8300 Series Floor Closers;
CRL8400 Series Floor Closers;
1NT402 Bottom Free Swinging Pivot;
1NT403 Adjustable Bottom Free Swinging Pivot;
1NT406 Adjustable Bottom Free Swinging Pivot

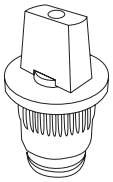
Glass Fabrication Required:
One 3/4" (19mm) Diameter
Hole and Corner Notch



1NT301 Insert
(Included)

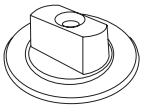


1NT403 Adjustable Bottom Free Swinging Pivot

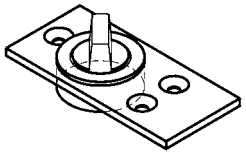


1NT406 Adjustable Bottom Free Swinging Pivot

Works With:



Floor Closers with This Type of Spindle



1NT402 Bottom Free Swinging Pivot

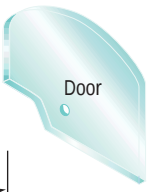
COMPLETE BOTTOM DOOR PATCH FITTING

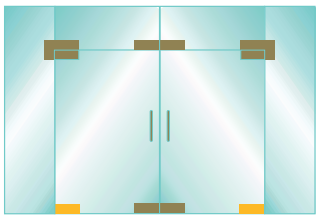
CAT. NO.	FINISH
PH11CA	Aluminum
PH11CBR	Polished Brass
PH11CBS	Brushed Stainless
PH11CPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL European Bottom Door Patch with 1NT302 Insert and Cover Plates

2-9/16" (65mm) Pivot Setback





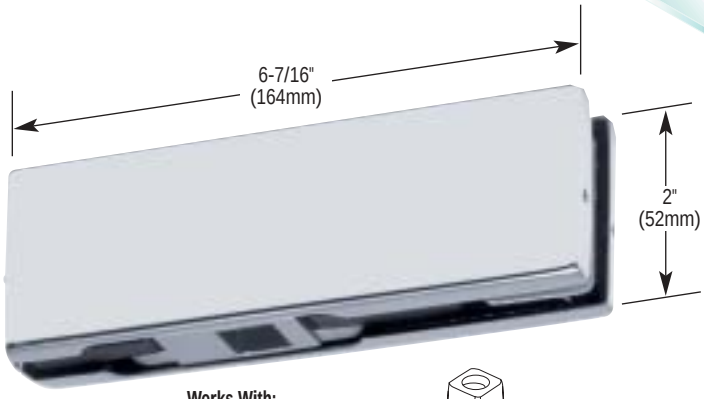
INCLUDES:

High Density Cast Body;
1NT302 Bottom Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

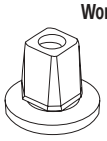
For Use With:
Floor Closers with Casma (Speedy) Tapered Square Spindle;
1NT404 Adjustable Bottom Free Swinging Pivot

Glass Fabrication Required:
One 3/4" (19mm) Diameter
Hole and Corner Notch

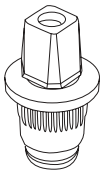


1NT302 Insert
(Included)

Works With:



Floor Closers with Casma (Speedy) Tapered Square Spindle



1NT404 Adjustable Bottom Free Swinging Pivot

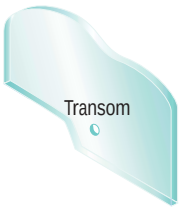
COMPLETE BOTTOM DOOR PATCH FITTING

CAT. NO.	FINISH
PH11DA	Aluminum
PH11DBR	Polished Brass
PH11DBS	Brushed Stainless
PH11DPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL Wall Mounted Transom Patch with 1NT300 Insert, Cover Plates and Wall Mounting Plate

Works with Both 2-3/4" (70mm) and 2-9/16" (65mm) Pivot Setback Door Patch Fittings



INCLUDES:

High Density Cast Body;
1NT300 Top Pivot Insert;
Cover Plates (Finish of Your Choice);
Wall Mounting Plate;
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

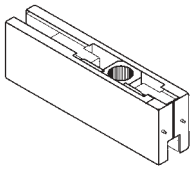
SPECIFICATIONS:

For Use With:
PH20A and PH21A
Top Door Patches

Glass Fabrication Required:
One 3/4" (19mm) Diameter
Hole and Corner Notch

1NT300 Insert
(Included)

Works With:



PH20A and PH21A
Top Door Patches

COMPLETE WALL MOUNTED TRANSOM PATCH

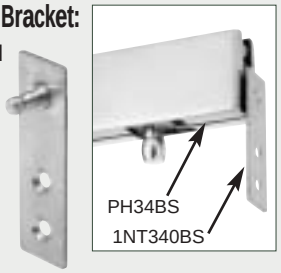
CAT. NO.	FINISH
PH34A	Aluminum
PH34DU	Bronze
PH34BR	Polished Brass
PH34BS	Brushed Stainless
PH34PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

Optional Mounting Bracket:

Replaces standard Wall Mounting Plate and is concealed on hinge side when door is installed.

CAT. NO. 1NT340BS

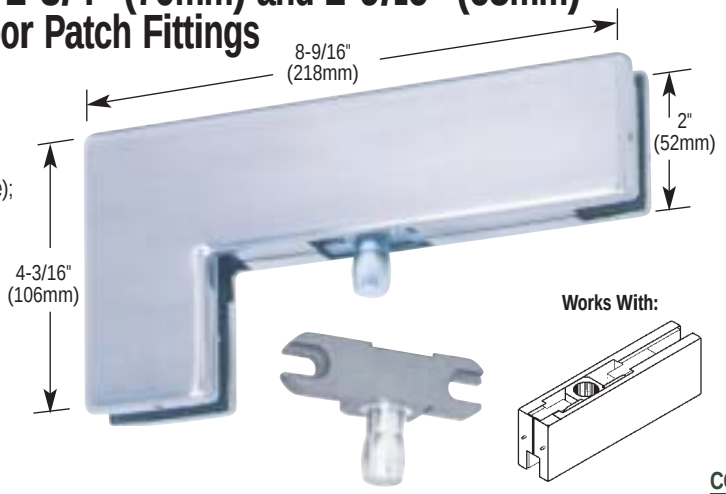


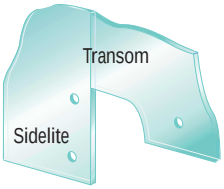
The PH34 is a Wall Mounted Transom Patch used to support a transom from a side jamb. It comes with a 1NT300 Top Insert for door mounting. The insert can be removed on the non-hinged side, allowing for a double swinging door.

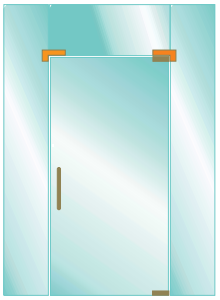
A 1NT306 Transom Patch Door Stop Insert can be used to create a one way door. Also, an AMR305 Transom Patch Keeper Insert can be installed for use with an AMR205 Lock when used for a top of the door installation.

CRL Sidelite Mounted Transom Patch with 1NT300 Insert and Cover Plates

Works with Both 2-3/4" (70mm) and 2-9/16" (65mm) Pivot Setback Door Patch Fittings







INCLUDES:

High Density Cast Body;
1NT300 Top Pivot Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use with:
PH20A and PH21A
Top Door Patches

Glass Fabrication Required:
Three 3/4" (19mm) Diameter
Holes and Corner Notch

1NT300 Insert
(Included)

Works With:

PH20A and PH21A
Top Door Patches

COMPLETE SIDELITE MOUNTED TRANSOM PATCH

CAT. NO.	FINISH
PH40A	Aluminum
PH40DU	Bronze
PH40BR	Polished Brass
PH40BS	Brushed Stainless
PH40PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

The PH40 is a Sidelite Mounted Transom Patch used to support a transom from a sidelite glass panel. It comes with a 1NT300 Top Insert for door mounting. On the non-hinged side the insert can be removed, allowing for a double swinging door.

A 1NT306 Transom Patch Door Stop Insert can be used to create a one way door. An AMR305 Transom Patch Keeper Insert can be installed for use with an AMR205 Lock used for a top of the door installation.

CRL Right Hand Sidelite Mounted Transom Patch with Support Fin Bracket, 1NT300 Insert and Cover Plates (Viewed from Outside)

Works with Both 2-3/4" (70mm) and 2-9/16" (65mm) Pivot Setback Door Patch Fittings

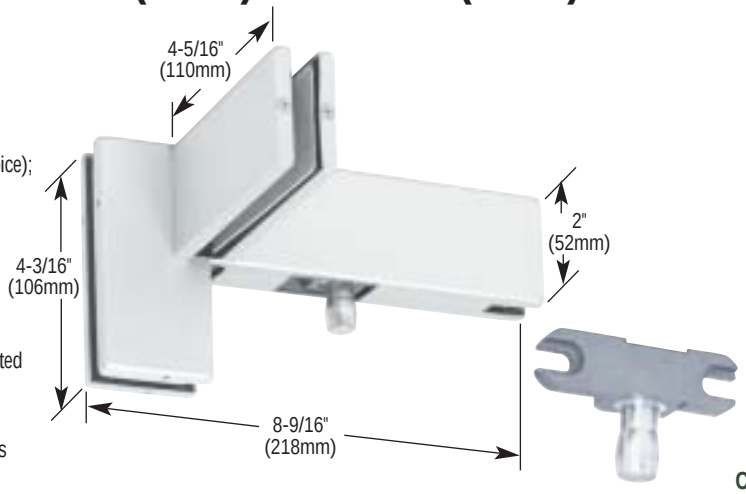
INCLUDES:

High Density Cast Body;
1NT300 Top Pivot Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass;
Template and Instructions

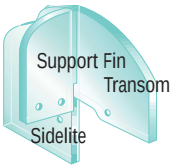
SPECIFICATIONS:

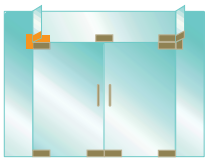
For Use With:
PH20A and PH21A Top Door Patches and PH94 Ceiling Mounted Support Fin Bracket

Glass Fabrication Required:
Five 3/4" (19mm) Diameter Holes and Two Corner Notches



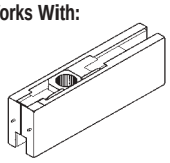
1NT300 Insert
(Included)



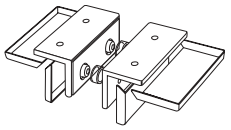


Typical Store Entrance With Support Fins
(Viewed from the Inside)

Works With:



PH20A and PH21A Top Door Patches



PH94 Ceiling Mounted Support Fin Bracket

The PH41R is used to support a transom from a sidelite glass panel. For single doors, the insert can be removed on the non-hinged side, allowing for a double swinging door. A 1NT306 Transom Patch Door Stop Insert can be used to create a one way door. Also, an AMR305 Transom Patch Keeper Insert can be installed for use with an AMR205 Lock used for top of the door installations. The support fin glass should be sized in accordance with approved design criteria (refer to GANA or Manufacturer's Manual), and secured to the ceiling with a PH94 Ceiling Mounted Support Fin Bracket.

COMPLETE RIGHT HAND SIDELITE MOUNTED TRANSOM PATCH WITH SUPPORT FIN BRACKET

CAT. NO.	FINISH
PH41RA	Aluminum
PH41RDU	Bronze
PH41RBR	Polished Brass
PH41RBS	Brushed Stainless
PH41RPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL Left Hand Sidelite Mounted Transom Patch with Support Fin Bracket, 1NT300 Insert and Cover Plates (Viewed from Outside)

Works with Both 2-3/4" (70mm) and 2-9/16" (65mm) Pivot Setback Door Patch Fittings

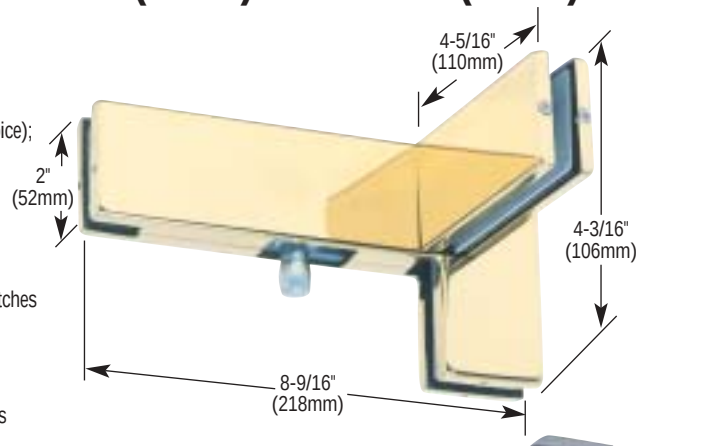
INCLUDES:

High Density Cast Body;
1NT300 Top Pivot Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass;
Template and Instructions

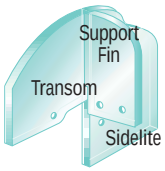
SPECIFICATIONS:

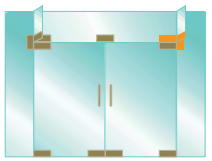
For Use With:
PH20A and PH21A Top Door Patches and PH94 Ceiling Mounted Support Fin Bracket

Glass Fabrication Required:
Five 3/4" (19mm) Diameter Holes and Two Corner Notches



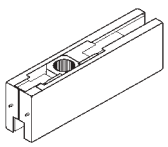
1NT300 Insert
(Included)



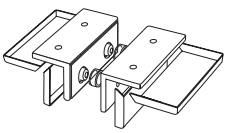


Typical Store Entrance With Support Fins
(Viewed from the Inside)

Works With:



PH20A and PH21A Top Door Patches



PH94 Ceiling Mounted Support Fin Bracket

The PH41L is used to support a transom from a sidelite glass panel. For single doors, the insert can be removed on the non-hinged side, allowing for a double swinging door. A 1NT306 Transom Patch Door Stop Insert can be used to create a one way door. Also, an AMR305 Transom Patch Keeper Insert can be installed for use with an AMR205 Lock used for top of the door installations. The support fin glass should be sized in accordance with approved design criteria (refer to GANA or Manufacturer's Manual), and secured to the ceiling with a PH94 Ceiling Mounted Support Fin Bracket.

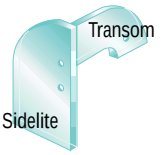
COMPLETE LEFT HAND SIDELITE MOUNTED TRANSOM PATCH WITH SUPPORT FIN BRACKET

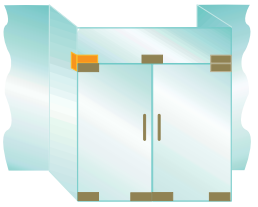
CAT. NO.	FINISH
PH41LA	Aluminum
PH41LDU	Bronze
PH41LBR	Polished Brass
PH41LBS	Brushed Stainless
PH41LPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL 90° Left Hand Sidelite Mounted Transom Patch, 1NT300 Insert and Cover Plates (Viewed from Outside)

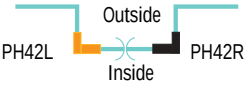
Works with Both 2-3/4" (70mm) and 2-9/16" (65mm) Pivot Setback Door Patch Fittings



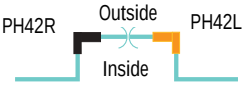


Typical Recessed Store Entrance
(Viewed from the Inside)

Top View as Illustrated Above



Top View Opposite from Illustration Above



INCLUDES:

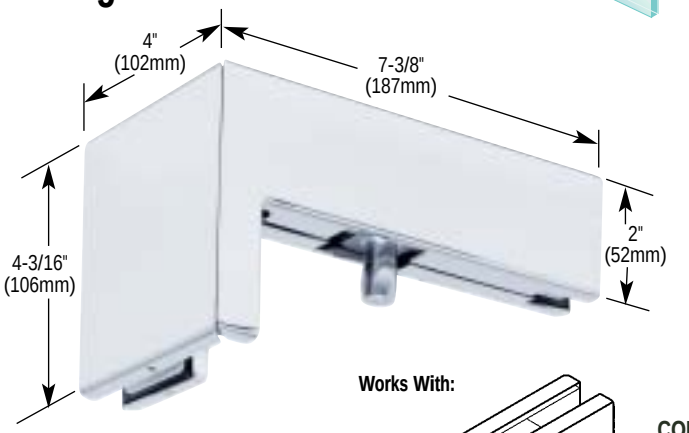
High Density Cast Body;
1NT300 Top Pivot Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
PH20A American Top Door Patch
PH21A European Top Door Patch

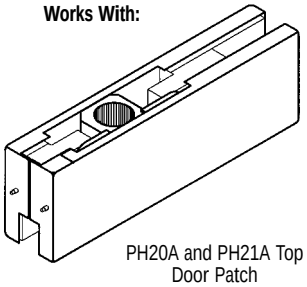
Glass Fabrication Required:
Three 3/4" (19mm) Diameter Holes
and One Corner Notch;
Door and Panels Flat Polished;
No Miters Required.

For single doors, the insert can be removed on the non-hinged side, allowing for a double swinging door. A 1NT306 Transom Patch Door Stop Insert can be used to create a one way door.



1NT300 Insert
(Included)

Works With:



PH20A and PH21A Top Door Patch

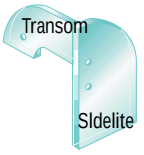
COMPLETE 90° LEFT HAND SIDELITE MOUNTED TRANSOM PATCH

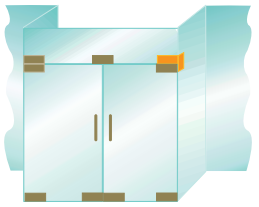
CAT. NO.	FINISH
PH42LA	Aluminum
PH42LBR	Polished Brass
PH42LBS	Brushed Stainless
PH42LPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL 90° Right Hand Sidelite Mounted Transom Patch, 1NT300 Insert and Cover Plates (Viewed from Outside)

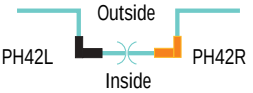
Works with Both 2-3/4" (70mm) and 2-9/16" (65mm) Pivot Setback Door Patch Fittings



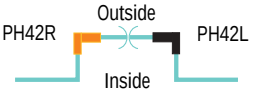


Typical Recessed Store Entrance
(Viewed from the Inside)

Top View as Illustrated Above



Top View Opposite from Illustration Above



INCLUDES:

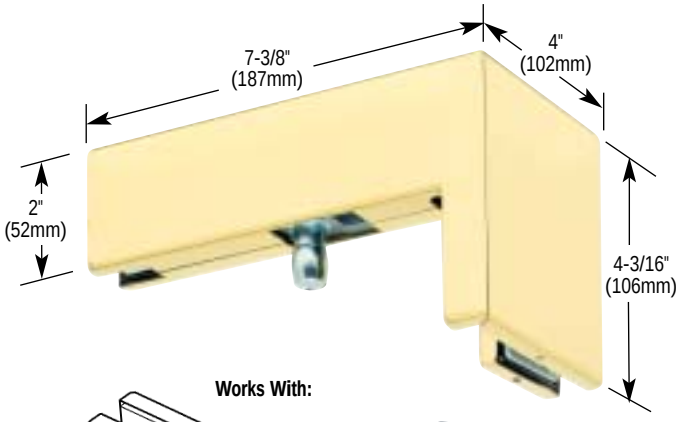
High Density Cast Body;
1NT300 Top Pivot Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

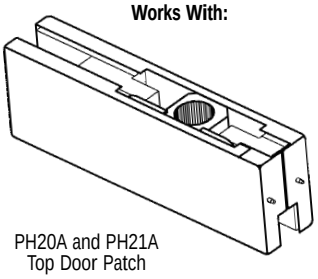
For Use With:
PH20A American Top Door Patch
PH21A European Top Door Patch

Glass Fabrication Required:
Three 3/4" (19mm) Diameter Holes
and One Corner Notch;
Door and Panels Flat Polished;
No Miters Required.

For single doors, the insert can be removed on the non-hinged side, allowing for a double swinging door. A 1NT306 Transom Patch Door Stop Insert can be used to create a one way door.



Works With:



PH20A and PH21A Top Door Patch

1NT300 Insert
(Included)

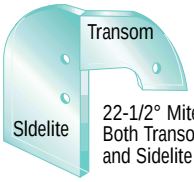
COMPLETE 90° RIGHT HAND SIDELITE MOUNTED TRANSOM PATCH

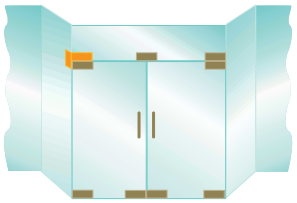
CAT. NO.	FINISH
PH42RA	Aluminum
PH42RBR	Polished Brass
PH42RBS	Brushed Stainless
PH42RPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL 135° Left Hand Sidelite Mounted Transom Patch, 1NT300 Insert and Cover Plates (Viewed from Outside)

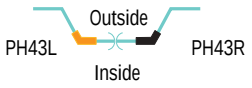
Works with Both 2-3/4" (70mm) and 2-9/16" (65mm) Pivot Setback Door Patch Fittings



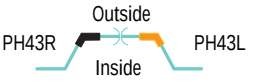


Typical Recessed Store Entrance
(Viewed from the Inside)

Top View as Illustrated Above



Top View Opposite from Illustration Above



INCLUDES:

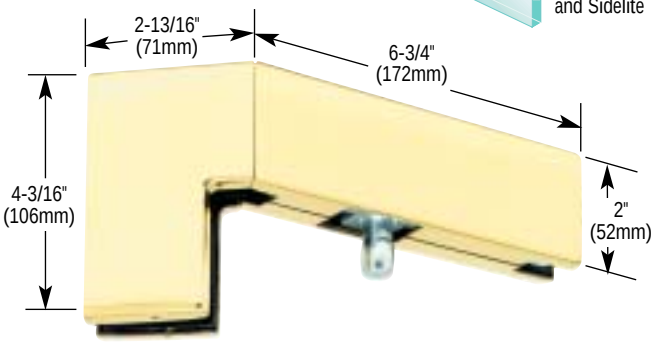
High Density Cast Body;
1NT300 Top Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

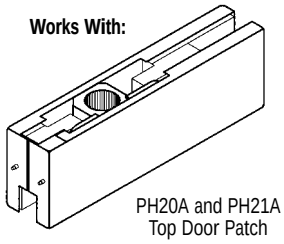
For Use With:
PH20A American Top Door Patch
PH21A European Top Door Patch

Glass Fabrication Required:
Three 3/4" (19mm) Diameter Holes
and One Corner Notch;
Door is Square Cut;
Sidelite and Transom
Require 22-1/2° Miters.

For single doors, the insert can be removed on the non-hinged side, allowing for a double swinging door. A 1NT306 Transom Patch Door Stop Insert can be used to create a one way door.



Works With:



PH20A and PH21A
Top Door Patch

1NT300 Insert
(Included)

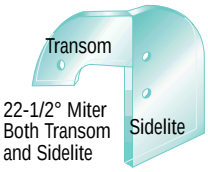
COMPLETE 135° LEFT HAND SIDELITE MOUNTED TRANSOM PATCH

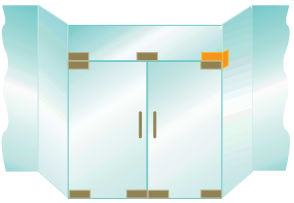
CAT. NO.	FINISH
PH43LA	Aluminum
PH43LBR	Polished Brass
PH43LBS	Brushed Stainless
PH43LPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL 135° Right Hand Sidelite Mounted Transom Patch, 1NT300 Insert and Cover Plates (Viewed from Outside)

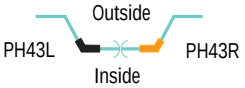
Works with Both 2-3/4" (70mm) and 2-9/16" (65mm) Pivot Setback Door Patch Fittings





Typical Recessed Store Entrance
(Viewed from the Inside)

Top View as Illustrated Above



Top View Opposite from Illustration Above

INCLUDES:

High Density Cast Body;
1NT300 Top Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

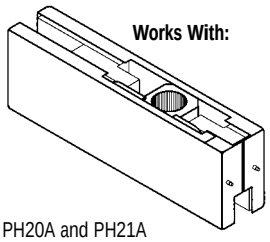
SPECIFICATIONS:

For Use With:
PH20A American Top Door Patch
PH21A European Top Door Patch

Glass Fabrication Required:
Three 3/4" (19mm) Diameter Holes
and One Corner Notch;
Door is Square Cut;
Sidelite and Transom
Require 22-1/2° Miters.

For single doors, the insert can be removed on the non-hinged side, allowing for a double swinging door. A 1NT306 Transom Patch Door Stop Insert can be used to create a one way door.

Works With:



PH20A and PH21A
Top Door Patch

1NT300 Insert
(Included)

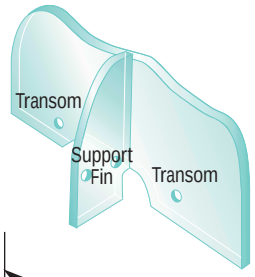
COMPLETE 135° RIGHT HAND SIDELITE MOUNTED TRANSOM PATCH

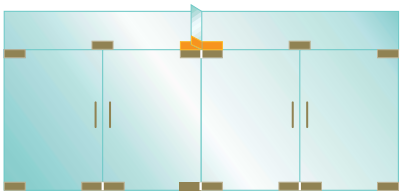
CAT. NO.	FINISH
PH43RA	Aluminum
PH43RBR	Polished Brass
PH43RBS	Brushed Stainless
PH43RPS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

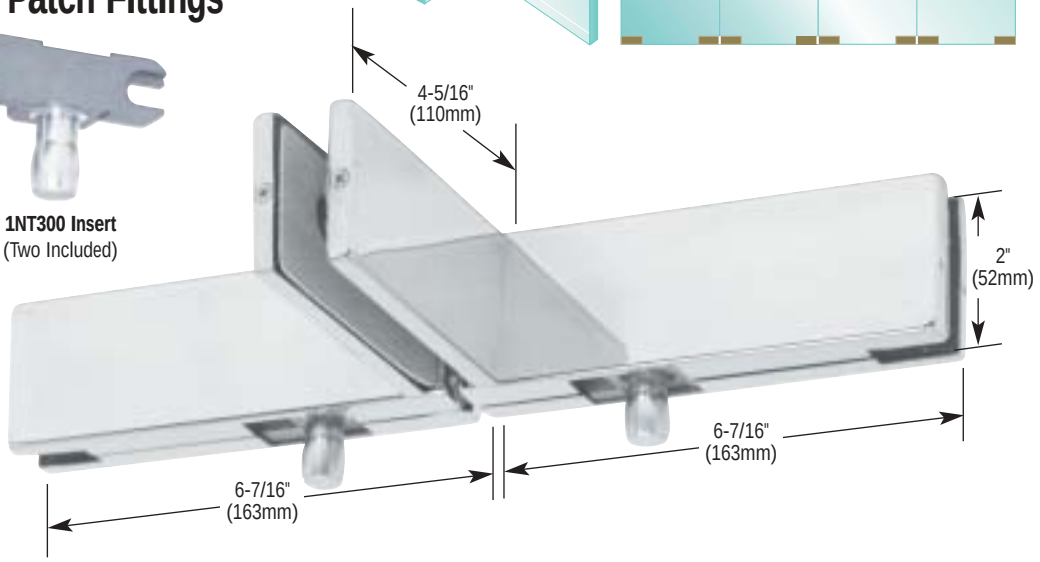
CRL Double Transom Patch with Support Fin Bracket, Two 1NT300 Inserts and Cover Plates

Works with Both 2-3/4" (70mm) and 2-9/16" (65mm) Pivot Setback Door Patch Fittings





1NT300 Insert
(Two Included)



INCLUDES:

High Density Cast Body;
Two 1NT300 Top Pivot Inserts;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

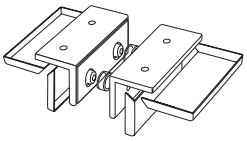
SPECIFICATIONS:

For Use With:
PH20A and PH21A Top Door Patches and
PH94 Ceiling Mounted Support Fin Bracket

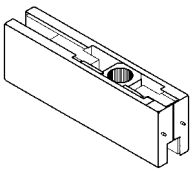
Glass Fabrication Required:
For Split Transom (Two Lites of Glass):
Four 3/4" (19mm) Diameter Holes and
Three Corner Notches for Single Transom
(One Lite of Glass): Four 3/4" (19mm) Diameter Holes,
One Corner Notch and One U-Shaped Cutout

The PH51 is designed to provide two top pivoting points for side-by-side double doors. It will work in a one lite or two lite split transom. The support fin glass should be sized to approved design criteria (refer to GANA or Manufacturer's Manual), and secured to the ceiling with a PH94 Ceiling Mounted Support Fin Bracket.

Works With:



PH94
Ceiling Mounted
Support Fin Bracket



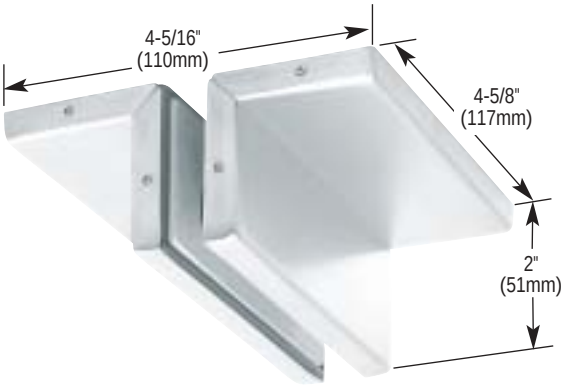
PH20A or PH21A
Top Door Patches

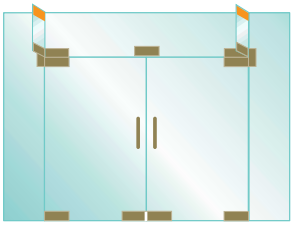
COMPLETE DOUBLE TRANSOM PATCH WITH SUPPORT FIN BRACKET

CAT. NO.	FINISH
PH51A	Aluminum
PH51BR	Polished Brass
PH51BS	Brushed Stainless
PH51PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL Ceiling Mounted Support Fin Bracket and Cover Plates





INCLUDES:

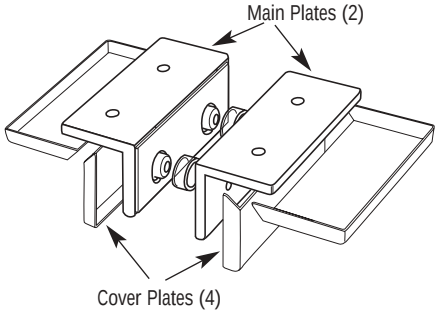
High Density Cast Body;
Cover Plates (Finish of Your Choice);
Mounting Plate;
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
All Patch Fittings Having a Support Fin Bracket

Glass Fabrication Required:
Two 3/4" (19mm) Diameter Holes

The Ceiling Mounted Support Fin Bracket is used to secure glass support fins to the ceiling. The support fin glass should be sized to approved design criteria (refer to GANA or Manufacturer's Manual).

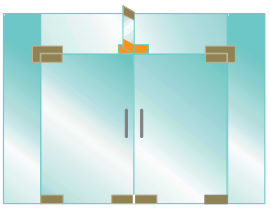


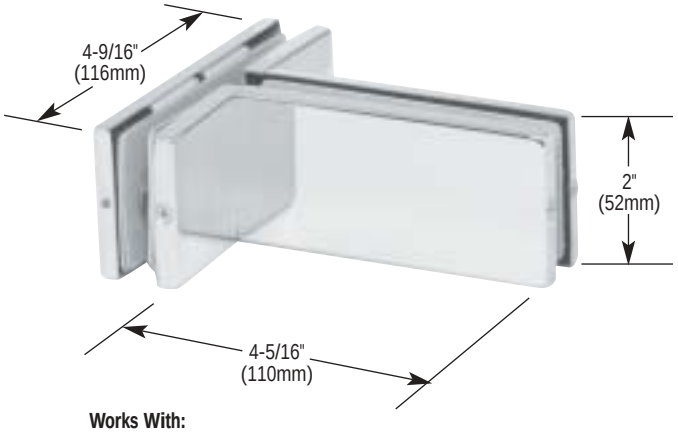
COMPLETE CEILING MOUNTED SUPPORT FIN BRACKET

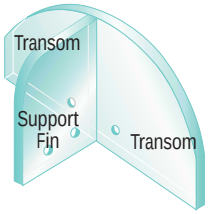
CAT. NO.	FINISH
PH94A	Aluminum
PH94DU	Bronze
PH94BR	Polished Brass
PH94BS	Brushed Stainless
PH94PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL Transom Mounted Patch Connector with Support Fin Bracket







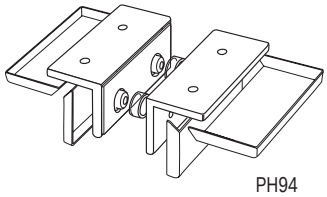
INCLUDES:
High Density Cast Body;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
PH94 Ceiling Mounted Support Fin Bracket and Transom Glass

Glass Fabrication Required:
Four 3/4" (19mm) Diameter Holes

Works With:



PH94
Ceiling Mounted
Support Fin Bracket

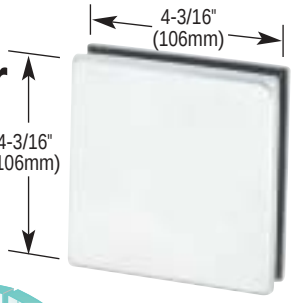
This Transom Mounted Patch Connector with Support Fin Bracket is used on one lite or two lite transoms that require additional lateral support to achieve the desired structural strength. The support fin glass should be sized to approved design criteria (refer to GANA or Manufacturer's Manual), and secured to the ceiling with a PH94 Ceiling Mounted Support Fin Bracket.

COMPLETE TRANSOM MOUNTED PATCH CONNECTOR WITH SUPPORT FIN BRACKET

CAT. NO.	FINISH
PH71A	Aluminum
PH71BR	Polished Brass
PH71BS	Brushed Stainless
PH71PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL Four-Way Patch Connector

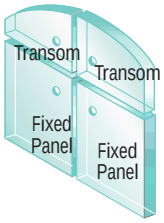


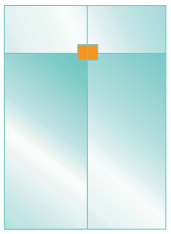
INCLUDES:
High Density Cast Body;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

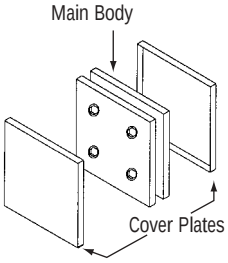
For Use With:
A Four Lite Glass Junction

Glass Fabrication Required:
Four 3/4" (19mm) Diameter Holes





This Four-Way Patch Connector is used for joining a four lite glass junction. It should be pre-determined that the junction has enough structural strength, and does not require a support fin.

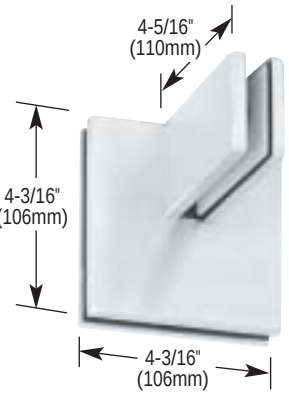


COMPLETE FOUR-WAY PATCH CONNECTOR

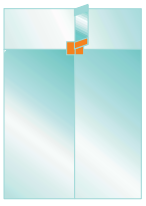
CAT. NO.	FINISH
PH80A	Aluminum
PH80BR	Polished Brass
PH80BS	Brushed Stainless
PH80PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL Four-Way Patch Connector with Support Fin Bracket



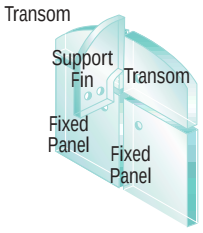
INCLUDES:
High Density Cast Body;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

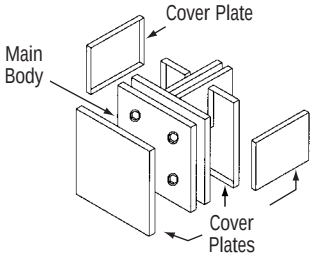


SPECIFICATIONS:

For Use With:
PH94 Ceiling Mounted Support Fin Bracket;
A Four Lite Glass Junction in Conjunction with a Support Fin.

Glass Fabrication Required:
Six 3/4" (19mm) Diameter Holes and Corner Notch





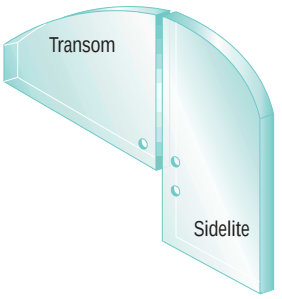
This Four-Way Patch Connector with Support Fin Bracket is used for joining a four lite glass junction that needs extra support to achieve the required structural strength. The support fin glass should be sized to approved criteria (refer to GANA or Manufacturer's Manual), and secured to the ceiling with a PH94 Ceiling Mounted Support Fin Bracket.

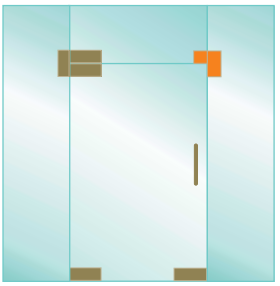
COMPLETE FOUR-WAY PATCH CONNECTOR WITH SUPPORT FIN BRACKET

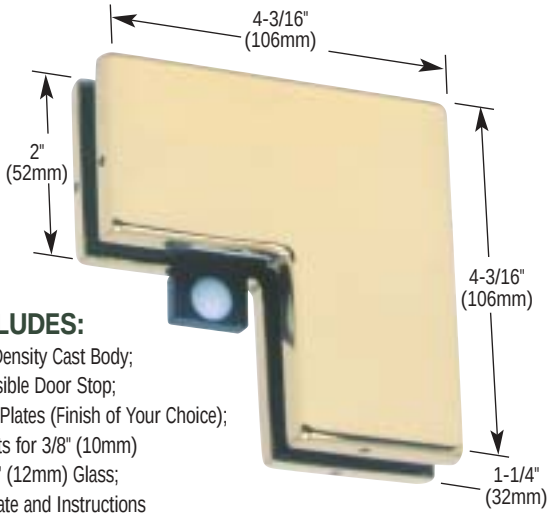
CAT. NO.	FINISH
PH81A	Aluminum
PH81BR	Polished Brass
PH81BS	Brushed Stainless
PH81PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

CRL Sidelite Mounted Transom Patch Connector with Reversible Door Stop







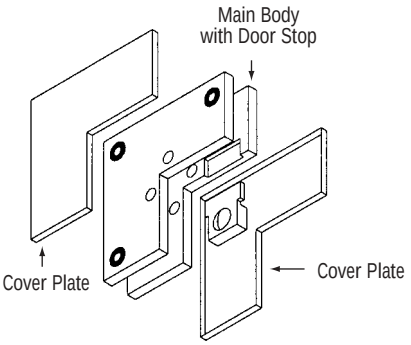
INCLUDES:

High Density Cast Body;
Reversible Door Stop;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
A Transom and Sidelite in Conjunction with a Single Door to Make it Swing One Way

Glass Fabrication Required:
Three 3/4" (19mm) Diameter Holes



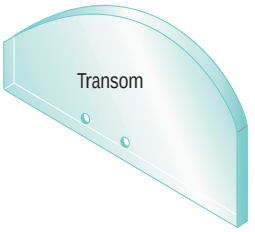
COMPLETE SIDELITE MOUNTED TRANSOM PATCH CONNECTOR WITH REVERSIBLE DOOR STOP

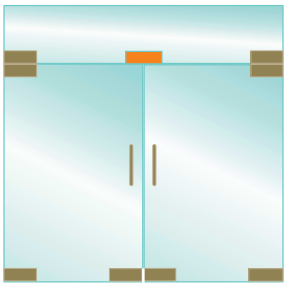
CAT. NO.	FINISH
PH60A	Aluminum
PH60BR	Polished Brass
PH60BS	Brushed Stainless
PH60PS	Polished Stainless

Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, See Page F61.

This Sidelite Mounted Transom Patch Connector with Reversible Door Stop is used to connect a sidelite and transom together. It is usually used on the strike or swinging side of the door. By simply turning the Reversible Door Stop around, you have the choice of making the door swing out or in. By removing the Reversible Door Stop, you will have a double acting door.

CRL Transom Mounted Patch Connector with Two Reversible Door Stops





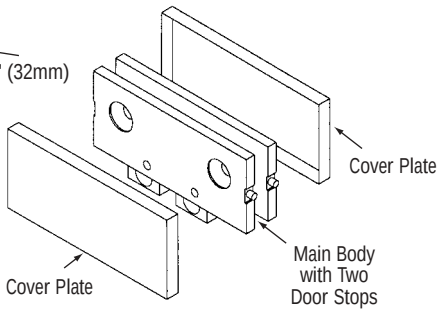
INCLUDES:

High Density Cast Body;
Two Reversible Door Stops;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
A Transom in Conjunction with Double Doors to Make the Doors Swing One Way, or as a Glass Connector Only

Glass Fabrication Required:
Two 3/4" (19mm) Diameter Holes



COMPLETE TRANSOM MOUNTED PATCH CONNECTOR WITH TWO REVERSIBLE DOOR STOPS

CAT. NO.	FINISH
PH70A	Aluminum
PH70BR	Polished Brass
PH70BS	Brushed Stainless
PH70PS	Polished Stainless

Patch Fittings can be combined for quantity pricing.
For Replacement Cover Plates, see Page F61.

This Transom Mounted Patch Connector with Two Reversible Door Stops is used on the bottom of the transom to create a door stop for double doors. The Reversible Door Stops can be set for the doors to only open in or out. You can also make it so one door opens in and the other door opens out. The Connector can be used on one lite or two lite transoms, and with the stops removed can be used as a Connector only. When used as Connector only, it is suggested that you turn the fitting around so the notches in the Cover Plates face up, and are not visible.

CRL Replacement Cover Plates for Patch Fittings

For PH10, PH11, PH20 and PH21 Door Patch Fittings

INCLUDES:
1 Set of Two Cover Plates

CAT. NO.	FINISH
1NT101A	Aluminum
1NT101DU	Bronze
1NT101BR	Polished Brass
1NT101BS	Brushed Stainless
1NT101PS	Polished Stainless

Replacement Cover Plates can be combined for quantity pricing.

For PH34 Wall Mounted Transom Patch Fittings

INCLUDES:
1 Set of Two Cover Plates

CAT. NO.	FINISH
1NT102A	Aluminum
1NT102DU	Bronze
1NT102BR	Polished Brass
1NT102BS	Brushed Stainless
1NT102PS	Polished Stainless

Replacement Cover Plates can be combined for quantity pricing.

For PH40 Sidelite Mounted Transom Patch Fittings

INCLUDES:
1 Set of Two Cover Plates

CAT. NO.	FINISH
1NT103A	Aluminum
1NT103DU	Bronze
1NT103BR	Polished Brass
1NT103BS	Brushed Stainless
1NT103PS	Polished Stainless

Replacement Cover Plates can be combined for quantity pricing.

Replacement Cover Plates for Other Patch Fittings are Available on Special Order.

CRL Replacement Gaskets and Grommets for Patch Fittings

For PH10, PH11, PH20, PH21 and PH34 Patch Fittings

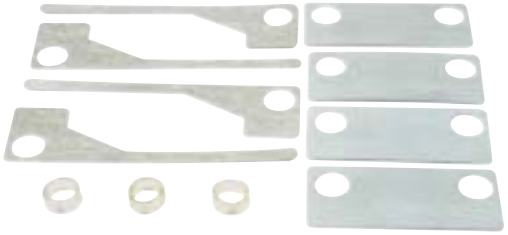
GASKET SETS FOR:
PH10 and PH11 Bottom Door Patches;
PH20 and PH21 Top Door Patches;
PH34 Wall Mounted Transom Patch

SET CONTAINS:
4 Each Gaskets
[Use 4 for 3/8" (10mm) Glass, and 2 for 1/2" (12mm) Glass];
1 Each Translucent Grommet

CAT. NO.	DESCRIPTION
GS101	Set of Gaskets and Grommets

Replacement Gaskets can be combined for quantity pricing.

For PH40 Sidelite Mounted Transom Patch Fittings



GASKET SET FOR:
PH40 Sidelite Mounted Transom Patch

CAT. NO.	DESCRIPTION
GS103	Set of Gaskets and Grommets

Replacement Gaskets can be combined for quantity pricing.

SET CONTAINS:
8 Each Gaskets
[Use 8 for 3/8" (10mm) Glass, and 4 for 1/2" (12mm) Glass];
3 Each Translucent Grommets

Replacement Gaskets for Other Patch Fittings are Available on Special Order.

CRL Replacement Screws

M8X25F M6X25F M6X20C M6X175F M4X7UC

Replacement Screws are available for most popular Patch Hardware items shown in this catalog. Sold in packs of 10, a convenient way to have extra screws available and not incur costly delays from lost or damaged screws.

- **Popular Screw Types for Patch Hardware**
- **Sold in Convenient Packs of 10**

REPLACEMENT HEX SOCKET MACHINE OR ALLEN SCREWS

CAT. NO.	SIZE	DESCRIPTION	FITS
M8X25F	8mm x 25mm	Flat Head Hex Socket	All Support Fin Brackets
M6X25F	6mm x 25mm	Flat Head Hex Socket	All Patch Fitting Main Bodies
M6X20C	6mm x 20mm	Cap Head Hex Socket	1NT300, 1NT303, 1NT306, AMR305 Inserts
M6X175F	6mm x 17.5mm	Flat Head Hex Socket	1NT301, 1NT302, 1NT304 Inserts
M4X7UC	4mm x 7mm	Undercut Allen	Cover Plates

Replacement Screw Packs can be combined for quantity pricing.

CRL Transom Patch Top Pivot Insert

INCLUDES:
1 Each: 1NT300 Top Pivot Insert;
2 Each: Hex Head Cap Screws for Attaching Insert to Transom Patch

SPECIFICATIONS:
For Use With:
PH34, PH40, PH41L, PH41R, PH42L, PH42R, PH43L, PH43R and PH51 Transom Patch Fittings

Connects To:
PH20A and PH21A Top Door Patch Fittings

This Top Pivot Insert is used in a variety of Transom Patch Fittings to provide a top pivoting pin to which the Top Door Patch Fitting connects.

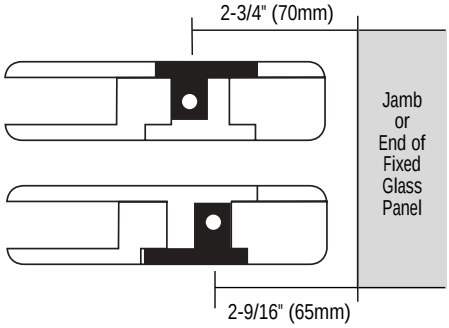
IMPORTANT INFORMATION:
The 1NT300 Top Pivot Insert is reversible. When used with the International Series Transom Patch Fittings (at right), it allows for the use of either PH20A (American 2-3/4" Pivot Setback) or PH21A (European 2-9/16" Pivot Setback) Top Door Patch Fittings by simply turning the Top Pivot Insert around in the Transom Patch Fitting.

International Series Transom Patch Fittings

- PH34 Wall Mounted Transom Patch
- PH40 Sidelite Mounted Transom Patch
- PH41L Left Hand Sidelite Mounted Transom Patch with Support Fin
- PH41R Right Hand Sidelite Mounted Transom Patch with Support Fin
- PH42L Left Hand 90 Degree Sidelite Mounted Transom Patch
- PH42R Right Hand 90 Degree Sidelite Mounted Transom Patch
- PH43L Left Hand 135 Degree Sidelite Mounted Transom Patch
- PH43R Right Hand 135 Degree Sidelite Mounted Transom Patch
- PH51 Double Transom Patch with Support Fin

American
PH20 Top or PH10 Bottom Door Patch Fitting Configuration

European
PH21 Top or PH11 Bottom Door Patch Fitting Configuration



COMPLETE TRANSOM PATCH TOP PIVOT INSERT

CAT. NO.	DESCRIPTION
1NT300	Top Pivot Insert with Screws

All Patch Inserts can be combined for quantity pricing.

CRL Transom Patch Door Stop Insert

INCLUDES:
1 Each: Insert with Door Stop
2 Each: Hex Head Cap Screws for Attaching Insert to Transom Patch

SPECIFICATIONS:
For Use With:
PH34, PH40, PH41L, PH41R, PH42L, PH42R, PH43L, PH43R and PH51 Transom Patch Fittings to Create a Door Stop

This Door Stop Insert can be used as a door stop in a variety of Transom Patch Fittings to make the door a one way door.

COMPLETE TRANSOM PATCH DOOR STOP INSERT

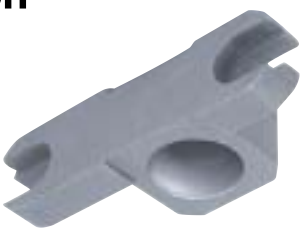
CAT. NO.	DESCRIPTION
1NT306	Door Stop Insert with Screws

All Patch Inserts can be combined for quantity pricing.

CRL Transom Patch Keeper Insert for AMR205 Lock

INCLUDES:
1 Each: AMR305 Keeper Insert;
2 Each: Hex Head Cap Screws for Attaching Insert to Transom Patch

SPECIFICATIONS:
For Use With:
PH34, PH40, PH41L, PH41R PH42L, PH42R, PH43L, PH43R and PH51 Transom Patch Fittings to Create a Keeper for the AMR205 Lock



When used with a variety of Transom Patch Fittings, this Patch Keeper Insert allows the use of the AMR205 Lock on the top of the door. The Keeper Insert is put into the Transom Patch Fitting, and creates a receptacle for the lock's bolt.

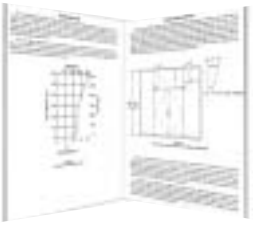
COMPLETE TRANSOM PATCH KEEPER INSERT FOR AMR205 LOCK

CAT. NO.	DESCRIPTION
AMR305	Transom Patch Keeper Insert with Screws

All Patch Inserts can be combined for quantity pricing.

Important Design Information:

When you begin fabricating frameless heavy glass doors and entrance systems, many factors come into play. Size limitations, structural and design considerations, glass thickness, and do's and don'ts must all be considered. The best reference source for this type of information is the new guide recently published by the Glass Association of North America (GANA). The Fully Tempered Heavy Glass Door and Entrance Systems Design Guide is an excellent reference guide for designers.



To Order This Publication Contact:
Glass Association of North America
2945 SW Wanamaker Dr Suite A
Topeka, KS. 66614-5321
Phone: (785) 271-0208
Fax: (785) 271-0166
E-mail: gana@glasswebsite.com

CRL Adjustable Top Door Patch Insert

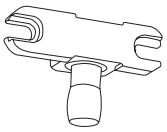
INCLUDES:
1 Each: 1NT303 Adjustable Top Door Patch Insert;
2 Each: Hex Head Cap Screws for Attaching Insert to the Top Door Patch

SPECIFICATIONS:
For Use With:
PH20 and PH21 Top Door Patch Fittings

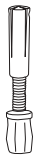
Connects To:
All Transom Patch Fittings with 1NT300 Top Pivot Insert; 1NT401 Surface Mounted Top Pivot; 1NT405 Threaded Top Pivot; CRL9040WBP Walking Beam Pivot

Accepts:
Pivot Diameter of 19/32" (15mm)

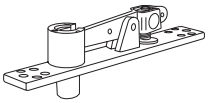
Works With:



1NT300 Top Pivot Insert



1NT405 Threaded Top Pivot



CRL9040WBP Walking Beam Pivot

1NT401 Surface Mounted Top Pivot

COMPLETE ADJUSTABLE TOP DOOR PATCH INSERT

CAT. NO.	DESCRIPTION
1NT303	Adjustable Top Door Patch Insert with Screws

All Patch Inserts can be combined for quantity pricing.

CRL Top Door Closer Patch Insert

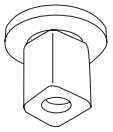
INCLUDES:
1 Each: 1NT304 Top Door Closer Patch Insert;
2 Each: Flat Head Hex Screws for Attaching Insert to the Top Door Patch

SPECIFICATIONS:
For Use With:
PH20 and PH21 Top Door Patch Fittings

Connects To:
CRL, Jackson, International and Many Other Concealed Overhead Door Closers

Features:
Two Piece Construction Allows for Front Loading of Door

Works With:



Concealed Overhead Door Closers with 9/16" Square Spindle

COMPLETE TOP DOOR CLOSER PATCH INSERT

CAT. NO.	DESCRIPTION
1NT304	Top Door Closer Patch Insert with Screws

All Patch Inserts can be combined for quantity pricing.

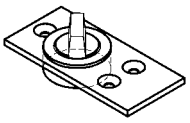
CRL Bottom Door Patch Insert

INCLUDES:
1 Each: 1NT301 Bottom Door Patch Insert;
2 Each: Hex Head Cap Screws for Attaching Insert to the Bottom Door Patch

SPECIFICATIONS:
For Use With:
PH10 and PH11 Bottom Door Patch Fittings

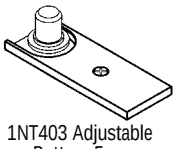
Connects To:
CRL8300 and CRL8400 Series Floor Closers; Floor Closers with International Type Pivot; 1NT402 Bottom Free Swinging Pivot; 1NT403 and 1NT406 Adjustable Bottom Free Swinging Pivots

Works With:

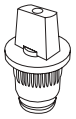


1NT402 Bottom Free Swinging Pivot

Floor Closers with This Type of Spindle



1NT403 Adjustable Bottom Free Swinging Pivot



1NT406 Adjustable Bottom Free Swinging Pivot

COMPLETE BOTTOM DOOR PATCH INSERT

CAT. NO.	DESCRIPTION
1NT301	Bottom Door Patch Insert with Screws

All Patch Inserts can be combined for quantity pricing.

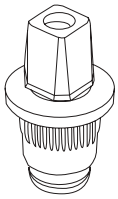
CRL Bottom Door Patch Insert

INCLUDES:
1 Each: 1NT302 Bottom Door Patch Insert;
2 Each: Flat Head Hex Screws for Attaching Insert to the Bottom Door Patch

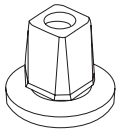
SPECIFICATIONS:
For Use With:
PH10 and PH11 Bottom Door Patch Fittings

Connects To:
Floor Closers with Casma (Speedy) Type Spindle; 1NT404 Adjustable Bottom Free Swinging Pivot

Works With:



1NT404 Adjustable Bottom Free Swinging Pivot



Floor Closers with Casma (Speedy) Tapered Square Spindle

COMPLETE BOTTOM DOOR PATCH INSERT

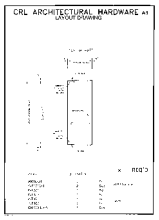
CAT. NO.	DESCRIPTION
1NT302	Bottom Door Patch Insert with Screws

All Patch Inserts can be combined for quantity pricing.

Technical Assistance and Design Criteria

C.R. Laurence Company has a Technical Sales Department to assist with design plans and installation questions concerning Patch Hardware. Your job can be made easier with the help of our Technical Sales Representatives who are trained in the newest Patch Hardware Systems, and can offer detailed diagrams and layout sheets by fax or mail.

Our Technical Sales Department can be reached Monday through Friday from 6 a.m. to 5 p.m. Pacific Time. Simply call (800) 421-6144 (U.S. and Canada) or (323) 588-1281 (International), and ask for Ext. 777. You may also fax us at (800) 587-7501 (U.S.), or (323) 584-5289 (International). Send e-mail to **techsales@crlaurence.com**



Typical Layout Sheet

CRL Surface Mounted Top Free Swinging Pivot

CAT. NO. 1NT401

INCLUDES:

1 Each: 1NT401 Surface Mounted Top Free Swinging Pivot (Mounting Screws Not Included)

SPECIFICATIONS:

For Use With:

PH20A, PH21A and EUR420 Top Door Patch Fittings, or any Top Pivot with a 19/32" (15mm) Diameter Pivot Hole

Finish: Brushed Stainless

Mounting Requirements:

Secured by two flat head screws from the bottom, or two machine screws from the top.

All Pivots can be combined for quantity pricing.

CRL Header Mounted Top Free Swinging Pivot

CAT. NO. 1NT405

INCLUDES:

1 Each: 1NT405 Header Mounted Top Free Swinging Pivot with M8 Metric Threaded Stud 1-11/16" (42mm) Long, Plus Brass Masonry Anchor

SPECIFICATIONS:

For Use With:

PH20A, PH21A and EUR420 Top Door Patch Fitting, or any Top Pivot with a 19/32" (15mm) Diameter Pivot Hole

Finish: Brushed Stainless

Mounting Requirements:

Secure to metal in a tapped M8 metric threaded hole. Secure in masonry with the Brass Masonry Anchor. Drill 3/8" (10mm) diameter, 1-1/8" (28mm) deep hole.

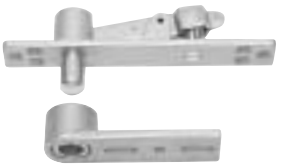
CRL Top Free Swinging Walking Beam Pivot

CAT. NO. CRL9040WBP

INCLUDES:

1 Each: CRL9040WBP Walking Beam Pivot and Top Pivot for use in Aluminum Top Rails (Mounting Screws and Mounting Clips Not Included).

SPECIFICATIONS:



(Mounts in Wood or Extruded Header)

For Use With:

PH20A, PH21A and EUR420 Top Door Patch Fitting, or any Top Pivot with a 19/32" (15mm) Diameter Pivot Hole

Finish: Cast Zinc

Mounting Requirements:

Route rectangular cutout in the header to match the Walking Beam Face Plate. In wood, route only the thickness of the Face Plate. Then route again deeper to clear the Walking Beam Mechanism. Secure with screws. On extrusions, route rectangular cutout, and secure with screws to mounting clips.

CRL Bottom Free Swinging Pivot

INCLUDES:

1 Each: 1NT402 Bottom Free Swinging Pivot;
3 Each: Flat Head Screws (for Securing Pivot)

SPECIFICATIONS:

CAT. NO. 1NT402

For Use With:

PH10C, PH11C and EUR410 Bottom Door Patch Fittings

Finish: Aluminum

Capacity: 440 lbs. (200 kg)

Mounting Requirements:

Three small holes for plastic anchors, and one 1-1/2" (38mm) diameter, 3/8" (10mm) deep hole for pivot cup.

CRL Adjustable Bottom Free Swinging Pivot

INCLUDES:

1 Each: Adjustable Bottom Free Swinging Pivot, Cover Plate, Machine Screw (to Secure Cover Plate);
2 Each: Flat Head Screws (for Securing Pivot)

SPECIFICATIONS:

CAT. NO. 1NT403

For Use With:

PH10C, PH11C and EUR410 Bottom Door Patch Fittings

Capacity: 220 lbs. (100 kg)

Finish: Brushed Stainless

Height Adjustment:

3/16" (5mm)

Mounting Requirements:

Two small holes for plastic anchors, and one 15/16" (24mm) diameter, 3/8" (10mm) deep hole for pivot cup.

CRL Adjustable Bottom Free Swinging Pivot

SPECIFICATIONS:

For Use With:

PH10D and PH11D Bottom Door Patch Fittings

Capacity: 220 lbs. (100 kg)

Finish: Brass

Height Adjustment: 1/4" (6mm)

Mounting Requirements:

One 7/8" (22mm) diameter, 1-1/8" (28mm) deep hole.

CAT. NO. 1NT404

INCLUDES:

1 Each: 1NT404 Adjustable Bottom Free Swinging Pivot

CRL Adjustable Bottom Free Swinging Pivot

SPECIFICATIONS:

For Use With:

PH10C and PH11C Bottom Door Patch Fittings

Capacity: 220 lbs. (100 kg)

Finish: Brass

Height Adjustment: 1/4" (6mm)

Mounting Requirements:

One 7/8" (22mm) diameter, 1-1/8" (28mm) deep hole.

CAT. NO. 1NT406

INCLUDES:

1 Each: 1NT406 Adjustable Bottom Free Swinging Pivot

CRL Dust Proof Keeper with Mounting Plate

SPECIFICATIONS:

For Use With:
AMR205 Patch Lock
Fabrication Required:
7/8" (22mm) Diameter Hole Drilled in Floor and Two Screw Anchor Holes
Accepts: 15/32" (12mm) Plunger

INCLUDES:

1 Each: Dust Proof Keeper with Mounting Plate
2 Each: Flat Head Screws

DUST PROOF KEEPER WITH MOUNTING PLATE

CAT. NO.	LOCKABLE	FINISH
AMR208BR	No	Brass
AMR208PS	No	Polished Stainless
AMR209BR	Yes	Brass
AMR209PS	Yes	Polished Stainless

All Keepers can be combined for quantity pricing.

CRL Dust Proof Keeper

INCLUDES:

1 Each: Dust Proof Keeper

SPECIFICATIONS:

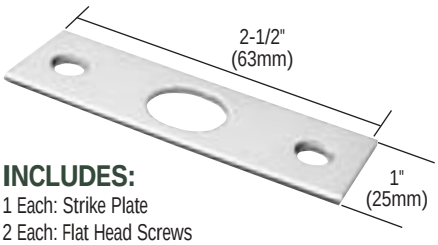
For Use With: AMR205 Patch Lock
Finishes: Polished Stainless or Brass
Fabrication Required:
7/8" (22mm) Diameter Hole Drilled in Floor
Accepts: 15/32" (12mm) Plunger

DUST PROOF KEEPER FOR AMR205 PATCH LOCK

CAT. NO.	FINISH
AMR207BR	Brass
AMR207PS	Polished Stainless

All Keepers can be combished for quantity pricing.

CRL Strike Plate



INCLUDES:

1 Each: Strike Plate
2 Each: Flat Head Screws

SPECIFICATIONS:

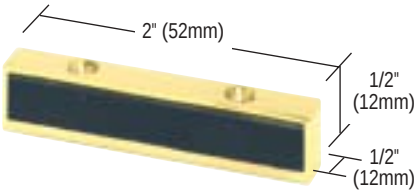
For Use With:
AMR205 Series Patch Lock;
777S or 777SL Door Rail Locks
Finishes: Clear Anodized, Duranodic Bronze, Polished Brass, Brushed Stainless, Polished Stainless
Accepts: Lock Bolts up to 11/16" (17mm) Diameter

STRIKE PLATE

CAT. NO.	FINISH
777SPSA	Clear Anodized
777SPDU	Duranodic Bronze
777SPBS	Brushed Stainless
777SPPS	Polished Stainless
777SPPB	Polished Brass

Finishes can be combined for quantity pricing.

CRL Header Mounted Single Door Stop



INCLUDES:

1 Each: Header Mounted Single Door Stop (Screws Not Included)

SPECIFICATIONS:

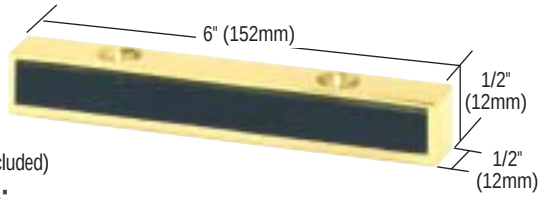
Finishes:
Aluminum,
Polished Brass,
Brushed Stainless,
Polished Stainless
For Use With:
Continuous Header

HEADER MOUNTED SINGLE DOOR STOP

CAT. NO.	FINISH
1NT307A	Aluminum
1NT307BR	Polished Brass
1NT307BS	Brushed Stainless
1NT307PS	Polished Stainless

All Door Stops can be combined for quantity pricing.

CRL Header Mounted Double Door Stop



INCLUDES:

1 Each: Header Mounted Double Door Stop (Screws Not Included)

SPECIFICATIONS:

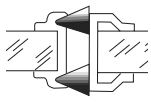
Finishes:
Aluminum,
Polished Brass,
Brushed Stainless,
Polished Stainless
For Use With:
Continuous Header

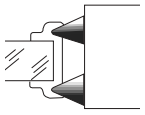
HEADER MOUNTED DOUBLE DOOR STOP

CAT. NO.	FINISH
1NT308A	Aluminum
1NT308BR	Polished Brass
1NT308BS	Brushed Stainless
1NT308PS	Polished Stainless

All Door Stops can be combined for quantity pricing.

CRL Aluminum Edge Weatherstrips for 1/2" Glass Doors





• Seal Gaps from 3/8" to 1/2" Wide

These Glass Door Edge Weatherstrips were designed to prevent drafts and dust from entering between gaps in glass door installations. Use a Male Strip and a Female Strip with Pile on double doors; on single doors only a Female Strip with Pile is required. Seals gaps from 3/8" to 1/2". 96" stock lengths can be shipped U.P.S.

CAT. NO.	STRIP TYPE	FINISH
DW12MBA	Male (No Pile)	Brite Anodized
DW12FBA	Female (with Pile)	Brite Anodized
DW12MDU	Male (No Pile)	Duranodic Bronze
DW12FDU	Female (with Pile)	Duranodic Bronze

Types and Finishes can be combined for quantity pricing.

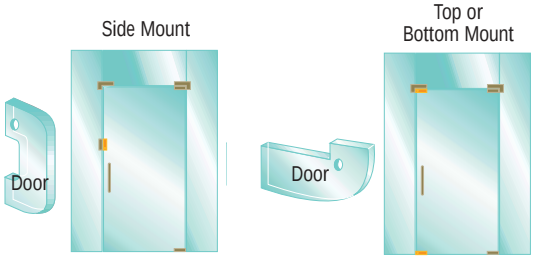
CRL Clear Polycarbonate Wipe with Pile Weatherstrip

• Eliminates Drafts Between Doors

This Clear Polycarbonate with Pile Weatherstrip prevents drafts from entering between glass doors. Simply snap over the edge of 1/2" glass. No tools required to install. 98" stock lengths can be shipped U.P.S.

CAT. NO.	GLASS THICKNESS	RECOMMENDED CLEARANCE
CW12	1/2"	5/16" to 3/8"

CRL North American AMR Series Patch Lock
(End Load Cylinders)



INCLUDES:
High Density Cast Body
with Lock Mechanism;
Keeper with Screws;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

DOES NOT INCLUDE:
Double Keyed Cylinders;
Keyed Cylinder and Thumbturn;
Optional Keepers
(Must Be Ordered Separately)

SPECIFICATIONS:
For Use With:

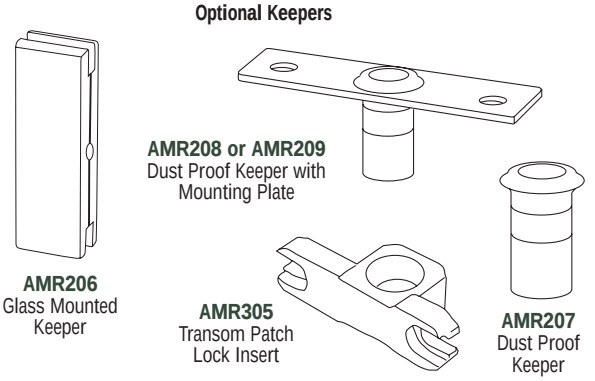
AMR206 Glass Mounted Keeper;
AMR207 Dust Proof Keeper;
AMR208 or AMR209 Dust Proof
Keeper with Mounting Plate;
AMR305 Transom Patch Lock Insert

Glass Fabrication Required:

Top or Bottom Mount: One 3/4" (19mm) Diameter Hole and One Corner Notch

Side Mount: One 3/4" (19mm) Diameter Hole and One U-Cutout (Hole on Top)

Optional Keepers



The AMR205 American Style Patch Lock can be mounted on the top or bottom of doors. It can also be used on the vertical edge of the door, and secured to a jamb with the Keeper that is supplied with the unit, or to a glass panel or door using the AMR206 Sidelite Mount Keeper (page F67). A variety of optional keepers are available that can accommodate most types of installations.

COMPLETE NORTH AMERICAN PATCH LOCK

CAT. NO.	FINISH
AMR205A	Aluminum
AMR205DU	Bronze
AMR205BR	Polished Brass
AMR205BS	Brushed Stainless
AMR205PS	Polished Stainless

All Patch Locks can be combined for quantity pricing.

DOUBLE KEYED CYLINDERS

CAT. NO.	FINISH
AMR205CCA	Aluminum
AMR205CCDU	Bronze
AMR205CCBR	Polished Brass
AMR205CCBS	Brushed Stainless
AMR205CCPS	Polished Stainless

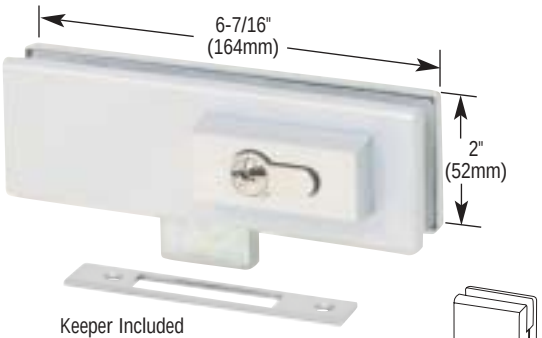
All Keyed Cylinders can be combined for quantity pricing.

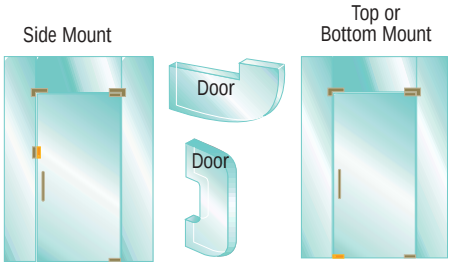
KEYED CYLINDER AND THUMBTURN

CAT. NO.	FINISH
AMR205CTA	Aluminum
AMR205CTDU	Bronze
AMR205CTBR	Polished Brass
AMR205CTBS	Brushed Stainless
AMR205CTPS	Polished Stainless

All Keyed Cylinders can be combined for quantity pricing.

CRL European EUR Series Patch Lock
(Bottom Load Cylinders)





INCLUDES:
High Density Cast Body
with Lock Mechanism;
Keeper with Screws;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm)
or 1/2" (12mm) Glass;
Template and Instructions

DOES NOT INCLUDE:
Optional Keepers (Order Separately)

SPECIFICATIONS:
For Use With:

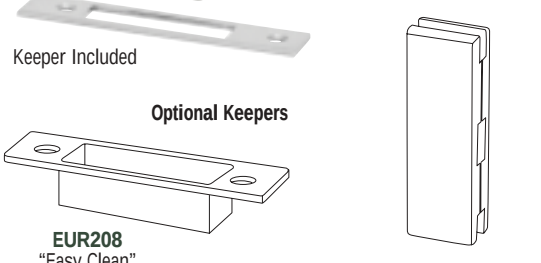
EUR206 Glass Mounted Keeper;
EUR208 "Easy Clean" Bottom Keeper

Glass Fabrication Required:

Top and Bottom Mount: One Corner Notch

Side Mount: One U-Cutout

Optional Keepers



The EUR205 European Style Patch Lock can be mounted on the top or bottom of doors, provided it is locking into a floor, threshold, side jamb or header that can accommodate the Keeper. It can also be used on the vertical edge of the door and secured to a jamb with the supplied Keeper, or to a glass panel or door using the EUR206 Sidelite Mount Keeper (page F67). If used as other than a corner mount, the closed end lips of the Cover Plates need to be trimmed back.

COMPLETE EUROPEAN PATCH LOCK

CAT. NO.	FINISH
EUR205A	Aluminum
EUR205BR	Polished Brass
EUR205BS	Brushed Stainless
EUR205PS	Polished Stainless

All Patch Locks can be combined for quantity pricing.

Replacement Locks

For a Keyed Cylinder Lock with Thumbturn to fit the EUR205 Series Patch Lock, see page F68.

CRL North American AMR Series Sidelite or Glass Door Mount Keeper for AMR205 Patch Lock

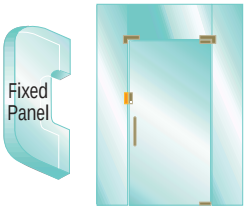
INCLUDES:

High Density Cast Body with Keeper Hole; Cover Plates (Finish of Your Choice); Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass; Template and Instructions

SPECIFICATIONS:

For Use With:
AMR205 North American Patch Lock

Glass Fabrication Required:
One U-Cutout



Sidelite Mounting Shown

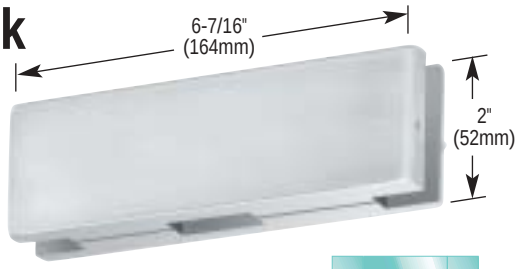
The AMR206 Sidelite or Glass Door Mount Keeper was designed to fit into a fixed glass panel or door for use with AMR205 Patch Lock. When used on a door, the door that it is mounted on should be secured in place with either a drop bolt or another lock.

COMPLETE NORTH AMERICAN GLASS MOUNTED KEEPER

CAT. NO.	FINISH
AMR206A	Aluminum
AMR206DU	Bronze
AMR206BR	Polished Brass
AMR206BS	Brushed Stainless
AMR206PS	Polished Stainless

Finishes can be combined for quantity pricing.

CRL European EUR Series Sidelite or Glass Door Mount Keeper for EUR205 Patch Lock



INCLUDES:

High Density Cast Body with Keeper Notch; Cover Plates (Finish of Your Choice); Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass; Template and Instructions

SPECIFICATIONS:

For Use With:
EUR205 European Patch Lock

Glass Fabrication Required:
One U-Cutout

Sidelite Mounting Shown

The EUR206 Sidelite or Glass Door Mount Keeper was designed to fit into a fixed glass panel or door for use with EUR205 Patch Lock. When used on a door, the door that it is mounted on should be secured in place with either a drop bolt or another lock.

COMPLETE EUROPEAN GLASS MOUNTED KEEPER

CAT. NO.	FINISH
EUR206A	Aluminum
EUR206BR	Polished Brass
EUR206BS	Brushed Stainless
EUR206PS	Polished Stainless

Finishes can be combined for quantity pricing.

CRL Glass Mounted Slip-On Patch Lock

INCLUDES:

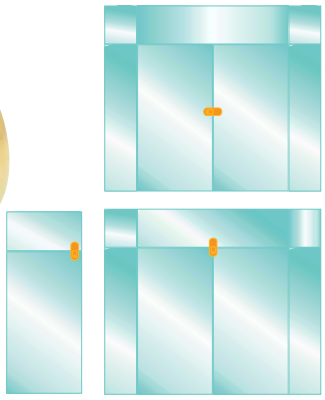
Lock Housing (Finish of Your Choice); Three Keys; Gaskets and Instructions

SPECIFICATIONS:

For Use With: 3/8" (10mm) or 1/2" (12mm) Glass Doors
No Glass Fabrication Required

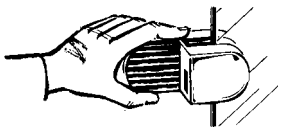
Measures:
5-3/8" Wide X
3-1/8" High

Typical Lock Positions

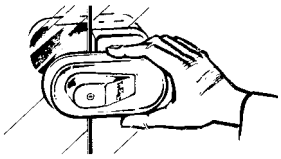


The Glass Mounted Slip-On Patch Lock affords ease of installation, removal and security without the necessity of a permanent patch lock. This lock can be used as a primary lock, and also in conjunction with a floor lock for extra security. Lock is accessed from one side only by keyed cylinder. Removal of lock during business hours provides a visually aesthetic frameless appearance. Easy slip-on feature means glass fabrication is not required. Lock is provided with three keys. Blank keys are available to match existing keys.

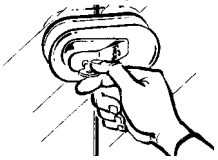
Remove it in the morning, put it back on in moments at night for absolute safety.



There is no need to put a hole in the glass or have any additional work done. Simply remove the cover plate and slide the double gasketed portion onto the fixed panel. The ribbed rubber lining creates suction, holding the lock firmly to the glass.



Close the second leaf or panel of the door. Put the second piece of the lock on. Make the bolt slide by using the key so that the lock fits perfectly and closes tightly.



With the CRL Slip-On Lock you will have absolute safety when locking up. It is extremely easy to install anywhere along the door, even if it's a two or three leaf glass door.

GLASS MOUNTED SLIP-ON PATCH LOCK

CAT. NO.	GLASS THICKNESS	FINISH
1NT685BR	3/8" (10mm)	Brass
1NT685CH	3/8" (10mm)	Chrome
1NT686BR	1/2" (12mm)	Brass
1NT686CH	1/2" (12mm)	Chrome

Includes Main Body, Set of Two Cover Plates, Three Keys.
All Patch Locks can be combined for quantity pricing.

CAT. NO.	DESCRIPTION
SL1PKEY	Blank Key for Slip-On Lock

CRL European EUR Series Glass Mounted Patch Lock with Keeper Plate

For Floor and Jamb Mount Applications

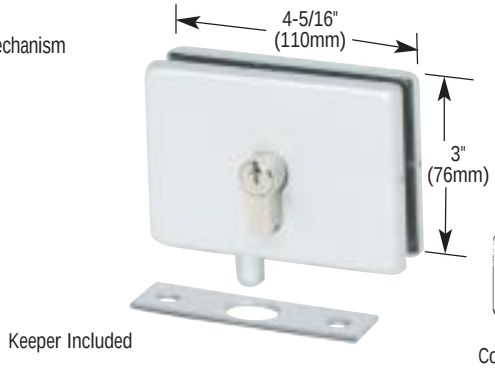
INCLUDES:

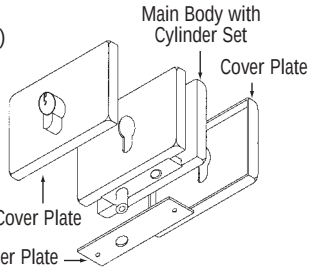
Aluminum Machined Body with Lock Mechanism and Randomly Keyed Cylinder;
Cover Plates and Keeper Plate (Finish of Your Choice);
Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

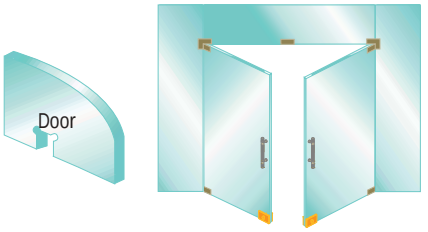
For Use With:
Supplied Keeper Plate

Glass Fabrication Required:
One Cutout





This European Glass Mounted Patch Lock with Keeper can be mounted at the bottom of the door, or on the side of the door when used in a jamb type installation.



If you want to make two or more of the EUR680 or EUR681 Series Locks work with the same key order CAT. NO. EUR680KA Keyed Alike Cylinders Only.

GLASS MOUNTED PATCH LOCK

CAT. NO.	FINISH
EUR680A	Aluminum
EUR680BR	Polished Brass
EUR680BS	Brushed Stainless
EUR680PS	Polished Stainless

Sold only as a complete lock. All Patch Locks can be combined for quantity pricing.

CRL European EUR Series Center Housed Patch Lock and Keeper

For Glass-to-Glass Mount Applications (Sold Separately)

PATCH LOCK INCLUDES:

Aluminum Machined Body with Lock Mechanism and Randomly Keyed Cylinder;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
EUR682 Center Housed Keeper (Order Separately)

Glass Fabrication Required:
One Cutout

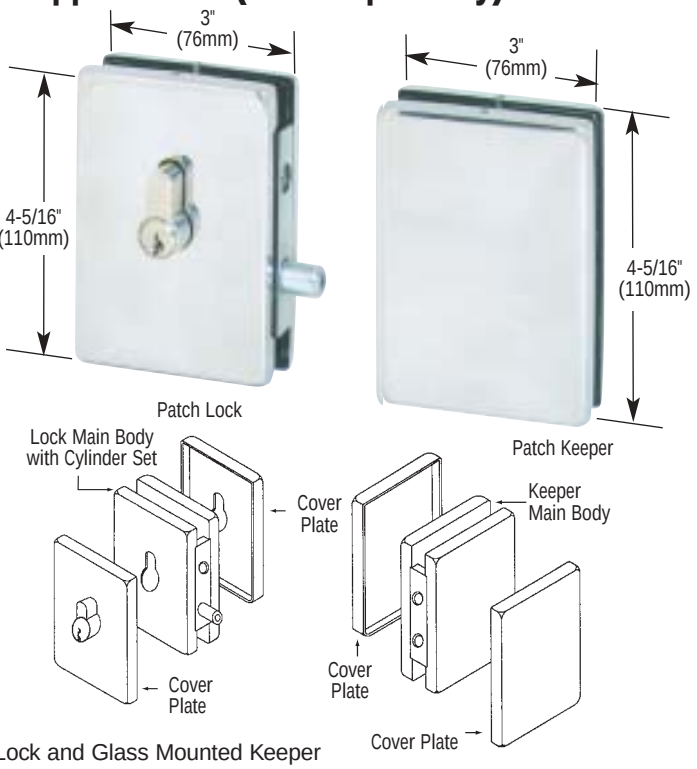
GLASS MOUNTED KEEPER INCLUDES:

Aluminum Machined Body with Keeper Hole;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
EUR681 European Center Housed Patch Lock (Order Separately)

Glass Fabrication Required:
One Cutout



The European Glass Mounted Patch Lock and Glass Mounted Keeper are designed to be used in glass-to-glass type applications. The Lock and Keeper can be used on double glass doors, or on a door and fixed glass panel. Patch Lock and Keeper must be ordered separately.

If you want to make two or more of the EUR680 or EUR681 Series Locks work with the same key order CAT. NO. EUR680KA Keyed Alike Cylinders Only.

COMPLETE CENTER HOUSED GLASS MOUNTED PATCH LOCK

CAT. NO.	FINISH
EUR681A	Aluminum
EUR681BR	Polished Brass
EUR681BS	Brushed Stainless
EUR681PS	Polished Stainless

All Patch Locks can be combined for quantity pricing.

COMPLETE CENTER HOUSED GLASS MOUNTED PATCH KEEPER

CAT. NO.	FINISH
EUR682A	Aluminum
EUR682BR	Polished Brass
EUR682BS	Brushed Stainless
EUR682PS	Polished Stainless

All Keepers can be combined for quantity pricing.

CRL Keyed Cylinder Lock with Thumbturn

Replacement Keyed Cylinder Lock with Thumbturn fits these Patch Lock Series: EUR205, EUR680, EUR681 and PTH311.

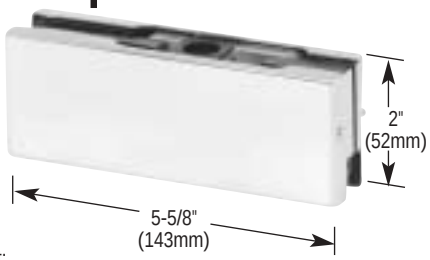
CAT. NO.	FINISH
EC3BR	Polished Brass
EC3BS	Brushed Stainless
EC3PS	Polished Stainless

Includes 3 Keys and Screw

CRL European Mid-Size Patch Fitting for the Top of the Door

2-9/16" (65mm) Pivot Setback

3/8" (10mm) Glass Only



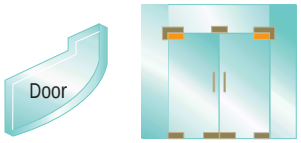
INCLUDES:

High Density Cast Body; Top Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
EUR430 European Mid-Size Wall Mount Transom Patch;
EUR440 European Mid-Size Sidelite Mount Transom Patch;
1NT401 Top Free Swinging Pivot;
1NT405 Top Free Swinging Pivot;
CRL9040WBP Walking Beam Pivot

Glass Fabrication Required:
One Corner Notch



EUROPEAN MID-SIZE TOP PATCH

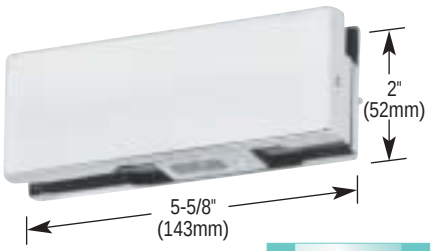
CAT. NO.	FINISH
EUR420A	Aluminum
EUR420BR	Polished Brass
EUR420BS	Brushed Stainless
EUR420PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.

CRL European Mid-Size Patch Fitting for the Bottom of the Door

2-9/16" (65mm) Pivot Setback

3/8" (10mm) Glass Only



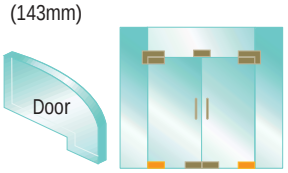
INCLUDES:

High Density Cast Body;
Bottom Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
CRL8300 Series Floor Closer;
CRL8400 Series Floor Closer;
1NT402 Bottom Free Swinging Pivot;
1NT403 Adjustable Bottom Free Swinging Pivot

Glass Fabrication Required:
One Corner Notch



EUROPEAN MID-SIZE BOTTOM PATCH

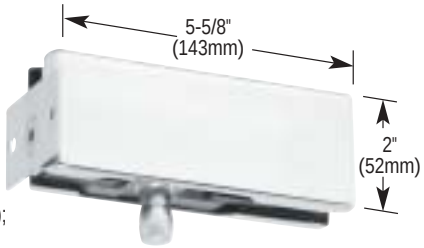
CAT. NO.	FINISH
EUR410A	Aluminum
EUR410BR	Polished Brass
EUR410BS	Brushed Stainless
EUR410PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.

CRL European Mid-Size Wall Mount Transom Patch

2-9/16" (65mm) Pivot Setback

3/8" (10mm) Glass Only



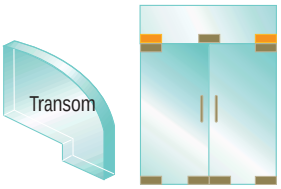
INCLUDES:

High Density Cast Body;
Top Pivot Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
EUR420 European Mid-Size Patch Fitting for the Top of the Door

Glass Fabrication Required:
One Corner Notch



The EUR430 is a European Mid-Size Wall Mount Transom Patch used to support a transom from a side jamb. For single doors, on the non-hinged side, the insert can be removed allowing for a double acting door. A 1NT306 Transom Patch Door Stop Insert can be used to create a single acting door.

MID-SIZE WALL MOUNT TRANSOM PATCH

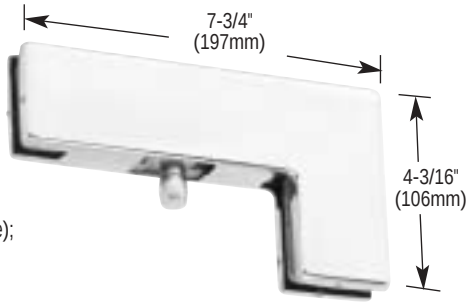
CAT. NO.	FINISH
EUR430A	Aluminum
EUR430BR	Polished Brass
EUR430BS	Brushed Stainless
EUR430PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.

CRL European Mid-Size Sidelite Mount Transom Patch

2-9/16" (65mm) Pivot Setback

3/8" (10mm) Glass Only



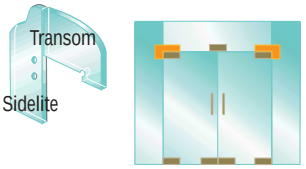
INCLUDES:

High Density Cast Body;
Top Pivot Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm) Glass;
Template and Instructions

SPECIFICATIONS:

For Use With:
EUR420 European Mid-Size Patch Fitting for the Top of the Door

Glass Fabrication Required:
One Corner Notch in Transom, Plus Two 3/4" (19mm) Diameter Holes in Sidelite



The EUR440 is a European Mid-Size Sidelite Mount Transom Patch used to support a transom from a sidelite glass panel. For single doors, on the non-hinged side, the insert can be removed allowing for a double acting door. A 1NT306 Transom Patch Door Stop Insert can be used to create a single acting door.

MID-SIZE SIDELITE TRANSOM PATCH

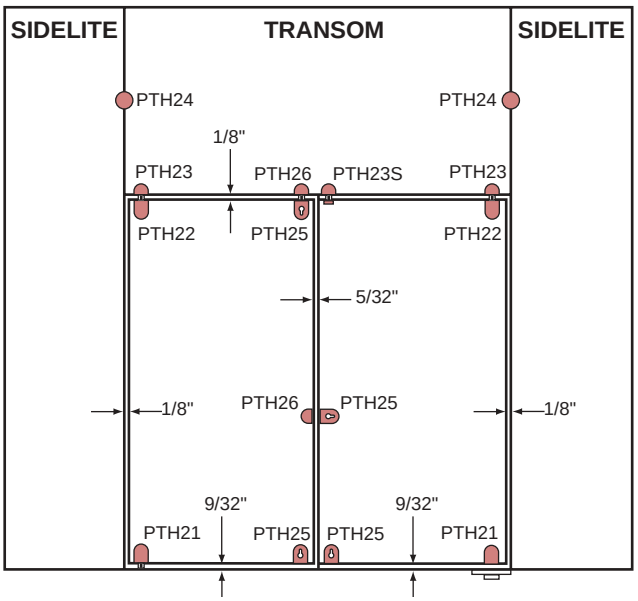
CAT. NO.	FINISH
EUR440A	Aluminum
EUR440BR	Polished Brass
EUR440BS	Brushed Stainless
EUR440PS	Polished Stainless

All Patch Fittings can be combined for quantity pricing.

IMPORTANT: All Series 400 European Mid-Size Patch Fittings on this page are designed to work only with 3/8" (10mm) glass. The Patch Fittings work only with other Series 400 European Mid-Size Patch Fittings with 2-9/16" (65mm) setbacks. The Inserts used in the fittings are made especially for them, and cannot be replaced with Inserts from our standard size Patch Fittings. However, Top and Bottom Free Swinging Pivots will work with the Mid-Size Patch Fittings (see page F64). Each Mid-Size Patch Fitting is supplied as a complete unit, and includes the appropriate Insert and Cover Plates.

CRL PTH Series Patch Fittings

- **A Complete Selection for Single or Double Doors, Transoms and Sidelites**
- **Available in Four Finishes**



CRL Top Door Patch

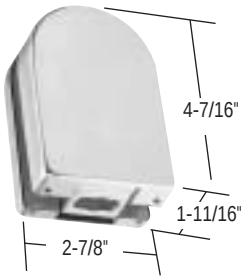
INCLUDES:
High Density Cast Body; Pivot Socket; Cover Plates; Gaskets for 3/8" (10mm) and 1/2" (12mm) Glass.

FOR USE WITH:
PTH23 Top Transom Pivot; CRL9040WBP Walking Beam Pivot; 1NT401 Top Free Swinging Pivot; 1NT405 Header Mount Top Pivot.

GLASS FABRICATION REQUIRED:
Two 13/16" (20mm) Diameter Holes and One Notch (Template Included).

CAT. NO.	FINISH
PTH22A	Clear Anodized
PTH22BR	Polished Brass
PTH22BS	Brushed Stainless
PTH22PS	Polished Stainless

CRL Bottom Door Patch



INCLUDES:
High Density Cast Body; Dorma Type Floor Closer Insert; Cover Plates; Gaskets for 3/8" (10mm) and 1/2" (12mm) Glass.

FOR USE WITH:
CRL8300/8400 Series Door Closers; 1NT402 Bottom Free Swinging Pivot; 1NT406 Adjustable Free Swinging Bottom Pivot.

GLASS FABRICATION REQUIRED:
Two 13/16" (20mm) Diameter Holes and One Notch (Template Included).

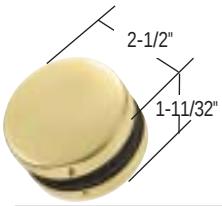
CAT. NO.	FINISH
PTH21A	Clear Anodized
PTH21BR	Polished Brass
PTH21BS	Brushed Stainless
PTH21PS	Polished Stainless

CRL Patch Connector

INCLUDES: Molded Body; Cover Plates; Gaskets for 3/8" (10mm) and 1/2" (12mm) Glass.

USE: Joins Vertical Lites of Heavy Glass in Transoms and Sidelites to Provide Rigidity.

GLASS FABRICATION REQUIRED:
One Notch in Each Lite (Template Included).



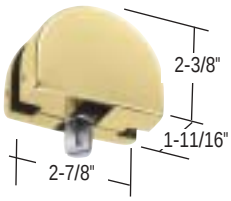
CAT. NO.	FINISH
PTH24A	Clear Anodized
PTH24BR	Polished Brass
PTH24BS	Brushed Stainless
PTH24PS	Polished Stainless

CRL Top Transom Pivot Patch

INCLUDES: Molded Body; Cover Plates; Pivot.

FOR USE WITH : PTH22 Top Door Patch.

GLASS FABRICATION REQUIRED:
One Notch (Template Included).



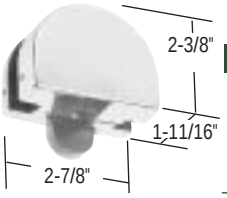
CAT. NO.	FINISH
PTH23A	Clear Anodized
PTH23BR	Polished Brass
PTH23BS	Brushed Stainless
PTH23PS	Polished Stainless

CRL Top Transom Door Stop

INCLUDES: Molded Body; Cover Plates; Stop Insert.

USE: Install on Strike Side of Transom to Stop a Door.

GLASS FABRICATION REQUIRED:
One Notch (Template Included).



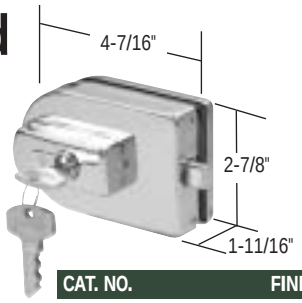
CAT. NO.	FINISH
PTH23SA	Clear Anodized
PTH23SBR	Polished Brass
PTH23SBS	Brushed Stainless
PTH23SPS	Polished Stainless

CRL Glass Mounted Patch Lock

INCLUDES:
Machined Body with Lock Mechanism and Keyed Cylinder; Cover Plates; Gaskets for 3/8" (10mm) and 1/2" (12mm) Glass; Three Keys; Strike Plate.

FOR USE WITH:
PTH26 Series Keeper (Order Separately).

GLASS FABRICATION REQUIRED:
2-3/16" Hole in Glass; Hole Required in Threshold Only if Bottom Mounted (Template Included).



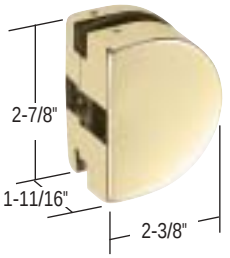
CAT. NO.	FINISH
PTH25A	Clear Anodized
PTH25BR	Polished Brass
PTH25BS	Brushed Stainless
PTH25PS	Polished Stainless

CRL Glass Mounted Patch Lock Keeper

INCLUDES:
Molded Body; Cover Plates; Gaskets for 3/8" (10mm) and 1/2" (12mm) Glass.

FOR USE WITH:
PTH25 Series Lock (Order Separately).

GLASS FABRICATION REQUIRED:
One Notch (Template Included).

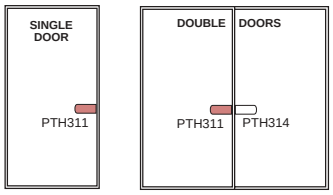


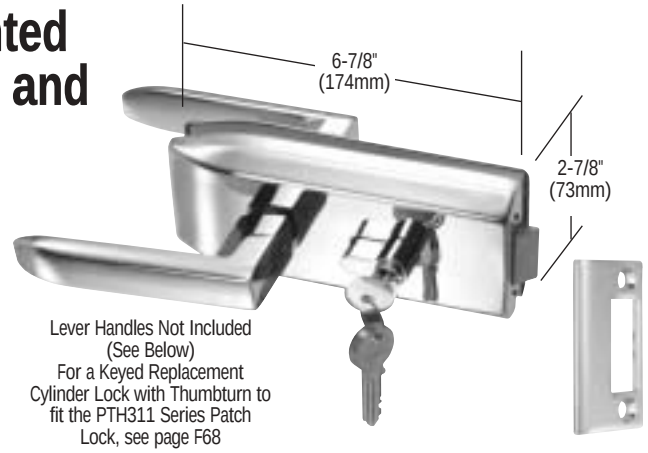
CAT. NO.	FINISH
PTH26A	Clear Anodized
PTH26BR	Polished Brass
PTH26BS	Brushed Stainless
PTH26PS	Polished Stainless

All PTH Series Patch Fittings can be combined for quantity pricing.

CRL Glass Mounted Latch with Lock and Thumbturn

- Works on Single or Double Doors





Lever Handles Not Included (See Below)
For a Keyed Replacement Cylinder Lock with Thumbturn to fit the PTH311 Series Patch Lock, see page F68

INCLUDES: Stamped Body with Lock Mechanism (Keyed Outside, Thumbturn Inside); Strike; Cover Plates; Gaskets for 3/8" (10mm) to 1/2" (12mm) Glass; Three Keys. Handles Not Included (Must be Ordered Separately).

FOR USE WITH: PTH314 Series Latch Keeper; PTH301/302/303/304 Series Lever Handles.

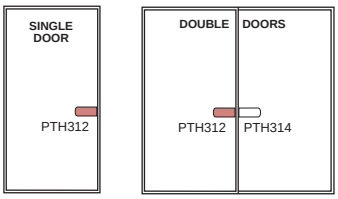
GLASS FABRICATION REQUIRED:
Two 1-3/4" (45mm) Holes (Template Included).

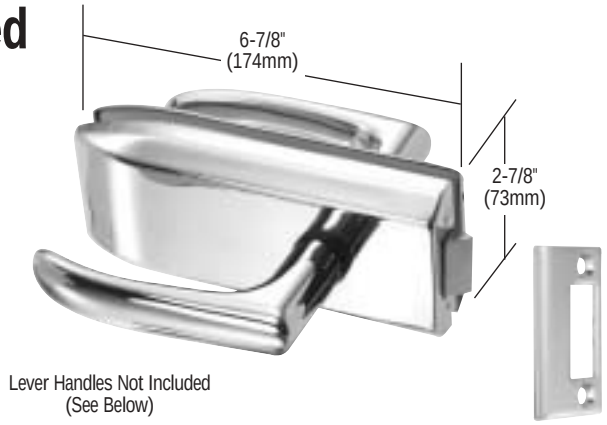
CAT. NO.	FINISH
PTH311A	Clear Anodized
PTH311BR	Polished Brass
PTH311BS	Brushed Stainless
PTH311PS	Polished Stainless

All PTH Series Patch Fittings can be combined for quantity pricing.

CRL Glass Mounted Passage Latch

- Works on Single or Double Doors





Lever Handles Not Included (See Below)

INCLUDES: Stamped Body with Latch Mechanism; Gaskets for 3/8" (10mm) to 1/2 (12mm) Glass; Cover Plates; Strike. Handles Not Included (Must be Ordered Separately).

FOR USE WITH: PTH314 Series Latch Keeper; PTH301/302/303/304 Series Lever Handles.

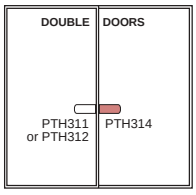
GLASS FABRICATION REQUIRED:
Two 1-3/4" (45mm) Holes (Template Included).

CAT. NO.	FINISH
PTH312A	Clear Anodized
PTH312BR	Polished Brass
PTH312BS	Brushed Stainless
PTH312PS	Polished Stainless

All PTH Series Patch Fittings can be combined for quantity pricing.

CRL Glass Mounted Latch Keeper

- Works with Either Latch Above on Double Doors



INCLUDES: Stamped Body with Cover Plates; Latch Strike.

FOR USE WITH: PTH311 Series Latch with Lock; PTH312 Series Passage Latch.

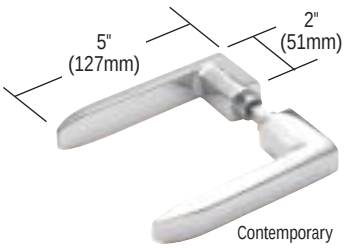
GLASS FABRICATION REQUIRED:
Two 1-3/4" (45mm) Holes (Template Included).

CAT. NO.	FINISH
PTH314A	Clear Anodized
PTH314BR	Polished Brass
PTH314BS	Brushed Stainless
PTH314PS	Polished Stainless

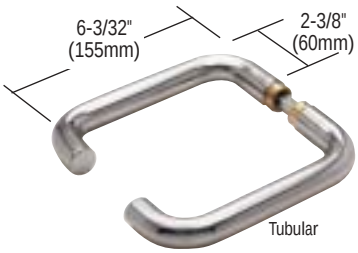
All PTH Series Patch Fittings can be combined for quantity pricing.

CRL Lever Handles

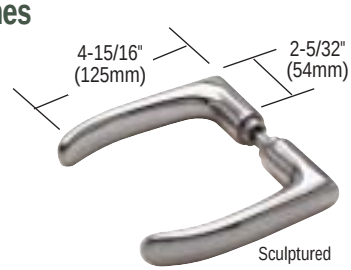
- Lever Handle Sets are Available in Up to Four Finishes to Match PTH Series Latches



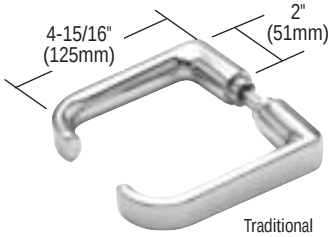
Contemporary



Tubular



Sculptured



Traditional

HANDLE FINISH AND STYLE	BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.	POLISHED BRASS CAT. NO.	CLEAR ANODIZED CAT. NO.
Contemporary	PTH301BS	PTH301PS	PTH301BR	PTH301A
Tubular	PTH302BS	PTH302PS	N/A	N/A
Sculptured	PTH303BS	PTH303PS	N/A	N/A
Traditional	PTH304BS	PTH304PS	N/A	PTH304A

Styles and finishes can be combined for quantity pricing. Sold only by the set.

SET INCLUDES: One Pair of Handles; Washers; Hex Wrench.

FOR USE WITH:
PTH311 Series Latch with Lock; PTH312 Series Passage Latch.

CRL Center Housed Lever Latch with European Keyhole Style Lock

INCLUDES:

Stamped Metal Body with Latching Mechanism, Lock Mechanism and Keyed Cylinder; Cover Plates and Strike (Finish of Your Choice); Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass; Template and Instructions

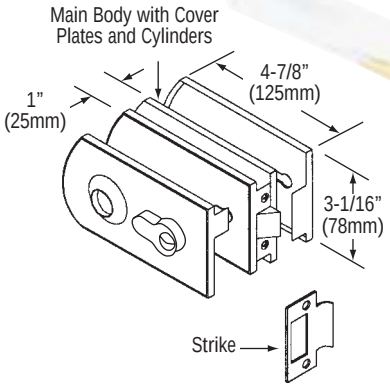
DOES NOT INCLUDE:

Lever Handles (Order Separately)

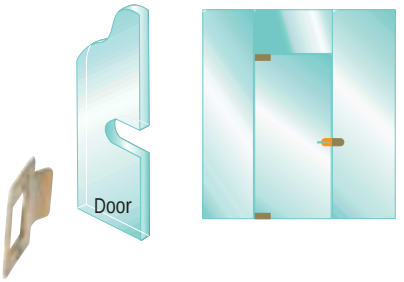
SPECIFICATIONS:

For Use With:
Supplied Strike; 1NT601 Center Housed Fixed Glass Strike

Glass Fabrication Required:
One U-Notch



Lever Handles Not Included (See Below)



COMPLETE CENTER HOUSED LEVER LATCH WITH EUROPEAN KEYHOLE STYLE LOCK

CAT. NO.	FINISH
EUR605A	Aluminum
EUR605BR	Polished Brass
EUR605BS	Brushed Stainless
EUR605PS	Polished Stainless

All Lever Latch Sets can be combined for quantity pricing.

CRL Center Housed Passage Lever Latch Set without Lock

INCLUDES:

Stamped Metal Body with Latching Mechanism; Cover Plates and Strike (Finish of Your Choice); Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass; Template and Instructions

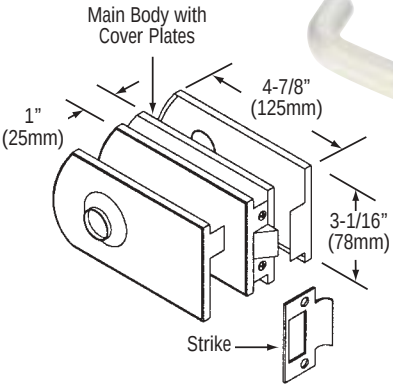
DOES NOT INCLUDE:

Lever Handles (Order Separately)

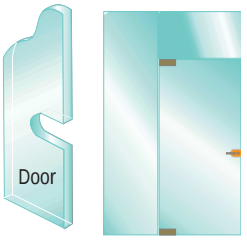
SPECIFICATIONS:

For Use With:
Supplied Jamb Strike

Glass Fabrication Required:
One U-Notch



Lever Handles Not Included (See Below)



COMPLETE CENTER HOUSED PASSAGE LEVER LATCH SET WITHOUT LOCK

CAT. NO.	FINISH
1NT600A	Aluminum
1NT600BR	Polished Brass
1NT600BS	Brushed Stainless
1NT600PS	Polished Stainless

All Lever Latch Sets can be combined for quantity pricing.

CRL Flat Style Lever Handles for Latch Sets

This Flat Style Lever Handle has the contemporary styling preferred in today's commercial and residential settings.

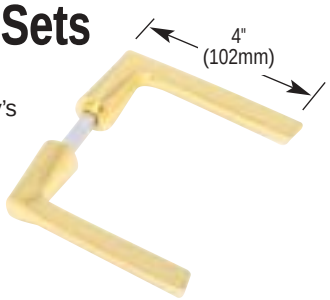
INCLUDES:

1 Set: 1NT610 Lever Handles (Back-to-Back Mounting); 1 Each: 9/32" (7mm) Square Spindle

SPECIFICATIONS:

For Use With:
1NT600, AMR605 and EUR605 Latch Sets (Sold Separately)

Construction: Zinc



FLAT STYLE LEVER HANDLE SET

CAT. NO.	FINISH
1NT610BR	Polished Brass
1NT610BS	Brushed Stainless
1NT610PS	Polished Stainless

Finishes can be combined for quantity pricing.

CRL Tubular Style Lever Handles for Latch Sets

This Tubular Style Lever Handle has been an approved style for commercial environments for many years.

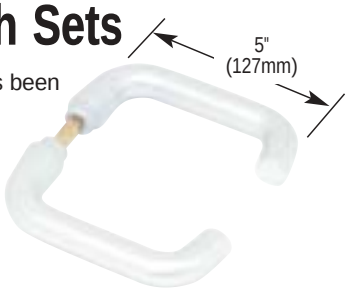
INCLUDES:

1 Set: 1NT620 Lever Handles (Back-to-Back Mounting); 1 Each: 9/32" (7mm) Square Spindle

SPECIFICATIONS:

For Use With:
1NT600, AMR605 and EUR605 Latch Sets (Sold Separately)

Construction:
Aluminum, Brass or Stainless Steel



TUBULAR STYLE LEVER HANDLE SET

CAT. NO.	FINISH
1NT620A	Aluminum
1NT620BR	Polished Brass
1NT620BS	Brushed Stainless
1NT620PS	Polished Stainless

Finishes can be combined for quantity pricing.

CRL Center Locks and Strikes

- For 3/8" and 1/2" (10mm and 12mm) Glass Doors
- Stock Configurations are Ready to Ship
- Most Custom Orders Ship Within One Week

NEW

6" x 10" Center Locks and Strikes

4" x 10" Center Locks and Strikes for Deadlocks and Deadlatches

- Four Stock Finishes:
  Brushed Stainless
  Polished Stainless
  Polished Brass
  Satin Chrome
- Custom Units and Finishes Quoted Upon Request

Custom Center Lock with Keyed Cylinder, Thumbturn, Pull Handle and Push Bar

CRL Manufacturing is your source for Center Locks and Strikes. We have stock sizes in four architectural finishes, and can also custom make them to your specifications for size and finish, usually within one week (for most configurations). For more information, see pages F36-F39.

CRL Mechanical Panic Handles and Egress Control Handles

NEW

GLASS DOOR PANIC HANDLES

Our new Glass Door Panic Handles are designed to provide emergency egress while permitting maximum views. These contemporary Panic Handles are classified as approved panic hardware. Available in polished or brushed stainless finishes in stock or custom sizes.

ELECTRONIC EGRESS CONTROL HANDLES

Our Electronic Egress Control Handles are a more economical way to control entry or exit and still maintain the beauty and view of an "all glass" door. When the handle is pushed an electronic switch releases the magnetic lock at the top of the door. These handles are not classified as panic devices, but as Electronic Egress Control Handles.

- For 1/2" (12mm) Glass Doors

For more information, see pages F40-F41.

CRL Offset Pivot Hinges

- Ideal for Use on Light Duty Commercial Doors, Cabinet Doors and Entry Doors
- Offset Pivot Point Allows Full 180° Swing

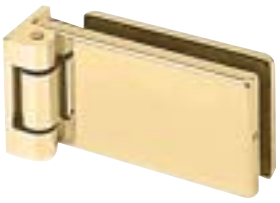
This free swinging Offset Pivot Hinge is perfect for light duty doors, such as partitions and smaller entry doors. Also commonly used for cabinet doors. This hinge requires only two 5/8" (16mm) holes in the glass, and is available in popular polished brass and polished chrome finishes. Comes with gasket and template.

SPECIFICATIONS:

Construction: Solid Brass Casting
Glass Size: 5/16" (8mm) and 3/8" (10mm)
Closing Type: Free Swinging

MAXIMUM DOOR SIZE:

Width: 32" Using Two Hinges; 36" Using Three Hinges
Weight: 96 lbs. Using Two Hinges; 140 lbs. Using Three Hinges
Glass Fabrication: Two 5/8" (16mm) Holes



Measures:
4-1/4" Wide x 1-15/16" High

CAT. NO.	FINISH
FA044BR	Polished Brass
FA044CH	Polished Chrome

Finishes can be combined for quantity pricing.

CRL Pivot Door System

NEW

Our New Pivot Door System offers a modern, elegant look. The large glass area, combined with the beauty and easy maintenance of brushed stainless steel, makes this an ideal solution for designers. We have assembled standard sets to make it easy to plan, quote and order. For additional information, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

- **High Quality Stainless Steel Material**
- **Maximizes Glass and Minimizes Hardware**
- **For 3/8" (10mm) Tempered Glass in Numerous Configurations**

Pivot Door System (In)

Pivot Door System (Out)

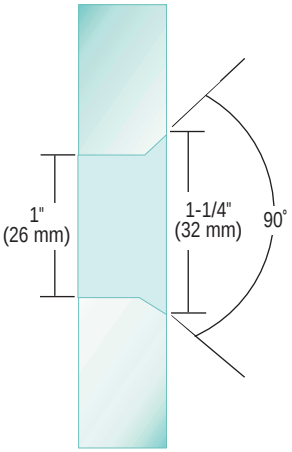
SPECIFICATIONS:

Material:
Stainless Steel, Brushed Finish

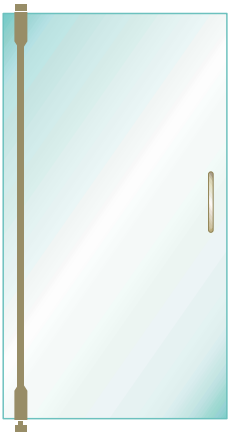
Glass Fabrication Required:
Four 1" (26 mm) Diameter Countersunk Holes per Door

Two 1" (26 mm) Diameter Countersunk Holes per Transom Fixture

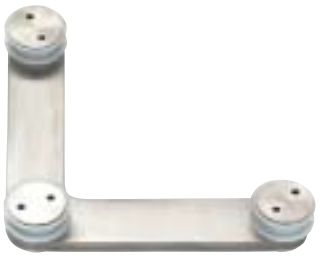
Two 1" (26 mm) Diameter Countersunk Holes per Panel per Sidelite Pivot Fixture



Hole Details



Optional Full Height Pivot Rod Available on Special Order.



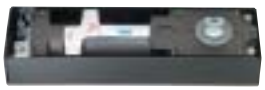
Optional Transom/Sidelite Bracket for Use with Single Doors with Sidelites on Both Sides

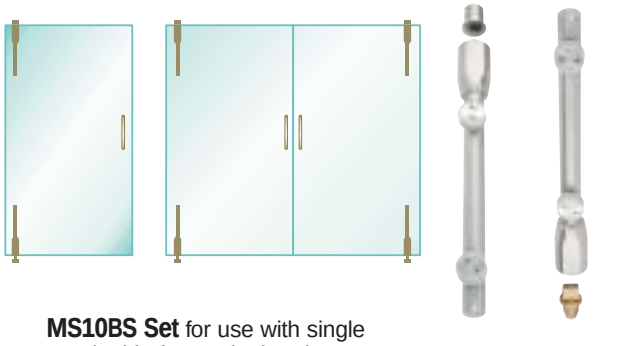
Cat. No. MS6BS

CRL Pivot Door System - Typical Configurations

The CRL Pivot Door System can be used with free-swinging doors, or doors controlled by floor mounted closers. All hardware is sold in sets, with one set required per door. Here are typical configurations that can be constructed using Pivot Door Sets. For additional information, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail to **techsales@crlaurence.com.**

See page F110 for Floor Mounted Door Closers (Sold Separately)

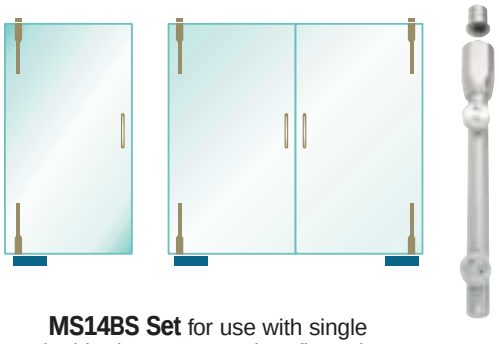




MS10BS Set for use with single or double free-swinging doors

Top Arm with Pivot

Bottom Arm with Pivot

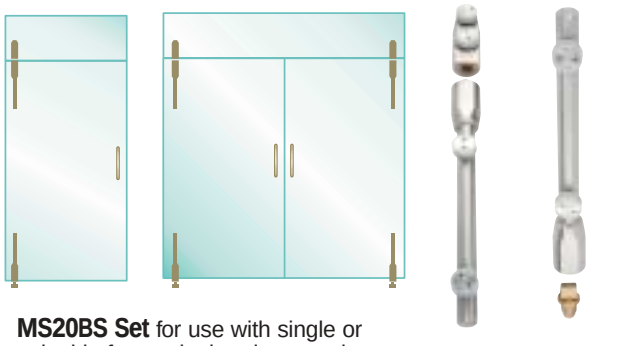


MS14BS Set for use with single or double doors mounted on floor closer

NOTE: Floor Closers Sold Separately

Top Arm with Pivot

Bottom Arm for Floor Closer



MS20BS Set for use with single or double free-swinging doors and glass transom

Top Arm with Pivot

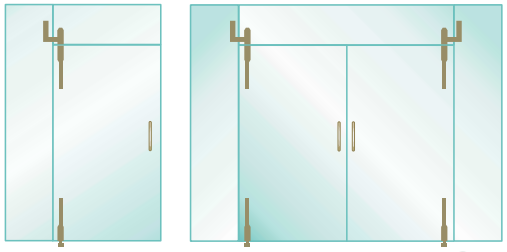
Bottom Arm with Pivot

MS24BS Set for use with single or double doors and glass transom

NOTE: Floor Closers Sold Separately

Top Arm with Pivot

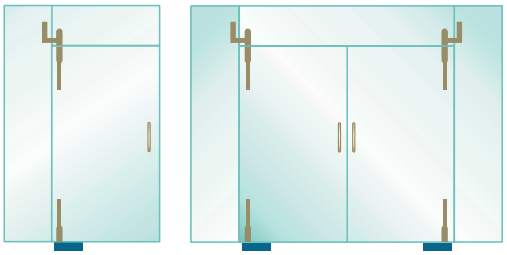
Bottom Arm for Floor Closer



MS30BS Set for use with single or double free-swinging doors with sidelite and glass transom

Top Arm with Pivot

Bottom Arm with Pivot



MS34BS Set for use with single or double doors with sidelite and glass transom

NOTE: Floor Closers Sold Separately

Top Arm with Pivot

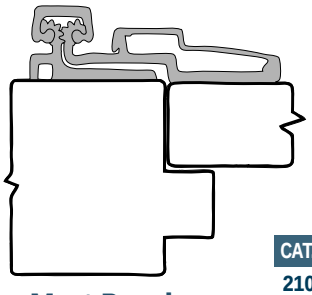
Bottom Arm for Floor Closer

CRL Roton Full Length Hinges

- **Specified by Large Retail Stores and Schools Because of Their Long Service Life**
- **Standard and Heavy-Duty Models are Available in Clear Anodized or Dark Bronze Duranodic Finishes**

CRL Roton Hinges are made of high strength aluminum with a full length rolling gear profile to align doors perfectly from top to bottom. Special self-lubricating polyacetal load bearing blocks deliver smooth, almost floating operation on even the heaviest doors. Hinges are completely secure because all mounting hardware is hidden when installed. Hinges are easy to install and come with instructions and all necessary hardware for mounting. Available in clear satin anodized or dark bronze duranodic finishes, all Roton Hinges can be combined for quantity pricing.

Standard-Duty Full Surface Hinge

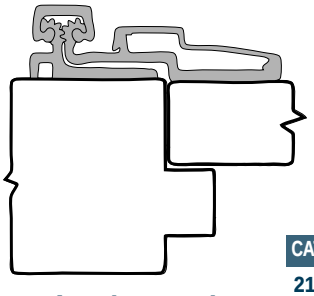


Available in clear satin anodized and dark bronze duranodic finishes, these Standard-Duty Hinges are stocked in lengths of 83" and 95".

- **Most Popular Model**

CAT. NO.	LENGTH	FINISH
21083A	83"	Satin
21083DU	83"	Bronze
21095A	95"	Satin
21095DU	95"	Bronze

Heavy-Duty Full Surface Hinge

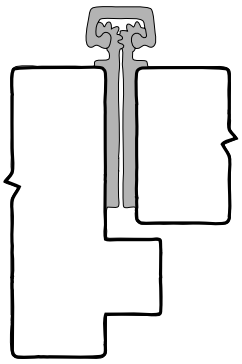


Available in clear satin anodized and dark bronze duranodic finishes, these Heavy-Duty Hinges are stocked in lengths of 83" and 95". They feature twice the number of load bearings as Standard-Duty Hinges.

- **Twice the Number of Load Bearings**

CAT. NO.	LENGTH	FINISH
210HD83A	83"	Satin
210HD83DU	83"	Bronze
210HD95A	95"	Satin
210HD95DU	95"	Bronze

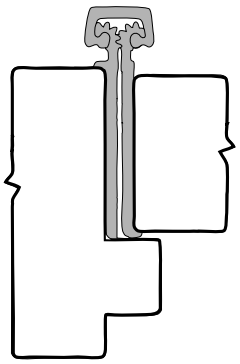
Concealed Leaf Hinge, 1-3/4" Entry Door



Available in clear satin anodized and dark bronze duranodic finishes, Concealed Leaf Hinges are stocked in lengths of 83".

CAT. NO.	LENGTH	FINISH
21283A	83"	Satin
21283DU	83"	Bronze

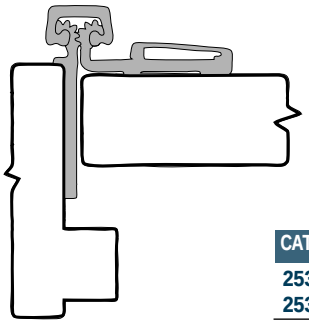
Concealed Leaf Hinge with Lip, 1-3/4" Entry Door



Both Standard and Heavy-Duty models are available in clear satin anodized and dark bronze duranodic finishes. Concealed Leaf Hinges are stocked in lengths of 83".

CAT. NO.	LENGTH	TYPE	FINISH
22483A	83"	Standard	Satin
22483DU	83"	Standard	Bronze
224HD83A	83"	Heavy-Duty	Satin
224HD83DU	83"	Heavy-Duty	Bronze

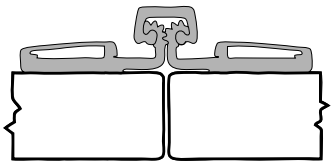
Half Surface Hinge, 1-3/4" Door



Available in clear satin anodized and dark bronze duranodic finishes, Half Surface Hinges are stocked in lengths of 83".

CAT. NO.	LENGTH	FINISH
25383A	83"	Satin
25383DU	83"	Bronze

Full Surface Retrofit Hinge

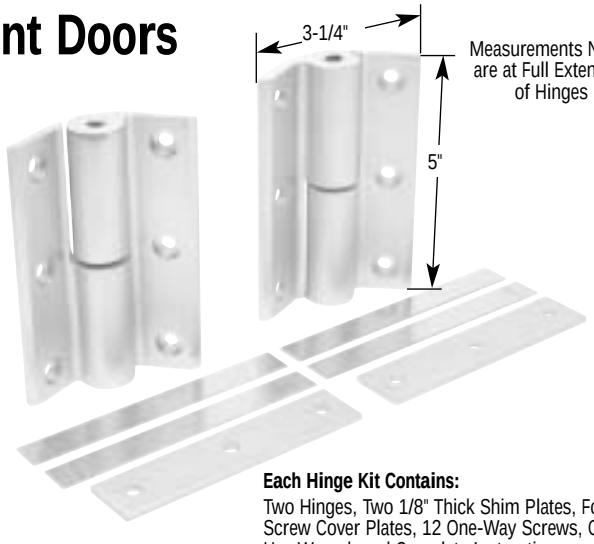


Available in clear satin anodized and dark bronze duranodic finishes, Full Surface Retrofit Hinges are stocked in lengths of 83".

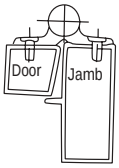
CAT. NO.	LENGTH	FINISH
25783A	83"	Satin
25783DU	83"	Bronze

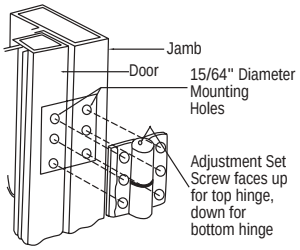
CRL Hinge Replacement Kit for Storefront Doors

- **Top Quality Construction**
  Hinge is completely machined to the close tolerances needed for heavy, continuously used commercial doors.
- **Simple and Quick to Install**
  Can be installed in 20 minutes with enclosed instructions.
- **Universal Fit**
  Replaces all storefront hinges without modification on both flush and 1/8" offset doors.
- **Streamline Modern Appearance**
  Enhances any trimline aluminum entrance. Screws are not exposed as a result of pressure sensitive aluminum cover strips.
- **High Security**
  Non-exposed hinge pins sealed inside housing cannot be reached, removed or tampered with. Mounted with all one-way fasteners.
- **Correct Most Common Door Problems**
  Solves common door problems such as sagging, dragging and warping.
- **Not Affected by Temperature Extremes**
  No matter how hot or cold.
- **Instant Adjustments to Fine Tolerances**
  Door can be raised or lowered to fine tolerances with just the use of a simple Allen set screw feature on a vertical adjustment screw.
- **Smooth Bearing Action – Self Lubricating Pin**
  Bearing loaded pin rotates. Machine quality anti-friction roller and thrust bearings sealed in oil.
- **No Wearing Surfaces**
  Door weight is supported by case hardened pin and enclosed, anti-friction bearings.
- **Use for Doors Weighing Up to 300 lbs. (136 Kg)**



Each Hinge Kit Contains:
Two Hinges, Two 1/8" Thick Shim Plates, Four Screw Cover Plates, 12 One-Way Screws, One Hex Wrench and Complete Instructions.



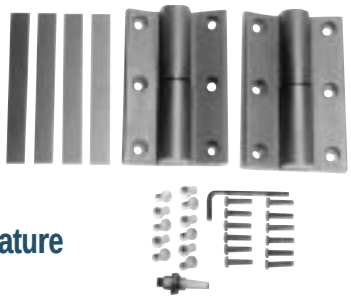


CAT. NO.	FINISH
DL1099A	Satin Anodized
DL1099DU	Bronze Duranodic

Finishes can be combined for quantity pricing.
Minimum order is one kit.

CRL Universal Storefront Door Hinge

- **Complete Universal Kit**
- **Quick Installation**
- **Instant Adjustment**
- **Permanent Lubrication**
- **Heavy-Duty Service**
- **Non-Rising Pin Security Feature**



Designed to use on heavy storefront doors. Completely machined, they have a self-lubricating pin which rotates on anti-friction bearings for smooth door operation. The hinge pin can also be adjusted to move the door up or down at any time without removing the hinges. The hinge pin is sealed within the housing, and cannot be removed, providing maximum security. Matching cover strips are provided to hide old hinge holes. Maximum door weight is 300 pounds.

CAT. NO.	QTY./BOX	SIZE	FINISH
U5A	1 Pair and Hardware	4-7/8" x 3"	Aluminum
U5BL	1 Pair and Hardware	4-7/8" x 3"	Black

Finishes can be combined for quantity pricing. Minimum order is one pair.

CRL Template Butt Hinge

- **With Ball Bearings**
- **Measures 4-1/2" x 4-1/2"**
- **Non-Rising Button-Head Pins**
- **Button-Tip Loose-Pin Template Location**
- **Ideal for Medium Weight Metal and Wood Doors**

These Ball Bearing Hinges are ideal for medium weight metal and wood doors. Quality construction (.134 Gauge) in satin chrome and bronze finishes. Excellent for new or replacement installation. Packed three per box. Includes all machine and wood screws.

CAT. NO.	QTY./BOX	SIZE	FINISH
BB31A	3	4-1/2" x 4-1/2"	Satin Chrome
BB31BRZ	3	4-1/2" x 4-1/2"	Bronze

Finishes can be combined for quantity pricing. Minimum order is one box.

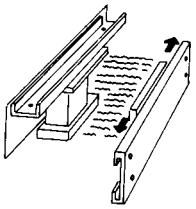
CRL Magnetic Door Retainer

- **Keeps Doors from Blowing Open**

This giant Magnetic Door Retainer keeps doors closed against strong winds. It's easy to install, and works on right or left hand doors. For use on one-way swinging doors only. Magnet part measures: 5" L by 2" H by 1-1/4" D. Retainer part measures: 5-1/2" L by 2" H by 11/16" D.

Metal retainer slides to adjust holding strength from 0 to 50 pounds

CAT. NO. M50



CRL 3/4" Offset Pivot Sets

- Oilite Bronze Bushing in Top Frame Portion
- Full Race Bearing in Bottom Door Portion
- Case Hardened Stud in Floor Portion
- 1/8" Vertical Adjustment
- Die-Cast Aluminum
- Top Door Portion with Case Hardened Spring Loaded Pin
- Suitable for Aluminum Frames and Doors Weighing Up to 125 lbs. (57 kg)

CRL Offset Pivot Sets for commercial doors feature quality machined and die-cast components in combinations to accommodate just about any commercial door. Everything you need comes in one box, including the door fasteners and anchors. Each has been illustrated with dimensions for ease of selection.

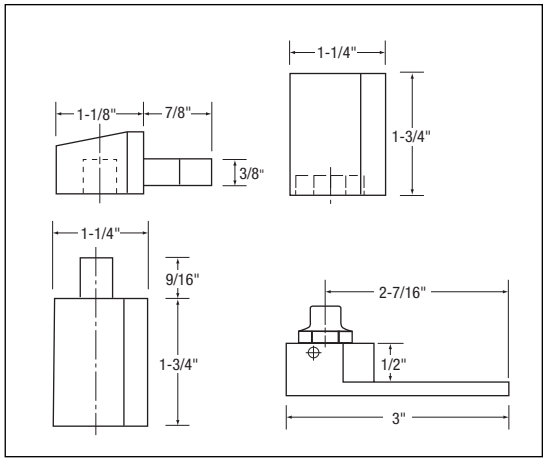
OP27 and OP28 Series

- Non-Handed and Reversible
- OP27 Series Used on: Automatic, Besam, Kawneer
- OP28 Series Used on: Kawneer

Non-handed Pivot Sets are available in satin aluminum and duranodic bronze finishes. One set per package. All Pivot Sets can be combined for quantity pricing.

CAT. NO.	HANDING	APPLICATION	FINISH
OP27NHA	Reversible	Flush with Frame Face	Aluminum
OP27NHDU	Reversible	Flush with Frame Face	Bronze
OP28NHA	Reversible	Recessed 1/8"	Aluminum
OP28NHDU	Reversible	Recessed 1/8"	Bronze

Non-Handed



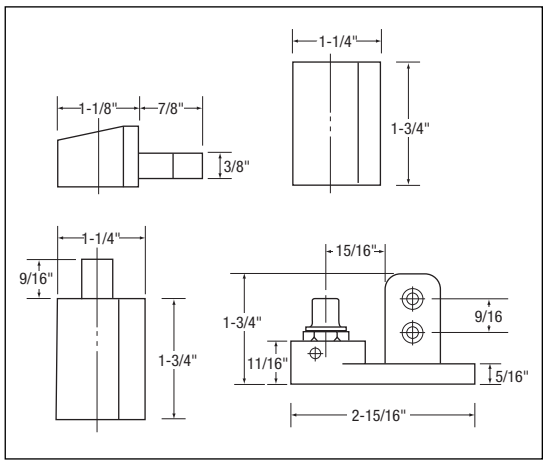
OP30 and OP31 Series

- Handed - Not Reversible
- Used on: Arcadia, Arch Aluminum, Tubelite, Vistawall

Left or right hand Pivot Sets are available in satin aluminum and duranodic bronze finishes. One set per package. All Pivot Sets can be combined for quantity pricing.

CAT. NO.	HANDING	APPLICATION	FINISH
OP30LHA	Left Hand	Flush with Frame Face	Aluminum
OP30LHDU	Left Hand	Flush with Frame Face	Bronze
OP30RHA	Right Hand	Flush with Frame Face	Aluminum
OP30RHDU	Right Hand	Flush with Frame Face	Bronze
OP31LHA	Left Hand	Recessed 1/8"	Aluminum
OP31LHDU	Left Hand	Recessed 1/8"	Bronze
OP31RHA	Right Hand	Recessed 1/8"	Aluminum
OP31RHDU	Right Hand	Recessed 1/8"	Bronze

LH/RHR Shown



CRL 3/4" Offset Pivot Sets

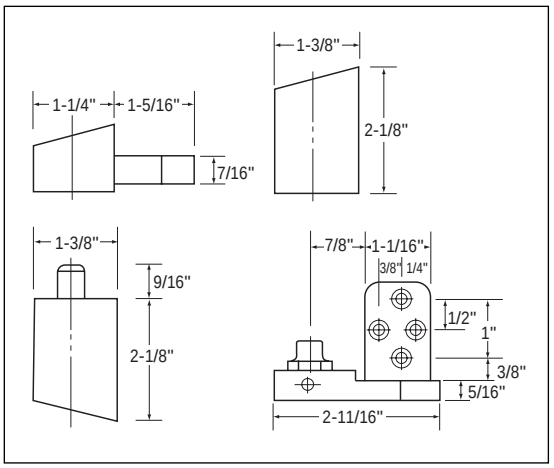
0P34 Series

- **Handed - Not Reversible**
- **Used on: U.S. Aluminum**

Left or right hand Pivot Sets are available in satin aluminum and duranodic bronze finishes. One set per package. All Pivot Sets can be combined for quantity pricing.

CAT. NO.	HANDING	APPLICATION	FINISH
0P34LHA	Left Hand	Flush with Frame Face	Aluminum
0P34LHDU	Left Hand	Flush with Frame Face	Bronze
0P34RHA	Right Hand	Flush with Frame Face	Aluminum
0P34RHDU	Right Hand	Flush with Frame Face	Bronze

LH/RHR Shown



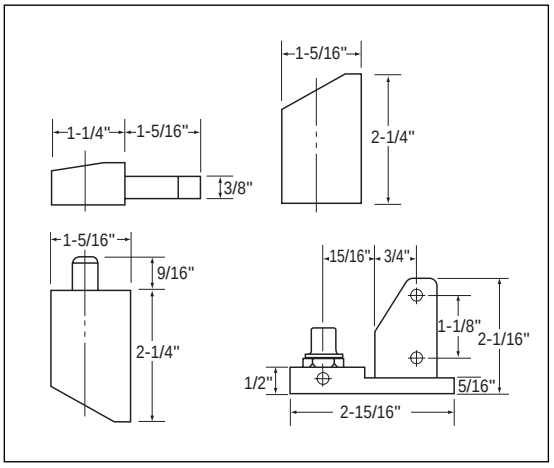
0P40 Series

- **Handed - Not Reversible**
- **Used on: Amarlite, Arch Aluminum, Rebco**

Left or right hand Pivot Sets are available in satin aluminum and duranodic bronze finishes. One set per package. All Pivot Sets can be combined for quantity pricing.

CAT. NO.	HANDING	APPLICATION	FINISH
0P40LHA	Left Hand	Recessed 1/8"	Aluminum
0P40LHDU	Left Hand	Recessed 1/8"	Bronze
0P40RHA	Right Hand	Recessed 1/8"	Aluminum
0P40RHDU	Right Hand	Recessed 1/8"	Bronze

LH/RHR Shown

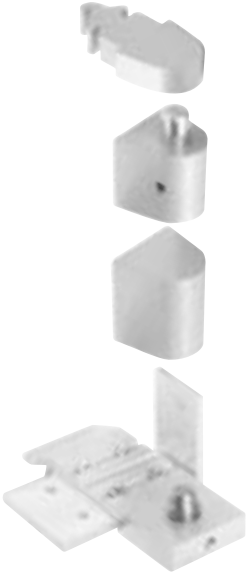


0P50 Series

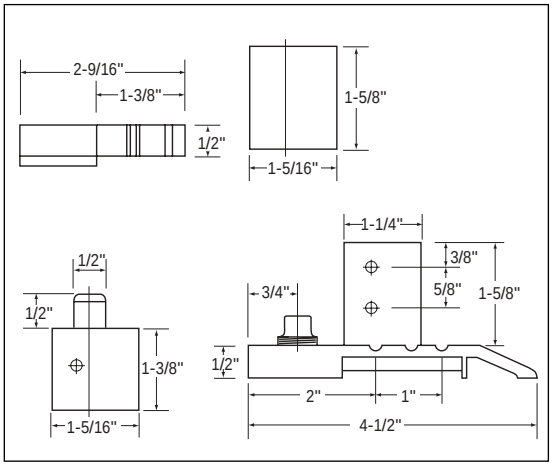
- **Handed - Not Reversible**
- **Used on: Arch Aluminum**

Left or right hand Pivot Sets are available in satin aluminum and duranodic bronze finishes. One set per package. All Pivot Sets can be combined for quantity pricing.

CAT. NO.	HANDING	APPLICATION	FINISH
0P50LHA	Left Hand	Recessed 1/8"	Aluminum
0P50LHDU	Left Hand	Recessed 1/8"	Bronze
0P50RHA	Right Hand	Recessed 1/8"	Aluminum
0P50RHDU	Right Hand	Recessed 1/8"	Bronze

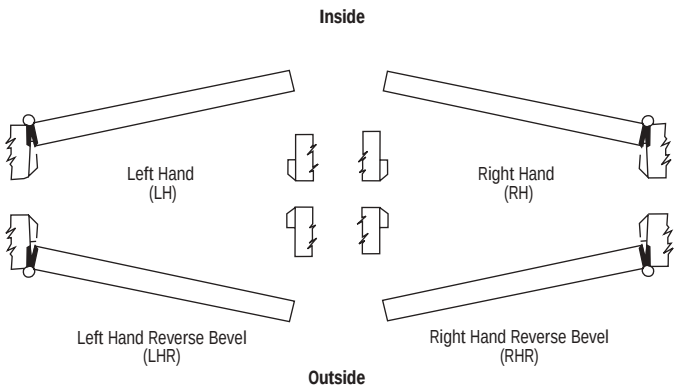


LH/RHR Shown



General Door Information (Handing and Typical Installations)

How to Determine Handing of Door

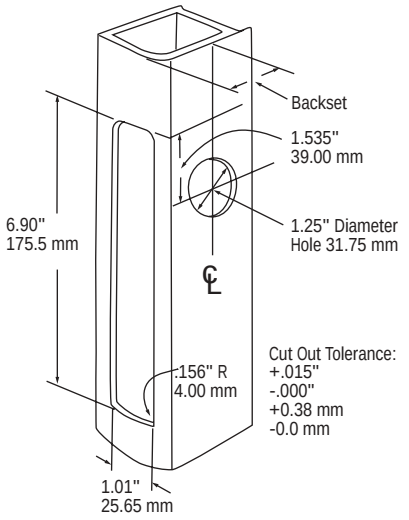


The handing of doors is determined from the outside or lock side of the door to which it is applied. If standing outside, and the door opens away from you, it is a regular bevel door; if it opens towards you, it is a reverse bevel door.

Deadlock and Deadlatch Fabrication

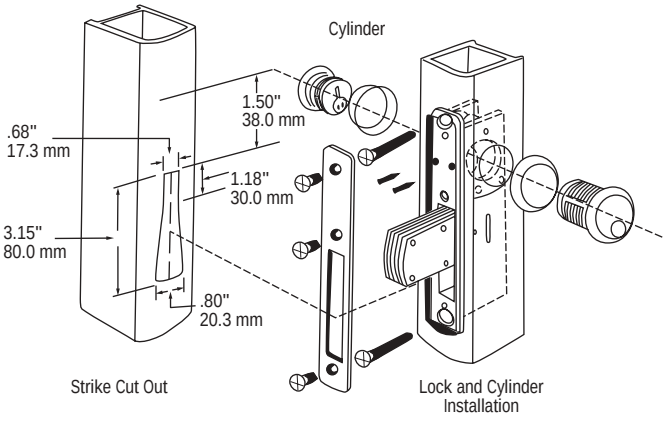
- **For DL2110, DL2130 and DL2140 Series Locks**

STILE PREPARATION
Backset is always measured from the centerline of the Stile Nose.



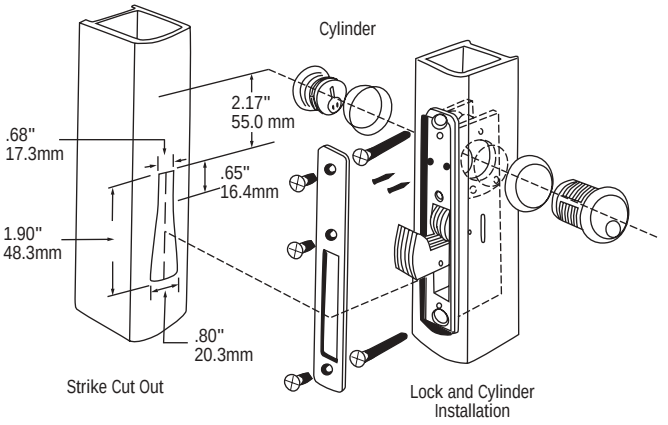
Typical Long Throw Deadlock Installation

- **Using DL2110 Series Deadlock**



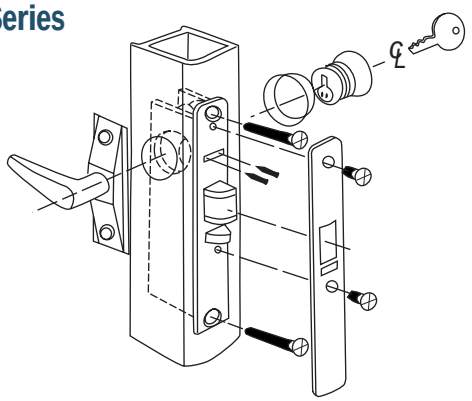
Typical Hook Throw Deadlock Installation

- **Using DL2130 Series Deadlock**



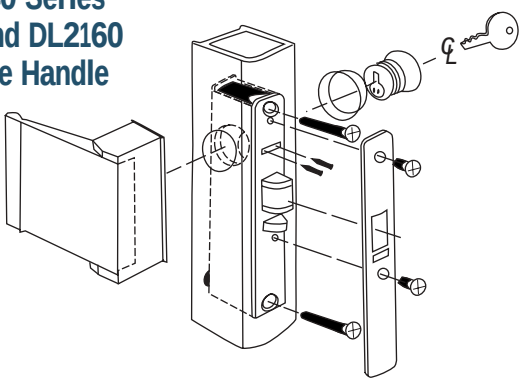
Typical Deadlatch and Lever Handle Installation

- **Using DL2140 Series Deadlatch and DL2150 Series Lever Handle**



Typical Deadlatch and Paddle Handle Installation

- **Using DL2140 Series Deadlatch and DL2160 Series Paddle Handle**

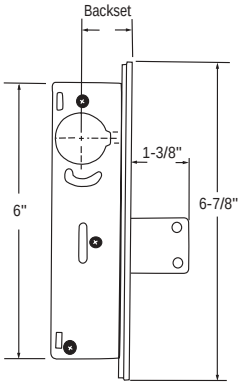


CRL Narrow Stile Aluminum Door Deadlocks and Deadlatches

Long Throw Deadlock

1-3/8" THROW

- Cylinder Backsets: 31/32" or 1-1/8"
- Throw Bolt Made of 5-Ply Laminated Steel with Center 3-Ply Hardened Case + Hardened Roller Pin to Resist Hacksaw
- Lock Accepts Standard 1-5/32" Mortise Key or Thumbturn Cylinders with AR MS-Type Cam
- Faceplate (Optional)



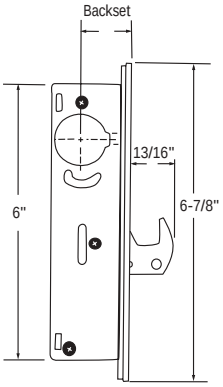
CAT. NO.	BACKSET	HANDED
DL2110A	31/32"	Non-Handed
DL2110B	1-1/8"	Non-Handed

All Deadlocks can be combined for quantity pricing. One per package.

Hook Throw Deadlock

13/16" THROW

- Cylinder Backsets: 31/32" or 1-1/8"
- Throw Bolt Made of 5-Ply Laminated Steel with Center 3-Ply Hardened Case + Hardened Roller Pin to Resist Hacksaw
- Lock Accepts Standard 1-5/32" Mortise Key or Thumbturn Cylinders with AR MS-Type Cam
- Faceplate (Optional)



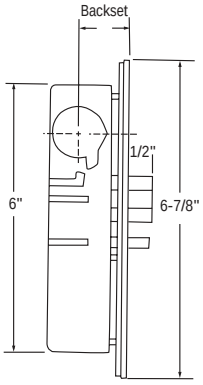
CAT. NO.	BACKSET	HANDED
DL2130A	31/32"	Non-Handed
DL2130B	1-1/8"	Non-Handed

All Deadlocks can be combined for quantity pricing. One per package.

Deadlatch Lock

1/2" THROW

- Cylinder Backsets: 31/32" or 1-1/8"
- Field Reversible for Opposite Hand
- Key Controlled Dogging
- Lock Accepts Standard 1-5/32" Mortise Key or Thumbturn Cylinders with AR MS-Type Cam
- Faceplate and Strike (Optional)



Right Hand Illustrated

CAT. NO.	BACKSET	HANDED
DL2140ALH	31/32"	Left
DL2140ARH	31/32"	Right
DL2140BLH	1-1/8"	Left
DL2140BRH	1-1/8"	Right

All Deadlocks can be combined for quantity pricing. One per package.

CRL Optional Faceplates

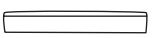
- For Use with All Deadlocks and Deadlatch Locks Above
- All Faceplates Measure 1" x 6-7/8"

For DL2110 Series Long Throw Deadlocks

For DL2130 Series Hook Throw Deadlocks

For DL2140 Series Deadlatch Locks

Faceplate Styles



Flat

Radius

Radius Weatherstripped

Left Hand Beveled

Right Hand Beveled

USE WITH LOCK SERIES	FINISH	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.	CAT. NO.
DL2110	Aluminum	DL2111A	DL2112A	DL2113A	DL2114A	DL2115A
DL2110	Bronze	DL2111DU	DL2112DU	DL2113DU	DL2114DU	DL2115DU
DL2130	Aluminum	DL2131A	DL2132A	DL2133A	DL2134A	DL2135A
DL2130	Bronze	DL2131DU	DL2132DU	DL2133DU	DL2134DU	DL2135DU
DL2140	Aluminum	DL2141A	DL2142A	DL2143A	DL2144A	DL2145A
DL2140	Bronze	DL2141DU	DL2142DU	DL2143DU	DL2144DU	DL2145DU

All Faceplates can be combined for quantity pricing. One per package.

CRL Single Mortise Key Cylinder

- 1" Length 5-Pin Cylinder; 1-5/32" Diameter
- AR MS - Type Cam
- Core Face and Keys US26D

The Single Mortise Key Cylinder comes with two keys in either Schlage "C" or Yale "8" keyway configurations. They are available keyed different or keyed alike in aluminum or bronze finishes. One per package. Zinc construction.

CAT. NO.	KEYWAY	KEYED	CYLINDER RING	FINISH
DL2170SCKDA	Schlage "C"	Different	3/16*	Aluminum
DL2170SCKAA	Schlage "C"	Alike	3/16*	Aluminum
DL2170SCKDDU	Schlage "C"	Different	3/16*	Bronze
DL2170SCKADU	Schlage "C"	Alike	3/16*	Bronze
DL2170Y8KDA	Yale "8"	Different	3/16*	Aluminum
DL2170Y8KAA	Yale "8"	Alike	3/16*	Aluminum
DL2170Y8KDDU	Yale "8"	Different	3/16*	Bronze
DL2170Y8KADU	Yale "8"	Alike	3/16*	Bronze

*Standard with cylinder. 5/32" and 7/32" rings can be ordered separately.
All Mortise Cylinders can be combined for quantity pricing.

CRL Double Mortise Key Cylinder

- 1" Length 5-Pin Cylinder; 1-5/32" Diameter
- AR MS - Type Cam
- Core Face and Keys US26D

Our Double Mortise Key Cylinder comes with two keys in either Schlage "C" or Yale "8" keyway configurations. They are available keyed different or keyed alike in aluminum or bronze finishes. One pair per package. Zinc construction.

CAT. NO.	KEYWAY	KEYED	CYLINDER RING	FINISH
DL2171SCKDA	Schlage "C"	Different	3/16*	Aluminum
DL2171SCKAA	Schlage "C"	Alike	3/16*	Aluminum
DL2171SCKDDU	Schlage "C"	Different	3/16*	Bronze
DL2171SCKADU	Schlage "C"	Alike	3/16*	Bronze
DL2171Y8KDA	Yale "8"	Different	3/16*	Aluminum
DL2171Y8KAA	Yale "8"	Alike	3/16*	Aluminum
DL2171Y8KDDU	Yale "8"	Different	3/16*	Bronze
DL2171Y8KADU	Yale "8"	Alike	3/16*	Bronze

*Standard with cylinder. 5/32" and 7/32" rings can be ordered separately.
All Mortise Cylinders can be combined for quantity pricing.

CRL Mortise Thumbturn Cylinder

- 1" Length 5-Pin Cylinder; 1-5/32" Diameter
- AR MS - Type Cam
- Thumbturn US26D

The Mortise Thumbturn Cylinder is used to activate the lock without the need for a key. Available in aluminum or bronze finishes. One per package. Zinc construction.

CAT. NO.	CYLINDER RING	FINISH
DL2172A	3/16*	Aluminum
DL2172DU	3/16*	Bronze

*Standard with cylinder. 5/32" and 7/32" rings can be ordered separately.
All Mortise Cylinders can be combined for quantity pricing.

CRL Mortise Dummy Cylinder

- 7/8" Length Cylinder; 1-5/32" Diameter
- No Keyway or Cam
- Fills Abandoned Cylinder Holes

The Mortise Dummy Cylinder is used to fill in a cylinder hole that has been abandoned or is not going to be used. Available in aluminum or bronze finishes. One per package. Zinc construction.

CAT. NO.	CYLINDER RING	FINISH
DL2173A	3/16*	Aluminum
DL2173DU	3/16*	Bronze

*Standard with cylinder. 5/32" and 7/32" rings can be ordered separately.
All Mortise Cylinders can be combined for quantity pricing.

CRL Rim Key Cylinder

- Low Profile Cylinder Ring and Adapter Plate Standard
- Core Face and Keys US26D
- 5-Pin Cylinder

This Rim Cylinder comes with 2 keys in the Schlage "C" keyway configuration. 1-7/8" break-away screws and 1-1/4" break-away spindle standard. They are available keyed different in aluminum or bronze finishes. One per package.

CAT. NO.	KEYWAY	KEYED	CYLINDER RING	FINISH
DL911SCKDA	Schlage "C"	Different	3/32"	Aluminum
DL911SCKDDU	Schlage "C"	Different	3/32"	Bronze

All Rim Cylinders can be combined for quantity pricing.

CRL Lock Indicator Set

- Use with DL2100 Series Deadlocks
- LOCKED in Red, and OPEN in Green Letters on White Background
- Includes 26" x 1-1/2" Header Sign

Lock Indicators work on most deadlocks for aluminum doors. The set includes one Lock Indicator and one Header Sign. Indicator is 1-5/16" standard width.

THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS

CAT. NO.	FINISH
DL2177A	Aluminum
DL2177DU	Bronze

Finishes can be combined for quantity pricing.

CRL Header Sign

- Adhesive Backed Decal with Black Letters on Aluminum Color Background

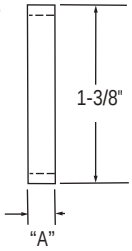
THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS

The Header Sign is required by many states to notify the public that this door can be used for egress during business hours. Simple peel off, stick on installation.

CAT. NO.	MINIMUM ORDER	WIDTH	HEIGHT	FINISH
DL2177HS	10 Each	26"	1-1/2"	Aluminum

CRL Straight Cylinder Rings

- For Spacing Mortise Key Cylinders
- Three Thicknesses
- Two Finishes



Straight Cylinder Rings are used to obtained proper cylinder depth so the locking cam and the lock mechanism align. One per package.

CAT. NO.	DIMENSION "A"	FINISH
DL2176AA	.157" (5/32")	Aluminum
DL2176AB	.197" (3/16")	Aluminum
DL2176AC	.256" (1/4")	Aluminum
DL2176DUA	.157" (5/32")	Bronze
DL2176DUB	.197" (3/16")	Bronze
DL2176DUC	.256" (1/4")	Bronze

All Cylinder Rings and Guards can be combined for quantity pricing.

CRL Cylinder Mounting Pad

- For Mounting Mortise Cylinders
- Includes Locking Ring
- Two Finishes

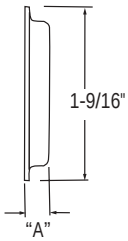
Cylinder Mounting Pads are used with Standard Mortise Cylinders with a MS Type Cam on Concealed Vertical Rod Panic Devices to allow key access from outside. One per package. Mounting screws included.

CAT. NO.	WIDTH	HEIGHT	FINISH
DL913A	1-11/16"	2-1/2"	Aluminum
DL913DU	1-11/16"	2-1/2"	Bronze

Finishes can be combined for quantity pricing.

CRL Flared Cylinder Rings

- For Spacing Mortise Key Cylinders
- Two Thicknesses
- Two Finishes



Flared Cylinder Rings are used to obtained proper cylinder depth so the locking cam and the lock mechanism align. One per package.

CAT. NO.	DIMENSION "A"	FINISH
DL2175AA	.157" (5/32")	Aluminum
DL2175AB	.197" (3/16")	Aluminum
DL2175DUA	.157" (5/32")	Bronze
DL2175DUB	.197" (3/16")	Bronze

All Cylinder Rings and Guards can be combined for quantity pricing.

CRL Cylinder Guard

- Hardened Steel Security Ring
- Free-Spinning Beveled Collar
- For Standard Face 5-Pin, 1-5/32" Mortise Key Cylinder
- For Use on Aluminum Doors

The beveled collar, free-spinning, hardened steel Cylinder Guard is used to prevent the removal of the cylinder with pliers or a pipe wrench. Cylinder Guard is furnished with retaining clip and two spacers. Available in aluminum or bronze finishes. One per package.

CAT. NO.	COLLAR HEIGHT	FINISH
DL2174A	3/8"	Aluminum
DL2174DU	3/8"	Bronze

All Cylinder Guards can be combined for quantity pricing.

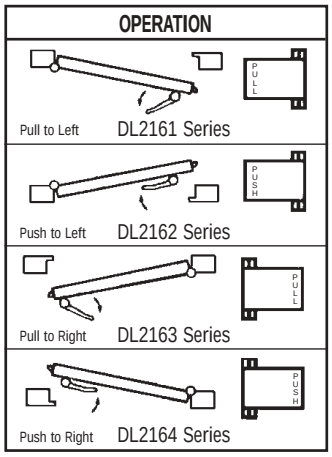
CRL Universal Push-Pull Paddle

- Field Reversible for Left or Right Hand Installations
- Fits CRL DL2140 Series, Adams Rite, S. Parker, I.D.C., Global and Primeline Deadlatches
- Available in Aluminum or Bronze Finishes

Cam Plug Included

Push to the Right
Paddle Shown

The Universal Push-Pull Paddle comes with cartridges which allow it to be applied to push or pull, left or right handed doors. It fits deadlatches with backsets from 7/8" to 1-1/2". Simple to follow instructions allow field reversal to meet your needs. Comes complete with cam plug, push and pull indicators, mounting screws, templates and directions. Measures approximately 5" by 4". Buying the paddle to meet your specifications from the chart below eliminates disassembling and reassembling internal parts. One per package.



CAT. NO.	OPERATION	FINISH
DL2161A	Pull Left/Push Right	Aluminum
DL2161DU	Pull Left/Push Right	Bronze
DL2161BR	Pull Left/Push Right	Brass
DL2161CH	Pull Left/Push Right	Chrome
DL2161BN	Pull Left/Push Right	Brushed Nickel
DL2161SC	Pull Left/Push Right	Satin Chrome
DL2162A	Push Left/Pull Right	Aluminum
DL2162DU	Push Left/Pull Right	Bronze
DL2162BR	Push Left/Pull Right	Brass
DL2162CH	Push Left/Pull Right	Chrome
DL2162BN	Push Left/Pull Right	Brushed Nickel
DL2162SC	Push Left/Pull Right	Satin Chrome
DL2163A	Pull Right/Push Left	Aluminum
DL2163DU	Pull Right/Push Left	Bronze
DL2164A	Push Right/Pull Left	Aluminum
DL2164DU	Push Right/Pull Left	Bronze

All Paddles and Lever Handles can be combined for quantity pricing.

CRL Cam Plug

- For Use with Push-Pull and Lever Handles
- Non-Handed, Reversible

The Cam Plug works with DL2160 Series Paddles and DL2150 Series Lever Handles. Interfaces with all CRL Deadlatches. One per package.

CAT. NO. DL2165

CRL Lever Handle

- Field Reversible for Left or Right Hand Installations
- Fits CRL DL2140 Series, Adams Rite, S. Parker, I.D.C., Global and Primeline Deadlatches
- Available in Aluminum or Bronze Finishes

Cam Plug Included

Turning lever downward will activate deadlatch. Heavy-duty spring will return the lever automatically to fully horizontal position. The escutcheon is 1-3/8" by 4", with a 1/4" square hardened spindle that interlocks in the cam plug. One per package.

CAT. NO.	HANDING	FINISH
DL2150LHA	Left	Aluminum
DL2150LHBN	Left	Brushed Nickel
DL2150LHBR	Left	Brass
DL2150LHCH	Left	Chrome
DL2150LHDU	Left	Bronze
DL2150LHSC	Left	Satin Chrome
DL2150RHA	Right	Aluminum
DL2150RHBN	Right	Brushed Nickel
DL2150RHBR	Right	Brass
DL2150RHCH	Right	Chrome
DL2150RHDU	Right	Bronze
DL2150RHSC	Right	Satin Chrome

All Paddles and Lever Handles can be combined for quantity pricing.

CRL Center Lock Strike

- Non-Handed
- Stainless Steel Strike
- Dust Box and Back-Up Plate Included

Back-Up Plate

Dust Box

Strike

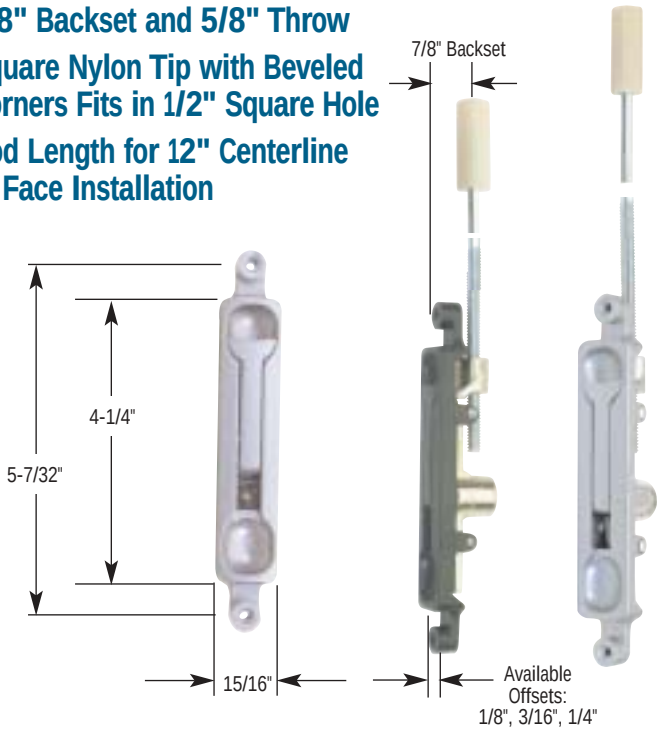
(Small 1-3/4" Wide Jamb Shown)

Center Lock Strikes come with all the necessary hardware for mounting. A Back-Up Plate is included for use in aluminum tubes, along with a Dust Box to finish off the installation. One per package.

SMALL 1-3/4" WIDE JAMB CAT. NO.	MEDIUM 4" WIDE JAMB CAT. NO.	LARGE 4-1/2" WIDE JAMB CAT. NO.	FINISH
DL4515	DL4540	DL4545	Brushed Stainless

CRL Flush Bolts

- Security Joint Between Lever and Piston
- Radiused Face with 1/8", 3/16" or 1/4" Offsets
- 7/8" Backset and 5/8" Throw
- Square Nylon Tip with Beveled Corners Fits in 1/2" Square Hole
- Rod Length for 12" Centerline of Face Installation



These Flush Bolts are designed to work on any radius face narrow stile aluminum door. Three different models are available in aluminum or bronze finishes, and include a Standard Nylon Flush Bolt Guide. One per package.

CAT. NO.	OFFSET	BACKSET	FINISH
DL2210A18*	1/8"	7/8"	Aluminum
DL2210DU18*	1/8"	7/8"	Bronze
DL2210A316	3/16"	7/8"	Aluminum
DL2210DU316	3/16"	7/8"	Bronze
DL2210A14	1/4"	7/8"	Aluminum
DL2210DU14	1/4"	7/8"	Bronze

*Our most popular models. All Bolt Kits can be combined for quantity pricing.

CRL Jackson 896 Mullion for Rim Panic Exit Devices

- Specially Designed Mullion for Increased Security

Extra heavy wall cross-reinforced extruded aluminum Mullion for pairs of doors. Furnished with a pair of installed strikes, and stabilizers to prohibit deflection of the doors. Secure floor and header mounting brackets for stability and easy installation. The Mullion can be removed for increased opening access.

CAT. NO.	HEIGHT	FINISH
896A	96"	Aluminum
896BRZ	96"	Bronze

Finishes can be combined for quantity pricing.

CRL Header Bolt Kit

- Inactive Leaf Lock When Used with Basic DL2110 Series Long Throw Deadlock in the Active Leaf
- 5/8" Throw Expanding Bolt
- Unit Complete with Rod Guide and Header Strike
- Minor Adjustments Can Be Made After Installation

The DL2240 Series Header Bolt Sets are designed to add a top-of-door third locking point for pairs of doors with a DL2110 Deadlock and a DL2230 Series Threshold Bolt Kit in the active leaf. The DL2240 Series Header Bolt is mounted in the inactive leaf. This additional bolt, triggered by the pivoted M.S. bolt, expands in a "scissors" action to center itself in its strike as it rises. This action saves the key holder from the difficulty of lining up the doors with three separate strikes. One per package.

CAT. NO.	CYLINDER CENTERLINE TO TOP OF DOOR
DL2240A	30-1/2" to 50"
DL2240B	55-5/8" to 77-1/2"
DL2240C	67" to 89"

All Bolt Kits can be combined for quantity pricing.

CRL Threshold Bolt Kit

- Complete Unit for Attachment to Basic Deadlock to Provide Two-Point Security
- 3/8" Hexagon Hardened Steel Bolt
- 11/16" Bolt Throw

Adding the DL2230 Series Threshold Bolt Kit to a DL2110 or DL2130 Deadlock provides maximum security by the turn of a key for pairs of doors. By simultaneously dropping a hardened steel hex bolt into the threshold, and pivoting the M.S. bolt into the mating door's stile, the two-point lock secures the entire double door entrance. One per package.

CAT. NO.	CYLINDER HEIGHT
DL2230	34" to 37"
DL2231	Up to 53-1/2"

All Bolt Kits can be combined for quantity pricing.

CRL Nylon Flush Bolt Guides

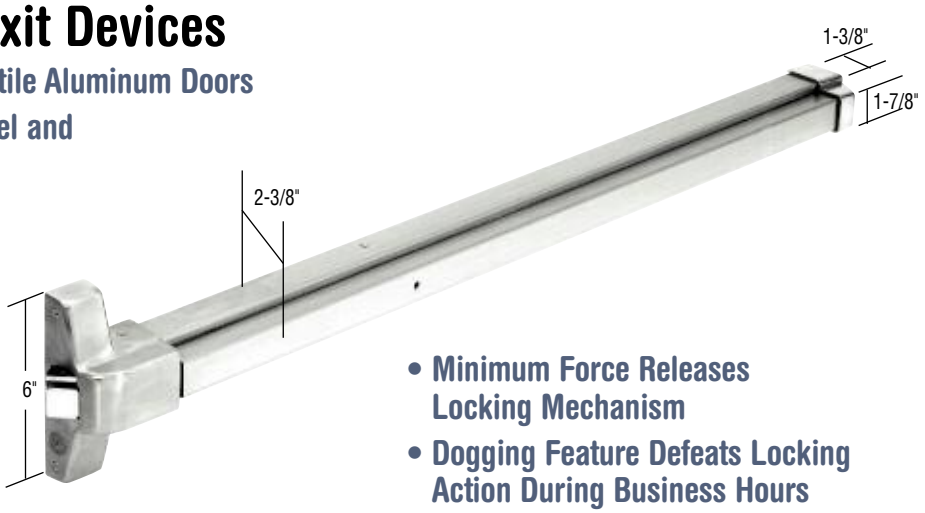
- Works with DL2210 Series Flush Bolts

Standard Flush Bolt Guide
CAT. NO. DL2210SG
One per package.

Extended Hole Flush Bolt Guide
CAT. NO. DL2210EG
One per package.

CRL Push Pad Rim Panic Exit Devices

- For Use with Narrow, Medium and Wide Stile Aluminum Doors
- Aluminum and Bronze Painted Carbon Steel and Stainless Steel Models to Choose From
- U.L. Listed



- Minimum Force Releases Locking Mechanism
- Dogging Feature Defeats Locking Action During Business Hours

Our Push Pad Rim Panic Devices can be used in a wide range of applications since they are designed to fit even narrow stile doors. Installations may be made on single doors, or double doors with a mullion. For your convenience, we have fabricated them with a 34-7/8" overall length so they are ready to install on 36" doors without any modification. Fitting to doors as narrow as 30" is easy, just cut the exit device body and replace the end cover. "Dogging", locking the Device in the open position, is easy with the supplied dogging wrench. A Blade Strike is included with each Exit Device.

Our Satin Stainless Steel DL950SS Panic Device is beautifully finished for special applications where matching looks and severe weather conditions exist.

CAT. NO.	MODEL
DL950A	Aluminum Finish
DL950DU	Bronze Finish
DL950SS	Stainless Steel

Finishes can be combined for quantity pricing.

Latch Detail

Blade Strike

CAT. NO. DL911SCKDA

(Can not be used on narrow stile aluminum doors)

Optional Rim Cylinder

CRL Cross Bar Panic Exit Devices

- Available as Concealed Vertical Rod and Rim Exit Devices
- For Use with Narrow, Medium and Wide Stile Aluminum Doors
- Retrofit Existing Similar Style Exit Devices
- Easy Field Installation with 42" Field Sizeable Cross Bar
- U.L. Listed

CRL's DL1100 Series Cross Bar Exit Device combines simplicity and durability. This device is a proven means of providing an economical means to satisfy both security and life safety requirements in a proven storefront type exit device. Available in both a Rim and Concealed Vertical Rod versions, this Exit Device is ideal for use with aluminum or hollow metal doors. The device is shipped with a standard 42" length cross bar that is field sizeable to fit your exact door size requirements.

CAT. NO.	TYPE	FINISH
DL1180A	Concealed Vertical Rod	Satin Aluminum
DL1180DU	Concealed Vertical Rod	Dark Bronze
DL1190LHRA	Left Hand-Reverse Bevel Rim	Satin Aluminum
DL1190RHRA	Right Hand-Reverse Bevel Rim	Satin Aluminum
DL1190LHRDU	Left Hand-Reverse Bevel Rim	Dark Bronze
DL1190RHRDU	Right Hand-Reverse Bevel Rim	Dark Bronze

Finishes can be combined for quantity pricing.

STANDARD FEATURES

Concealed Vertical Rod

- Non-Handed
- Shipped for Use with Standard 1-3/4" Thick Doors
- Rod Length Shipped Standard for 7 Foot High Doors
- Independent Top and Bottom Bolt Action - 1/2" Bolt Throw
- Requires No. DL913 Cylinder Mounting Pad when Using Standard Mortise Cylinder for Keyed Entry **(See Page F82)**

Rim Exit Device

- Handed - Non Reversible
- Shipped for Use with Aluminum or Hollow Metal Doors
- Shipped Standard with Roller Type Rim Strike
- Uses Standard Rim Type Cylinder for Keyed Entry **(See Page F82)**
- Mounting Pad Not Necessary

CRL Single and Back-to-Back Offset Pulls for Aluminum Doors

- Available in Five Architectural Finishes

SPECIFICATIONS:

NEW

MATERIAL:
1" Stainless Steel or Brass Tubing
1-1/4" Diameter Matching Backing Plates

DIMENSIONS:
Center-to-Center Vertical Mounting Holes: 10"
Pull Projection: 3-1/4"

MOUNTING:
Single: Concealed Shoulder Bolt for Riv-Nut
Back-to-Back: Concealed Shoulder Bolt

SINGLE CAT. NO.	BACK-TO-BACK CAT. NO.	FINISH
CD10BR	CD10X10BR	Polished Brass
CD10SA	CD10X10SA	Satin Anodized
CD10DU	CD10X10DU	Duranodic Bronze
CD10BS	CD10X10BS	Brushed Stainless
CD10PS	CD10X10PS	Polished Stainless

All Door Handles can be combined for quantity pricing.

CRL Combination Offset Push and Pull Sets for Aluminum Doors

- Available in Five Architectural Finishes

SPECIFICATIONS:

NEW

MATERIAL:
1" Stainless Steel or Brass Tubing
1-1/4" Diameter Matching Backing Plates

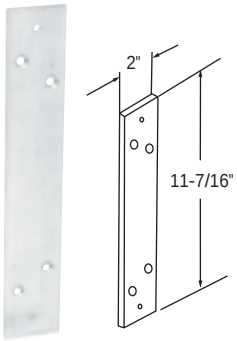
DIMENSIONS:
Center-to-Center Vertical Mounting Holes: 10"
Center-to-Center Horizontal Mounting Holes: 33"
Pull Projection: 3-1/4"
Push Bar Projection: 2-1/4"

MOUNTING:
Single: Decorative Thru-Bolt
Back-to-Back: Concealed Shoulder Bolt

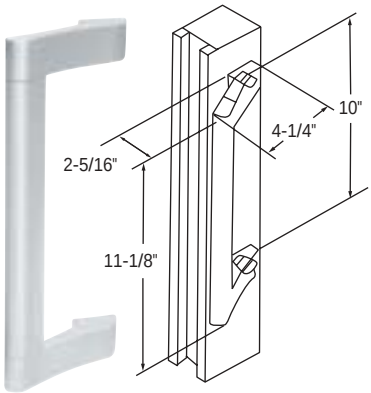
CAT. NO.	FINISH
CD10X33BR	Polished Brass
CD10X33SA	Satin Anodized
CD10X33DU	Duranodic Bronze
CD10X33BS	Brushed Stainless
CD10X33PS	Polished Stainless

All Door Handles can be combined for quantity pricing.

CRL Extruded Aluminum Pull Handle



DL916 - Mounting Plate for Wood or Metal Doors (Optional)



DL915 - Pull Handle

The Extruded Aluminum Pull Handle comes with two studs that are tapped (1/4-20 thread) into the aluminum door frame on 10" centers. Then the handle is slipped over the studs and secured with Allen screws to provide a concealed fastener look. Available in choice of Satin Anodized and Duranodic Bronze finishes. One per package.

CAT. NO.	DESCRIPTION	FINISH
DL915A	Pull Handle	Satin Anodized
DL915DU	Pull Handle	Duranodic Bronze
DL916A	Mounting Plate	Satin Anodized
DL916DU	Mounting Plate	Duranodic Bronze

Finishes can be combined for quantity pricing.

CRL Extruded Aluminum Push Bars

Extruded Aluminum Push Bar in your choice of aluminum or bronze finishes. 1/2" by 1-1/4" bar size. Furnished with J-Hook for mounting on aluminum doors.

CAT. NO.	FITS	FINISH
9520A	36" Doors	Aluminum
9520BRZ	36" Doors	Bronze

CRL Sex Bolts

Used for securing Push Bars, Surface Mounted Door Closers and other fixtures to 1-3/4" doors. Just drill a 3/8" hole and insert Sex Bolt. Its knurled back portion prevents it from turning. Available in aluminum and bronze finishes. Four per package.

CAT. NO.	THREAD SIZE	FINISH
8025	1/4" - 20	Aluminum
8025BRZ	1/4" - 20	Bronze

CRL Push-Pull Indicator Decals

Vertical

Horizontal

- Mylar Decals are Very Economical

Made of die-cut mylar, these Decals have a strong adhesive backing so you can stick them on any reasonably smooth metal, glass, plastic or wood surface. Aluminum letters on black background. Dimensions — Vertical: 1-3/8" by 5-3/4" ; Horizontal: 1-7/8" by 4-1/4".

CAT. NO.	TYPE	COLOR	STYLE
566VA	Push	Aluminum/Black	Vertical
566HA	Push	Aluminum/Black	Horizontal
567VA	Pull	Aluminum/Black	Vertical
567HA	Pull	Aluminum/Black	Horizontal

25 per package. Minimum order is 25 each.

CRL Decals for Business Doors

CAT. NO. 148B0* For Single Doors

CAT. NO. 149B0* For Double Doors

Designed to be applied above business doors, these decals are self-adhesive and easy to apply. Can be used on either light or dark surfaces because each decal has the message in 1" high white letters and black letters printed on a clear backing. Adheres to metal, glass, painted wood or any clean, dry surface. Letters on single door message measure 1" by 24"; on double door message measures 1" by 25". For interior or exterior use. Decals are sold individually.

*Required in California and some other states on business doors not having an approved panic system.

CRL Handicap Access Door Decal

- For Glass Doors
- Visible from Both Sides
- Measures 6" x 6" Overall

Handicap Access Decal adheres to the interior surface of glass door. Visible from both sides of lite. Clear figure with blue background.

CAT. NO. 150B0

CRL Engraved Aluminum Push-Pull Signs

- Letters Engraved in Aluminum Plates with Adhesive Foam Tape Backing
- Choose Black on Aluminum or White on Bronze

White on Bronze

Black on Aluminum

These Push-Pull Signs have letters engraved in aluminum. There are two finishes available: aluminum with black painted letters, and bronze with white painted letters. Mount with pressure sensitive foam tape back. Dimensions: 1" by 4-9/16"; letters: 5/8" high. One per package.

CAT. NO.	TYPE	COLOR	STYLE
1445G	Push	Black/Aluminum	Vertical
1445GW	Push	White/Bronze	Vertical
1446G	Pull	Black/Aluminum	Vertical
1446GW	Pull	White/Bronze	Vertical

CRL Deadlatch Electric Strike Set

- Non-Handed
- 12 Volt DC Current

Transformer Electric Strike Lip Extension

This Electric Strike releases when 12V DC current is supplied. Comes with face plate and mounting clips. Transformer must be ordered separately. Optional Extension Lips to fill cut-out opening in 4" or 4-1/2" tubes.

CAT. NO.	DESCRIPTION
ST125A	Electric Strike with Aluminum Face Plate
ST125DU	Electric Strike with Bronze Face Plate
ST125TR	12V DC/1.2 Amp Transformer
STLE4	Lip Extension for 4" Tube
STLE45	Lip Extension for 4-1/2" Tube

All Strike Sets can be combined for quantity pricing.

CRL EZ Tone Door Chime

- Easy Do-It-Yourself Installation
- Works Without Batteries or Electricity

Because the EZ Tone Door Chime never needs batteries or electricity, it can easily be installed on all types of doors and jambs. When the door is opened, a magnetic striker hits the chime bar and produces a pleasant, audible tone. Easy instructions, mounting templates and hardware included. The EZ Tone is economical and trouble free, no maintenance is ever required.

CAT. NO.	FINISH
TDK13GRY	Light Gray
TDK13BRZ	Bronze

CRL Door Closer Program

A Complete Line of Overhead, Floor and Surface Mounted Door Closers

UL10C

Surface Mounted Door Closers

Pages F90-F101

- For Installation on Wood, Aluminum and Metal Doors
- Choice of Spring Power Size Ranges (1/2 to 6)
- Adjustable Closing Speeds
- Backcheck Control
- 10 Year Warranty

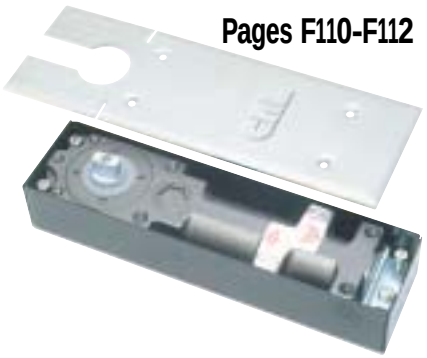
Overhead Concealed Closers

Pages F102-F109

- Models with Side or End Load Arms and Pivots
- Wide Variety of Models and Accessories to Replace Most Popular Closers

Concealed Floor Closers

Pages F110-F112



It has long been a goal of C.R.Laurence Company to offer a door closer program that would cover the needs of the glass and glazing industry. Closers of the highest quality, stocked at all CRL warehouses so our customers could get the closers they needed, when they needed them, and not have to incur the routinely high freight costs and delays of shipping.

We have assembled a complete line of commercial grade Surface Mounted, Overhead Concealed and Floor Mount Closers. The selection includes all types of installations for regular, center-hung and offset hung doors. Our Surface Mounted Door Closers have the option of adjustable spring power to meet A.D.A. (Americans with Disabilities Act) requirements, and come in aluminum, bronze, bright chrome and bright gold finishes.

Our Overhead Concealed Door Closers come in spring sizes from Interior (A.D.A. 5 lb.) to Heavy. They are available in kits that include top arms and bottom pivots, or closer bodies only, with mounting clips for the replacement trade. Our Floor Closers are available in three models (shallow depth, narrow width or heavy weight) to meet new and retrofit requirements. All are U.L. listed, and carry 5 to 10 year warranties against manufacturer's defects.

The following pages detail our complete Door Closer Program, with our full range of closers and mounting accessories.

CRL Technical Assistance

- Available Via Toll Free Phone, Toll Free Fax, or Over the Internet

CRL Technical Sales Experts are just a toll free phone call away. They are always ready to help you select the door closer and accessories you need to do the job right. You may also E-mail inquiries to:

techsales@crlaurence.com

TOLL FREE PHONE
(800) 421-6144 U.S.
(877) 421-6144 Canada
ASK FOR EXT. 777

6 A.M.-5 P.M. Pacific Time

TOLL FREE FAX
(800) 587-7501 or
(800) 262-3299

CRL DC50 Series ANSI Grade 1 Surface Mounted Door Closers

- Engineered for Commercial and Residential Use
- Dual Valve Closing and Latching Speed Control
- Reversible for Standard, Top-Jamb and Parallel Arm Installations on Aluminum, Metal and Wood Doors
- Aluminum and Dark Bronze Finishes
- Custom Colors Available
- 10 Year Warranty
- ANSI A156.4 Grade 1
- U.L. Listed

UL10C

CRL DC50 Series Surface Mounted Door Closers cover a wide range of door sizes and weights, from a Size 1 (DC51) intended for light commercial and residential applications, to a Size 5 (DC55) for heavy commercial door applications. With both closing and latching speeds independently adjustable, they will satisfy your customer's requirements for smooth operating door control. An adjustable backcheck function is standard on all DC52, DC53, DC54 and DC55 Closers to protect door and hardware from damage due to wind or violent door swings in the opening cycle. All DC50 Series Closers are supplied with Parallel Arm Brackets and mounting hardware permitting universal installation for regular, top jamb or parallel arm applications. Optional accessories, such as Drop Plates and Hold-Open Arms, are available for special installations. (See page F93)

DC50 SERIES SURFACE MOUNTED DOOR CLOSERS

CAT. NO.	FINISH	SIZE	CLOSER DESCRIPTION
DC51A	Aluminum	1	Light Commercial / Residential
DC51BRZ	Dark Bronze	1	Light Commercial / Residential
DC52A	Aluminum	2	Light-Duty
DC52BRZ	Dark Bronze	2	Light-Duty
DC53A	Aluminum	3	Standard-Duty
DC53BRZ	Dark Bronze	3	Standard-Duty
DC54A	Aluminum	4	Standard-Duty
DC54BRZ	Dark Bronze	4	Standard-Duty
DC55A	Aluminum	5	Heavy-Duty Commercial
DC55BRZ	Dark Bronze	5	Heavy-Duty Commercial

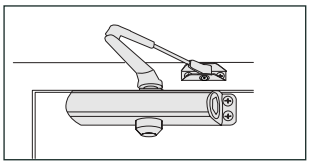
All CRL Door Closers can be combined for quantity pricing.

CLOSER SELECTION DATA

CLOSER MODEL	CLOSER SIZE	APPLICABLE DOOR SIZE (WIDTH)			APPLICABLE DOOR WEIGHT
		INTERIOR DOOR	EXTERIOR DOOR		
			SWING OUT	SWING IN	
DC51A DC51BRZ	1	32" (0.81m)	30" (0.76m)	26" (0.66m)	33-66 Lbs. (15-30kg)
DC52A DC52BRZ	2	36" (0.91m)	32" (0.81m)	28" (0.71m)	66-99 Lbs. (30-45kg)
DC53A DC53BRZ	3	42" (1.07m)	36" (0.91m)	32" (0.81m)	99-143 Lbs. (45-65kg)
DC54A DC54BRZ	4	48" (1.22m)	42" (1.07m)	36" (0.91m)	143-187 Lbs. (65-85kg)
DC55A DC55BRZ	5	54" (1.37m)	48" (1.22m)	42" (1.07m)	187-264 Lbs. (85-120kg)

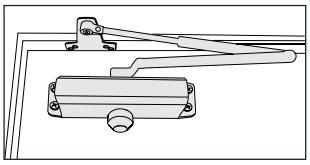
Surface Mounted Closer Universal Mounting Options

- Non-Handed, Reversible Closers Can Be Mounted Three Different Ways



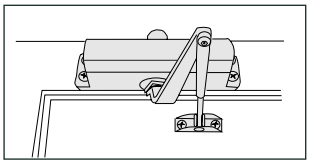
Regular Projecting Arm Installation

Closer installed on "PULL" side of the door.



Parallel Arm Installation

Closer installed on "PUSH" side of the door.

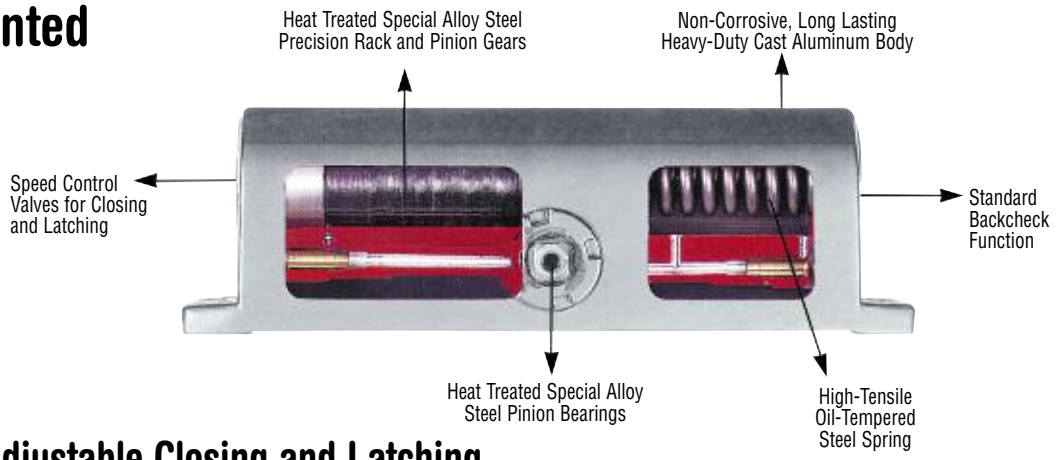


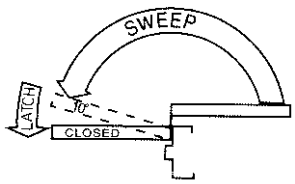
Top Jamb Installation

Closer installed above door on "PUSH" side.

CRL Surface Mounted Door Closers

DC50 Series Features



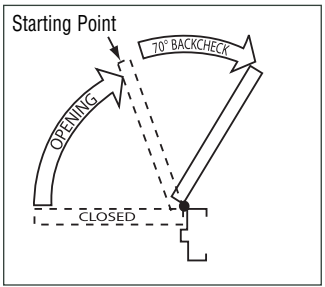


Standard Closing Cycle

Adjustable Closing and Latching

- Closing Speed (Sweep) can be variably adjusted to suit individual requirements.
- Latching Speed closing action accelerates over the last few degrees of arc (approx. 5°-10°) in order to overcome latch resistance, door seals or wind pressure.

- **Each DC50 Series Closer is Conveniently Packaged with Instructions**
- **Self Adhesive Template for Quick and Easy Installation**

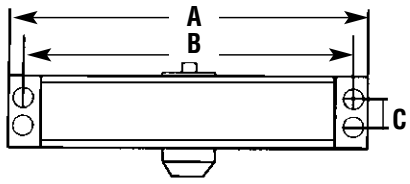


Backcheck Control

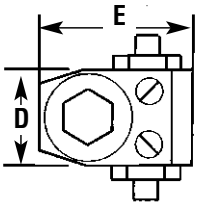
- Backcheck Control adjusts to provide variable braking action from approximately 70° to beyond 90°. This helps prevent damage to the door or adjacent wall surface. However, an auxiliary floor or overhead stop is always recommended for complete protection of the entryway and hardware.

DIMENSIONS

SPECIFICATION	CLOSER MODEL				
	DC51	DC52	DC53	DC54	DC55
A: Length of Closer Body	7-1/8" (181mm)	8-7/8" (225mm)	8-7/8" (225mm)	9-3/4" (247mm)	9-3/4" (247mm)
B: Horizontal Mounting Holes	6-1/2" (165mm)	8-3/16" (208mm)	8-3/16" (208mm)	9-1/16" (230mm)	9-1/16" (230mm)
C: Vertical Mounting Holes	3/4" (19mm)	3/4" (19mm)	3/4" (19mm)	3/4" (19mm)	3/4" (19mm)
D: Closer Body Height	1-5/8" (41mm)	1-31/32" (50mm)	1-31/32" (50mm)	1-31/32" (50mm)	1-31/32" (50mm)
E: Projection from Door	2-15/32" (63mm)	2-29/32" (73mm)	2-29/32" (73mm)	2-29/32" (73mm)	2-29/32" (73mm)



Front View



End View

CRL Private Label Door Closers for Large Volume Customers

- **Become More Recognized to Your Customers with Private Labeling**

We have inventory of plain packaged DC53, DC54 and DC55 Fixed Sized Surface Mounted Door Closers ready for your labels. Other types are also available. Contact CRL Technical Sales at (800) 421-6144, Ext. 777 to discuss the program and pricing in detail.

CRL PR80 Series Adjustable Spring Power Surface Mounted Door Closers

PR82 Series only

UL10C

- **Multi-Size Adjustable Spring Power Closers Ranging in Size from 1 to 5**
- **Barrier Free Models to Meet A.D.A. Barrier Free Requirements**
- **Applicable for Doors Ranging from 24" to 54" Wide and 33 to 264 Pounds**
- **10 Year Warranty**
- **U.L. Listed**

The CRL PR80 Series of Multi-Size Adjustable Spring Power Surface Mounted Door Closers are the perfect closers to replace your single size surface closer inventory. This compact closer matches the common 9-1/16" x 3/4" hole template, making it ideal for both new and retrofit applications. The closers adjust in a range from Size 1 through 5 to accommodate doors from 24" through 54" (0.61 - 1.37 meters) and up to 264 pounds (120 kilograms). A Barrier-Free (low opening resistance) model is available to comply with A.D.A. opening force requirements. Closing and latching speed controls are independently adjustable, and the adjustable backcheck feature helps prevent damage to the closer, door, and adjacent surface should the door be violently swung open due to wind or heavy pedestrian traffic. All PR80 Closers are U.L. listed and warranted for ten years. Parallel Arm Brackets and mounting hardware are included with each closer permitting universal installation for regular, top jamb or parallel arm applications. The closer is supplied with a standard plastic slim style cover. Optional accessories, such as Drop Plates and Hold-Open Arms are available for special installations. (See page F93)

SUPPLIED WITH BODY COVERS

Aluminum
CAT. NO. DC5CVRA

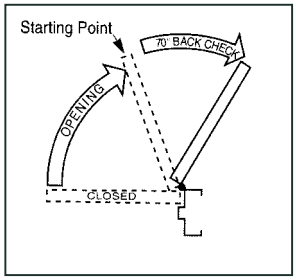
Dark Bronze
CAT. NO. DC5CVRBRZ

- **Each PR80 Series Closer is Conveniently Packaged with Instructions**
- **Self Adhesive Template for Quick and Easy Installation**

PR80 SERIES SURFACE MOUNTED DOOR CLOSERS

CAT. NO.	FINISH	SIZE	CLOSER DESCRIPTION
PR80A	Aluminum	2 - 5	Adjustable
PR80DU	Dark Bronze	2 - 5	Adjustable
PR82BFA	Aluminum	1 - 4	Barrier Free / Adjustable
PR82BFDU	Dark Bronze	1 - 4	Barrier Free / Adjustable

All CRL Door Closers can be combined for quantity pricing.



Backcheck Control

- The Backcheck Control adjusts to provide variable braking action from approximately 70° to beyond 90°. This helps prevent damage to the door or adjacent wall surface. However, an auxiliary floor or overhead stop is always recommended for complete protection of the entryway and hardware.

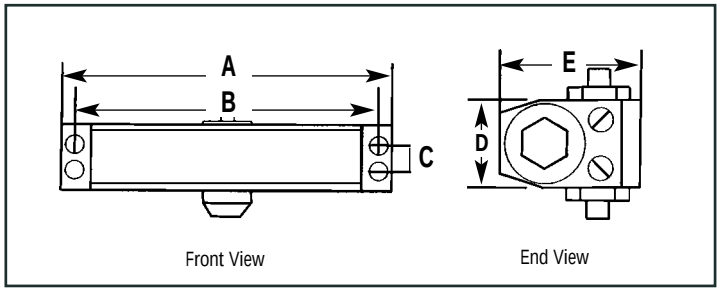
Barrier Free Feature

- Provides a lighter powered spring to allow low opening resistance but provide acceptable door control. The opening force can be adjusted to comply with A.D.A., and as outlined in ANSI A117.1.

CLOSER SELECTION DATA

CLOSER MODEL	APPLICABLE DOOR SIZE (WIDTH)				
	CLOSER SIZE	INTERIOR DOOR	EXTERIOR DOOR		APPLICABLE DOOR WEIGHT
			SWING OUT	SWING IN	
PR80	2 - 5	36 - 54" (0.91-1.37m)	32 - 48" (0.81-1.22m)	28 - 42" (0.71-1.07m)	66 - 264 Lbs (30-120kg)
PR82BF	1 - 4	32 - 48" (0.81-1.22m)	28 - 42" (0.71-1.07m)	24 - 36" (0.61-0.91m)	33 - 187 Lbs (15-85kg)

DIMENSIONS



SPECIFICATION	PR80 SERIES	WITH COVER
A: Length of Closer Body	9-3/4" (248 mm)	10-5/8" (270mm)
B: Horizontal Mounting Holes	9-1/16" (230mm)	9-1/16" (230mm)
C: Vertical Mounting Holes	3/4" (19mm)	3/4" (19mm)
D: Closer Body Height	1-25/32" (45mm)	2-1/16" (53mm)
E: Projection From Door	2-29/32" (73mm)	2-15/16" (75mm)

CRL Accessories for DC52-DC55 and PR80 Series Surface Mounted Door Closers

CRL DC52-DC55 and PR80 Series Surface Mounted Door Closer Accessories are intended to support a wide range of mounting options and applications. Contact the CRL Technical Sales Department at (800) 421-6144 Ext. 777, or e-mail **techsales@crlaurence.com** if you have any questions or special requirements.

Note: Not all accessories are applicable to our DC51 Surface Mounted Door Closer

Body Covers

Simple slip on installation.

CAT. NO.	FINISH	FIT CLOSERS
DC5CVRA	Aluminum	DC52A - DC55A PR80A & PR82BFA
DC5CVRBRZ	Dark Bronze	DC52BRZ - DC55BRZ PR80DU & PR82BFDU

Hold Open Arms

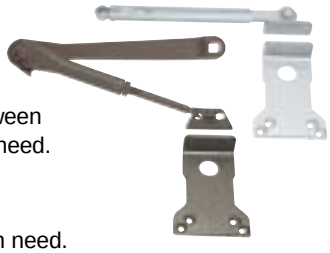
Parallel Hold Open Bracket Included

Friction Type

Provides Hold Open Function between 90˚ - 180˚ for occasional Hold Open need.

Posi-Hold Type

Provides Hold Open Function at a selected point for frequent Hold Open need.



FRICTION TYPE CAT. NO.	POSI-HOLD TYPE CAT. NO.	FINISH	FIT CLOSERS
DCHOAA	DCPHOAA	Aluminum	DC52A - DC55A PR80A & PR82BFA
DCHOABRZ	DCPHOABRZ	Dark Bronze	DC52BRZ - DC55BRZ PR80DU & PR82BFDU

Wide Drop Plates

For use with DC50 and PR80 Series Closers. Screw pack included.

CAT. NO.	FINISH	DIMENSIONS	FIT CLOSERS
DC53DPA	Aluminum	8-7/8" X 3-1/2"	DC52A & DC53A
DC53DPBRZ	Dark Bronze	8-7/8" X 3-1/2"	DC52BRZ & DC53BRZ
DC54DPA	Aluminum	9-3/4" X 3-1/2	DC54A & DC55A PR80A & PR82BFA
DC54DPBRZ	Dark Bronze	9-3/4" X 3-1/2"	DC54BRZ & DC55BRZ PR80DU & PR82BFDU

Sex Bolt Sets

Fits all CRL Surface Mounted Closers. Four per pack.

CAT. NO.	FINISH
DCSBA	Aluminum
DCSBBRZ	Dark Bronze

Parallel Arm Brackets

For use with Regular Non-Hold Open Arms.

CAT. NO.	FINISH	CLOSER APPLICATION
DC7PABA	Aluminum	DC51A - DC55A PR80A & PR82BFA
DC7PABBRZ	Dark Bronze	DC51BRZ - DC55BRZ PR80DU & PR82BFDU

Regular Arms

For use with DC50 and PR80 Series Closers

CAT. NO.	FINISH	CLOSER APPLICATION
DC50CAA	Aluminum	DC52A - DC55A PR80A & PR82BFA
DC50CABRZ	Dark Bronze	DC52BRZ - DC55BRZ PR80DU & PR82BFDU

Narrow Drop Plates

For use with DC50 and PR80 Series Closers. Screw pack included.

CAT. NO.	FINISH	DIMENSIONS	FIT CLOSERS
DC53NDPA	Aluminum	8-7/8" X 2-5/16"	DC52A & DC53A
DC53NDPBRZ	Dark Bronze	8-7/8" X 2-5/16"	DC52BRZ & DC53BRZ
DC54NDPA	Aluminum	9-3/4" X 2-5/16"	DC54A & DC55A PR80A & PR82BFA
DC54NDPBRZ	Dark Bronze	9-3/4" X 2-5/16"	DC54BRZ & DC55BRZ PR80DU & PR82BFDU

Replacement Screw Packages

Complete set of Replacement Screws.

CAT. NO.	FINISH	CLOSER APPLICATION
DCSA	Aluminum	DC51A - DC55A PR80A & PR82BFA
DCSBRZ	Dark Bronze	DC51BRZ - DC55BRZ PR80DU & PR82BFDU

CRL PR70 Series Adjustable Spring Power Surface Mounted Door Closers

- Multi-Size Adjustable Spring Power Closers Ranging in Size BF1/2 to 6
- Barrier Free and Delayed Action Models to Meet A.D.A. Barrier-Free Requirements
- Applicable for Doors Weighing 22 to 330 Pounds
- Aluminum and Dark Bronze Finishes
- 10 Year Warranty
- U.L. Listed

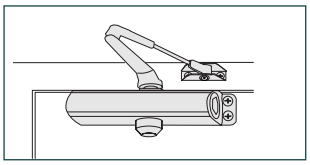
UL10C

• Bright Finish Models Available
See Page F96

The CRL PR70 Series of Multi-Size Adjustable Spring Power Surface Mounted Door Closers are a range of Closers offering A.D.A. Barrier-Free (low opening resistance), Delayed Action models to allow adjustable delayed closing, and heavy-duty full range models for full door control of heavier commercial doors. They are also available in Bright Gold and Polished Chrome finishes to complement most architectural finish requirements. The Delayed Action feature adjusts the time a door will remain open to facilitate ease of progress through the opening. This feature is particulary valuable in health facilities and public buildings that require door closers to momentarily stay open. Closing and latching speed controls are independently adjustable, and an adjustable backcheck feature helps prevent damage to the closer, door, and adjacent structures should the door be violently swung open due to wind or heavy pedestrian traffic. All PR70 Closers are U.L. listed and warranted for ten years. Parallel Arm Brackets and mounting hardware are included with each closer permitting universal installation for regular, top jamb or parallel arm applications. Optional accessories, such as Drop Plates and Hold-Open Arms are available for special installations. (See page F96).

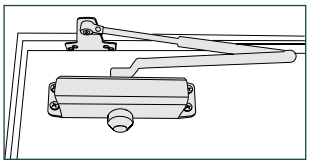
Surface Mounted Closer Universal Mounting Options

- Non-Handed, Reversible Closers Can Be Mounted Three Different Ways



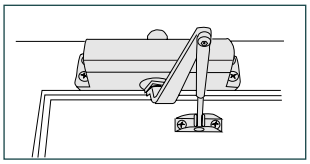
Regular Projecting Arm Installation

Closer installed on "PULL" side of the door.



Parallel Arm Installation

Closer installed on "PUSH" side of the door.



Top Jamb Installation

Closer installed above door on "PUSH" side.

PR70 SERIES SURFACE MOUNTED DOOR CLOSERS

CAT. NO.	FINISH	SIZE	CLOSER DESCRIPTION
PR70BFA	Aluminum	1/2 - 4	Barrier-Free / Adjustable
PR70BFDU	Dark Bronze	1/2 - 4	Barrier-Free / Adjustable
PR72DAA	Aluminum	1/2 - 4	Delayed Action / Adjustable
PR72DADU	Dark Bronze	1/2 - 4	Delayed Action / Adjustable
PR74BCA	Aluminum	2 - 6	Adjustable
PR74BCDU	Dark Bronze	2 - 6	Adjustable
PR76DAA	Aluminum	2 - 6	Delayed Action / Adjustable
PR76DADU	Dark Bronze	2 - 6	Delayed Action / Adjustable

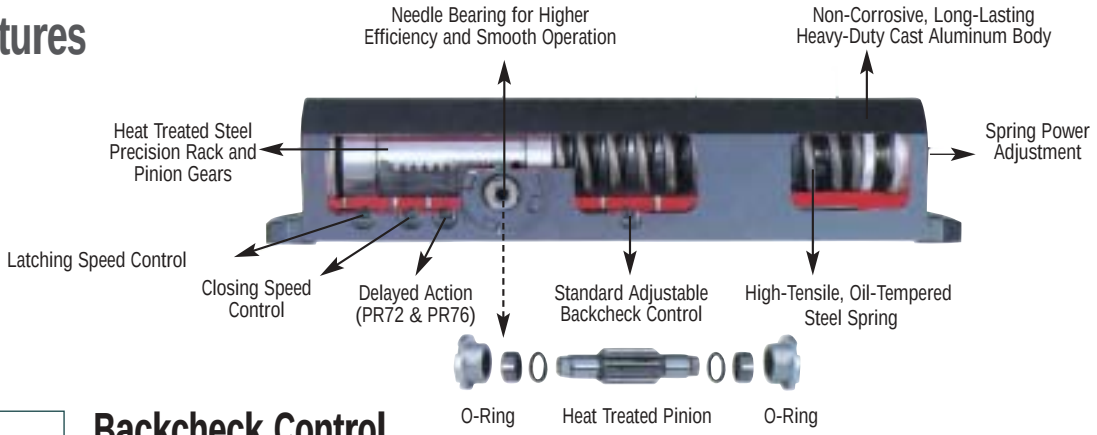
All CRL Door Closers can be combined for quantity pricing.

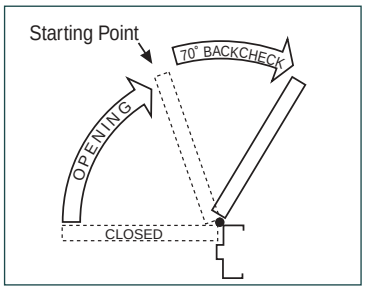
CLOSER SELECTION DATA

CLOSER MODELS	CLOSER SIZE	APPLICABLE DOOR SIZE (WIDTH)			APPLICABLE DOOR WEIGHT
		INTERIOR DOOR	EXTERIOR DOOR		
			SWING OUT	SWING IN	
PR70BF	1/2 - 4	28" - 48" (0.71 - 1.22m)	24" - 42" (0.76 - 1.07m)	20" - 36" (0.66 - 1.91m)	22-187 Lbs. (10 - 85 kg)
PR72DA	1/2 - 4	28" - 48" (0.71 - 1.22m)	24" - 42" (0.76 - 1.07m)	20" - 36" (0.66 - 1.91m)	22-187 Lbs. (10 - 85 kg)
PR74BC	2 - 6	36" - 58" (0.91 - 1.47m)	32" - 52" (0.81 - 1.32m)	28" - 48" (0.71 - 1.22m)	66-330 Lbs. (30 - 150 kg)
PR76DA	2 - 6	36" - 58" (0.91 - 1.47m)	32" - 52" (0.81 - 1.32m)	28" - 48" (0.71 - 1.22m)	66-330 Lbs. (30 - 150 kg)

CRL Adjustable Spring Power Surface Mounted Door Closers

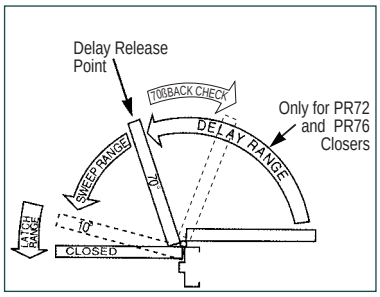
PR70 Series Features





Backcheck Control

- Backcheck Control adjusts to provide variable braking action from approximately 70° to beyond 90°. This helps prevent damage to the door or adjacent wall surface. However, an auxiliary floor or overhead stop is always recommended for complete protection of the entryway and hardware.

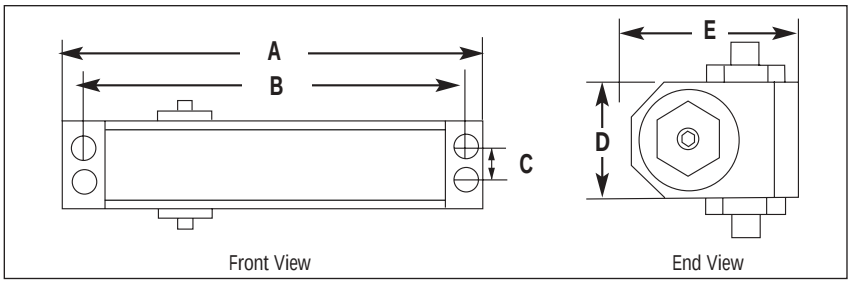


Delayed Action Barrier Free Closers

- Delayed Action Closing is an optional hydraulic feature of PR72 and PR76 Series Closers that adds a third speed range to the closing cycle. This feature becomes effective when the door is opened and released at any point beyond 70°. The amount of time delay depends on the combination of the angle of door release and valve adjustment for a variable time to facilitate ease of progress through the opening. This feature is particularly valuable in health care facilities such as hospitals, nursing homes and public buildings that require door closers to delay closing to comply with A.D.A. regulations.

- **Each PR70 Series Closer is Conveniently Packaged with Instructions**
- **Self Adhesive Templates for Quick and Easy Installation**

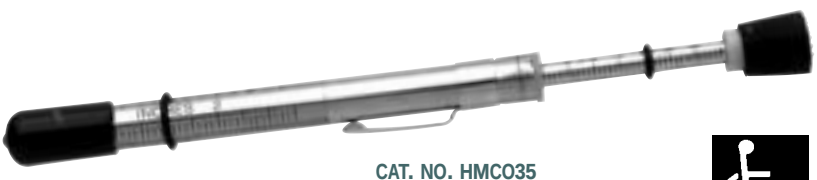
DIMENSIONS



SPECIFICATION	DIMENSION
A: Length of Closer Body	11-23/32" (298mm)
B: Horizontal Mounting Holes	11-3/32" (282mm)
C: Vertical Mounting Holes	3/4" (19mm)
D: Closer Body Height	1-27/32" (47mm)
E: Projection from Door	2-3/8" (60mm)

CRL Door Pressure Gauge

- **Pocket Sized Tool is Simple to Use**
- **Use to Determine if Amount of Force Required to Open Doors Meets A.D.A. Regulations**

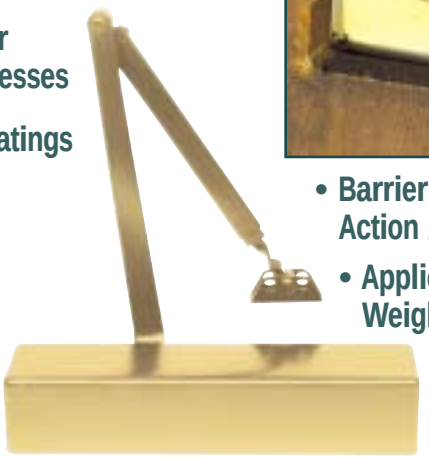


CAT. NO. HMCO35

Our Door Pressure Gauge shows amount of force (pounds or kilograms) required to open doors so you can determine if door meets A.D.A. regulations. An absolutely vital tool if working on doors in facilities requiring full access to disabled persons. Can also be used to determine belt tensions on auxiliary equipment.

CRL PR70 Series Bright Gold and Chrome Adjustable Spring Power Surface Mounted Door Closers

- New Bright Gold and Chrome Finishes for Restaurants and "High End" Retail Businesses
- Adjustable 1/2 to 4 Spring Power Ratings to Meet A.D.A. Requirements
- 10 Year Warranty
- U.L. Listed



- Barrier Free and Delayed Action / Barrier Free Models
- Applicable for Doors Weighing 22 to 187 Pounds

UL10C

Our Adjustable Spring Power Barrier Free Surface Mounted Door Closers now come in two new finishes that will complement upscale interiors. Whether you select the Bright Gold or Chrome finish, what you get inside is the same high quality, long life Adjustable Spring Power Door Closer that has made our PR70 Series so popular. These new finishes give designers more choices when planning the interiors of restaurants and bars, night clubs, retail stores and other places where an ordinary closer might detract from the overall interior design. They meet the exact same standards as the Adjustable Closers shown on page F94, they just look better doing it.

PR70 SERIES BRIGHT FINISH SURFACE MOUNTED DOOR CLOSERS

CAT. NO.	FINISH	SIZE	CLOSER DESCRIPTION
PR70BFBG	Bright Gold	1/2 - 4	Barrier Free / Adjustable
PR70BFCH	Bright Chrome	1/2 - 4	Barrier Free / Adjustable
PR72DABG	Bright Gold	1/2 - 4	Delayed Action / Adjustable
PR72DACH	Bright Chrome	1/2 - 4	Delayed Action / Adjustable

All CRL Door Closers can be combined for quantity pricing. See page F94 for closer specifications.

CRL Accessories for Adjustable Spring Power Surface Mounted Door Closers

Our full range of Door Closer Accessories expand your mounting options, and we stock them in finishes that match our PR70 Series Surface Mounted Door Closers.

Contact CRL Technical Sales if you have questions or special requirements for Surface Mounted Door Closers. Call toll free (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

Flat Drop Plates

Narrow and Wide Drop Plates for use with PR70 Series Closers. Screw Pack included.

CAT. NO.	FINISH	DIMENSIONS	FIT CLOSERS
Narrow Back Plate			
PR70RCPA	Aluminum	11-7/8" x 2"	PR70/72/74/76A
PR70RCPDU	Dark Bronze	11-7/8" x 2"	PR70/72/74/76DU
Wide Drop Plate			
PR70DPA	Aluminum	11-7/8" x 3-1/2"	PR70/72/74/76A
PR70DPBRZ	Dark Bronze	11-7/8" x 3-1/2"	PR70/72/74/76DU
PR70DPBG	Bright Gold	11-7/8" x 3-1/2"	PR70/72BG
PR70DPCH	Bright Chrome	11-7/8" x 3-1/2"	PR70/72CH

Sex Bolt Sets

Fit all CRL Surface Mounted Closers. Four per pack.

CAT. NO.	FINISH
DCSBA	Aluminum
DCSBBRZ	Dark Bronze

Hold Open Arms

Includes Parallel Hold Open Bracket

Friction Type

Provides Hold Open Function between 90˚ - 180˚ for occasional Hold Open need.

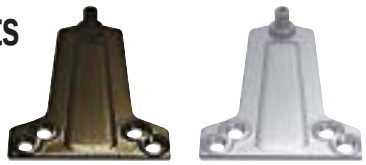
Posi-Hold Type

Provides Hold Open Function at a selected point for frequent Hold Open need.

FRICTION TYPE CAT. NO.	POSI-HOLD TYPE CAT. NO.	FINISH	FIT CLOSERS
DCHOAA	DCPHOAA	Aluminum	PR70/72/74/76A
DCHOABRZ	DCPHOABRZ	Dark Bronze	PR70/72/74/76DU
DCHOABG	DCPHOABG	Bright Gold	PR70/72BG
DCHOACH	DCPHOACH	Bright Chrome	PR70/72CH

Parallel Arm Brackets

For use with a Regular Non-Hold Open Arm.



CAT. NO.	FINISH	FIT CLOSERS
DC9PABA	Aluminum	PR70/72/74/76A
DC9PABBRZ	Dark Bronze	PR70/72/74/76DU

CRL DC60 Series Rectangular Style Surface Mounted Door Closers

CRL's DC60 Series Rectangular Style Surface Mounted Door Closers are commonly referred to as European Style. Their contemporary slim design only projects 1-19/32" from the door. The closer is available in Sizes 2, 3 and 4, and will accommodate interior doors up to 48" wide. The DC60 Series is supplied with a standard backcheck feature to protect the door and hardware from damage due to wind or violent door swings in the opening cycle. Both the closing and latching speeds are independently adjustable, and will satisfy your customer's requirements for smooth operating door control. As with all CRL Closers, the DC60 Series is U.L. listed and warranted for ten years. Parallel Arm Brackets and mounting hardware are included with each closer, permitting universal installation for regular, top jamb or parallel arm applications.

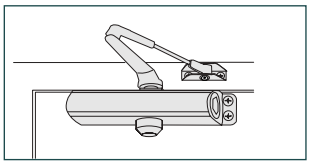
- **Contemporary European Slim Rectangular Design**
- **Independent Valves to Adjust Closing and Latching Speeds**
- **Aluminum and Dark Bronze Finishes**
- **10 Year Warranty**
- **U.L. Listed**

UL10C

- **Each DC60 Series Closer is Conveniently Packaged with Instructions**

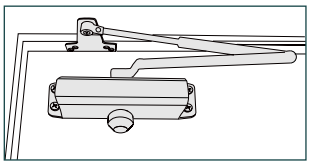
Surface Mounted Closer Universal Mounting Options

- **Non-Handed, Reversible Closers Can Be Mounted Three Different Ways**



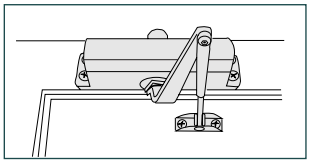
Regular Projecting Arm Installation

Closer installed on "PULL" side of the door.



Parallel Arm Installation

Closer installed on "PUSH" side of the door.



Top Jamb Installation

Closer installed above door on "PUSH" side.

DC60 SERIES SURFACE MOUNTED DOOR CLOSERS

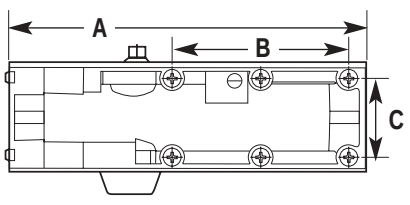
CAT. NO.	FINISH	SIZE	CLOSER APPLICATION
DC62A	Aluminum	2	Light-Duty Commercial/Residential
DC62BRZ	Dark Bronze	2	Light-Duty Commercial/Residential
DC63A	Aluminum	3	Standard-Duty
DC63BRZ	Dark Bronze	3	Standard-Duty
DC64A	Aluminum	4	Standard-Duty
DC64BRZ	Dark Bronze	4	Standard-Duty

All CRL Door Closers can be combined for quantity pricing.

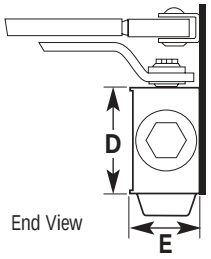
CLOSER SELECTION DATA

CLOSER MODELS	CLOSER SIZE	APPLICABLE DOOR SIZE (WIDTH)			APPLICABLE DOOR WEIGHT
		INTERIOR DOOR	EXTERIOR DOOR		
			SWING OUT	SWING IN	
DC62A DC62BRZ	2	36" (0.91m)	32" (0.81m)	28" (0.71m)	66-99 Lbs. (30-45 kg)
DC63A DC63BRZ	3	42" (1.07m)	36" (0.91m)	32" (0.81m)	99-143 Lbs. (45-65 kg)
DC64A DC64BRZ	4	48" (1.22m)	42" (1.07m)	36" (0.91m)	143-187 Lbs. (65-85kg)

DIMENSIONS



Front View



End View

SPECIFICATION	CLOSER MODEL		
	DC62	DC63	DC64
A: Length of Closer Body	8" (203mm)	8" (203mm)	8" (203mm)
B: Horizontal Mounting Holes	3-15/16" (100mm)	3-15/16" (100mm)	3-15/16" (100mm)
C: Vertical Mounting Holes	3/4" (19mm)	3/4" (19mm)	3/4" (19mm)
D: Closer Body Height	2-7/16" (62mm)	2-7/16" (62mm)	2-7/16" (62mm)
E: Projection from Door	1-19/32" (41mm)	1-19/32" (41mm)	1-19/32" (41mm)

CRL PR40 Series - ANSI Grade 1 Adjustable Spring Power Surface Mounted Door Closers

When demanding closer specs are required, consider our PR40 Series Surface Mounted Door Closers. Recommended for high traffic areas, such as public buildings, airports and shopping centers. Closing and latching speed controls are independently adjustable, and adjustable backcheck is a standard feature to prevent damage to the closer, door and adjacent surface should the door be violently swung open due to wind or heavy pedestrian traffic.

The optional delayed action feature adjusts the time a door will remain open to facilitate ease of progress through the opening. This feature is particularly valuable in health care facilities, such as hospitals, nursing homes and public buildings that require door closers to delay closing to comply with A.D.A. regulations.

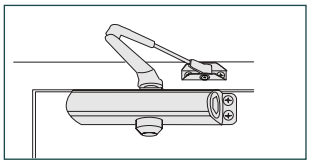
The PR40 Series Closers have a compact design closer body and share a common 9-1/16" by 3/4" mounting hole template, making it ideal for both new and retrofit applications. All CRL closers are U.L. listed and warranted for ten years. Parallel Arm Brackets and mounting hardware is included with each closer permitting universal application for regular, top jamb or parallel arm applications. Optional accessories, such as Drop Plates and Hold-Open Arms, are available for special installations. (See page F101)

- ANSI A156.4 - Grade 1
- Adjustable Spring Power Multi-Size Range 1 to 5
- Each PR40 Series Closer is Conveniently Packaged with Instructions
- Delayed Action Closing Model for Handicap Entrances
- 10 Year Warranty
- U.L. Listed

UL10C

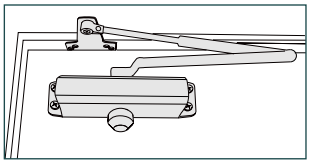
Surface Mounted Closer Universal Mounting Options

- Non-Handed, Reversible Closers Can Be Mounted Three Different Ways



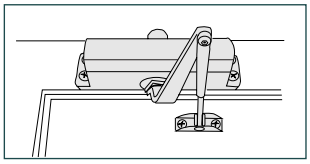
Regular Projecting Arm Installation

Closer installed on "PULL" side of the door.



Parallel Arm Installation

Closer installed on "PUSH" side of the door.



Top Jamb Installation

Closer installed above door on "PUSH" side.

PR40 SERIES GRADE 1 SURFACE MOUNTED DOOR CLOSERS

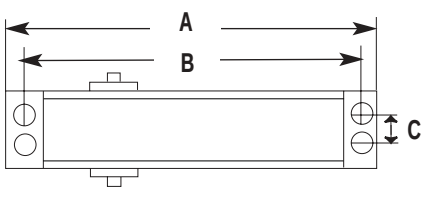
CAT. NO.	FINISH	SIZE	CLOSER DESCRIPTION
PR40A	Aluminum	1 - 4	Barrier Free / Adjustable
PR40DU	Dark Bronze	1 - 4	Barrier Free / Adjustable
PR42A	Aluminum	2 - 5	Adjustable
PR42DU	Dark Bronze	2 - 5	Adjustable
PR44DAA	Aluminum	2 - 5	Delayed Action / Adjustable
PR44DADU	Dark Bronze	2 - 5	Delayed Action / Adjustable

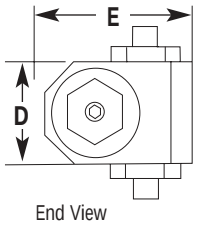
All CRL Door Closers can be combined for quantity pricing.

CLOSER SELECTION DATA

CLOSER MODELS	CLOSER SIZE	APPLICABLE DOOR SIZE (WIDTH)			APPLICABLE DOOR WEIGHT
		INTERIOR DOOR	EXTERIOR DOOR		
			SWING OUT	SWING IN	
PR40	1 - 4	32 - 48" (0.81 - 1.22m)	28 - 42" (0.71 - 1.07m)	24 - 36" (0.61 - 0.91m)	33 - 187 Lbs. (15 - 85 kg)
PR42	2 - 5	36 - 54" (0.91 - 1.37m)	32 - 48" (0.81 - 1.22m)	28 - 42" (0.71 - 1.07m)	66 - 264 Lbs. (30 - 120 kg)
PR44DA	2 - 5	36 - 54" (0.91 - 1.37m)	32 - 48" (0.81 - 1.22m)	28 - 42" (0.71 - 1.07m)	66 - 264 Lbs. (30 - 120 kg)

DIMENSIONS





SPECIFICATION	DIMENSION
A: Length of Closer	9-3/4" (248mm)
B: Horizontal Mounting Holes	9-1/16" (230mm)
C: Vertical Mounting Holes	3/4" (19mm)
D: Closer Body Height	1-13/16" (46mm)
E: Projection from Door	2-13/16" (72mm)

CRL PR50 Series - ANSI Grade 1 Adjustable Spring Power Surface Mounted Door Closers

- ANSI A156.4 - Grade 1
- Adjustable Spring Power Multi-Size Range 1 to 5
- Larger Footprint Matches or Covers Existing Hole Patterns
- 10 Year Warranty
- U.L. Listed

UL10C

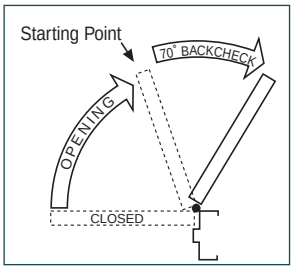
- Each PR50 Series Closer is Conveniently Packaged with Instructions

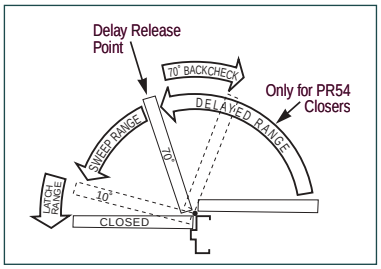
To meet demanding closer specifications, and a need for a larger footprint for matching or covering existing hole patterns, consider the CRL PR50 Series Surface Mounted Door Closer. The PR50 Series is an ANSI Grade 1, Multi-Size Adjustable Spring Power Closer suitable for doors from 24" to 54", and weighing from 33 to 264 pounds.

The barrier-free (low opening resistance) Model PR50, with a lighter powered spring to provide adjustable door control from Size 1 through 4, is recommended for public buildings, airports and shopping centers to meet A.D.A. opening force accessibility requirements. The PR52 Model adjusts from Size 2 through 5 for heavier door applications, and is recommended for higher traffic areas. The PR54DA Model has an adjustable Delayed Action feature that can vary the time the door will remain open to facilitate ease of progress through the opening. This feature is particularly valuable in health care facilities, such as hospitals, nursing homes and public buildings that require door closers to momentarily stay open to comply with A.D.A. regulations.

Closing and latching speed controls are independently adjustable, and adjustable backcheck feature helps prevent damage to the closer, door, and adjacent surface should the door be violently swung open due to wind or heavy pedestrian traffic.

PR50 Series Closers are U.L. listed and warranted for ten years. Parallel Arm Brackets and mounting hardware are included with each closer permitting universal installation for regular, top jamb or parallel arm applications. Optional accessories, such as Drop Plates and Hold-Open Arms, are available for special installations.
(See page F101)





Backcheck Control

- Backcheck Control adjusts to provide variable braking action from approximately 70° to beyond 90°. This helps prevent damage to the door or adjacent wall surface. However, an auxiliary floor or overhead stop is always recommended for complete protection of the entryway and hardware.

Delayed Action Barrier Free Closers

- Delayed Action Closing is an optional hydraulic feature of the PR54 Series Closer that adds a third speed range to the closing cycle. This feature becomes effective when the door is opened and released at any point beyond 70°. The amount of time delay depends on the combination of the angle of door release and valve adjustment for a variable time to facilitate ease of progress through the opening. This feature is particularly valuable in health care facilities such as hospitals, nursing homes and public buildings that require door closers to delay closing to comply with A.D.A. regulations.

CLOSER SELECTION DATA

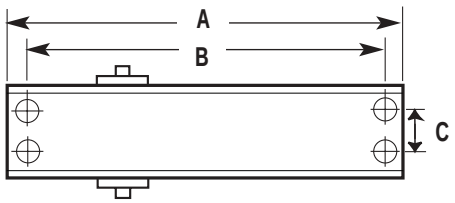
CLOSER MODELS	CLOSER SIZE	APPLICABLE DOOR SIZE (WIDTH)			APPLICABLE DOOR WEIGHT
		INTERIOR DOOR	EXTERIOR DOOR		
			SWING OUT	SWING IN	
PR50	1 - 4	32 - 48" (0.81 - 1.22m)	28 - 42" (0.71 - 1.07m)	24 - 36" (0.61 - 0.91m)	33 - 187 Lbs. (15 - 85 kg)
PR52	2 - 5	36 - 54" (0.91 - 1.37m)	32 - 48" (0.81 - 1.22m)	28 - 42" (0.71 - 1.07m)	66 - 264 Lbs. (30 - 120 kg)
PR54DA	2 - 5	36 - 54" (0.91 - 1.37m)	32 - 48" (0.81 - 1.22m)	28 - 42" (0.71 - 1.07m)	66 - 264 Lbs. (30 - 120 kg)

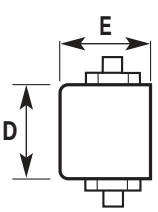
PR50 SERIES GRADE 1 SURFACE MOUNTED DOOR CLOSERS

CAT. NO.	FINISH	SIZE	CLOSER DESCRIPTION
PR50A	Aluminum	1 - 4	Barrier Free / Adjustable
PR50DU	Dark Bronze	1 - 4	Barrier Free / Adjustable
PR52A	Aluminum	2 - 5	Adjustable
PR52DU	Dark Bronze	2 - 5	Adjustable
PR54DAA	Aluminum	2 - 5	Delayed Action / Adjustable
PR54DADU	Dark Bronze	2 - 5	Delayed Action / Adjustable

All CRL Door Closers can be combined for quantity pricing.

DIMENSIONS



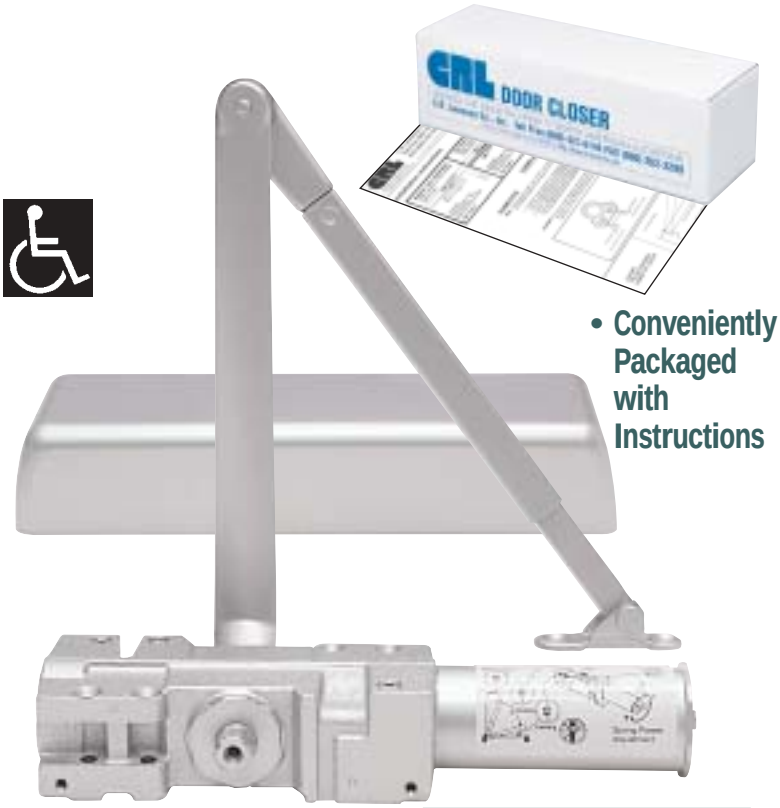


SPECIFICATION	BODY ONLY	WITH COVER
A: Length of Closer	12-9/16" (319mm)	13" (330mm)
B: Horizontal Mounting Holes	11-15/16" (304mm)	11-15/16" (303mm)
C: Vertical Mounting Holes	3/4" (19mm)	3/4" (19mm)
D: Closer Body Height	1-3/4" (45mm)	2-15/16" (75mm)
E: Projection from Door	2-3/16" (56mm)	2-5/16" (59mm)

CRL PR90 Series - ANSI Grade 1 Adjustable Spring Power Surface Mounted Door Closers

- ANSI A156.4 - Grade 1
- Adjustable Spring Power Multi-Size Range 1 to 6
- Durable Cast Iron Closer Body with Finished Cover
- 10 Year Warranty
- U.L. Listed

UL10C



- Conveniently Packaged with Instructions

Cast Iron Closers have long been considered to be the industry's most durable. The CRL PR90 Grade 1 Adjustable Spring Power Surface Mounted Door Closer is recommended for high traffic public buildings such as hospitals, airports and shopping centers, to meet both A.D.A. accessibility requirements, and provide durability and maintenance free service. Closing and latching speed controls are independently adjustable, and an adjustable backcheck feature helps prevent damage to the closer, door, and adjacent surface should the door be violently swung open due to wind or heavy pedestrian traffic.

All CRL PR90 Closers are U.L. listed and warranted for ten years. Parallel Arm Brackets and mounting hardware are included with each closer permitting universal installation for regular, top jamb or parallel arm applications. Optional accessories, including Drop Plates and Hold Open Arms, are available for special installations (See page F101).

PR90 SERIES GRADE 1 SURFACE MOUNTED DOOR CLOSERS

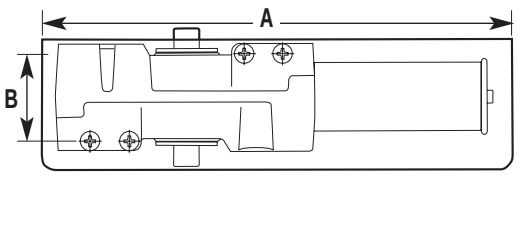
CAT. NO.	FINISH	SIZE	CLOSER DESCRIPTION
PR90A	Aluminum	1 - 6	Barrier Free / Adjustable
PR90DU	Dark Bronze	1 - 6	Barrier Free / Adjustable

All CRL Door Closers can be combined for quantity pricing.

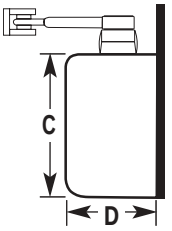
CLOSER SELECTION DATA

CLOSER MODEL	CLOSER SIZE	APPLICABLE DOOR SIZE (WIDTH)			APPLICABLE DOOR WEIGHT
		INTERIOR DOOR	EXTERIOR DOOR		
			SWING OUT	SWING IN	
PR90	1 - 6	32" - 58" (0.81 - 1.47m)	28" - 52" (0.71 - 1.32m)	24" - 48" (0.61 - 1.22m)	33 - 330 Lbs. (15 - 150 kg)

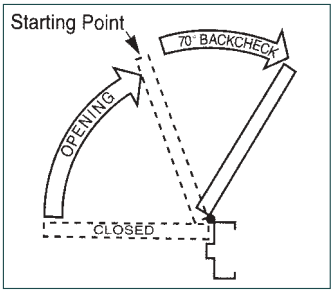
DIMENSIONS



Front View



End View



Backcheck Control

- Back Check Control adjusts to provide variable braking action from approximately 70˚ to beyond 90˚. This helps prevent damage to the door or adjacent wall surface. However, an auxiliary floor or overhead stop is always recommended for complete protection of the entryway and hardware.

Barrier Free Feature

- Provides a lighter powered spring to allow low opening resistance but provide acceptable door control. The opening force can be adjusted to comply with A.D.A., and as outlined in ANSI A117.1.

SPECIFICATION	WITH COVER
A: Length of Closer Body	12-1/4" (311mm)
B: Vertical Mounting Holes	2-1/4" (57mm)
C: Closer Body Height	3-7/32" (82mm)
D: Projection from Door	2-5/32" (55mm)

CRL Accessories for PR40/50/90 Series Surface Mounted Door Closers

Accessories for CRL PR40, PR50 and PR90 Series Surface Mounted Door Closers are intended to support a wide range of mounting options and applications. All are available in matching finishes. As with all CRL Surface Mounted Closers and accessories, installation templates and easy to use mounting instructions are always included. Contact CRL Technical Sales if you have questions or special requirements for Surface Mounted Door Closers. Call toll free (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

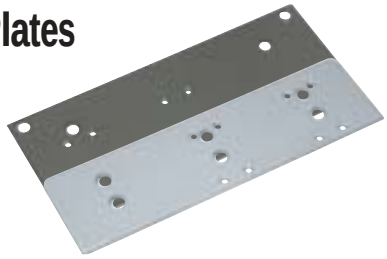
PR40/50 Drop Plates

Provides a solid mounting surface for the Closer Body when clearance or mounting surface dimensions are limited, or to clear a surface applied stop or holder.

CAT. NO.	FINISH	DIMENSIONS	CLOSER APPLICATION
PR40DPA	Aluminum	9-3/4" X 3-3/8"	PR40 Series
PR40DPDU	Dark Bronze	9-3/4" X 3-3/8"	PR40 Series
PR50DPA	Aluminum	13" X 3-9/16"	PR50 Series
PR50DPDU	Dark Bronze	13" X 3-9/16"	PR50 Series

PR90 Series Drop Plates

Provides a solid mounting surface for the PR90 Closer Body when clearance or mounting surface dimensions are limited, or to clear stops or holders.



CAT. NO.	FINISH	DIMENSIONS	CLOSER APPLICATION
PR90DPA	Aluminum	12-1/4" X 3-7/16"	Hinge (Pull) Side
PR90DPDU	Dark Bronze	12-1/4" X 3-7/16"	Hinge (Pull) Side
PR90DPFMA	Aluminum	12-1/4" X 3-7/16"	Flush Top Jamb
PR90DPFMDU	Dark Bronze	12-1/4" X 3-7/16"	Flush Top Jamb
PR90DPJMA	Aluminum	12-1/4" X 3-7/16"	Top Jamb
PR90DPJMDU	Dark Bronze	12-1/4" X 3-7/16"	Top Jamb

Hold Open Arms

Non-Handed friction type Arm provides hold open function between 90º and 180º. For use with reveal up to 4" (102 mm).

CAT. NO.	FINISH	CLOSER APPLICATION
PR4050HOAA	Aluminum	PR40 and PR50 Series
PR4050HOADU	Dark Bronze	PR40 and PR50 Series
PR90HOAA	Aluminum	PR90 Series
PR90HOADU	Dark Bronze	PR90 Series

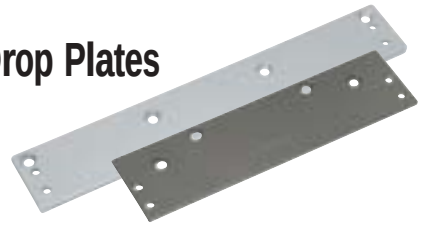
Sex Bolt Sets

For use with 1-3/4" (19 mm) thick doors. 1/4-20 screw size; four per pack.

CAT. NO.	FINISH	CLOSER APPLICATION
DCSBA	Aluminum	PR40, PR50 and PR90 Series
DCSBBRZ	Dark Bronze	PR40, PR50 and PR90 Series

PR40/50 Narrow Drop Plates

Suitable for top jamb mounts when overhead ceiling clearance is insufficient, or to provide clearance for a mortised stop or holder.



CAT. NO.	FINISH	DIMENSIONS	CLOSER APPLICATION
PR40NDPA	Aluminum	9-3/4" X 2-9/16"	PR40 Series
PR40NDPDU	Dark Bronze	9-3/4" X 2-9/16"	PR40 Series
PR50NDPA	Aluminum	13" X 2-3/16"	PR50 Series
PR50NDPDU	Dark Bronze	13" X 2-3/16"	PR50 Series

Parallel Arm Drop Plates

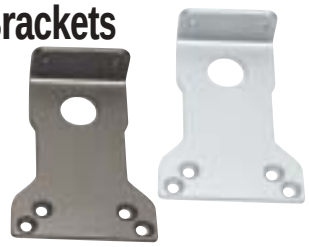
Will permit parallel arm installations when there is insufficient door rail height.

CAT. NO.	FINISH	DIMENSIONS	CLOSER APPLICATION
PR50DPPAA	Aluminum	13" X 4-13/16"	PR50 Series
PR50DPPADU	Dark Bronze	13" X 4-13/16"	PR50 Series
PR90DPPAA	Aluminum	12-1/4" X 5-1/4"	PR90 Series
PR90DPPADU	Dark Bronze	12-1/4" X 5-1/4"	PR90 Series

Note: For PR40 Series use PR40DP Standard Drop Plate.

Parallel Hold Open Arm Brackets

For use with Hold Open Arms. Works with all PR40, PR50 and PR90 Series Closers.



CAT. NO.	FINISH	CLOSER APPLICATION
PR459HOPABA	Aluminum	PR40, PR50 and PR90 Series
PR459HOPABDU	Dark Bronze	PR40, PR50 and PR90 Series

Replacement Screw Packages

Complete sets of Replacement Screws.

CAT. NO.	FINISH	CLOSER APPLICATION
PR40SA	Aluminum	PR40 Series
PR40SDU	Dark Bronze	PR40 Series
PR50SA	Aluminum	PR50 Series
PR50SDU	Dark Bronze	PR50 Series
PR90SA	Aluminum	PR90 Series
PR90SDU	Dark Bronze	PR90 Series

CRL Overhead Concealed Door Closers

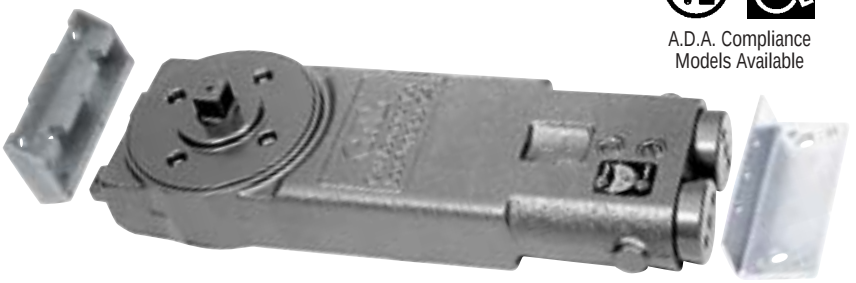
Interchangeable with:

International, Jackson and similar brands of Overhead Concealed Closers

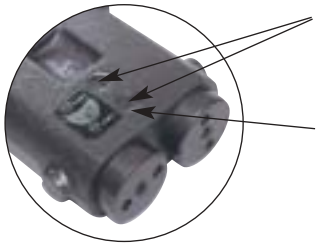
Available Two Ways:

- **Closer Body with Mounting Clips**
- **Closer Kits with End or Side Load Arms, Mounting Clips and Bottom Pivot Set**
- **Available in Five Spring Sizes, Including Two A.D.A. Models**

A.D.A. Compliance Models Available



Closer Body with Mounting Clips



Independent Adjustment Valves

One for Closing Speed and one for Latching Speed.

Special Retaining Rings

Prevent the Adjusting Screws from backing out of the Closer Body, which is the main cause of door closer failure.

Offset Arm Assembly

Adjustable Dual-Purpose Bottom Pivot Set

Type “A” End Load Arm

Positive Centering

For alignment, and to hold the door closed against any normal wind or draft.

Actions Available

90° Hold Open
90° No Hold Open
105° Hold Open
105° No Hold Open

Header Dimensions

1-3/4” x 4” or larger.

Stable Hydraulic Door Check Fluid

For any climatic operation and constant lubrication.

Type “S” Side Load Arm

- **Conveniently Packaged with Instructions**

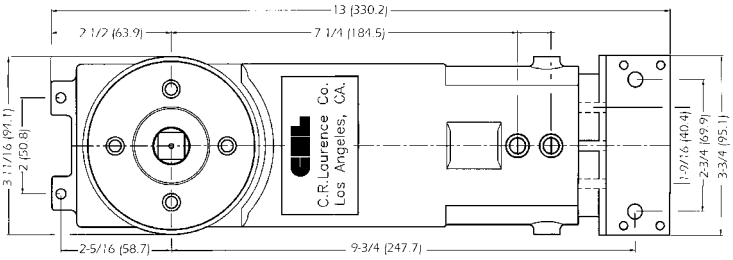
MODELS AVAILABLE:

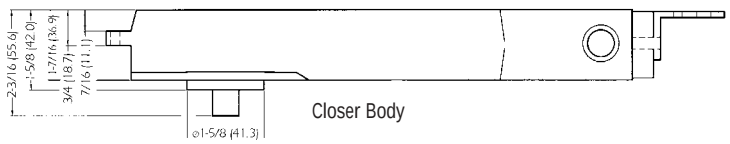
SPRING SIZE	DOOR SIZE
Light	Up to 30” Wide x 96” High
Medium	31” to 41” Wide x 96” High
Heavy	42” to 48” Wide x 96” High
ADA-5 lb. (Interior)	36” to 48” Wide x 96” High
ADA-8.5 lb. (Exterior)	36” to 48” Wide x 96” High

Accessories Available

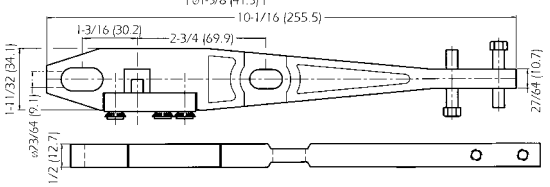
A large selection of arms, bottom pivots and mounting brackets to accommodate center-hung or offset hung doors.
(See following pages)

All measurements shown in inches (millimeters)

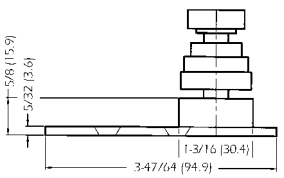


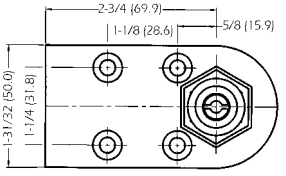


Closer Body

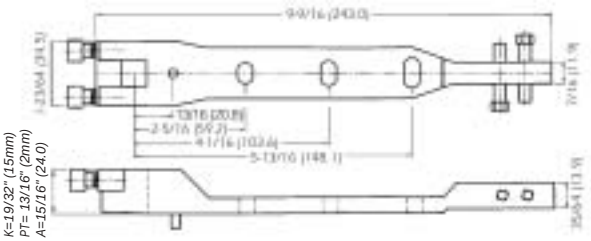


Type “S” Side Load Arm Assembly
(For top rail with 1/2" deep recess)





Adjustable Dual-Purpose Bottom Pivot Set



Type "A" End Load Arm Assembly (For top rail with 1" deep recess)
Type "K" End Load Arm Assembly (For top rail with 5/8" deep recess)
Type "PT" End Load Arm Assembly (For top rail with 7/8" deep recess)

CRL Standard Overhead Concealed Closer Kits with Side Load Arms

- For Doors with a 1/2" Top Rail Depth
- Includes All Necessary Parts
- 5 Year Limited Warranty
- U.L. Listed

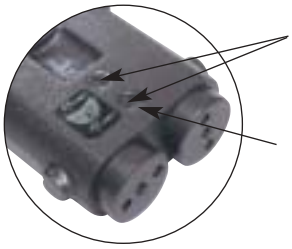
These Overhead Closer Kits consist of a Medium Spring Size Door Closer, Mounting Clips, Type “S” Side Load Arm, and a “DP” Adjustable Dual-Purpose Bottom Pivot Set or "GE" Pivot Set. The Closer has dual-action valves for closing operation (one valve for closing, one valve for latching). 90° and 105° Hold Open and No Hold Open models are available. Closer Bodies fit into standard 1-3/4" x 4" (or larger) extrusions. For A.D.A., Light or Heavy Spring Size Closers, or Closers with different hardware options, see Closer Bodies with Mounting Clips on next page.

Closer Body with Mounting Clips

Type “S” Side Load Arm

Interchangeable with:

International, Jackson and similar brands of Overhead Concealed Closers



Independent Adjustment Valves

One for Closing Speed and one for Latching Speed.

Included in "S" Package

Adjustable Dual-Purpose Bottom Pivot Set for Floor or Threshold Mounting.

Special Retaining Rings

Prevent the Adjusting Screws from backing out of the Closer Body, which is the main cause of door closer failure.

Included in "GE" Package

Adjustable Bottom Pivot Set for Threshold Mounting.

OVERHEAD CLOSER KITS WITH “S” PACKAGE

CAT. NO.	SPRING SIZE	TYPE
CRL8160S	Medium	90° Hold Open
CRL8162S	Medium	90° No Hold Open
CRL8170S	Medium	105° Hold Open
CRL8172S	Medium	105° No Hold Open

All CRL Door Closers can be combined for quantity pricing.

OVERHEAD CLOSER KITS WITH “GE” PACKAGE

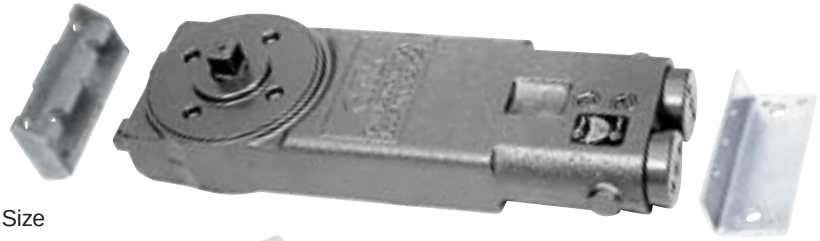
CAT. NO.	SPRING SIZE	TYPE
CRL8160GE	Medium	90° Hold Open
CRL8162GE	Medium	90° No Hold Open
CRL8170GE	Medium	105° Hold Open
CRL8172GE	Medium	105° No Hold Open

All CRL Door Closers can be combined for quantity pricing.

CRL Standard Overhead Concealed Closer Kits with End Load Arms

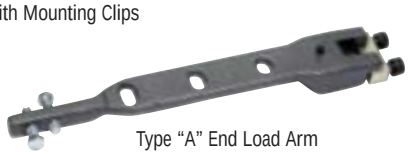
- For Doors with a 1" Top Rail Depth
- Includes All Necessary Parts
- 5 Year Limited Warranty
- U.L. Listed

These Overhead Closer Kits consist of a Medium Spring Size Closer, Mounting Clips, Type “A” End Load Arm, and a “DP” Adjustable Dual-Purpose Bottom Pivot Set. The Closer has dual-action valves for closing operation (one valve for closing, one valve for latching). 90° and 105° Hold Open and No Hold Open models are available. Closer Bodies fit into standard 1-3/4" x 4" (or larger) extrusions. For A.D.A., Light or Heavy Spring Size Closers, or Closers with different hardware options, see Closer Bodies with Mounting Clips on next page.



Closer Body with Mounting Clips

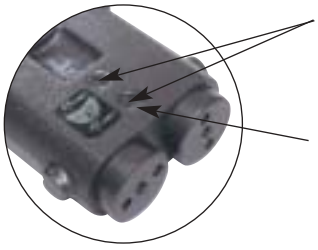
Adjustable Dual-Purpose Bottom Pivot Set



Type “A” End Load Arm

Interchangeable with:

International, Jackson and similar brands of Overhead Concealed Closers



Independent Adjustment Valves

One for Closing Speed and one for Latching Speed.

Special Retaining Rings

Prevent the Adjusting Screws from backing out of the Closer Body, which is the main cause of door closer failure.

OVERHEAD CLOSER KITS WITH “A” PACKAGE

CAT. NO.	SPRING SIZE	TYPE
CRL8160A	Medium	90° Hold Open
CRL8162A	Medium	90° No Hold Open
CRL8170A	Medium	105° Hold Open
CRL8172A	Medium	105° No Hold Open

All CRL Door Closers can be combined for quantity pricing.

CRL Overhead Concealed Door Closer Bodies with Mounting Clips

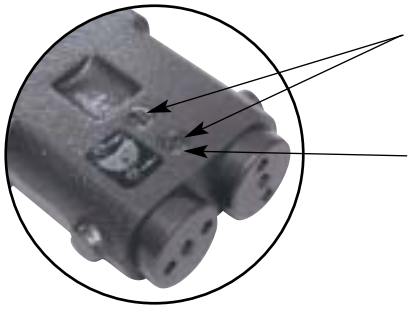
Closer Body with Mounting Clips

Interchangeable with:

International, Jackson and similar brands of Overhead Concealed Closers

A.D.A. Compliance Models Available

- **Select From the Accessories at Right to Get Exactly the Closer You Need to Complete the Job**
- **Conveniently Packaged with Instructions**



Independent Adjustment Valves

One for Closing Speed and one for Latching Speed.

Special Retaining Rings

Prevent the Adjusting Screws from backing out of the Closer Body, which is the main cause of door closer failure.

- **20 Models Available**
- **5 Year Limited Warranty**
- **U.L. Listed**

There are two advantages to buying our Closer Bodies with Mounting Clips. The first is if you are only replacing a worn out Closer, you will reduce your costs by not purchasing unnecessary hardware. The second is that by adding accessories you can get a Closer with the exact accessories you need for the job you are doing. Just select a Closer from the charts below and add the different accessory parts (Pivots, Arms, etc.) you need to create the Closer package of your choice. Each Closer Body comes packaged with Mounting Clips and Instructions.

REQUIRED CLOSER DUTY FOR YOUR APPLICATION

MODEL	SPRING SIZE	DOOR SIZE
Standard	Light	Up to 30" Wide x 96" High
Standard	Medium	31" to 41" Wide x 96" High
Standard	Heavy	42" to 48" Wide x 96" High
A.D.A. Compliance	ADA-5 lb. (Interior)	36" to 48" Wide x 96" High
A.D.A. Compliance	ADA-8.5 lb. (Exterior)	36" to 48" Wide x 96" High

STANDARD MODEL CLOSER BODIES

SPRING SIZE	90° HOLD OPEN CAT. NO.	90° NO HOLD OPEN CAT. NO.	105° HOLD OPEN CAT. NO.	105° NO HOLD OPEN CAT. NO.
Light	**CRL7060**	**CRL7062**	**CRL7070**	**CRL7072**
Medium	**CRL7160**	**CRL7162**	**CRL7170**	**CRL7172**
Heavy	**CRL7260**	**CRL7262**	**CRL7270**	**CRL7272**

All CRL Door Closers can be combined for quantity pricing.

A.D.A. COMPLIANCE MODEL CLOSER BODIES MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT

SPRING SIZE	90° HOLD OPEN CAT. NO.	90° NO HOLD OPEN CAT. NO.	105° HOLD OPEN CAT. NO.	105° NO HOLD OPEN CAT. NO.
A.D.A.-5 lb.	**CRL6860**	**CRL6862**	**CRL6870**	**CRL6872**
A.D.A.-8.5 lb.	**CRL6960**	**CRL6962**	**CRL6970**	**CRL6972**

All CRL Door Closers can be combined for quantity pricing.

CRL Overhead Concealed Door Closer Accessories

"S" Type Adjustable Side Loading Top Arm Assembly

- **1/2" Depth Top Rail**

"S" Type Adjustable Side Loading Top Arms have an adjusting screw at the end of the arm to allow the door to be adjusted in or out to match the jambs. The two bolts in the other end of the arm adjust the centering of the door. Used in 1/2" depth top rails with a notch in the side.

CAT. NO. CRL8010S

"A" Type End Loading Top Arm Assembly

- **1" Depth Top Rail**

"A" Type End Loading Top Arms have no in or out adjustment. The two bolts in the end of the arm adjust the centering of the door. Used in 1" depth top rails with an opening at the end of the rail.

CAT. NO. CRL8010A

"K" Type End Loading Top Arm Assembly

- **5/8" Depth Top Rail**

"K" Type End Loading Top Arms have no in or out adjustment. The two bolts in the end of the arm adjust the centering of the door. Used in 5/8" depth top rails with an opening at the end of the rail.

CAT. NO. CRL8010K

"PT" Type End Loading Top Arm Assembly

- **7/8" Depth Top Rail**

"PT" Type End Loading Top Arms have no in or out adjustment. The two bolts in the end of the arm adjust the centering of the door. Used in 7/8" depth top rails with an opening at the end of the rail.

CAT. NO. CRL8010PT

CRL Overhead Concealed Door Closer Accessories

"H" Type Diamond Position End Load Arm Assembly

"H" Type End Load Arms are designed for use with the pre-1998 original Kawneer® Husky® style Closers and CRL Diamond Spindle Retrofit Closers on page F107.

CAT. NO. CRL8010H

"JO" Type Offset Arm Assembly

The "JO" Type Offset Arm Assembly operates with the slide block sliding up and down a track that has been mortised into the webbing of the door.

- **Mortise Type**
- **7/8" Depth Top Rail**

CAT. NO. CRL8010J0XAL Painted Aluminum
CAT. NO. CRL8010J0XBRZ Painted Bronze

"VO" Type Offset Arm Assembly

The "VO" Type Offset Arm Assembly operates with the slide block sliding up and down a track that has been surface mounted to the door.

- **Surface Mount Type**
- **9/16" Depth Top Rail**

CAT. NO. CRL8020V0XAL Painted Aluminum
CAT. NO. CRL8020V0XBRZ Painted Bronze

Standard Adjustable Dual-Purpose Bottom Pivot Set

This Adjustable Dual-Purpose Bottom Pivot Set is the standard Bottom Pivot Set used in our Door Closer packages. It can be used with the base plate or attached directly to the threshold. Adjusting takes place with the door off of the pivot. It works with either Side Load or End Load Top Arms.

CAT. NO. CRL8010DP

Optional Adjustable Floor Mount Bottom Pivot Set

This Floor Mounted Bottom Pivot Set is adjustable through a hole in the end of the door. It can be adjusted without removing the door, and requires a 1" hole if used with a threshold.

CAT. NO. CRL8010G

Automatic Door Bottom Pivot

This is a 1" (25 mm) diameter Center-Hung Type Pivot used with Dor-O-Matic Automatic Doors to allow a door to swing free.

CAT. NO. CRL8010DBP

Standard Mounting Clip Set

This Mounting Clip Set is the standard set supplied with all of our Overhead Door Closers.

CAT. NO. CRL8010FS

Optional Mounting Clip Set

This Mounting Clip Set is used on Kawneer® Doors, and with the CRL8010CP Cover Plate for Patch Hardware installations.

CAT. NO. CRL8010FK

Optional Mounting Clip Set

This Mounting Clip Set is used with Arch Aluminum/Amarlite Doors.

CAT. NO. CRL8010FA

Optional Retrofit Mounting Clip Set for Kawneer® Husky®

These Mounting Clip Sets allow you to use our Overhead Concealed Door Closers in headers fabricated for pre-1998 Husky® Door Closers (the 24-3/8" long ones).

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CAT. NO. CRL8010RK4 Fits In 4" Header
CAT. NO. CRL8010RK45 Fits In 4-1/2" Header

Heavy-Duty Adjustable Dual-Purpose Bottom Pivot Set

This Heavy-Duty Dual-Purpose Bottom Pivot Set can be used in place of the Standard Bottom Pivot Set. The thick solid steel base plate has additional mounting holes, making it ideal for heavier doors and high traffic areas. It works with either Side Load or End Load Top Arms, and can be adjusted when the door is off the pivot.

CAT. NO. CRL8010HDP

Optional Adjustable Threshold Mount Bottom Pivot Set

This Threshold Mounted Bottom Pivot Set is adjustable through a hole in the end of the door. It can be adjusted without removing the door, and requires a 1/2" hole in the threshold.

CAT. NO. CRL8010GE

Optional Cover Plate for Overhead Concealed Door Closers

This Cover Plate is designed for use with custom fabricated headers that are commonly used with Patch Hardware Fittings. Spindle, adjusting and attaching holes are already fabricated into the Cover Plate. For use with CRL8010FK Mounting Clip Set.

CAT. NO. CRL8010CP

CRL Overhead Concealed Door Closers for Patch Fittings and Door Rails

- **Longer (3/4") Spindle Required for Use with Patch Fittings and Rail Hardware**
- **5 Year Limited Warranty**
- **U.L. Listed**

Closer Body with Mounting Clips

Interchangeable with:
International, Jackson and similar brands of Overhead Concealed Closers

- **Conveniently Packaged with Instructions**

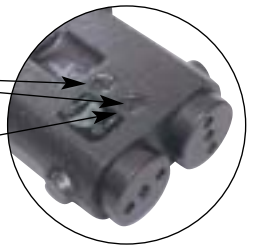
OVERHEAD CLOSERS FOR PATCH FITTINGS AND DOOR RAILS

CAT. NO.	SPRING SIZE	TYPE
CRL9160	Medium	90° Hold Open
CRL9162	Medium	90° No Hold Open
CRL9170	Medium	105° Hold Open
CRL9172	Medium	105° No Hold Open
CRL9260	Heavy	90° Hold Open
CRL9262	Heavy	90° No Hold Open
CRL9270	Heavy	105° Hold Open
CRL9272	Heavy	105° No Hold Open
CRL9970	A.D.A - 8.5 Lb.	105° Hold Open
CRL9972	A.D.A - 8.5 Lb.	105° No Hold Open

All CRL Door Closers can be combined for quantity pricing.

Independent Adjustment Valves
One for Closing Speed and one for Latching Speed.

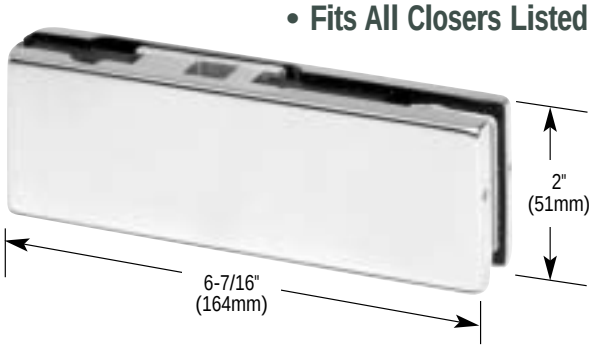
Special Retaining Rings
Prevent the Adjusting Screws from backing out of the Closer Body, which is the main cause of door closer failure.

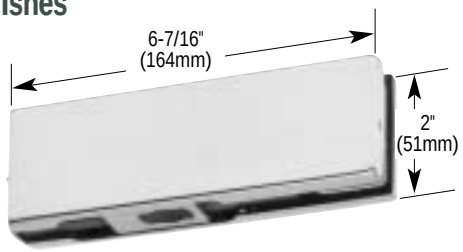


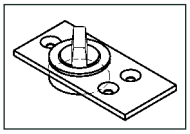
These Overhead Door Closers have a longer spindle (approximately 3/4"), which is the preferred length when used in conjunction with Patch Hardware Fittings. Closer has dual action valves for closing operation (one valve for closing, one valve for latching). 90° and 105° Hold Open and No Hold Open models are available. Mounting Clips and instructions are included with each Closer Body.

CRL Patch Fittings for Overhead Concealed Door Closers

- **Fits All Closers Listed Above**
- **Available in Four Finishes**



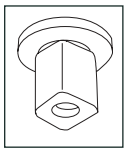




1NT402
Bottom Free Swinging Pivot

Model PH20B for use with:
CRL, Jackson, International, Dorma and other 2-3/4" (70mm) Pivot Setback Overhead Concealed Door Closers with 9/16" Square Spindle.

Includes:
High Density Cast Body;
1NT304 Top Door Patch Insert;
Cover Plates (Finish of Your Choice);
Gaskets for 3/8" (10mm) or 1/2" (12mm) Glass;
Template and Instructions

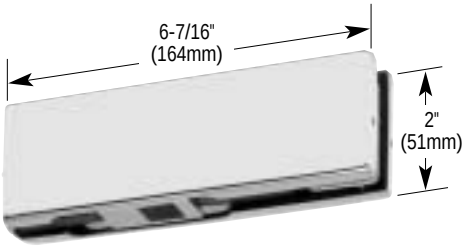


Typical Installation

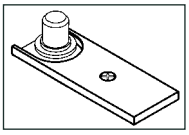
Paired Doors with Concealed Overhead Closers

- **See Our Complete Patch Hardware Selection on Pages F48 to F75**

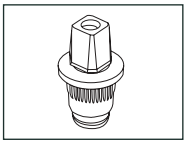
Model PH10C for use with:
Floor Closers with Dorma Type Spindle



Model PH10D for use with:
Floor Closers with "MAB" Type Spindle



1NT403
Adjustable Bottom Free Swinging Pivot



1NT404
Adjustable Bottom Free Swinging Pivot

CRL Replacement Overhead Concealed Door Closers for Original Kawneer® Husky®

- U.L. Listed

Closer Body Only. See Page F105 for Mounting Clips Required to Mount Closer

A.D.A. Compliance Models Available

- Spindle Set in the Diamond Position at 0º
- Replace Existing Pre-1998 Original Kawneer® HUSKY® Closers
- A.D.A. Compliance and Medium Size Models

This CRL Overhead Concealed Door Closer incorporates a spindle set in the diamond position, instead of a square position at 0˚. This enables door installers to replace existing pre-1998 Kawneer® original style Husky® Closers without the need to change the door arm, which requires a diamond pattern spindle engagement. With the addition of our Retrofit Clips for either 4" or 4-1/2" headers, the existing closer can be replaced without the need to replace any additional door hardware. The existing Center-Hung or Offset Arms can be used, as well as the existing pivot.

These Overhead Concealed Door Closers are available in 105˚ Hold Open and No Hold Open styles, with Medium Spring Size, and an 8.5 lb. model for A.D.A. exterior door applications. A diamond pattern End-Load Center-Hung Replacement Arm, Cat. No. CRL8010H, is also available. (See page F105).

Note: May require considerable alterations to retrofit.

REPLACEMENT OVERHEAD CONCEALED DOOR CLOSER BODIES

SPRING SIZE	DOOR SIZE	105° HOLD OPEN CAT. NO.	105° NO HOLD OPEN CAT. NO.
Medium	31" to 41" Wide	**CRL7770**	**CRL7772**
A.D.A.- 8.5 lb.	36" to 48" Wide	**CRL7670**	**CRL7672**

All CRL Door Closers can be combined for quantity pricing.

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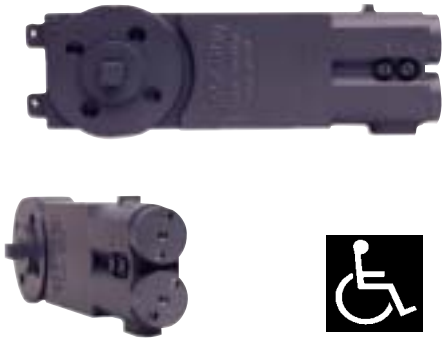
CRL Jackson Adjustable Overhead Concealed Door Closers



- Size 1 to 4 Spring Power Adjustment for A.D.A. Applications
- Will Retrofit Existing Jackson and Other Fixed-Size Closers

The Jackson Adjustable Overhead Concealed Door Closer is available for A.D.A. barrier-free applications. The closer is adjustable in a range of Size 1 through Size 4, allowing the spring power to be set for A.D.A. handicap barrier-force opening resistance. This closer will retrofit existing Jackson and similar style fixed-size closer installations. Four common arm and pivot packages include hydraulic closer body, mounting clips, load arm and mount pivot. For easy selection, choose from closer packages shown at right. For enlarged view of hardware packages, see page 866 of our Big Red Master Catalog.

Closers with "G" Hardware Package

CAT. NO.	DESCRIPTION
V105H0G	105° Hold Open - Adjustable
V105NH0G	105° No Hold Open - Adjustable
V90H0G	90° Hold Open - Adjustable
V90NH0G	90° No Hold Open - Adjustable

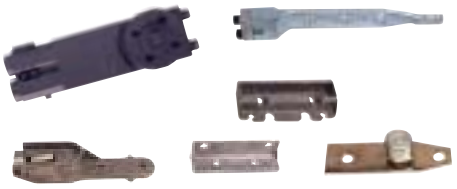
Closers with "GE" Hardware Package

CAT. NO.	DESCRIPTION
V105H0GE	105° Hold Open - Adjustable
V105NH0GE	105° No Hold Open - Adjustable
V90H0GE	90° Hold Open - Adjustable
V90NH0GE	90° No Hold Open - Adjustable

Closers with "H" Hardware Package

CAT. NO.	DESCRIPTION
V105H0H	105° Hold Open - Adjustable
V105NH0H	105° No Hold Open - Adjustable
V90H0H	90° Hold Open - Adjustable
V90NH0H	90° No Hold Open - Adjustable

Closers with "P" Hardware Package



CAT. NO.	DESCRIPTION
V105H0P	105° Hold Open - Adjustable
V105NH0P	105° No Hold Open - Adjustable
V90H0P	90° Hold Open - Adjustable
V90NH0P	90° No Hold Open - Adjustable

All Door Closers can be combined for quantity pricing.

CRL Stock Size Headers for Overhead Concealed Door Closers

- **Available in Five Finishes: Clear Anodized, Duranodic Bronze, Polished Stainless Steel, Brushed Stainless Steel, Polished Brass**

36" Single Door Header

- **Includes Snap-In Cover Plates**
- **4" and 4-1/2" Widths**

Typical Installation Showing Exposed Spindle of Overhead Closer

Single Door Headers are fabricated to hold our Overhead Concealed Door Closers. They are available in 4" and 4-1/2" widths in 36" stock lengths. Custom lengths are available on special order. Headers are supplied with an aluminum mounting clip for mounting the Header on the opposite side of the door closer. The door closer contains the mounting clip for that side of the Header. Snap-in cover plates allow for easy installation of the closer. Available in five finishes. **Note:** Nominal size of the Header changes for clad and un-clad finishes (see chart below for size).

72" Double Door Header

- **Includes Snap-In Cover Plates**
- **4" and 4-1/2" Widths**

Double Door Headers are fabricated to hold our Overhead Concealed Door Closers. They are available in 4" and 4-1/2" widths in 72" lengths. Custom lengths are available on special order. All mounting clips necessary for installation are supplied with the Overhead Concealed Door Closers. Snap-in cover plates allow for easy installation of the door closer. Available in five finishes. **Note:** Nominal size of the Header changes for clad and un-clad finishes (see chart below for size).

36" SINGLE DOOR HEADERS

4" CAT. NO.	RECTANGULAR SIZE	4-1/2" CAT. NO.	RECTANGULAR SIZE	FINISH
DCH4SAS	4" x 1-3/4"	DCHSAS	4-1/2" x 1-3/4"	Clear Anodized
DCH4DUS	4" x 1-3/4"	DCHDUS	4-1/2" x 1-3/4"	Duranodic Bronze
DCH4PSS	4-3/16" x 1-7/8"	DCHPSS	4-11/16" x 1-7/8"	Polished Stainless
DCH4BSS	4-3/16" x 1-7/8"	DCHBSS	4-11/16" x 1-7/8"	Brushed Stainless
DCH4PBS	4-3/16" x 1-7/8"	DCHPBS	4-11/16" x 1-7/8"	Polished Brass

72" DOUBLE DOOR HEADERS

4" CAT. NO.	RECTANGULAR SIZE	4-1/2" CAT. NO.	RECTANGULAR SIZE
DCH4SAD	4" x 1-3/4"	DCHSAD	4-1/2" x 1-3/4"
DCH4DUD	4" x 1-3/4"	DCHDUD	4-1/2" x 1-3/4"
DCH4PSD	4-3/16" x 1-7/8"	DCHPSD	4-11/16" x 1-7/8"
DCH4BSD	4-3/16" x 1-7/8"	DCHBSD	4-11/16" x 1-7/8"
DCH4PBD	4-3/16" x 1-7/8"	DCHPBD	4-11/16" x 1-7/8"

CUSTOM LENGTH** SINGLE DOOR HEADERS

4" CAT. NO.	RECTANGULAR SIZE	4-1/2" CAT. NO.	RECTANGULAR SIZE	FINISH
DCH4SACS	4" x 1-3/4"	DCHSACS	4-1/2" x 1-3/4"	Clear Anodized
DCH4DUCS	4" x 1-3/4"	DCHDUCS	4-1/2" x 1-3/4"	Duranodic Bronze
DCH4PSCS	4-3/16" x 1-7/8"	DCHPSCS	4-11/16" x 1-7/8"	Polished Stainless
DCH4BSCS	4-3/16" x 1-7/8"	DCHBSCS	4-11/16" x 1-7/8"	Brushed Stainless
DCH4PBCS	4-3/16" x 1-7/8"	DCHPBCS	4-11/16" x 1-7/8"	Polished Brass

** Header length must be specified when ordering.
Headers do not include Door Closers. Finishes and sizes can be combined for quantity pricing.

CUSTOM LENGTH** DOUBLE DOOR HEADERS

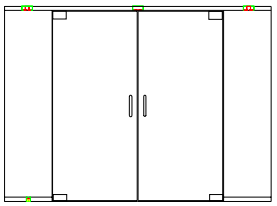
4" CAT. NO.	RECTANGULAR SIZE	4-1/2" CAT. NO.	RECTANGULAR SIZE
DCH4SACD	4" x 1-3/4"	DCHSACD	4-1/2" x 1-3/4"
DCH4DUCD	4" x 1-3/4"	DCHDUCD	4-1/2" x 1-3/4"
DCH4PSCD	4-3/16" x 1-7/8"	DCHPSCD	4-11/16" x 1-7/8"
DCH4BSCD	4-3/16" x 1-7/8"	DCHBSCD	4-11/16" x 1-7/8"
DCH4PBCD	4-3/16" x 1-7/8"	DCHPBCD	4-11/16" x 1-7/8"

** Header length must be specified when ordering.
Headers do not include Door Closers. Finishes and sizes can be combined for quantity pricing.

Custom Length Single and Double Door Headers with Glazing Pocket

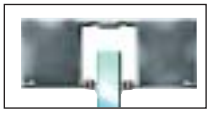
Many times installations dictate the need for a door, or pair of doors, with sidelites on either side. In the past, if you used a Header on top for your Overhead Door Closers, you had to adapt a different extrusion next to your Header to secure the top of the sidelites. CRL has developed a snap-in insert with a glazing pocket that snaps in on either side of the doors. This allows you to use one continuous Header with the center fabricated for the doors, and the sides fabricated for fixed sidelites. Glass is secured in the extrusion with the provided Top Load Roll-in Gasket. To secure the bottom of the fixed sidelites, use our UC38 Series "U" Channel available in five finishes: Clear Anodized, Duranodic Bronze, Polished Stainless Steel, Brushed Stainless Steel, Polished Brass. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

- **Available in 4" or 4-1/2" Widths for 3/8" or 1/2" Glass**
- **Five Stock Finishes:**
  - **Clear Anodized**
  - **Duranodic Bronze**
  - **Polished Stainless**
  - **Brushed Stainless**
  - **Polished Brass**

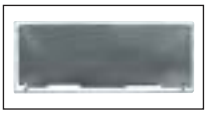


Typical Double Glass Doors with Sidelites

End Views



Fixed Panel Section with Glazing Gasket



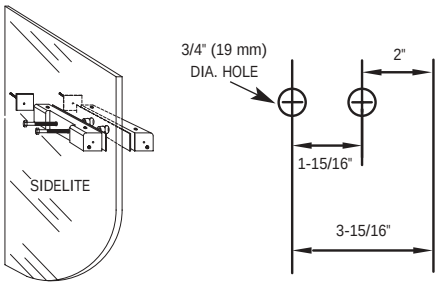
Header Section

CRL Floating Header for Overhead Concealed Door Closers

NEW

- **Available for 1/2" Glass-to-Glass or Glass-to-Wall Installations With or Without Overhead Concealed Door Closers**
- **Stock 36" Single and 72" Double Headers, with Custom Sizes Available**
- **Five Finishes Available: Clear Anodized, Duranodic Bronze, Polished Stainless Steel, Brushed Stainless Steel, Polished Brass**

The 4" x 1-3/4" Floating Header for Overhead Concealed Door Closers was designed to allow the installation of single or double doors off of glass sidelites, with a transom above. Stock Floating Headers are fabricated for use in 1/2" glass-to-glass installations, and are prepared to accept our Overhead Concealed Door Closers and a 1/2" thick glass transom. Custom Floating Headers cover the rest of the offered configurations. Custom lengths, glass-to-wall configurations, prepped for surface mounted top pivot, walking beam pivot or Overhead Concealed Door Closers are all available. For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**



STOCK FLOATING HEADERS

For Glass-to-Glass Installations, prepped for Overhead Concealed Door Closers

SINGLE 36" CAT. NO.	DOUBLE 72" CAT. NO.	FINISH
FH4SAS	FH4SAD	Clear Anodized
FH4DUS	FH4DUD	Duranodic Bronze
FH4PSS	FH4PSD	Polished Stainless
FH4BSS	FH4BSD	Brushed Stainless
FH4PBS	FH4PBD	Polished Brass

Sizes and finishes can be combined for quantity pricing.

CUSTOM FLOATING HEADERS**

For all other possible configurations, contact CRL Technical Sales at (800) 421-6144, Ext. 777

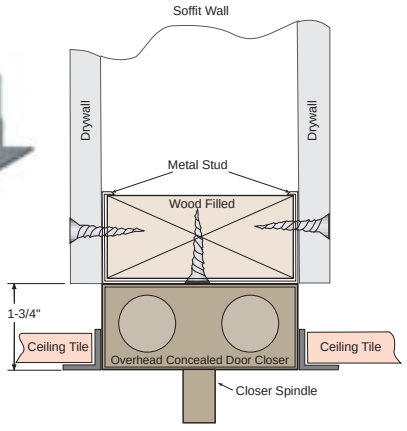
SINGLE CAT. NO.	DOUBLE CAT. NO.	FINISH
FH4SACS	FH4SACD	Clear Anodized
FH4DUCS	FH4DUCD	Duranodic Bronze
FH4PSCS	FH4PSCD	Polished Stainless
FH4BSCS	FH4BSCD	Brushed Stainless
FH4PBCS	FH4PBCD	Polished Brass

** Length, installation type and top supporting hardware must be specified when ordering.

CRL Hat Channel Door Closer Header for Single and Double Doors

- **Designed for New or Retrofit Construction in Buildings with Large, Open Space Floors**
- **Extruded Aluminum with White Finish Designed for an Almost Invisible Look in Drop Ceilings**
- **Surrounded by "L" Angle to Support Ceiling Tiles**

NEW



Hat Channel Door Closer Header is designed to be used for an almost invisible look when glass doors and fixed panels are installed in Drop Ceilings. The Header is connected to a soffit that has a bottom dimension 1-3/4" above the ceiling line. For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

4" HAT CHANNEL DOOR CLOSER HEADER

CAT. NO.	LENGTH	FINISH
HH4WHS	36" Single Door	White
HH4WHD	72" Double Door	White
HH4WHCS	Custom** Single Door	White
HH4WHCD	Custom** Double Door	White

** Length must be specified when ordering. Maximum length up to 96".

CRL Low Profile Floor Mounted Door Closers

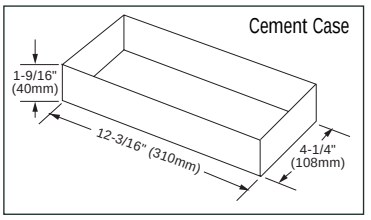
• U.L. Listed

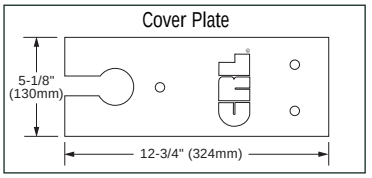
- Low Profile 1-9/16" (40 mm) Depth Model with Changeable Spindle Heights
- 5 Year Limited Warranty
- Includes Closer, Cement Case and Brushed Stainless Steel Cover Plate
- Equivalent to Dorma BTS-84 Closer

These Low Profile Floor Mounted Door Closers are preferred for many types of installations because they only require a shallow 1-9/16" depth cut-out in the floor. This is especially important on floors above the ground floor. The shallow cut-out leaves enough remaining floor under the Closer to support the weight of heavy doors. The spindle collar height supplied with the Closer is 1/8" (3 mm). Spindles with other collar heights are available to accommodate different finished floor heights (see Parts and Accessories on next page). The Closer has dual action valves for closing operation (one valve for closing, one valve for latching). Hold Open and No Hold Open models are available. Optional Polished Finish Cover Plates can be ordered separately.

Specifications:

Maximum Door Width
37-3/8" (950 mm)
Maximum Door Weight
264 Lbs. (120 kgs)





LOW PROFILE FLOOR MOUNTED DOOR CLOSERS

CAT. NO.	SPRING SIZE	CLOSER DESCRIPTION
CRL8360	Medium	90° Hold Open
CRL8370	Medium	105° Hold Open
CRL8372	Medium	105° No Hold Open

All CRL Door Closers can be combined for quantity pricing.

COVER PLATES

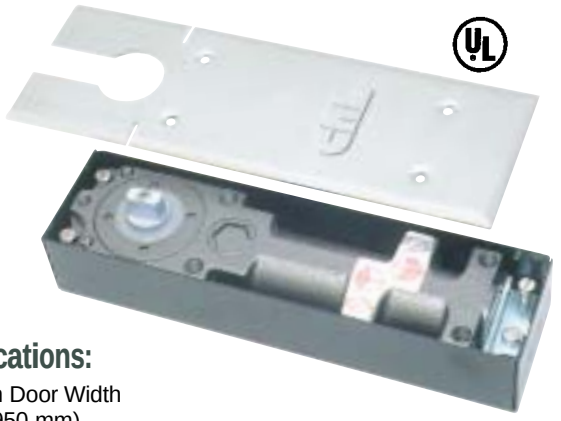
CAT. NO.	FINISH
CRL83CPBS	*Brushed Stainless Steel
CRL83CPPB	Polished Brass
CRL83CPPS	Polished Stainless Steel

*Supplied with 8300 Series Closers

CRL Narrow Width Floor Mounted Door Closers

• U.L. Listed

- Narrow Width 2-1/64" (51 mm) Depth Model with Changeable Spindle Heights
- Includes Closer, Cement Case and Brushed Stainless Steel Cover Plate
- Similar to Dorma BTS-75 Closer
- 5 Year Limited Warranty

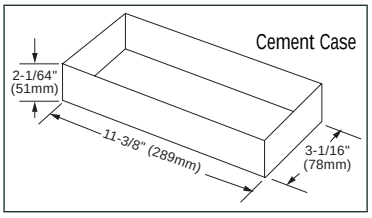


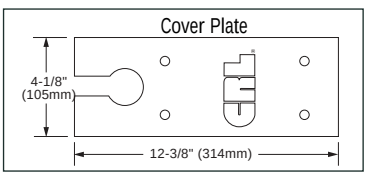
These Narrow Width Floor Mounted Door Closers are preferred on doors installed with Patch Hardware because smaller cover plates are more attractive in this type of installation. The spindle collar height supplied with the Closer is 1/8" (3 mm). Spindles with other collar heights are available to accommodate different finished floor heights (see Parts and Accessories on next page). The Closer has dual action valves for closing operation (one valve for closing, one valve for latching). 90˚ Hold Open and No Hold Open models are available. Optional Polished Finish Cover Plates can be ordered separately.

NOTE: This Closer is designed to open to a maximum of 180°. An auxiliary floor or overhead stop is required to stop the door at less than 180°.

Specifications:

Maximum Door Width
37-3/8" (950 mm)
Maximum Door Weight
264 Lbs. (120 kgs)





NARROW WIDTH FLOOR MOUNTED DOOR CLOSERS

CAT. NO.	SPRING SIZE	CLOSER DESCRIPTION
CRL8460	Medium	180° Hold Open @ 90°
CRL8462	Medium	180° No Hold Open

All CRL Door Closers can be combined for quantity pricing.

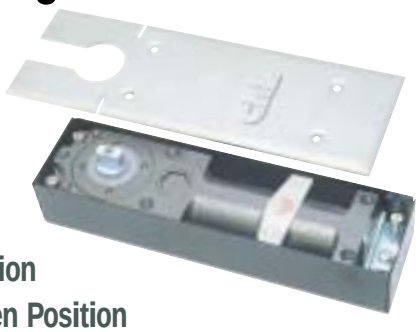
COVER PLATES

CAT. NO.	FINISH
CRL84CPBS	*Brushed Stainless Steel
CRL84CPPB	Polished Brass
CRL84CPPS	Polished Stainless Steel

*Supplied with 8400 Series Closers

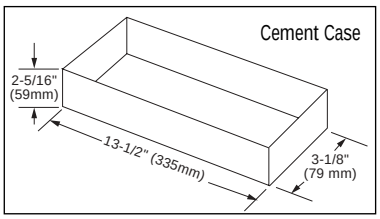
CRL Heavy Weight Floor Mounted Door Closers

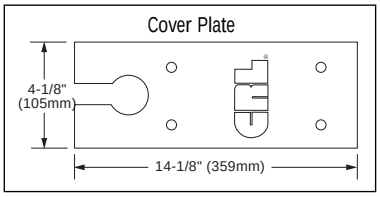
- U.L. Listed
- 800 Lb. Capacity, 54" Doors
- Interchangeable Spindle Heights
- Variable Delayed Action
- Multi-Point Hold-Open Position



- The Perfect Closer to Support CRL's Door Rail System
- 5 Year Limited Warranty
- Equivalent to Dorma BTS-80 Closer

The CRL8500 Series Floor Closer is a heavy weight capacity closer capable of handling doors weighing up to 800 pounds. This multi-feature closer includes selective multi-point hold open between 80˚ and 180˚, or adjustable time delay closing with no hold open. Accessories such as Cover Plates, Pivot, Center-Hung and Offset Arms are also available.





CAT. NO.	SPRING SIZE	MAXIMUM DOOR WIDTH INTERIOR	EXTERIOR
CRL8520	A.D.A - 8.5lb	36" (915 mm)	30" (762 mm)
CRL8530	Medium	46" (1168 mm)	36" (915 mm)
CRL8540	Heavy	54" (1372 mm)	46" (1168 mm)

All CRL Door Closers can be combined for quantity pricing.

Center-Hung Floor Closer Arms

Fits CRL8300, CRL8400 and CRL8500 Series Floor Mounted Door Closers with flat tapered spindle.

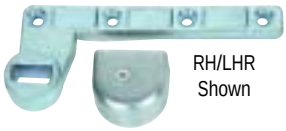
CAT. NO. CRL9040TB

CAT. NO. CRL9040CB

Floor Closer Offset Arms

Offset Closer Arms are used with single acting doors where the Floor Closer is offset mounted. The arms can be used with 7/8" flat tapered spindles, and are intended for use with CRL Door Rails, as well as aluminum, wood, and hollow metal doors. The arms are handed, and are supplied with a finished cover to match the door finish.

3/4" Offset Arms



RH/LHR Shown

LH/RHR CAT. NO.	FINISH	RH/LHR CAT. NO.
CRL9077PB	Polished Brass	CRL9079PB
CRL9077PS	Polished Stainless	CRL9079PS
CRL9077BS	Brushed Stainless	CRL9079BS

Finishes can be combined for quantity pricing.

1-1/2" Offset Arms

*Right Hand Arm Shown

LH/RHR CAT. NO.	FINISH	RH/LHR CAT. NO.
CRL9050LHA	Aluminum	CRL9050RHA
CRL9050LHDU	Dark Bronze	CRL9050RHDU

*Handing determined by looking from the PUSH side of the door.

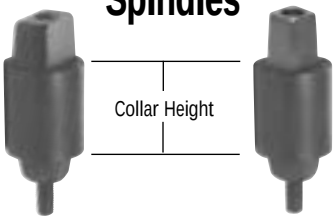
Walking Beam Pivot Cover Plate

Conceals CRL9040WBP Walking Beam Pivot in overhead tube extrusion.

CAT. NO.	FINISH
CRL9040CPA	Satin Aluminum
CRL9040CPBS	Brushed Stainless Steel
CRL9040CPPB	Polished Brass
CRL9040CPPS	Polished Stainless Steel

Finishes can be combined for quantity pricing.

Spindles



- Heights From 1/8" (3mm) to 1-5/16"(33mm)

Flat Tapered and "MAB" Type Square Spindles to accommodate different threshold heights. Fit all CRL8300, CRL8400 and CRL8500 Series Floor Mounted Door Closers.

Flat Tapered

"MAB" Type Square Tapered

FLAT TAPERED

CAT. NO.	COLLAR HEIGHT
CRL9040S3	*1/8" (3 mm)
CRL9040S8	5/16" (8 mm)
CRL9040S13	1/2" (13 mm)
CRL9040S18	3/4" (18 mm)
CRL9040S23	7/8" (23 mm)
CRL9040S28	1-1/8" (28 mm)
CRL9040S33	1-5/16" (33 mm)

"MAB" TYPE SQUARE TAPERED

CAT. NO.	COLLAR HEIGHT
CRL9050S3	1/8" (3 mm)
CRL9050S8	5/16" (8 mm)
CRL9050S13	1/2" (13 mm)
CRL9050S18	3/4" (18 mm)
CRL9050S23	7/8" (23 mm)
CRL9050S28	1-1/8" (28 mm)
CRL9050S33	1-5/16" (33 mm)

*The Flat Tapered Spindle supplied standard with all CRL8300, CRL8400 and CRL8500 Series Floor Closers has a 1/8" (3mm) collar height.

Offset Top Pivot

Offset Top Pivots are full mortise and non-handed pivots for use with CRL Door Rails, as well as aluminum, wood, and hollow metal doors.

1-1/2" OFFSET TOP PIVOT

CAT. NO.	FINISH
CRL9050A	Aluminum
CRL9050DU	Dark Bronze

Finishes can be combined for quantity pricing.

3/4" OFFSET TOP PIVOT

CAT. NO.	FINISH
CRL9075PB	Polished Brass
CRL9075PS	Polished Stainless
CRL9075BS	Brushed Stainless

Finishes can be combined for quantity pricing.

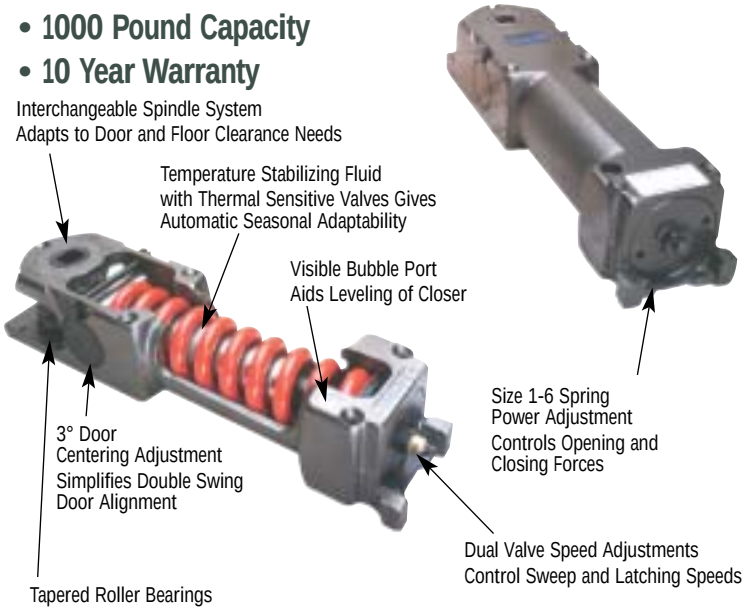
Walking Beam Pivot

Fits upper door rails with a depth of 1". Pin has a diameter of 19/32", and drops down 1" for full contact with Upper Pivot. Hollow Tube Mounting Brackets for this Pivot are also available.

CAT. NO. CRL9040WBP

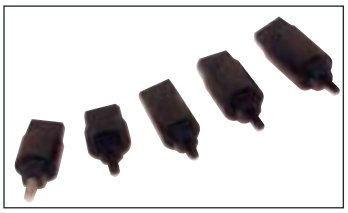
CRL Jackson 990 Heavy-Duty Floor Mounted Door Closer

- **1000 Pound Capacity**
- **10 Year Warranty**



The Jackson 990 Multi-Sized Floor Mount Door Closer is a heavy-duty, fully adjustable closer designed for new and retrofit applications. With its 1000 pound capacity, the 990 Closer can be used with larger and heavier interior or exterior doors for longer, maintenance free performance. This adjustable spring power closer meets A.D.A. requirements by allowing precise adjustment of opening force required for both 5 lb. interior and 8.5 lb. exterior doors. The unique plus or minus 3° centering adjustment simplifies double door alignment. These closers are available in dual 90° and 120° Hold Open and No Hold Open models. Packages for new and retrofit installations, as well as accessories for both Center-Hung and Offset door applications, are available. Call the CRL Technical Sales Department at (800) 421-6144, Ext. 777 for assistance or additional information.

Optional Accessories



Interchangeable Spindles

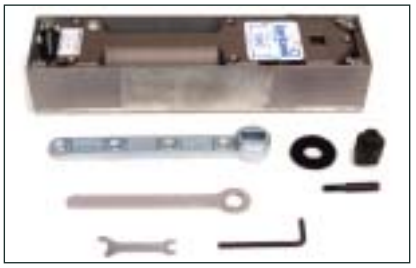
Center-Hung and Offset Arms

Adjustable Top Pivot

Cover Plates

CRL New Installation Kit

Consists of:
990 Closer Body
Cement Case
Installation Package
Center-Hung Arm
1/2" Spindle



This is a basic package for a wide range of center-hung door applications. Optional Cover Plates, Top Pivots and other optional parts are listed in the lower left hand corner of this page.

CAT. NO.	DESCRIPTION
J990H0N	180° Range - Hold Open @ 90° & 120°
J990NH0N	180° Range - No Hold Open

All CRL Door Closers can be combined for quantity pricing.

Dorma BTS-80 Retrofit Kit

Consists of:
990 Closer Body
Cement Case
Installation Package

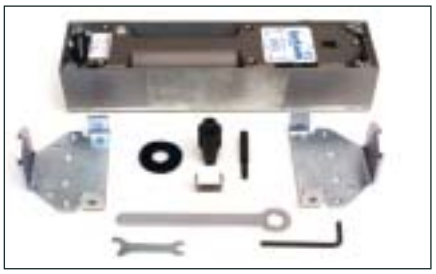
With this kit you will be required to remove the existing Dorma BTS-80 cement case. The Jackson 990 Closer and cement case will fit into the void left by the removed Dorma case. The existing Dorma spindle can be attached to the 990 Closer, and the door re-hung using the existing door hardware.

CAT. NO.	DESCRIPTION
J990H0D	180° Range - Hold Open @ 90° & 120°
J990NH0D	180° Range - No Hold Open

All CRL Door Closers can be combined for quantity pricing.

Rixson 30-40 Retrofit Kit

Consists of:
990 Closer Body
Installation Package
Retrofit Brackets
Center-Hung Spindle

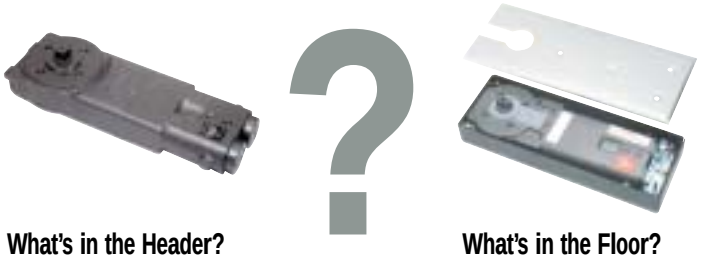


By attaching the retrofit brackets directly to the Jackson 990 Closer, the closer can be installed into the existing Rixson cement case. The retrofit center-hung spindle will allow the door to be re-hung using the existing door hardware.

CAT. NO.	DESCRIPTION
J990H0R	180° Range - Hold Open @ 90° &120°
J990NH0R	180° Range - No Hold Open

All CRL Door Closers can be combined for quantity pricing.

Fix it the First Time with CRL Free-Swing Pivot and Arms



What's in the Header? International, Jackson, Dorma, Kawneer® Husky®?

What's in the Floor? Jackson, Rixson Dorma, Dor-O-Matic?

For a Small Investment of CRL Surface Mount Door Closers, and an Assortment of CRL Free-Swing Pivots and Arms, You Can Cover 95% of All Installations.

Service calls to repair concealed door closers, due to closer failure or application problems, are extremely expensive and frustrating. You must travel to the job site and, in most instances, remove the door and cover plates to determine the brand and closer type. After all that you find that the closer needs to be replaced. Because of the many varieties of closers, chances are you will need to order the closer and leave your customer with a dangerous, inoperative door. Because the cost of doing business most companies are forced to charge a service charge for this original call, and apply a second charge when you are able to return to finish the job... that is if you get the job.

CRL Free-Swing products gives you an additional option. You can repair the malfunctioning door immediately without an additional service call with CRL Free-Swing Pivot and Arm Hardware. The beauty of the system is that it's less expensive, and can be done immediately without removing the defective concealed closer. Simply attach the appropriate Free-Swing Pivot Accessory to the old door closer spindle, this makes the door swing freely, completely independent of the existing closer. Then install a CRL Surface Mounted Door Closer to take care of the of the closing action and the job is done! The only change in operation is on center-hung, double acting doors. These must be changed to single acting doors by installing the angle stop provided in the package. There is no change in operation for single acting doors using butt or offset hinges, as these doors were single acting in the first place.

Are customers interested in selecting this option? In most cases the answer is "Yes", but only if you can offer it to them. A selection of CRL Surface Mounted Door Closers and a variety of CRL Free-Swing Pivots, Arms and Accessories will cover 95% of all installations. Your customer saves because you can offer a valuable, cost effective service.

Husky® and Kawneer® are registered trademarks of Kawneer Company, Inc.

CRL Center Hung Free-Swing Arm and Bottom Pivot

The NDC100 works on most existing floor closer spindles to make the door swing free.

CAT. NO.	DESCRIPTION
NDC100	Center Hung Free-Swing Arm and Bottom Pivot

CRL Offset Free-Swing Arm with Bottom Pivot

Right Hand Illustrated

The NDC101 Series works on most existing floor closer spindles to make the door swing free. These Arms come with a 3/4" or 1-1/2" offset, and are available in left hand and right hand models. Pivot is included.

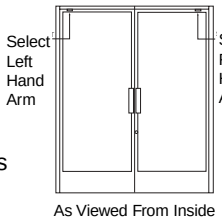
CAT. NO.	DESCRIPTION
NDC101LH	Left Hand 3/4" Offset Floor Closer Arm
NDC101RH	Right Hand 3/4" Offset Floor Closer Arm
NDC101LH15	Left Hand 1-1/2" Offset Floor Closer Arm
NDC101RH15	Right Hand 1-1/2" Offset Floor Closer Arm

CRL Center Hung Free-Swing End Load Top Arm

The NDC102 works on most existing overhead concealed door closers using end load arms, including the Kawneer® Husky®. The spindle adapter rotates inside the bronze bushing and allows the door to swing free.

CAT. NO.	DESCRIPTION
NDC102	Center Hung Free-Swing End Load Top Arm

CRL Center Hung Free-Swing Side Load Top Arm



As Viewed From Inside

The NDC102 works on most existing overhead concealed door closers using side load arms. The spindle adapter rotates inside a bronze bushing and allows the door to swing free. Arms are handed (see illustration at right for handing).

Left Hand Illustrated

CAT. NO.	DESCRIPTION
NDC102SLLH	Left Hand Center Hung Free-Swing Side Load Top Arm
NDC102SLRH	Right Hand Center Hung Free-Swing Side Load Top Arm

CRL Railing Systems

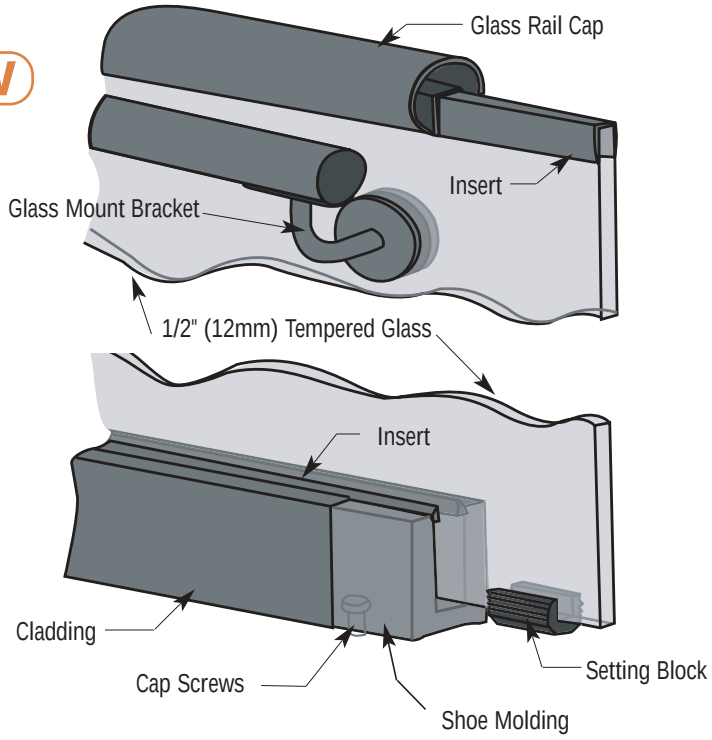
- Custom Fabricated to Your Dimensions
- Available in a Variety of Finishes:
  - Brushed or Polished Stainless Steel;
  - Brushed or Polished Brass;
  - Plus Painted Finishes
- Exclusively for 1/2" (12mm) Tempered Glass
- Variety of Applications:
  - Mezzanine Railings
  - Escalator Alcoves
  - Stairways
  - Observation Decks
  - Windbreaks

Observation Deck

CRL will custom manufacture Railing Systems to your specifications in a variety of architectural metal or painted finishes. Configurations for Flush, Facia or Surface Mounted applications can be fabricated for big jobs or small, in seamless runs of up to 20 feet, depending on the finish. Railings can all be supplied with components such as Mounting Brackets, Shoe Moldings and Inserts, Setting Blocks, Fasteners and Sealants for a total installation package.

Best of all, our engineers will review your design plans and assist in your selection of components to assure a safe and aesthetically pleasing final result. It's a combination of services offered by no one else in the glazing industry.

NEW



Technical Assistance and Design Criteria

C.R. Laurence Company has a Technical Sales Department to assist with design plans and installation questions. Your job can be made easier with the help of our Technical Sales Representatives who are trained in the newest Hardware Systems, and can offer detailed diagrams and layout sheets by fax or mail. From the beginning stages of design through final installation, we are here to assist you.

Our Technical Sales Department can be reached Monday through Friday from 6 a.m. to 5 p.m. Pacific Time. Phone Toll Free **(800) 421-6144** from anywhere in the U.S.; Phone Toll Free **(877) 421-6144** from anywhere in CANADA. Toll Free Fax **(800) 587-7501.**
E-mail **techsales@crlaurence.com**
Website: **www.crlaurence.com**

CRL Z-Series Glass Clamps

NEW

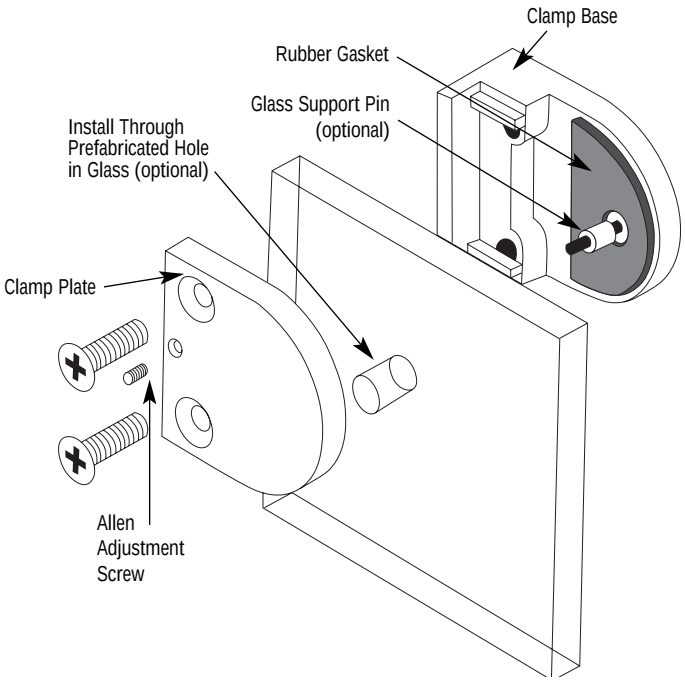
- Choice of Flat or Radius Bases for Use on Round Tubing or Flat Surfaces
- Available in Zinc or Stainless Steel in Your Choice of Round or Square Corner Design in Up to Eight Finishes
- Different Models to Accommodate 1/4" (6mm), 5/16" (8mm), 3/8" (10mm) or 1/2" (12mm) Thick Glass
- Steel Pin is Provided for Optional Use Through a Hole in the Glass for Extra Support and Safety
- Solid Rubber O-Rings Provide Glass Protection
- Small Allen Adjustment Screw on Rear Plate of Clamp Allows Tightening Against Glass Panel

CRL has an extensive selection of Z-Series Commercial Glass Clamps to accommodate a variety of design choices. Z-Series Clamps are available in round or square shapes, with either a flat or radius base, in a choice of zinc based metal or stainless steel. Rubber O-Rings are included to serve as gasketing material. Also included is a steel pin, which may be used as an option when fabricating a hole in the glass, thus allowing mechanical retention of the glass. For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

Our Radius Base Clamps work with 1-1/2" (38mm) to 2" (51mm) round tubing. Flat Base Clamps work with square posts and other flat surfaces. Popular applications for Z-Series Clamps include hand rails, partitions, and wind breaks for balconies and mezzanines. Most models contain a small Allen adjustment screw on the rear plate of the clamp to allow proper tightening against the glass. Different models of Z-Series Clamps are available to accommodate 1/4" (6mm), 5/16" (8mm), 3/8" (10mm) or 1/2" (12mm) thick glass. Six stock finishes are available in the zinc based material, and two finishes are available in stainless steel. Custom finishes are available upon request.

Typical Applications

- Hand Rails for Stairways and Mezzanines
- Office Partitions
- Wind Breaks for Balconies



CRL Z-Series Round Type Radius Base Glass Clamps

SPECIFICATIONS:

Glass Thicknesses: Models for 1/4" (6mm) to 1/2" (12mm).

Base Design: Radius.

For Use With: 1-1/2" (38mm) to 2" (51mm) Diameter Round Tubing.

Material: Choice of Zinc Constructed or Stainless Steel. Stainless Steel or Powder Painted Zinc Clamps are suggested for more durability in exterior applications.

Glass Fabrication:
For 1/4" (6mm), 5/16" (8mm) and 3/8" (10mm) Thick Glass: 1/2" (12mm) diameter hole required if using steel pin (included) for glass support.

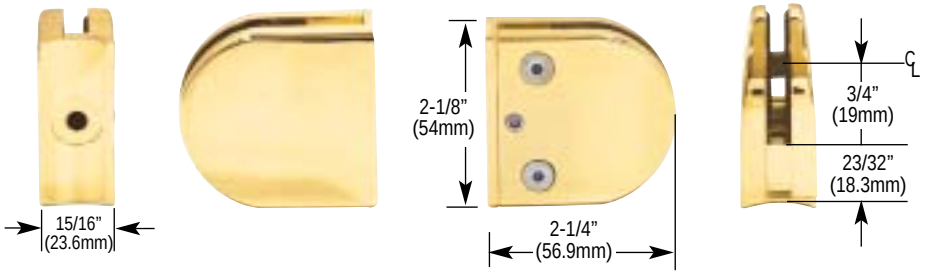
For 1/2" (12mm) Thick Glass: 9/16" (14mm) diameter hole required if using steel pin (included) for glass support.

Includes: Rubber Gaskets and Steel Pin (for optional use) with Grommet.

NEW

Models for Tubing Installations

For 1/4" (6mm) and 5/16" (8mm) Glass

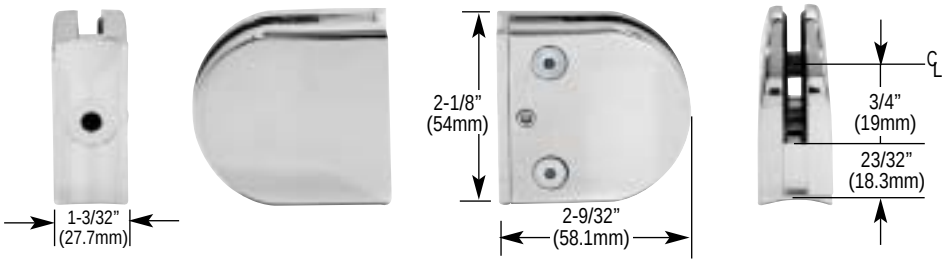


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z206BR	Brass	Zinc Casting
Z206CH	Chrome	Zinc Casting
Z206SC	Satin Chrome	Zinc Casting
Z206BN	Brushed Nickel	Zinc Casting
Z206GP	Gold Plated	Zinc Casting
Z206W	White	Zinc Casting
Z306BS	Brushed Stainless	Stainless Steel
Z306PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10mm) Glass

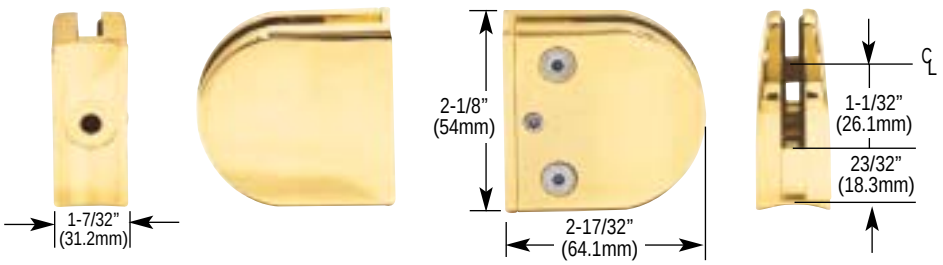


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z210BR	Brass	Zinc Casting
Z210CH	Chrome	Zinc Casting
Z210SC	Satin Chrome	Zinc Casting
Z210BN	Brushed Nickel	Zinc Casting
Z210GP	Gold Plated	Zinc Casting
Z210W	White	Zinc Casting
Z310BS	Brushed Stainless	Stainless Steel
Z310PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

For 1/2" (12mm) Glass



Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z212BR	Brass	Zinc Casting
Z212CH	Chrome	Zinc Casting
Z212SC	Satin Chrome	Zinc Casting
Z212BN	Brushed Nickel	Zinc Casting
Z212GP	Gold Plated	Zinc Casting
Z212W	White	Zinc Casting
Z312BS	Brushed Stainless	Stainless Steel
Z312PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Round Type Flat Base Glass Clamps

SPECIFICATIONS:

NEW

Glass Thicknesses: Models for 1/4" (6mm) to 1/2" (12mm).

Base Design: Flat.

For Use With: Square tubing or other flat surfaces.

Material: Choice of Zinc Constructed or Stainless Steel. Stainless Steel or Powder Painted Zinc Clamps are suggested for more durability in exterior applications.

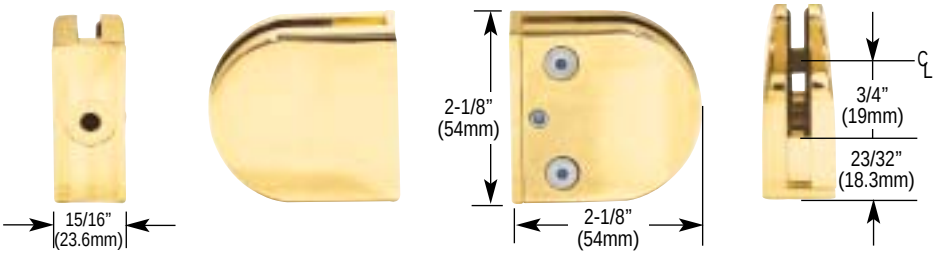
Glass Fabrication:
For 1/4" (6mm), 5/16" (8mm) and 3/8" (10mm) Thick Glass: 1/2" (12mm) diameter hole required if using steel pin (included) for glass support.

For 1/2" (12mm) Thick Glass: 9/16" (14mm) diameter hole required if using steel pin (included) for glass support.

Includes: Rubber Gaskets and Steel Pin (for optional use) with Grommet.

Models for Flat Surface Installations

For 1/4" (6mm) and 5/16" (8mm) Glass

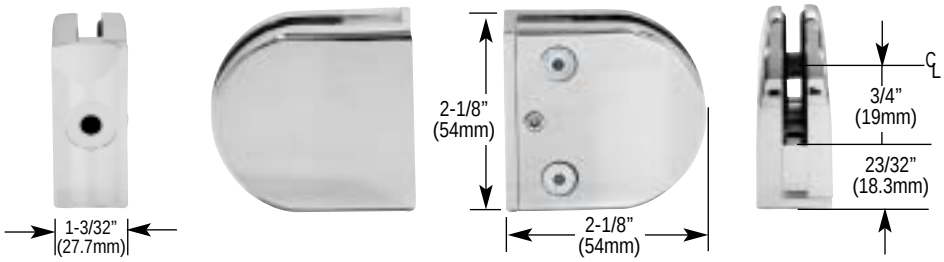


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z406BR	Brass	Zinc Casting
Z406CH	Chrome	Zinc Casting
Z406SC	Satin Chrome	Zinc Casting
Z406BN	Brushed Nickel	Zinc Casting
Z406GP	Gold Plated	Zinc Casting
Z406W	White	Zinc Casting
Z506BS	Brushed Stainless	Stainless Steel
Z506PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10mm) Glass

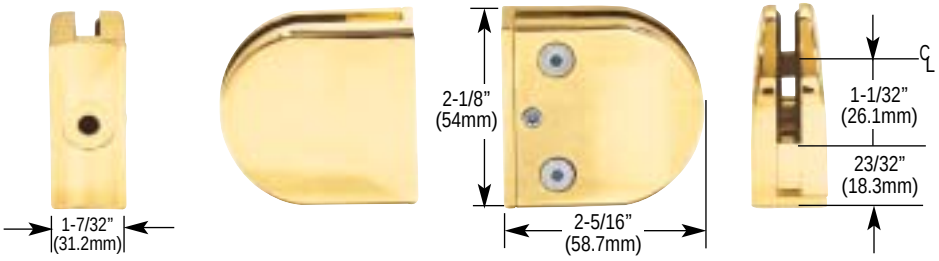


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z410BR	Brass	Zinc Casting
Z410CH	Chrome	Zinc Casting
Z410SC	Satin Chrome	Zinc Casting
Z410BN	Brushed Nickel	Zinc Casting
Z410GP	Gold Plated	Zinc Casting
Z410W	White	Zinc Casting
Z510BS	Brushed Stainless	Stainless Steel
Z510PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

For 1/2" (12mm) Glass



Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z412BR	Brass	Zinc Casting
Z412CH	Chrome	Zinc Casting
Z412SC	Satin Chrome	Zinc Casting
Z412BN	Brushed Nickel	Zinc Casting
Z412GP	Gold Plated	Zinc Casting
Z412W	White	Zinc Casting
Z512BS	Brushed Stainless	Stainless Steel
Z512PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Square Type Radius Base Glass Clamps

SPECIFICATIONS:

Glass Thicknesses: Models for 1/4" (6mm) to 1/2" (12mm).

Base Design: Radius.

For Use With: 1-1/2" (38mm) to 2" (51mm) Diameter Round Tubing.

Material: Choice of Zinc Constructed or Stainless Steel. Stainless Steel or Powder Painted Zinc Clamps are suggested for more durability in exterior applications.

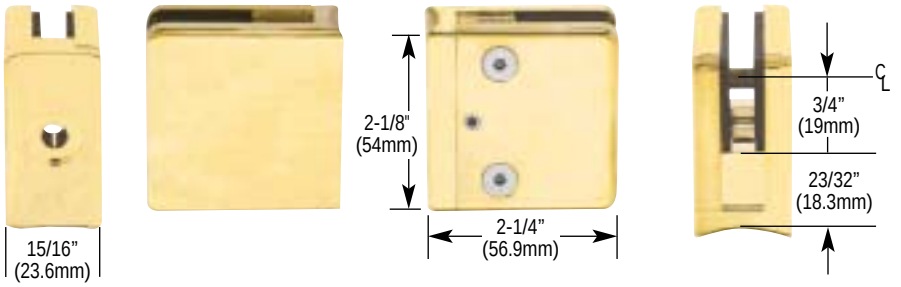
Glass Fabrication:
For 1/4" (6mm), 5/16" (8mm) and 3/8" (10mm) Thick Glass: 1/2" (12mm) diameter hole required if using steel pin (included) for glass support.
For 1/2" (12mm) Thick Glass: 9/16" (14mm) diameter hole required if using steel pin (included) for glass support.

Includes: Rubber Gaskets and Steel Pin (for optional use) with Grommet.

NEW

Models for Tubing Installations

For 1/4" (6mm) and 5/16" (8mm) Glass

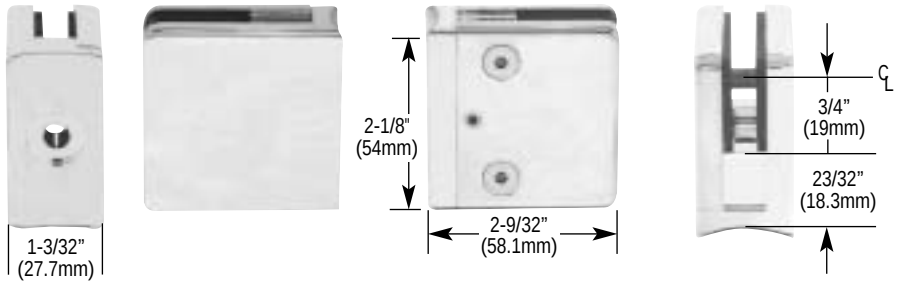


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z606BR	Brass	Zinc Casting
Z606CH	Chrome	Zinc Casting
Z606SC	Satin Chrome	Zinc Casting
Z606BN	Brushed Nickel	Zinc Casting
Z606GP	Gold Plated	Zinc Casting
Z606W	White	Zinc Casting
Z706BS	Brushed Stainless	Stainless Steel
Z706PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10mm) Glass

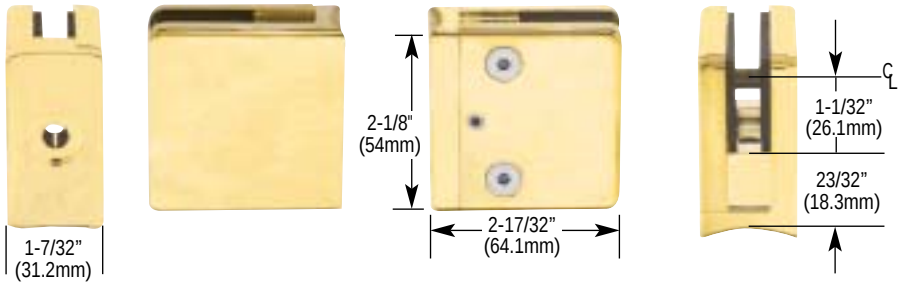


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z610BR	Brass	Zinc Casting
Z610CH	Chrome	Zinc Casting
Z610SC	Satin Chrome	Zinc Casting
Z610BN	Brushed Nickel	Zinc Casting
Z610GP	Gold Plated	Zinc Casting
Z610W	White	Zinc Casting
Z710BS	Brushed Stainless	Stainless Steel
Z710PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

For 1/2" (12mm) Glass



Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z612BR	Brass	Zinc Casting
Z612CH	Chrome	Zinc Casting
Z612SC	Satin Chrome	Zinc Casting
Z612BN	Brushed Nickel	Zinc Casting
Z612GP	Gold Plated	Zinc Casting
Z612W	White	Zinc Casting
Z712BS	Brushed Stainless	Stainless Steel
Z712PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Square Type Flat Base Glass Clamps

SPECIFICATIONS:

NEW

Glass Thicknesses: Models for 1/4" (6mm) to 1/2" (12mm).

Base Design: Flat.

For Use With: Square tubing or other flat surfaces.

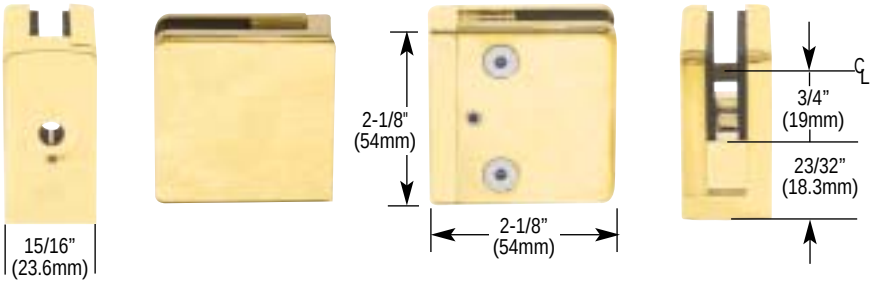
Material: Choice of Zinc Constructed or Stainless Steel. Stainless Steel or Powder Painted Zinc Clamps are suggested for more durability in exterior applications.

Glass Fabrication:
For 1/4" (6mm), 5/16" (8mm) and 3/8" (10mm) Thick Glass: 1/2" (12mm) diameter hole required if using steel pin (included) for glass support.
For 1/2" (12mm) Thick Glass: 9/16" (14mm) diameter hole required if using steel pin (included) for glass support.

Includes: Rubber Gaskets and Steel Pin (for optional use) with Grommet.

Models for Flat Surface Installations

For 1/4" (6mm) and 5/16" (8mm) Glass

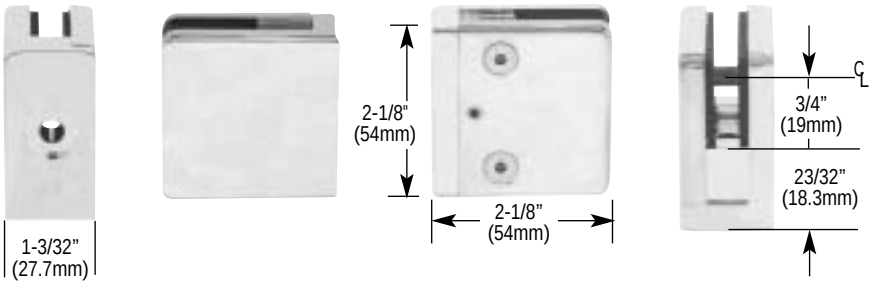


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z806BR	Brass	Zinc Casting
Z806CH	Chrome	Zinc Casting
Z806SC	Satin Chrome	Zinc Casting
Z806BN	Brushed Nickel	Zinc Casting
Z806GP	Gold Plated	Zinc Casting
Z806W	White	Zinc Casting
Z906BS	Brushed Stainless	Stainless Steel
Z906PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

For 3/8" (10mm) Glass

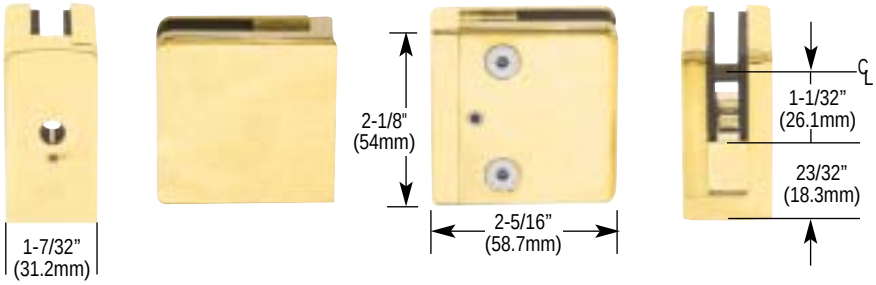


Base View | Front View | Rear View | Side View

CAT. NO.	FINISH	BASE METAL
Z810BR	Brass	Zinc Casting
Z810CH	Chrome	Zinc Casting
Z810SC	Satin Chrome	Zinc Casting
Z810BN	Brushed Nickel	Zinc Casting
Z810GP	Gold Plated	Zinc Casting
Z810W	White	Zinc Casting
Z910BS	Brushed Stainless	Stainless Steel
Z910PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

For 1/2" (12mm) Glass



Base View | Front View | Rear View | Side View

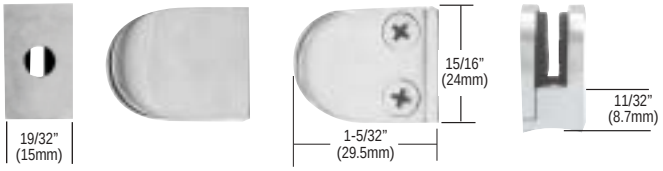
CAT. NO.	FINISH	BASE METAL
Z812BR	Brass	Zinc Casting
Z812CH	Chrome	Zinc Casting
Z812SC	Satin Chrome	Zinc Casting
Z812BN	Brushed Nickel	Zinc Casting
Z812GP	Gold Plated	Zinc Casting
Z812W	White	Zinc Casting
Z912BS	Brushed Stainless	Stainless Steel
Z912PS	Polished Stainless	Stainless Steel

All Z-Series Clamps can be combined for quantity pricing.

CRL Mini Z-Series Glass Clamps Round Shape – Radius Base

- For 1/4" (6mm) Thick Glass
- Fits 1" Diameter Tubing
- No Hole Drilling; Pressure Fit
- Ideal for Small Displays and Glass Barriers

NEW



Base View Front View Rear View Side View

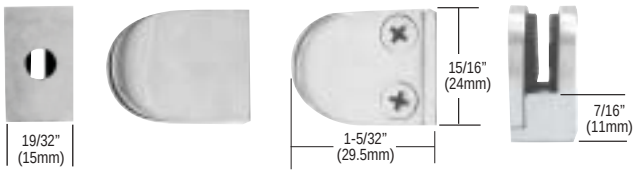
CAT. NO.	FINISH	BASE METAL	GLASS THICKNESS
ZMR06PS	Polished Stainless	Stainless Steel	1/4" (6mm)
ZMR06SS	Satin Stainless	Stainless Steel	1/4" (6mm)

All Z-Series Clamps can be combined for quantity pricing.

CRL Mini Z-Series Glass Clamps Round Shape – Flat Base

- For 1/4" (6mm) Thick Glass
- For Mounting to Flat Surfaces
- No Hole Drilling; Pressure Fit
- Ideal for Small Displays and Glass Barriers

NEW



Base View Front View Rear View Side View

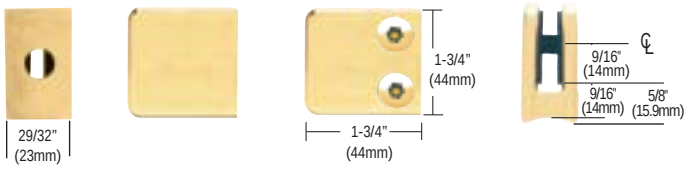
CAT. NO.	FINISH	BASE METAL	GLASS THICKNESS
ZMF06PS	Polished Stainless	Stainless Steel	1/4" (6mm)
ZMF06SS	Satin Stainless	Stainless Steel	1/4" (6mm)

All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Small Square Glass Clamps

- May be Used on Radius or Flat Surfaces

1/2" Diameter Hole Required if Using Provided Steel Pin



Base View Front View Rear View Side View

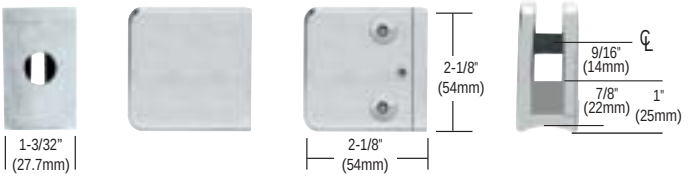
CAT. NO.	FINISH	BASE METAL	GLASS THICKNESS
Z130BR	Brass	Zinc Casting	1/4" (6mm) to 5/16" (8mm)
Z130CH	Chrome	Zinc Casting	1/4" (6mm) to 5/16" (8mm)
Z130SC	Satin Chrome	Zinc Casting	1/4" (6mm) to 5/16" (8mm)
Z130BN	Brushed Nickel	Zinc Casting	1/4" (6mm) to 5/16" (8mm)
Z130GP	Gold Plated	Zinc Casting	1/4" (6mm) to 5/16" (8mm)
Z130W	White	Zinc Casting	1/4" (6mm) to 5/16" (8mm)
Z150PS	Polished Stainless	Stainless Steel	1/4" (6mm) to 5/16" (8mm)
Z150SS	Satin Stainless	Stainless Steel	1/4" (6mm) to 5/16" (8mm)

All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Large Square Glass Clamps

- May be Used on Radius or Flat Surfaces

1/2" Diameter Hole Required if Using Provided Steel Pin



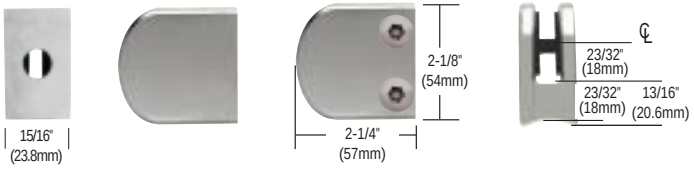
Base View Front View Rear View Side View

CAT. NO.	FINISH	BASE METAL	GLASS THICKNESS
Z135BR	Brass	Zinc Casting	3/8" (10mm)
Z135CH	Chrome	Zinc Casting	3/8" (10mm)
Z135SC	Satin Chrome	Zinc Casting	3/8" (10mm)
Z135BN	Brushed Nickel	Zinc Casting	3/8" (10mm)
Z135GP	Gold Plated	Zinc Casting	3/8" (10mm)
Z135W	White	Zinc Casting	3/8" (10mm)
Z155PS	Polished Stainless	Stainless Steel	3/8" (10mm)
Z155SS	Satin Stainless	Stainless Steel	3/8" (10mm)

All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Large Round Glass Clamps For 1/4" (6mm) Glass

- May be Used on Radius or Flat Surfaces



Base View Front View Rear View Side View

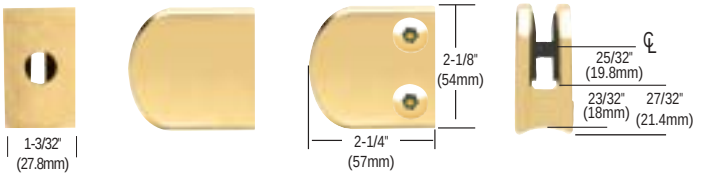
CAT. NO.	FINISH	BASE METAL	GLASS THICKNESS
Z106BR	Brass	Zinc Casting	1/4" (6mm)
Z106CH	Chrome	Zinc Casting	1/4" (6mm)
Z106SC	Satin Chrome	Zinc Casting	1/4" (6mm)
Z106BN	Brushed Nickel	Zinc Casting	1/4" (6mm)
Z106GP	Gold Plated	Zinc Casting	1/4" (6mm)
Z106W	White	Zinc Casting	1/4" (6mm)

1/2" Diameter Hole Required if Using Provided Steel Pin

All Z-Series Clamps can be combined for quantity pricing.

CRL Z-Series Large Round Glass Clamps For 3/8" (10mm) Glass

- May be Used on Radius or Flat Surfaces



Base View Front View Rear View Side View

CAT. NO.	FINISH	BASE METAL	GLASS THICKNESS
Z110BR	Brass	Zinc Casting	3/8" (10mm)
Z110CH	Chrome	Zinc Casting	3/8" (10mm)
Z110SC	Satin Chrome	Zinc Casting	3/8" (10mm)
Z110BN	Brushed Nickel	Zinc Casting	3/8" (10mm)
Z110GP	Gold Plated	Zinc Casting	3/8" (10mm)
Z110W	White	Zinc Casting	3/8" (10mm)

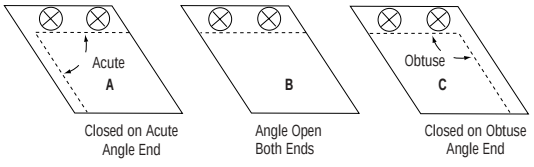
1/2" Diameter Hole Required if Using Provided Steel Pin

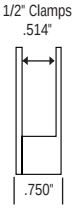
All Z-Series Clamps can be combined for quantity pricing.

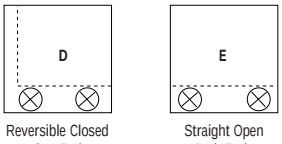
CRL Glass Clamps for Stair and Walkway Railings

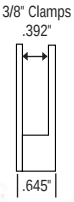
- **Polished Chrome and Brass Finishes for 3/8" (10mm) or 1/2" (12mm) Thick Glass**
- **Custom Finishes Available on Demand**

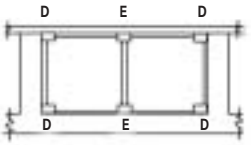
Our Glass and Railing Clamps are predrilled and ready for use in the construction of metal and glass railings, partitions, room dividers and more. Two sizes to accommodate 3/8" (10mm) or 1/2" (12mm) thick glass. Polished brass or chrome finishes are stocked, with custom finishes available. Simply loosen screw on one end, insert glass edge and tighten. Use CRL Tuff-Pak Tape to cushion glass in clamps.

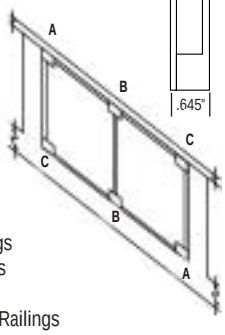




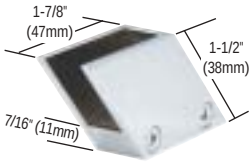








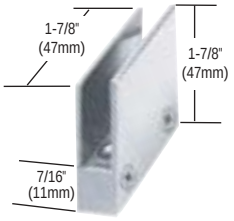
A: Acute End Clamp for Slanted Railings
B: Open Center Clamp for Slanted Railings
C: Obtuse End Clamp for Slanted Railings
D: Straight End Clamp for Level Railings
E: Straight Open Center Clamp for Level Railings



SLANT ACUTE END 'A'

Use on top of glass at high end of slant, or bottom of glass at low end of slant. Clamps at 52° slant for use with 3/8" or 1/2" thick glass.

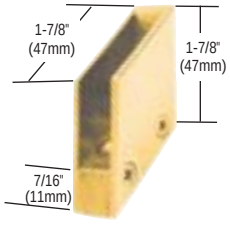
CAT. NO.	FINISH	GLASS THICKNESS
RH3312BR	Brass	1/2" (12mm)
RH3338BR	Brass	3/8" (10mm)
RH3312CH	Chrome	1/2" (12mm)
RH3338CH	Chrome	3/8" (10mm)



SLANT OPEN CENTER 'B'

Reversible center clamps at 52° slant for use with 3/8" or 1/2" thick glass.

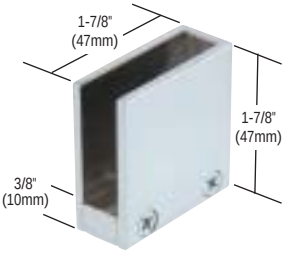
CAT. NO.	FINISH	GLASS THICKNESS
RH4412BR	Brass	1/2" (12mm)
RH4438BR	Brass	3/8" (10mm)
RH4412CH	Chrome	1/2" (12mm)
RH4438CH	Chrome	3/8" (10mm)



SLANT OBTUSE END 'C'

Use on bottom of glass at high end of slant, or top of glass at low end of slant. Clamps at 128° slant for use with 3/8" or 1/2" thick glass.

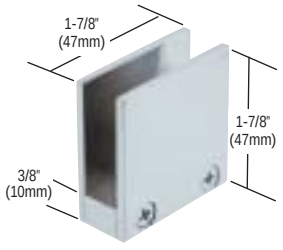
CAT. NO.	FINISH	GLASS THICKNESS
RH5512BR	Brass	1/2" (12mm)
RH5538BR	Brass	3/8" (10mm)
RH5512CH	Chrome	1/2" (12mm)
RH5538CH	Chrome	3/8" (10mm)



STRAIGHT END 'D'

Reversible end clamps with 90° corners for use with 3/8" or 1/2" thick glass.

CAT. NO.	FINISH	GLASS THICKNESS
RH2212BR	Brass	1/2" (12mm)
RH2238BR	Brass	3/8" (10mm)
RH2212CH	Chrome	1/2" (12mm)
RH2238CH	Chrome	3/8" (10mm)



STRAIGHT OPEN CENTER 'E'

Reversible center clamps with open center for use with 3/8" or 1/2" thick glass.

CAT. NO.	FINISH	GLASS THICKNESS
RH1112BR	Brass	1/2" (12mm)
RH1138BR	Brass	3/8" (10mm)
RH1112CH	Chrome	1/2" (12mm)
RH1138CH	Chrome	3/8" (10mm)

All Glass Clamps can be combined for quantity pricing.

CRL No-Drill Glass Shelf Clamps

- **Solid Brass with Chrome or Gold Plated Finishes**
- **Secure with Set Screws — No Drilling of Glass Required**

These No-Drill Glass Shelf Clamps are made of solid brass with a beautiful chrome or gold plated finish. They make mounting small glass shelves directly to walls or inside cabinets easy because nylon set screws secure the glass, so they require no drilling of the glass. The Wide Clamp is available in two lengths: 1-1/4" and 2-3/4". The Round Clamp comes in two diameters: 25/32" for 3/8" glass; 15/16" for 1/2" glass. Maximum shelf protrusion from wall is 5". Also suitable for use with small acrylic or wood shelves.

WIDE CLAMPS WITH DOUBLE MOUNTING HOLES

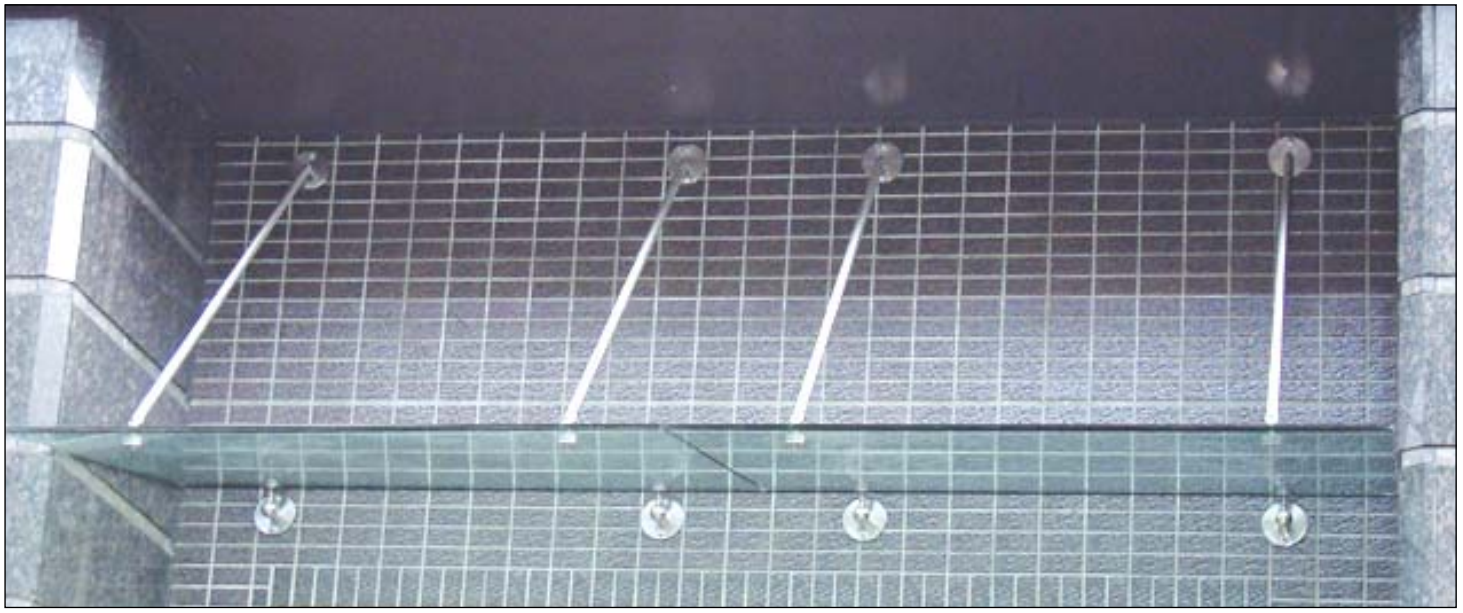
CAT NO.	FINISH	LENGTH	GLASS THICKNESS
1230CHR	Chrome	1-1/4"	3/8" (10mm)
1230GP	Gold	1-1/4"	3/8" (10mm)
1270CHR	Chrome	2-3/4"	3/8" (10mm)
1270GP	Gold	2-3/4"	3/8" (10mm)
1430CHR	Chrome	1-1/4"	1/2" (12mm)
1430GP	Gold	1-1/4"	1/2" (12mm)
1470CHR	Chrome	2-3/4"	1/2" (12mm)
1470GP	Gold	2-3/4"	1/2" (12mm)

ROUND CLAMPS WITH SINGLE MOUNTING HOLE

CAT NO.	FINISH	DIAMETER	GLASS THICKNESS
1020CHR	Chrome	25/32"	3/8" (10mm)
1020GP	Gold	25/32"	3/8" (10mm)
1222CHR	Chrome	15/16"	1/2" (12mm)
1222GP	Gold	15/16"	1/2" (12mm)

All No-Drill Clamps can be combined for quantity pricing.

CRL Glass Awning Support System



NOTE: Glass Panel Not Included

- **Complete Hardware Package for 9/16" (13.5mm) Thick Tempered, Laminated Glass Awnings**
- **Protects from Weather Without Obstructing View**
- **All High Grade Stainless Steel Components for Panel Sizes Up to 48" Wide and 72" Long**
- **Easy Installation Allows an Economical and Elegant Solution for Both Commercial and Residential Applications**
- **Adjustable Slope for Most Weather Conditions**

The Glass Awning Support System will give any entrance an uncomplicated, graceful look. With the use of tempered laminated glass you can add a range of colors and textures not available in monolithic glass to complement and enhance the design of any building.

The use of eye and fork connections make installation quick and simple. The adjustability built into the Connecting Rods makes field adjustments to varying job conditions a snap. For additional information, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

SPECIFICATIONS:

Material:
All stainless steel construction

For Use With:
9/16" (13.5mm) thick tempered laminated glass comprised of 1/4" (6mm) tempered glass, .060" (1.5mm) interlayer, and 1/4" (6mm) tempered glass

Glass Fabrication Required:
Four 1/2" (12mm) diameter holes per panel

Top Plate and Pivot for edge of glass furthest from building are connected by one of three available Rod lengths

Bottom Plate and Pivot are connected to each other to support edge of glass nearest to the building

GAS90BS Mounting Kit One each Top and Bottom Plate, and two Pivots

GAS37BS Rod for 36" (914 mm) Panel

GAS45BS Rod for 42" (1067 mm) Panel

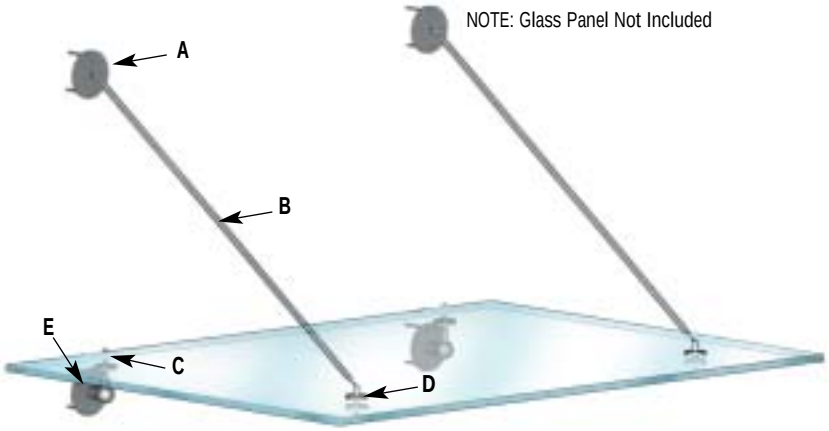
GAS54BS Rod for 48" (1219 mm) Panel

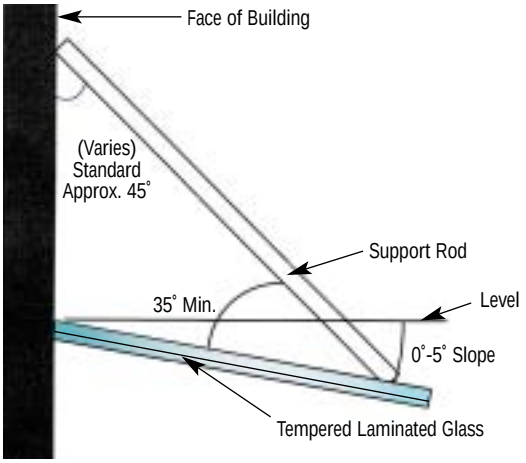
GLASS AWNING SYSTEM COMPONENTS

CAT. NO.	DESCRIPTION	FINISH
GAS37BS	Rod for 36" (914mm) Panel	Brushed Stainless
GAS45BS	Rod for 42" (1067mm) Panel	Brushed Stainless
GAS54BS	Rod for 48" (1219mm) Panel	Brushed Stainless
GAS90BS	* Mounting Kit Only	Brushed Stainless

* Stainless Steel Mounting Screws not included.

CRL Glass Awning Support System





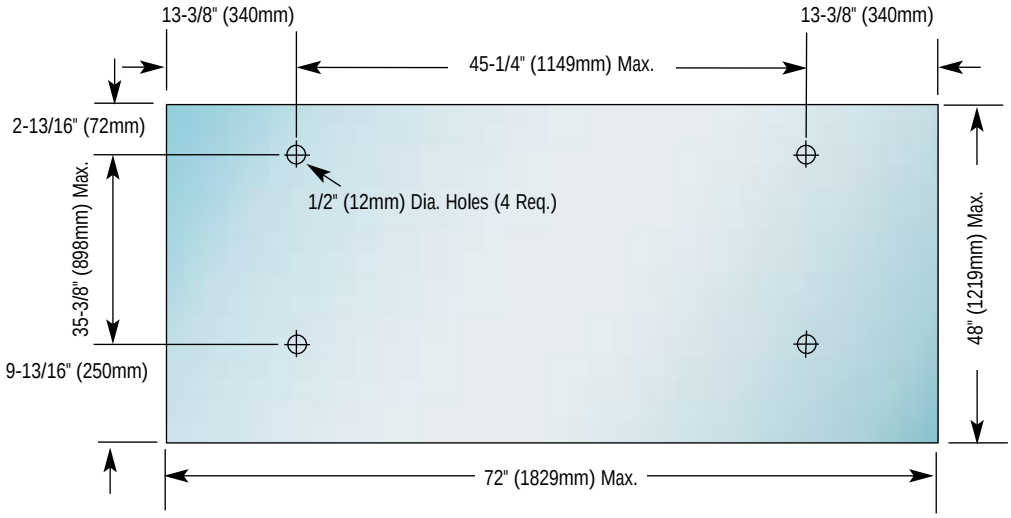
COMPONENTS

Plates (A & E) and Pivots (C & D) are contained in GAS90BS Mounting Kit. Order Rods (B) to suit panel.

INSTALLATION CONDITIONS

The slope of the awning panel is limited to a maximum 5˚ slope from level.

AWNING PANEL FABRICATION AND DIMENSIONS

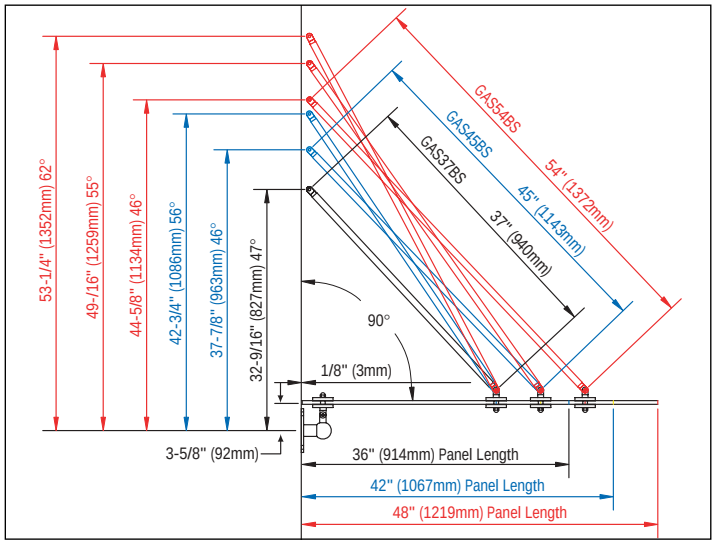


MAKE-UP OF LAMINATED UNITS

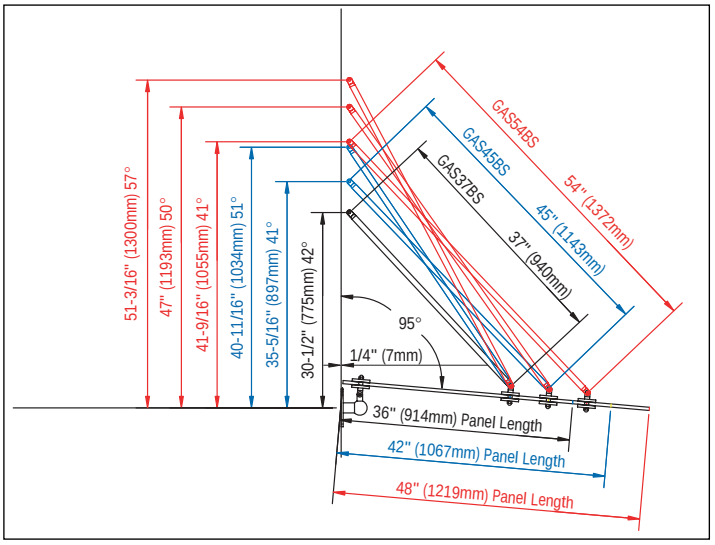
The Awning Panels are constructed using:
* 1/4" (6mm) tempered glass (max.)
* .060" (1.5mm) interlayer (min.)
* 1/4" (6mm) tempered glass (max.).

All edges should be polished.

TYPICAL MOUNTING MEASUREMENTS



0° PANEL SLOPE



5° PANEL SLOPE

CRL Spider Fittings

- Designed for the "All Glass" Look
- Spiders for Fin or Post Supported Applications
- Supplied with Swiveling Glass Connectors
- Made of 316 Alloy Stainless Steel in Two Attractive Finishes: Brushed or Polished Stainless
- Items Use with 1/2" (12 mm) and 5/8" (16mm) Tempered Glass

NEW

TYPICAL APPLICATIONS:

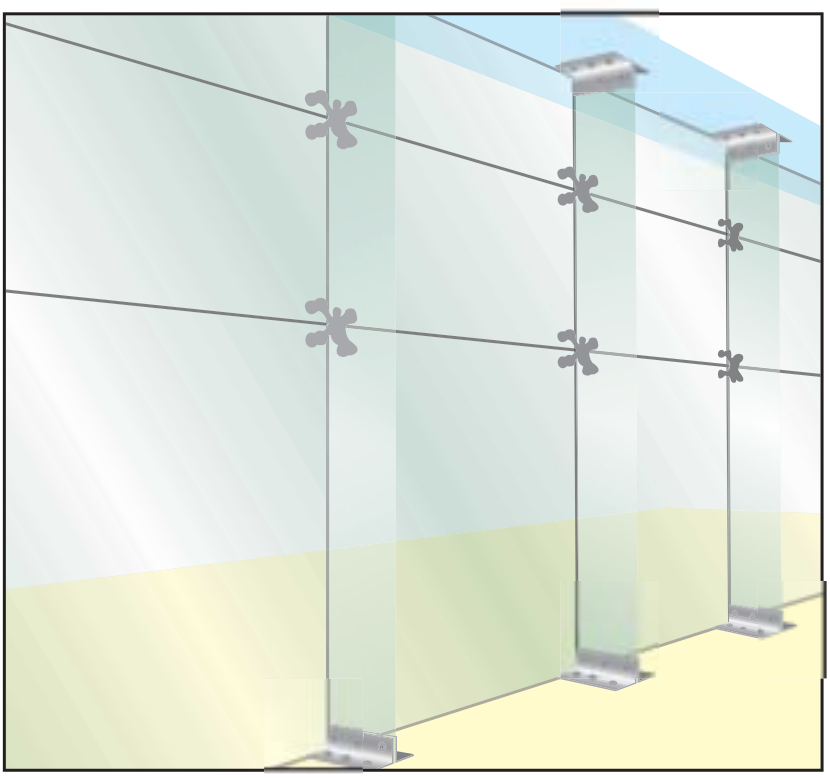
- Malls
- Atriums
- Airports
- Museums
- All Glass Curtainwalls

Modern design demands have begun to push the envelope to maximize the "All Glass" concept in architecture. With this concept in mind, the "Spider" type of glass fitting was developed. Spider Fittings are designed to create all glass curtainwalls, and carry the loads associated with wind load and stack pressure. They transfer these loads to the structure, either through the structural framework of the building by using Post Mounted Spiders, or to the floor and ceiling with Fin Stabilized Spiders.

C.R. Laurence has assembled a line of "Spider" type components to fit most needs of designers choosing to work with this style of glass fitting. Not only do we stock the basic fittings themselves, but we have gathered accessory parts that can be used to put the finishing touches on the job.

Made of 316 Alloy Stainless Steel, CRL Spider Fittings will provide a virtually maintenance free design and beautiful finish to complement most any decor. These sturdy and durable fittings will meet the demands of most modern installations.

For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**



Only Some of Our Extensive Line...

4-Way Post Mounted Fitting

Fin-Stabilized 4-Way Glass-to-Glass Fitting

Fin-Stabilized 1-Way Wall Mounted Fitting

3-Way Post Mounted Fitting

2-Way Heavy-Duty Post Mounted Fitting

Fin-Stabilized 2-Way Wall Mount Fitting

4-Way Glass Circular Bracket

Swivel Countersunk Fastener

1-Way Post Mounted Fitting

CRL Spider Fittings

NEW

Regular-Duty Post Mounted Spider Fittings

Regular-Duty Post Mounted Spider Fittings are designed to mount to structural post or frame members and transfer the loads to the structure. They make an economical choice for most projects. Each Spider is supplied with the countersunk swivel glass fastening fittings. Alternate glass fasteners are available separately. Please see page F131 for glass fastening options.

PLEASE NOTE: To determine whether Regular-Duty or Heavy-Duty Spider Fittings are needed for your application, please consult local building requirements and a licensed structural engineer.

SPECIFICATIONS:

FOR USE WITH:
1/2" (12 mm) and 5/8" (16mm) Tempered Glass

DO NOT USE WITH:
Annealed or Raw Glass

GLASS FABRICATION REQUIRED:
One 1" (25 mm) Diameter Countersunk Hole Per Glass Fastening

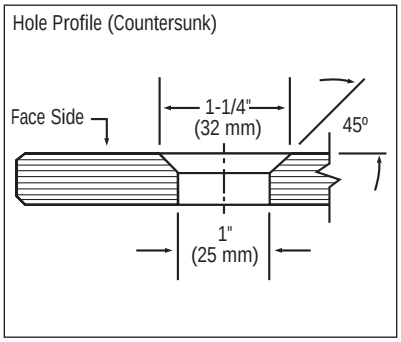
TEMPLATES:
Available on Request for Each Fitting

3-WAY REGULAR-DUTY POST MOUNTED FITTING

CAT. NO.	FINISH
SPP3PS	Polished Stainless
SPP3BS	Brushed Stainless

2-WAY "V" REGULAR-DUTY POST MOUNTED FITTING

CAT. NO.	FINISH
SPP2VPS	Polished Stainless
SPP2VBS	Brushed Stainless



1-WAY REGULAR-DUTY POST MOUNTED FITTING

CAT. NO.	FINISH
SPP1PS	Polished Stainless
SPP1BS	Brushed Stainless

4-WAY REGULAR-DUTY POST MOUNTED FITTING

CAT. NO.	FINISH
SPP4PS	Polished Stainless
SPP4BS	Brushed Stainless

2-WAY REGULAR-DUTY POST MOUNTED FITTING

CAT. NO.	FINISH
SPP2PS	Polished Stainless
SPP2BS	Brushed Stainless

POST MOUNTED STAND-OFF FITTING

CAT. NO.	FINISH
SPP0PS	Polished Stainless
SPP0BS	Brushed Stainless

For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

CRL Spider Fittings

NEW

Heavy-Duty Post Mounted Spider Fittings

Heavy-Duty Post Mounted Spiders are designed to handle the more rigorous demands of large projects. Each Spider is supplied with the countersunk swivel glass fastening fittings. Alternate glass fasteners are available separately. Please see page F131 for glass fastening options.

PLEASE NOTE: To determine whether Regular-Duty or Heavy-Duty Spider Fittings are needed for your application, please consult local building requirements and a licensed structural engineer.

SPECIFICATIONS:

FOR USE WITH:
1/2" (12 mm) and 5/8" (16mm) Tempered Glass

DO NOT USE WITH:
Annealed or Raw Glass

GLASS FABRICATION REQUIRED:
One 1" (25 mm) Diameter Countersunk Hole Per Glass Fastening

TEMPLATES:
Available on Request for Each Fitting

3-WAY HEAVY-DUTY POST MOUNTED FITTING

CAT. NO.	FINISH
SPP3HPS	Polished Stainless
SPP3HBS	Brushed Stainless

4-WAY HEAVY-DUTY POST MOUNTED FITTING

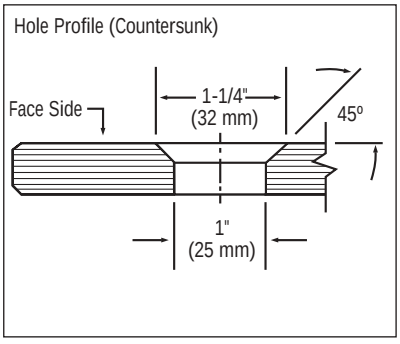
CAT. NO.	FINISH
SPP4HPS	Polished Stainless
SPP4HBS	Brushed Stainless

2-WAY "V" HEAVY-DUTY POST MOUNTED FITTING

CAT. NO.	FINISH
SPP2VHPS	Polished Stainless
SPP2VHBS	Brushed Stainless

2-WAY HEAVY-DUTY POST MOUNTED FITTING

CAT. NO.	FINISH
SPP2HPS	Polished Stainless
SPP2HBS	Brushed Stainless



1-WAY HEAVY-DUTY POST MOUNTED FITTING

CAT. NO.	FINISH
SPP1HPS	Polished Stainless
SPP1HBS	Brushed Stainless

POST MOUNTED STAND-OFF FITTING

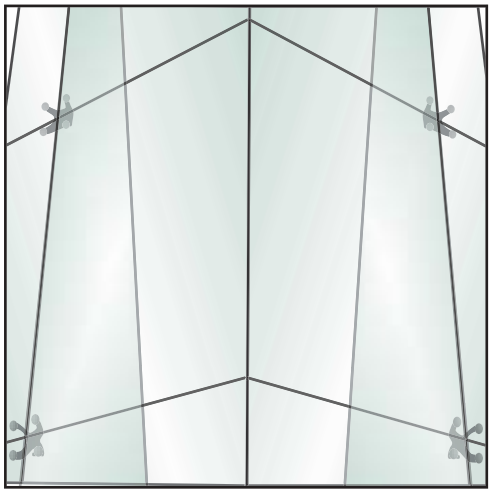
CAT. NO.	FINISH
SPP0PS	Polished Stainless
SPP0BS	Brushed Stainless

For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

CRL Spider Fittings

NEW

Regular-Duty Fin Stabilized Spider Fittings



Regular-Duty Fin Stabilized Spider Fittings can be used with 1/2" (12 mm) or 5/8" (16 mm) facade glass, 3/4" (19 mm) glass or metal fins to stabilize the deflections associated with wind and stack load pressures, while maintaining an "All Glass" look.

The Regular-Duty Fin Stabilized Spiders are an economical choice for most projects. Each Spider is supplied with the countersunk swivel glass fastening fittings. Alternate glass fasteners are available separately.
Please see page F131 for glass fastening options.

PLEASE NOTE: To determine whether Regular-Duty or Heavy-Duty Spider Fittings are needed for your application, please consult local building requirements and a licensed structural engineer.

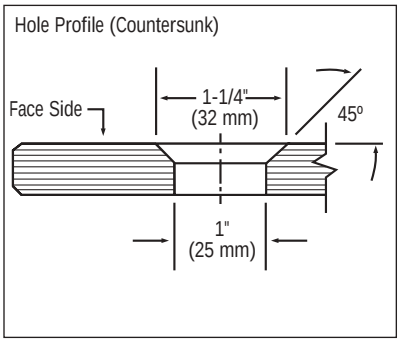
SPECIFICATIONS:

FOR USE WITH:
1/2" (12 mm) and 5/8" (16mm) Tempered Glass for Facades, 3/4" (19mm) Tempered Glass for Fins

DO NOT USE WITH:
Annealed or Raw Glass

GLASS FABRICATION REQUIRED:
One 1" (25 mm) Diameter Countersunk Hole Per Facade Glass Fastening, and One 7/8" (22 mm) Diameter Hole Per Fin Fastener

TEMPLATES:
Available on Request for Each Fitting



REGULAR-DUTY FIN STABILIZED 4-WAY GLASS-TO-GLASS FITTING

CAT. NO.	FINISH
SPF4PS	Polished Stainless
SPF4BS	Brushed Stainless

REGULAR-DUTY FIN STABILIZED 2-WAY GLASS-TO-GLASS FITTING

CAT. NO.	FINISH
SPF2PS	Polished Stainless
SPF2BS	Brushed Stainless

REGULAR-DUTY FIN STABILIZED 2-WAY WALL MOUNT FITTING

CAT. NO.	FINISH
SPF412PS	Polished Stainless
SPF412BS	Brushed Stainless

REGULAR-DUTY FIN STABILIZED 1-WAY WALL MOUNT FITTING

CAT. NO.	FINISH
SPF212PS	Polished Stainless
SPF212BS	Brushed Stainless

For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext.777, or e-mail **techsales@crlaurence.com.**

CRL Spider Fittings

NEW

Heavy-Duty Fin Stabilized Spider Fittings

To achieve the design requirements of an "All Glass" facade in areas of high wind load conditions, our Heavy-Duty Fin Stabilized Spiders are the fixtures of choice. They can be used with 1/2" (12mm) and 5/8" (16mm) facade glass, and 3/4" (19 mm) glass or metal fins to stabilize the deflections associated with wind and stack load pressures. Each Spider is supplied with the countersunk swivel glass fastening fittings. Alternate glass fasteners are available separately.
Please see page F131 for glass fastening options.

PLEASE NOTE: To determine whether Regular-Duty or Heavy-Duty Spider Fittings are needed for your application, please consult local building requirements and a licensed structural engineer.

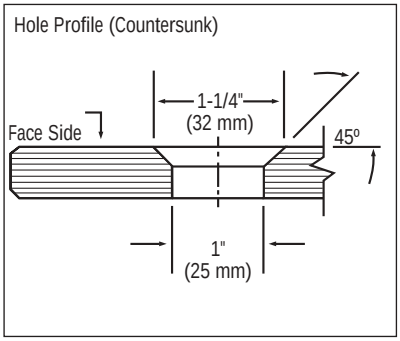
SPECIFICATIONS:

FOR USE WITH:
1/2" (12 mm) and 5/8" (16mm) Tempered Glass for Facades, 3/4" (19mm) Tempered Glass for Fins

DO NOT USE WITH:
Annealed or Raw Glass

GLASS FABRICATION REQUIRED:
One 1" (25 mm) Diameter Countersunk Hole Per Facade Glass Fastener, and One 7/8" (22 mm) Diameter Hole Per Fin Fastener

TEMPLATES:
Available on Request for Each Fitting



HEAVY-DUTY FIN STABILIZED 4-WAY GLASS-TO-GLASS FITTING

CAT. NO.	FINISH
SPF4HPS	Polished Stainless
SPF4HBS	Brushed Stainless

HEAVY-DUTY FIN STABILIZED 2-WAY GLASS-TO-GLASS FITTING

CAT. NO.	FINISH
SPF2HPS	Polished Stainless
SPF2HBS	Brushed Stainless

HEAVY-DUTY FIN STABILIZED 2-WAY WALL MOUNT FITTING

CAT. NO.	FINISH
SPF412HPS	Polished Stainless
SPF412HBS	Brushed Stainless

HEAVY-DUTY FIN STABILIZED 1-WAY WALL MOUNT FITTING

CAT. NO.	FINISH
SPF212HPS	Polished Stainless
SPF212HBS	Brushed Stainless

CRL Technical Sales

Toll Free (800) 421-6144
From Anywhere in the U.S.A.

Toll Free (877) 421-6144
From Anywhere in Canada

Please Ask for Extension 777

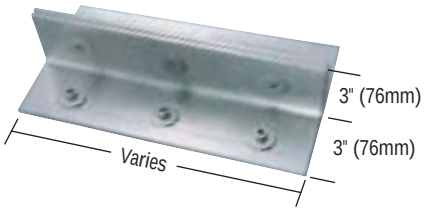
C.R. Laurence Company has a Technical Sales Department to assist with design plans and installation questions concerning Commercial Hardware. Your job can be made easier with the help of our Technical Sales Representatives who are trained in the newest hardware systems, and can offer you detailed diagrams and layout sheets.

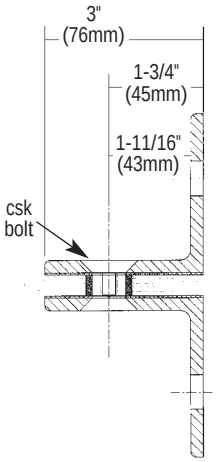
For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

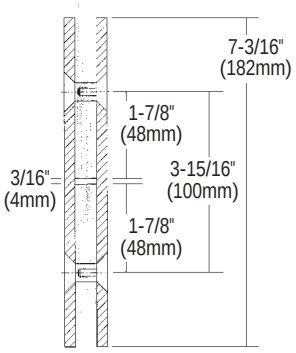
CRL Spider Fittings

Fin Top/Bottom Shoe Fittings for 3/4" (19mm) Glass

Fin Top/Bottom Shoe Fittings are used to connect the glass fins to the structure of the floor or ceiling.







CAT. NO.	FOR FIN SIZE	FINISH
FTF12PS	12"	Polished Stainless
FTF12BS	12"	Brushed Stainless
FTF16PS	16"	Polished Stainless
FTF16BS	16"	Brushed Stainless
FTF20PS	20"	Polished Stainless
FTF20BS	20"	Brushed Stainless
FTF24PS	24"	Polished Stainless
FTF24BS	24"	Brushed Stainless

SPECIFICATIONS:

FOR USE WITH:
3/4" (19 mm)
Tempered Glass

DO NOT USE WITH:
Annealed or Raw Glass

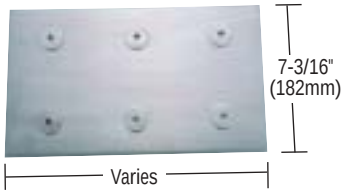
GLASS FABRICATION REQUIRED:
One 7/8" (22 mm) Diameter Hole Per Glass Fastening

TEMPLATES:
Available on Request for Each Fitting

NEW

Fin Splice Fittings for 3/4" (19 mm) Glass

Fin Splice Fittings are used to stack multiple pieces of glass to construct extra tall fins used to stabilize the glass facade.

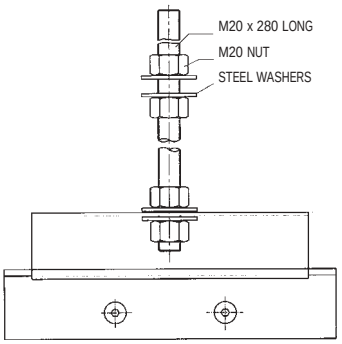


CAT. NO.	FOR FIN SIZE	FINISH
FSF12PS	12"	Polished Stainless
FSF12BS	12"	Brushed Stainless
FSF16PS	16"	Polished Stainless
FSF16BS	16"	Brushed Stainless
FSF20PS	20"	Polished Stainless
FSF20BS	20"	Brushed Stainless
FSF24PS	24"	Polished Stainless
FSF24BS	24"	Brushed Stainless

Fin Suspension Fittings

Fin Suspension Fittings are used to hang the glass fins from the structure of the ceiling by the Fin Top/Bottom Shoe Fittings. No glass fabrication required.

CAT. NO.	FOR FIN SIZE	FINISH
FSU12PS	12" to 20"	Polished Stainless
FSU12BS	12" to 20"	Brushed Stainless
FSU24PS	24"	Polished Stainless
FSU24BS	24"	Brushed Stainless



Glass Rail Fittings

- **Reduced in Size for Hand Railings**
- **Finishes to Match Spider Fittings**

SPECIFICATIONS:

FOR USE WITH:
1/2" (12 mm)
Tempered Glass

DO NOT USE WITH:
Annealed or Raw Glass

GLASS FABRICATION REQUIRED:
One Countersunk Hole Per Glass Fastening

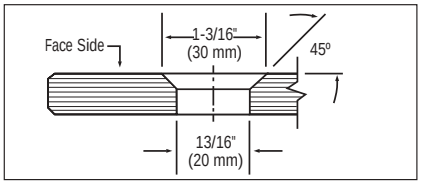
TEMPLATES:
Available on Request for Each Fitting

For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

For mounting hand rails or stabilizing glass to posts.

4-WAY HAND RAIL BRACKET

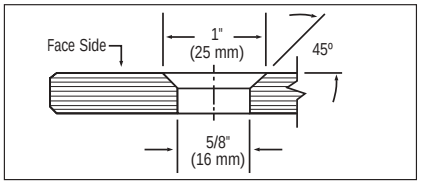
CAT. NO.	FINISH
GR4RPS	Polished Stainless
GR4RBS	Brushed Stainless



For floor mount or fin stabilizing of glass balustrades.

4-WAY BALUSTRADE BRACKET

CAT. NO.	FINISH
GR4BPS	Polished Stainless
GR4BBS	Brushed Stainless



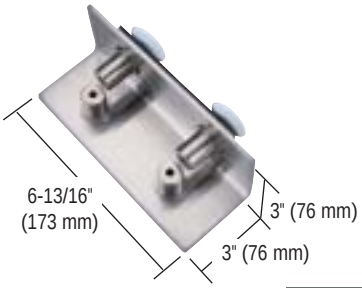
CRL Spider Fittings

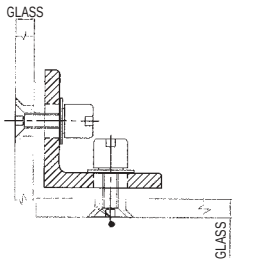
NEW

Corner, Circular and Link Brackets

90° Corner Bracket

Used to secure glass at 90° corners. Supplied with four rigid countersunk glass connecting screws.

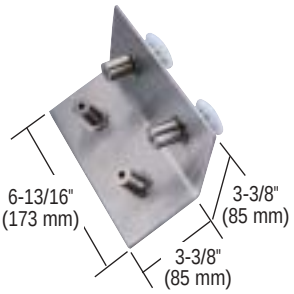


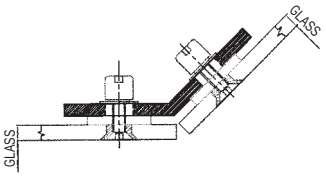


CAT. NO.	FINISH
CBP90PS	Polished Stainless
CBP90BS	Brushed Stainless

135° Corner Bracket

Used to secure glass at 135° corners. Supplied with four rigid countersunk glass connecting screws.

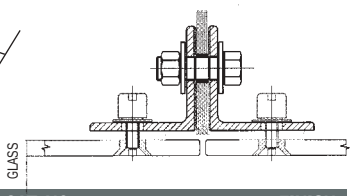




CAT. NO.	FINISH
CBP135PS	Polished Stainless
CBP135BS	Brushed Stainless

2-Way Glass / 1-Way Wall Circular Bracket

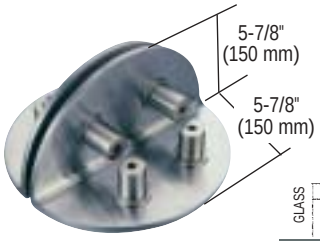
Used to link two inline panels of glass to a fin support behind. Used to connect one or two inline panels to a fin support, or when split apart they can be used to connect one panel to a wall. Supplied with two rigid countersunk glass connecting screws and one fin securing bolt.

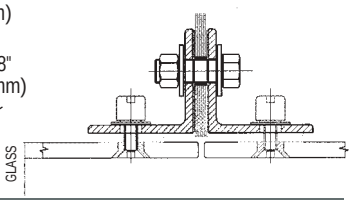


CAT. NO.	FINISH
CCB2PS	Polished Stainless
CCB2BS	Brushed Stainless

4-Way Glass / 2-Way Wall Circular Bracket

Used to link two or four inline panels of glass to a fin support behind. Used to connect two or four inline panels to a fin support, or when split apart they can be used to connect one or two panels to a wall. Supplied with four rigid countersunk glass connecting screws and two fin securing bolts.





CAT. NO.	FINISH
CCB4PS	Polished Stainless
CCB4BS	Brushed Stainless

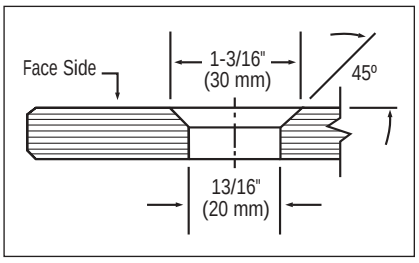
SPECIFICATIONS:

FOR USE WITH:
1/2" (12 mm)
Tempered Glass

DO NOT USE WITH:
Annealed or Raw Glass

GLASS FABRICATION REQUIRED:
One Countersunk Hole Per Glass Fastening for Countersunk Screws, (See Diagram at Right), or One 15/16" (23mm) Standard Hole for Fin Securing Bolt

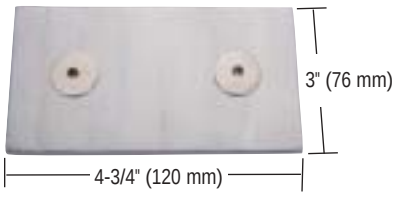
TEMPLATES:
Available on Request for Each Fitting



For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

Link Bracket

Used to connect two 1/2" (12mm) glass inline panels together to reduce differential deflection. Supplied with two glass connecting screws.



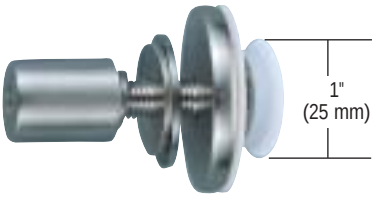
CAT. NO.	FINISH
CLB1PS	Polished Stainless
CLB1BS	Brushed Stainless

CRL Spider Fittings

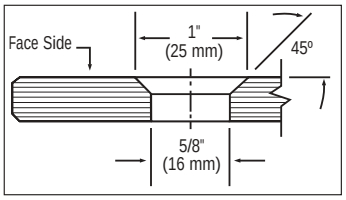
NEW

Fastener Hardware

Rigid Countersunk Fastener for 1/2" (12 mm) to 5/8" (16 mm) Glass



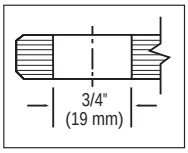
Glass Fabrication:
One 5/8" (16mm) Countersunk Hole



CAT. NO.	FINISH
SP4999PS	Polished Stainless
SP4999BS	Brushed Stainless

Rigid Cap Fastener for 1/2" (12 mm) to 5/8" (16mm) Glass

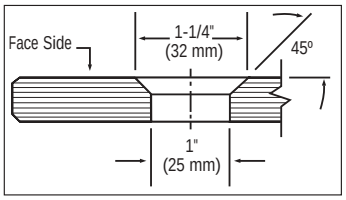
Glass Fabrication:
One 3/4" (19mm)
Standard Hole



CAT. NO.	FINISH
RCF12PS	Polished Stainless
RCF12BS	Brushed Stainless

Swivel Countersunk Fastener for 1/2" (12 mm) to 5/8" (16 mm) Glass

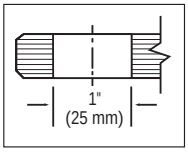
Glass Fabrication:
One 1" (25mm) Countersunk Hole



CAT. NO.	FINISH
SCF12PS	Polished Stainless
SCF12BS	Brushed Stainless

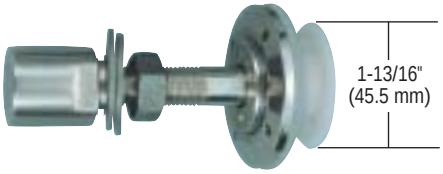
Rigid Cap Fastener for 3/4" (19 mm) Glass

Glass Fabrication:
One 1" (25 mm)
Standard Hole

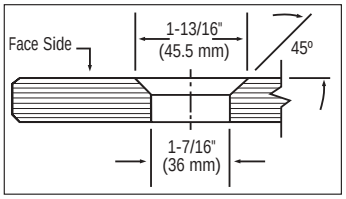


CAT. NO.	FINISH
RCAP34PS	Polished Stainless
RCAP34BS	Brushed Stainless

Swivel Countersunk Fastener for 3/4" (19 mm) Glass

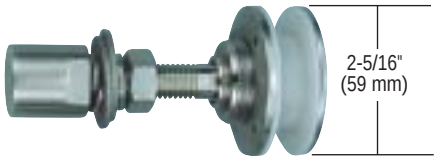


Glass Fabrication:
One 1-7/16" (36mm) Countersunk Hole

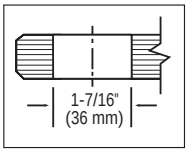


CAT. NO.	FINISH
SCF34PS	Polished Stainless
SCF34BS	Brushed Stainless

Swivel Cap Fastener for 1/2" (12 mm) to 13/16" (20 mm) Glass



Glass Fabrication:
One 1-7/16" (36mm)
Standard Hole



CAT. NO.	FINISH
SCAP34PS	Polished Stainless
SCAP34BS	Brushed Stainless

SPECIFICATIONS:

FOR USE WITH:
Tempered Glass.
See Individual Items for Glass Thickness.

DO NOT USE WITH:
Annealed or Raw Glass

TEMPLATES:
Available on Request for Each Fitting

GLASS FABRICATION REQUIRED:
One Countersunk Hole Per Glass Fastening for Countersunk Fasteners (See Diagrams);
One Standard Hole for Cap Fasteners (See Hole Size Next to Each Item)

For additional assistance, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

CRL Self Closing Deluxe Sliding Service Windows

- **Each Unit is Custom Fabricated to Fit Opening**
- **Self Closing Mechanism and Self Locking Handle Included**
- **Removable Header Access Panel for Easy Servicing**

NEW

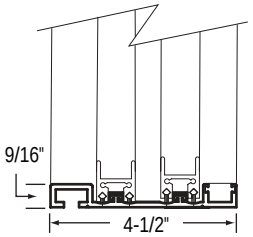
Designed, Engineered and Manufactured in the USA by C.R. Laurence

C.R. Laurence "SCDW" Series Service Windows incorporate the self closing feature typically required by the fast food industry. These high quality windows are manufactured for interior or exterior, high or low usage applications. Self Closing function is provided with high quality components designed for trouble-free operation.

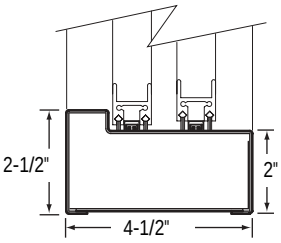
Since each unit is custom built to your specifications, we will work with you to design a unit that best suits the requirements of the installation. Glazing and sill conditions will be discussed, and our Transaction Hardware professionals will help you select the options that wil result in a window that meets your customer's needs and expectations.

Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

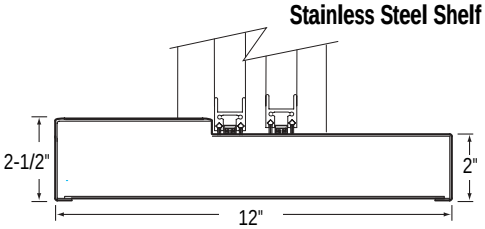
SILL CONDITIONS AVAILABLE



CAT. NO.SCDW1802
Aluminum Full Bottom Track



CAT. NO. SCDW1803
Stainless Steel Sill



CAT. NO. SCDW1804
Stainless Steel Shelf

CAT. NO. SCDW1804DU
(Shown with Header Panel Removed)

CAT. NO.	CONFIGURATION*	SILL CONDITION	FINISH
SCDW1802A	XO or OX	Aluminum Full Bottom Track	Satin Anodized
SCDW1802DU	XO or OX	Aluminum Full Bottom Track	Duranodic Bronze
SCDW1802P	XO or OX	Aluminum Full Bottom Track	Painted (Specify)
SCDW1803A	XO or OX	Stainless Steel Sill	Satin Anodized
SCDW1803DU	XO or OX	Stainless Steel Sill	Duranodic Bronze
SCDW1803P	XO or OX	Stainless Steel Sill	Painted (Specify)
SCDW1804A	XO or OX	Stainless Steel Shelf	Satin Anodized
SCDW1804DU	XO or OX	Stainless Steel Shelf	Duranodic Bronze
SCDW1804P	XO or OX	Stainless Steel Shelf	Painted (Specify)

* Determined From Clerkside X= Sliding Panel O= Fixed Panel (Specify when ordering). F.O.B. All CRL Warehouses.

SPECIFICATIONS:

Materials: Aluminum Extrusions, Pile Weatherstrip, Glazing Vinyl, Stainless Steel Shelf

Glazing Options: 1/4" to 1/2" Tempered, Laminated or Tinted Glass, and 1/2" Insulating Glass

CRL All Electric Fully Automatic Bi-Fold Service Windows

C.R. Laurence All Electric Fully Automatic Bi-Fold Service Windows are perfect anywhere a high quality bi-folding window is required. Opening the window is as easy as stepping in front of the built-in infrared sensing device. To close the window, simply step away and the two panels automatically close.

The Automatic/Off/Manual Switch provides three different window settings: Automatic operates with the infrared sensing device; Manual operates with a jamb mounted push button; Off defeats all functions and closes the two panels.

Features include two panels that simultaneously open outward towards the customer, burglar bar for extra security, low voltage 24V DC system, and a UL/CSA Approved Class 2 Transformer. Custom sizes and custom paint colors are available by special order. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

- **Available in Stock or Custom Sizes**
- **Available in Stock or Custom Finishes**

NEW

Flush Mount Fully Automatic Model
(as Viewed from Clerk Side)

Projected Fully Automatic Model
(as Viewed from Clerk Side)

SPECIFICATIONS:

Materials: Aluminum Extrusions, Pile Weatherstrip, Glazing Vinyl, Stainless Steel Shelf with Control Panel Assembly

Designed, Engineered and Manufactured in the USA by C.R. Laurence

Glazing: 1/4" Clear Tempered Glass

Stock Finishes: Satin Anodized or Duranodic Bronze

Configuration: Fully Automatic Bi-Fold

Controls: Infrared Sensing Device and Manual/Off/Automatic Switch Included in Stainless Steel Shelf (attached). Jamb Mounted Push Button Switch for Manual Operation. Header Mounted Master Power Switch and Push-to-Reset Master Fuse

Power Requirements: 115V AC

To Determine Rough Opening: Add 1/2" to Width, 1/4" to Height

CAT. NO.	OVERALL SIZE	SERVICE OPENING	DESCRIPTION	FINISH
EBFW1A	24" W x 38-1/2" H	17-3/4" W x 32-1/4" H	Flush Mount Fully Automatic Window	Satin Anodized
EBFW1DU	24" W x 38-1/2" H	17-3/4" W x 32-1/4" H	Flush Mount Fully Automatic Window	Duranodic Bronze
EBFW1C	Custom Model - Must Specify		Flush Mount Fully Automatic Window	Specify Color
EBFW2A	27-3/4" W x 40" H	15" W x 25" H	Projected Fully Automatic Window	Satin Anodized
EBFW2DU	27-3/4" W x 40" H	15" W x 25" H	Projected Fully Automatic Window	Duranodic Bronze
EBFW2C	Custom Model - Must Specify		Projected Fully Automatic Window	Specify Color

F.O.B. All CRL Warehouses.

CRL Manual Bi-Fold Service Windows

NEW

Manufactured with the same high quality standards as our All Electric Bi-Fold Window (shown above), this Manual unit is perfect anywhere a manually operated window is required. Custom sizes and custom paint colors are available by special order.

Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

- **Available in Stock or Custom Sizes**
- **Available in Stock or Custom Finishes**

Projected Manual Model
(as Viewed from Clerk Side)

SPECIFICATIONS:

Materials: Aluminum Extrusions, Pile Weatherstrip, Glazing Vinyl, Stainless Steel Sill or Stainless Steel Shelf

Glazing: 1/4" Clear Tempered Glass

Stock Finishes: Satin Anodized or Duranodic Bronze

Configuration: Manual Bi-Fold

To Determine Rough Opening: Add 1/2" to Width, 1/4" to Height

Flush Mount Manual Model
(as Viewed from Clerk Side)

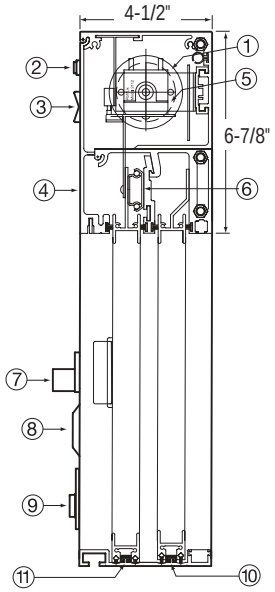
CAT. NO.	OVERALL SIZE	SERVICE OPENING	DESCRIPTION	FINISH
BFW1A	24" W x 38-1/2" H	17-3/4" W x 32-1/4" H	Flush Mount Manual Window	Satin Anodized
BFW1DU	24" W x 38-1/2" H	17-3/4" W x 32-1/4" H	Flush Mount Manual Window	Duranodic Bronze
BFW1C	Custom Model - Must Specify		Flush Mount Manual Window	Specify Color
BFW2A	27-3/4" W x 40" H	15" W x 25" H	Projected Manual Window	Satin Anodized
BFW2DU	27-3/4" W x 40" H	15" W x 25" H	Projected Manual Window	Duranodic Bronze
BFW2C	Custom Model - Must Specify		Projected Manual Window	Specify Color

F.O.B. All CRL Warehouses.

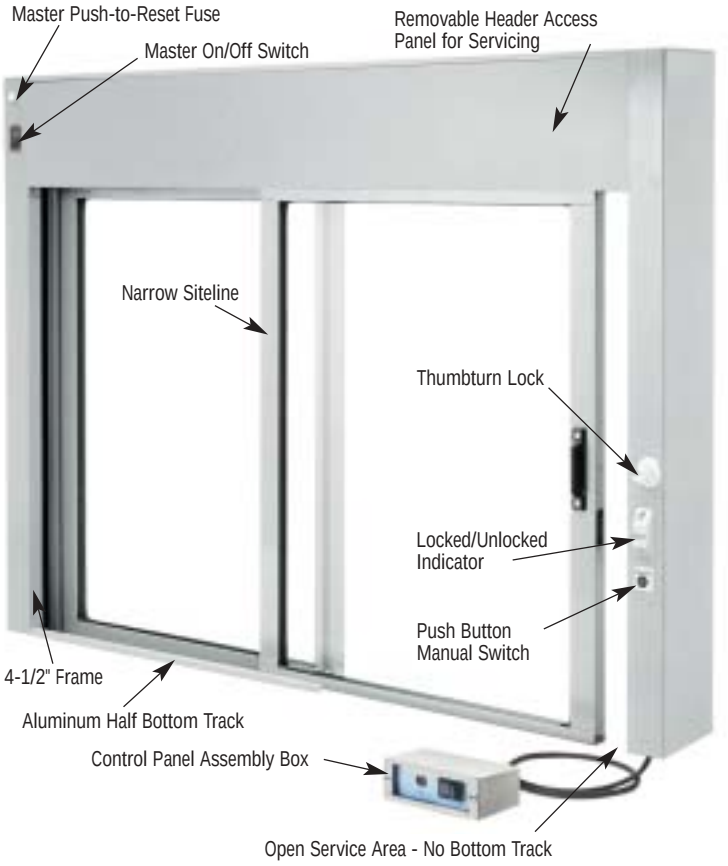
CRL All Electric Fully Automatic Deluxe Sliding Service Windows

Stock Sizes and Custom Sizes Available

NEW



1. 24V DC Electric Motor
2. Master Push-to-Reset Fuse
3. Master Power On/Off Switch
4. Removable Header Access Panel
5. Microprocessor Logic Control Module
6. Heavy-Duty Anti-Lift Ball Bearing Carrier
7. Thumbturn Hook Throw Deadlock
8. Locked/Unlocked Indicator
9. Push Button Manual Open/Close Switch
10. Vinyl Track (No Metal-to-Metal Rubbing)
11. Poly-Pile Weatherstripping with Fin



CONTROL PANEL ASSEMBLY

Control Panel Assembly contains an infrared sensing device and an automatic/off/manual switch enclosed in a stainless steel housing mounted separately by installer.

Designed, Engineered and Manufactured in the USA by C.R. Laurence

STOCK WINDOW SPECIFICATIONS:

Materials: Aluminum Extrusions, Pile Weatherstrip, Glazing Vinyl, Stainless Steel Control Panel Assembly

Glazing: 1/4" Clear Tempered Glass

Finish: Satin Anodized or Duranodic Bronze

Configuration: XO or OX

Controls: Infrared Sensing Device and Automatic/Off/Manual Switch Included in Stainless Steel Housing (Mounted by Installer). Jamb Mounted Push Button Switch for Manual Operation. Header Mounted Master Power Switch and Push-to-Reset Master Fuse

Power Requirements: Hardwire to 115V AC Power Source

To Determine Rough Opening:

Add 1/2" to Width, 1/4" to Height

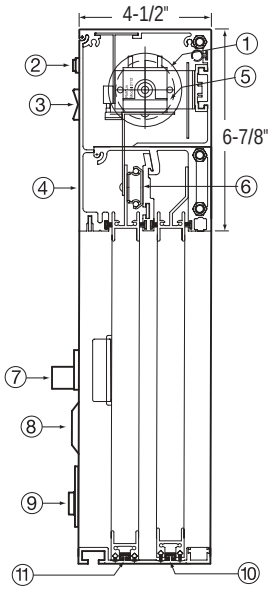
C.R. Laurence is proud to offer our New All Electric Fully Automatic Deluxe Sliding Service Window. This single sliding service window is perfect for drive-thru applications such as fast food restaurants, pharmacies, dry cleaners, or anywhere a high quality automatic service window is required. Safety features include 24V DC, UL/CSA Approved Class 2 Transformer, Auto Reverse if window is blocked, "Soft Close" feature in “Pinch Zone”, and a Mechanical Positive Slip Clutch. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

STOCK WINDOWS - (SEE PAGE F135 FOR CUSTOM WINDOWS)

CAT. NO.	OVERALL SIZE	SERVICE OPENING	CONFIGURATION*	FINISH
EDW4830X0A	48" W x 30" H	20-7/8" W x 23-1/8" H	XO	Satin Anodized
EDW48300XA	48" W x 30" H	20-7/8" W x 23-1/8" H	OX	Satin Anodized
EDW4830X0DU	48" W x 30" H	20-7/8" W x 23-1/8" H	XO	Duranodic Bronze
EDW48300XDU	48" W x 30" H	20-7/8" W x 23-1/8" H	OX	Duranodic Bronze
EDW4836X0A	48" W x 36" H	20-7/8" W x 29-1/8" H	XO	Satin Anodized
EDW48360XA	48" W x 36" H	20-7/8" W x 29-1/8" H	OX	Satin Anodized
EDW4836X0DU	48" W x 36" H	20-7/8" W x 29-1/8" H	XO	Duranodic Bronze
EDW48360XDU	48" W x 36" H	20-7/8" W x 29-1/8" H	OX	Duranodic Bronze

* Determined From Clerkside X= Sliding Panel O = Fixed Panel (Specify when ordering). F.O.B. All CRL Warehouses.

CRL All Electric Fully Automatic Deluxe Sliding Service Windows



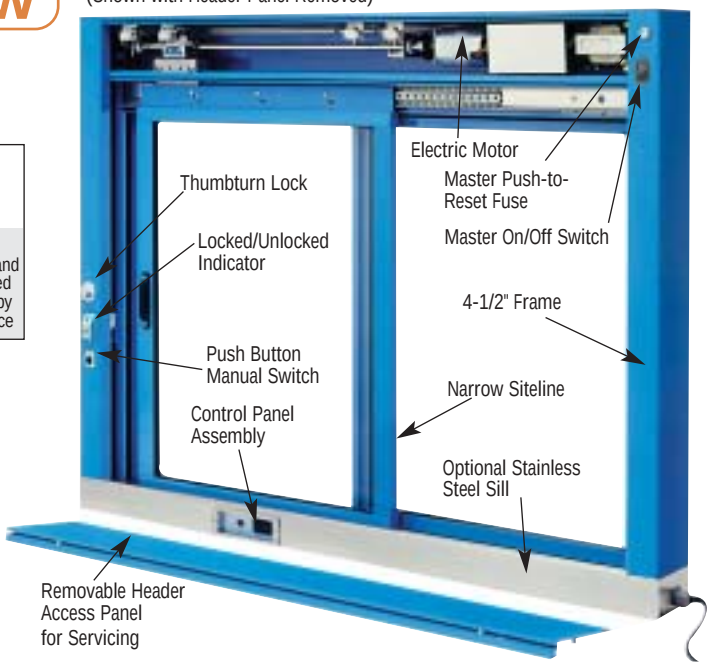
1. 24V DC Electric Motor
2. Master Push-to-Reset Fuse
3. Master Power On/Off Switch
4. Removable Header Access Panel
5. Microprocessor Logic Control Module
6. Heavy-Duty Anti-Lift Ball Bearing Carrier
7. Thumbturn Hook Throw Deadlock
8. Locked/Unlocked Indicator
9. Push Button Manual Open/Close Switch
10. Vinyl Track (No Metal-to-Metal Rubbing)
11. Poly-Pile Weatherstripping with Fin

NEW

Designed, Engineered and Manufactured in the USA by C.R. Laurence

CAT. NO. EDW1803P

(Shown with Header Panel Removed)



- **Each Unit is Customized to Your Needs**
- **Electro/Mechanical Operation (Requires 115V AC Only)**
- **Includes Three Settings: Automatic / Off / Manual**
- **Various Options Include: Aluminum Bottom Track, Stainless Steel Sill, Stainless Steel Shelf**

C.R. Laurence offers our All Electric Fully Automatic Deluxe Sliding Service Window in custom units. Manufactured with the same safety features as our stock window, each Custom Window is fabricated to fit your opening. All Custom Windows are sent out fully assembled and ready for installation. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

CUSTOM WINDOWS - (SEE PAGE F134 FOR STOCK WINDOWS)

CAT. NO.	CONFIGURATION*	SILL CONDITION	FINISH
EDW1801A	XO or OX	Aluminum Half Bottom Track	Satin Anodized
EDW1801DU	XO or OX	Aluminum Half Bottom Track	Duranodic Bronze
EDW1801P	XO or OX	Aluminum Half Bottom Track	Painted (Specify)
EDW1802A	XO or OX	Aluminum Full Bottom Track	Satin Anodized
EDW1802DU	XO or OX	Aluminum Full Bottom Track	Duranodic Bronze
EDW1802P	XO or OX	Aluminum Full Bottom Track	Painted (Specify)
EDW1803A	XO or OX	Stainless Steel Sill	Satin Anodized
EDW1803DU	XO or OX	Stainless Steel Sill	Duranodic Bronze
EDW1803P	XO or OX	Stainless Steel Sill	Painted (Specify)
EDW1804A	XO or OX	Stainless Steel Shelf	Satin Anodized
EDW1804DU	XO or OX	Stainless Steel Shelf	Duranodic Bronze
EDW1804P	XO or OX	Stainless Steel Shelf	Painted (Specify)
EDW3403A	OXXO	Stainless Steel Sill	Satin Anodized
EDW3403DU	OXXO	Stainless Steel Sill	Duranodic Bronze
EDW3403P	OXXO	Stainless Steel Sill	Painted (Specify)
EDW3404A	OXXO	Stainless Steel Shelf	Satin Anodized
EDW3404DU	OXXO	Stainless Steel Shelf	Duranodic Bronze
EDW3404P	OXXO	Stainless Steel Shelf	Painted (Specify)

* Determined From Clerkside X= Sliding Panel O= Fixed Panel (Specify when ordering). F.O.B. All CRL Warehouses.

Glazing Options: 1/4" to 1/2" Tempered, Laminated or Tinted Glass, and 1/2" Insulating Glass.

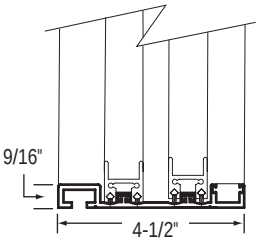
Other Options: Multiple Infrared Sensing Devices, Auto-Lock Mechanism, External Transformer.

CONTROL PANEL ASSEMBLY

EDW1801 and EDW1802 have an infrared sensing device and an automatic/off/manual switch enclosed in a stainless steel housing, mounted separately by installer. (EDW1803, EDW1804, EDW3403, EDW3404 have the controls built into the bottom of the window - (see photo at right).

CAT. NO. EDW1801

Aluminum Half Bottom Track



Window includes half bottom track. Provides clear service opening with no track under slider.

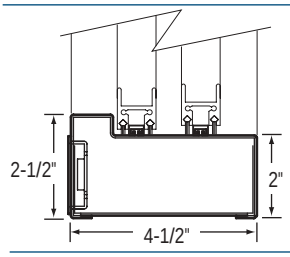
CAT. NO. EDW1802

Aluminum Full Bottom Track

Window includes full bottom track.

CAT. NO. EDW1803 / CAT. NO. EDW3403

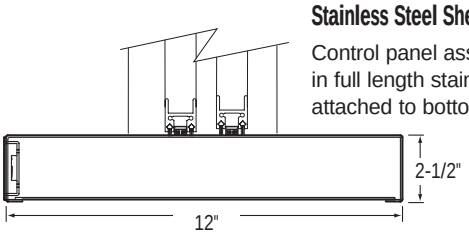
Stainless Steel Sill



Control panel assembly enclosed in full length stainless steel sill attached to bottom of window.

CAT. NO. EDW1804 / CAT. NO. EDW3404

Stainless Steel Shelf



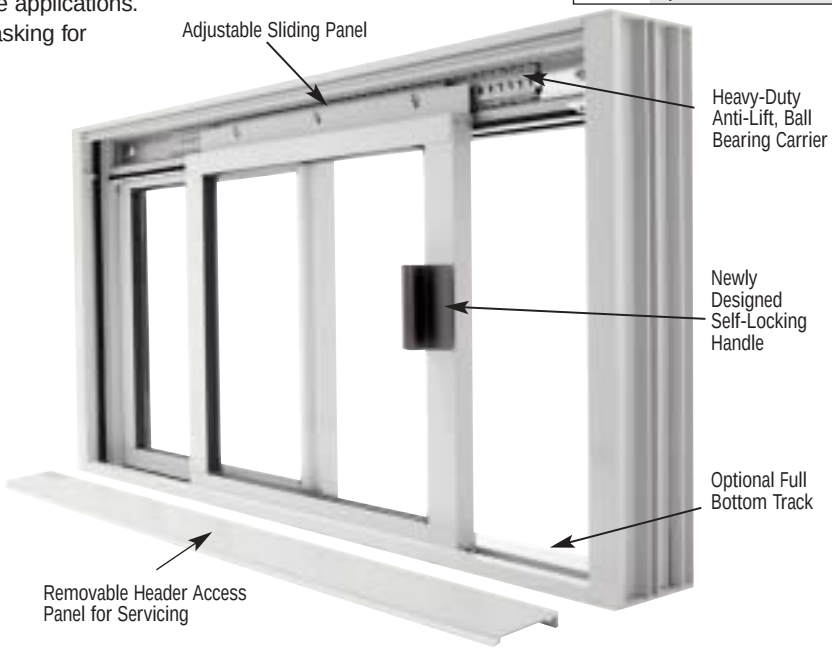
Control panel assembly enclosed in full length stainless steel shelf attached to bottom of window.

CRL DW Series Manual Deluxe Sliding Service Windows

"DW" Series Service Windows are manufactured with a variety of options and configurations to choose from. This high quality commercial grade window can be used in interior or exterior, high or low usage applications. Supply your customer with the finest window of its kind by asking for CRL's DW Series Manual Deluxe Sliding Service Window. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

Designed, Engineered and Manufactured in the USA by C.R. Laurence

- **The Perfect Drive-Up Service Window for Fast Food Restaurants, Pharmacies, Dry Cleaners and More**
- **Each Unit is Customized and Fabricated to Fit Your Specified Opening**
- **Six Choices of Sliding Configurations to Meet Most Any Design Criteria**

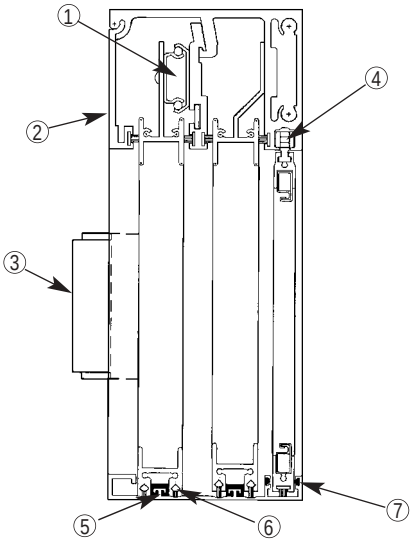


NEW FEATURES

- **Removable Header Access Panel for Easy Servicing**
- **Adjustable Sliding Panel to Compensate for Uneven Counter Surfaces**
- **Upgraded Full Length, Heavy-Duty Anti-Lift Ball Bearing Carrier**

CAT. NO.	CONFIGURATION	SCREEN	FINISH
DW1800A	OX or XO*	No	Satin Anodized
DW1800DU	OX or XO*	No	Duranodic Bronze
DW1800P	OX or XO*	No	Painted (Specify)
DW2000A	OX or XO*	Yes	Satin Anodized
DW2000DU	OX or XO*	Yes	Duranodic Bronze
DW2000P	OX or XO*	Yes	Painted (Specify)
DW2600A	OXO	No	Satin Anodized
DW2600DU	OXO	No	Duranodic Bronze
DW2600P	OXO	No	Painted (Specify)
DW2800A	OXO	Yes	Satin Anodized
DW2800DU	OXO	Yes	Duranodic Bronze
DW2800P	OXO	Yes	Painted (Specify)
DW3400A	OXXO	No	Satin Anodized
DW3400DU	OXXO	No	Duranodic Bronze
DW3400P	OXXO	No	Painted (Specify)
DW3600A	OXXO	Yes	Satin Anodized
DW3600DU	OXXO	Yes	Duranodic Bronze
DW3600P	OXXO	Yes	Painted (Specify)
DW4200A	XX	No	Satin Anodized
DW4200DU	XX	No	Duranodic Bronze
DW4200P	XX	No	Painted (Specify)
DW4400A	XX	Yes	Satin Anodized
DW4400DU	XX	Yes	Duranodic Bronze
DW4400P	XX	Yes	Painted (Specify)
DW5000A	XOX	No	Satin Anodized
DW5000DU	XOX	No	Duranodic Bronze
DW5000P	XOX	No	Painted (Specify)
DW5200A	XOX	Yes	Satin Anodized
DW5200DU	XOX	Yes	Duranodic Bronze
DW5200P	XOX	Yes	Painted (Specify)

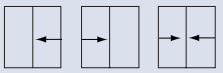
* Determined From Clerkside X= Sliding Panel O = Fixed Panel. F.O.B. All CRL Warehouses.



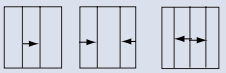
① Heavy-Duty Anti-Lift Ball Bearing Carrier
② Removable Header Access Panel
③ Self-Locking Handle
④ Screen Rides on Nylon Rollers
⑤ Vinyl Track (No Metal-to-Metal Rubbing)
⑥ Poly-Pile Weatherstripping with Fin
⑦ Vinyl Guides (No Metal-to-Metal Rubbing)

Use This Menu to Design the Deluxe Sliding Window of Your Choice

AVAILABLE CONFIGURATIONS:



❑ *ox** ❑ *xo** ❑ *xx*



❑ *oxo* ❑ *xox* ❑ *oxxo*

SCREEN:
❑ With
❑ Without

GLAZING:
Thickness: ❑ 1/4"
Type: ❑ Tempered ❑ Wire ❑ Tinted ❑ Laminated ❑ Insulating (1/2" only)

FINISH:
❑ Satin Anodized
❑ Duranodic Bronze
❑ Any of the 187 RAL Powder Paints (Specify Color)
❑ Custom Kynar Paint (Specify Color)

OPTIONS:
❑ *Keyed Lock*
❑ *Burglar Bar (Select Models)*
❑ *Full Bottom Track*
❑ *Open Counter Area*
❑ *Stainless Steel Shelf*
❑ *Deal Tray*
❑ *Formica Shelf*
❑ *Surrounding Frames to Fill Large Openings*

CRL SW Series Manual Standard Sliding Service Windows

"SW" Series Service Windows are available for interior or exterior applications, with a variety of formats and options to choose from. Uses include walk-up food service, receptionist or pharmacy windows. Vertical Windows include nylon runners over coiled tension springs to provide smooth operation. Horizontal Windows operate with top nylon guides. For larger windows, a full bottom track with rollers is recommended. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

- **For Light Duty Applications of 50 or Fewer Uses Per Day**
- **Vertical and Horizontal Formats**
- **Each Unit is Customized to Your Needs**

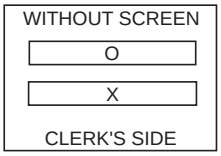
Designed, Engineered and Manufactured in the USA by C.R. Laurence

AN OVERHANG OR AWNING IS RECOMMENDED IF WINDOWS ARE USED IN AN EXTERIOR APPLICATION

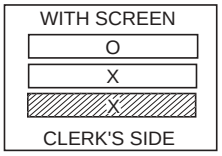
FORMAT DIAGRAMS FOR ALL SLIDING SERVICE WINDOWS

FIXED PANEL = O SLIDING PANEL = X SLIDING SCREEN PANEL = X

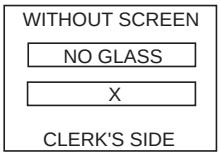
Vertical Format Series 1000 to 1400



SERIES SW1000



SERIES SW1200

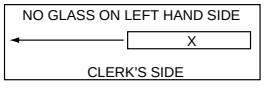


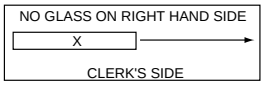
SERIES SW1400

SPECIFICATIONS:

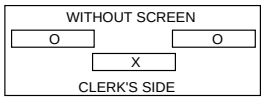
Frame Finishes: Satin Anodized, Duranodic Bronze, RAL Powder Painted or Kynar Painted
Glazing Options: 1/4" Vinyl Only, 1/4" Tempered, Laminated or Tinted Glass
Other Options: Sash Balance, Keyed Lock, Full Bottom Track, Surround Frame, Stainless Steel Shelf, Formica Shelf

Horizontal Format Series 1600 to 5600

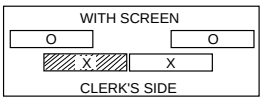




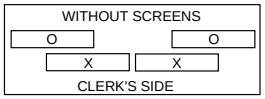
SERIES SW1600



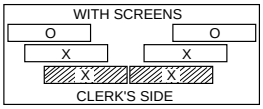
SW2600 AND SW3000



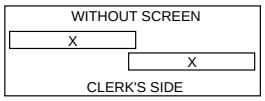
SW2800 AND SW3200



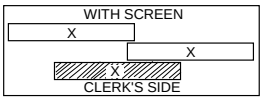
SW3400 AND SW3800



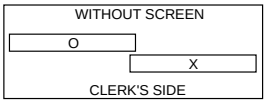
SW3600 AND SW4000



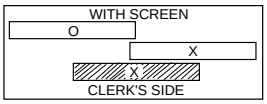
SW4200 AND SW4600



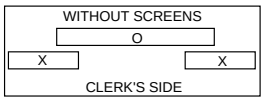
SW4400 AND SW4800



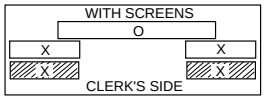
SW1800 AND SW2200



SW2000 AND SW2400



SW5000 AND SW5400



SW5200 AND SW5600

SPECIFICATIONS:

Frame Finishes: Satin Anodized, Duranodic Bronze, RAL Powder Painted or Kynar Painted
Glazing Options: 1/4" or 1/2" Vinyl Only, 1/4" Tempered, Laminated or Tinted Glass; 1/2" Insulating Glass
Other Options: Full Bottom Track, Stainless Steel Shelf, Formica Shelf. Keyed Lock, Surround Frame Also Available on Some Models.

Custom Transaction Windows Manufactured by C.R. Laurence

CMGI FIELD, MASSACHUSETTS
Home of the New England Patriots

Installation by Tower Glass Co. Inc., Woburn, MA.

STAPLES CENTER, CALIFORNIA
Home of the Los Angeles Lakers, Kings, Clippers and Sparks

Installation by Giroux Glass, Los Angeles, CA.

EDISON INTERNATIONAL FIELD, CALIFORNIA
Home of the California Angels

Installation by Mitchell Glass, Riverside, CA.

PAC BELL BALLPARK, CALIFORNIA
Home of the San Francisco Giants

Installation by Architectural Glass & Aluminum, Oakland, CA.

Sports Venues

- Adelphia Coliseum, TN
- American Airlines Arena, FL
- Arrowhead Stadium, MO
- Astro Field, TX
- Beaver Stadium, PA
- Broward County Arena, FL
- CMGI Field, MA
- Comerica Park, MI
- Crew Stadium, OH
- Dodger Stadium, CA
- Edison International Field, CA
- Fifth Third Field, OH
- Ford Field, MI
- Fresno AAA Ballpark, CA
- Giant Center, PA
- Grizzlies Ballpark, CA
- Heinz Field, PA
- Lexington Ballpark, KY
- Nationwide Arena, OH
- New Veterans Memorial Stadium, IA
- Orlando Arena, FL
- Pac Bell Ballpark, CA
- Panthers Stadium, FL
- Penn State University, PA
- PNC Ballpark, PA
- Pocono Raceway, CA
- Raley's Ballpark, CA
- RCA Dome, IN
- Reliant Stadium, TX
- Riverfront Stadium, NJ
- Rosenblatt Stadium, NE
- Russ Chandler Stadium, GA
- Ryder Center, FL
- Seattle Stadium, WA
- Sovereign Bank Arena, NJ
- Staples Center, CA
- The Crown, OH
- Verizon Arena, NH
- Washington Ballpark, PA

Major Corporations and Other Venues

- AAMCO
- American Honda Motor Co.
- Amoco
- Best Western
- Brusters
- Burger King
- Charles Schwab
- Chevron
- Circle K
- Coca-Cola
- Comcast Cablevision
- Dairy Queen
- DHL Worldwide
- Disneyland
- El Pollo Loco
- General Motors
- Hollywood Bowl
- Jack in the Box
- Kmart
- Knott's Berry Farm
- Kodak Theatre
- Laredo Entertainment Center
- Lexus Corp.
- McDonald's
- Oklahoma City Court House
- Sysco
- Taco Bell
- Wal-Mart
- Wendy's

ISO9000 CERTIFIED COMPANY

Designed, Engineered and Manufactured in the USA by C.R. Laurence

CRL Bullet Resistant Protection Level Ratings

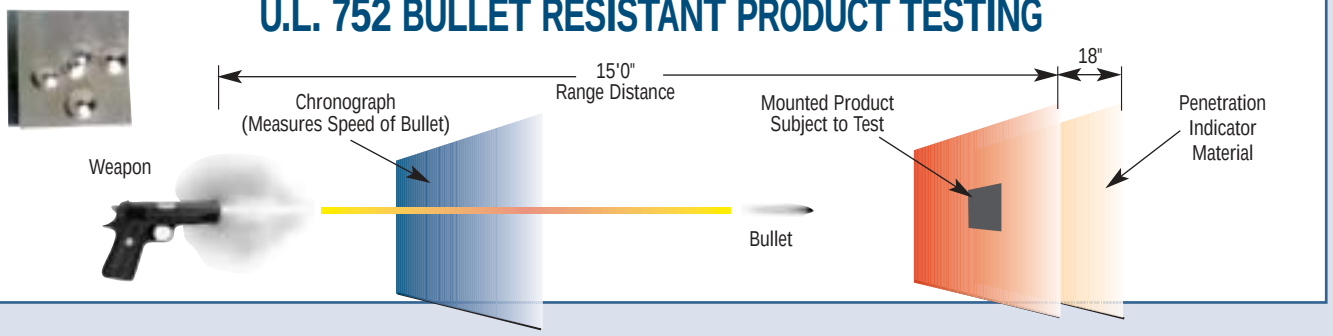
IMPORTANT NOTE!
Regarding U.L. 752 Protection Levels Assessment

Protection Levels assigned to various products listed as "Bullet Resistant" are based on testing recognized under the standards established by Underwriters' Laboratories (U.L. 752) for bullet resisting components. Protection Levels listed for options available for Exchange Windows pertain only to the option itself. A Level 1 option used with a Level 3 option will yield an overall Protection Level for the lowest rated option or component.

PROTECTION LEVEL

PROTECTION LEVEL RATING	U.L. 752 BALLISTICS DESCRIPTION	EXCHANGE WINDOW COMPONENTS			
		Glazing Materials	Speak-Thrus	Counter / Shelf	Frame
LEVEL 1 M.P.S.A.	Medium Power Small Arms (9mm)	1-5/16" Bullet Resistant Glass 1-1/4" Bullet Resistant Acrylic 3/4" Bullet Resistant Lexgard	CAD101; TTU1 with Bullet Resistant Disc. TTU3 Matches Glazing Protection Level.	All	All
LEVEL 2 H.P.S.A.	High Power Small Arms (.357 Magnum)	1-5/8" Bullet Resistant Glass	N555; N777. TTU3 Matches Glazing Protection Level.	Special Order	Special Order
LEVEL 3 S.P.S.A.	Super Power Small Arms (.44 Magnum)	1-7/8" Bullet Resistant Glass 1-1/4" Bullet Resistant Lexgard	N555C3; N777C3; N666; CLD103 TTU1 with Bullet Resistant Disc. TTU3 Matches Glazing Protection Level.	Special Order	Special Order
Not Rated as Bullet Resistant		1/4" Glass	405; 410; 425; 430; 543; 549; 834; TTU1; TTU3; SST5; SST7		

U.L. 752 BULLET RESISTANT PRODUCT TESTING



Bullet Resistant Fiberglass Panels

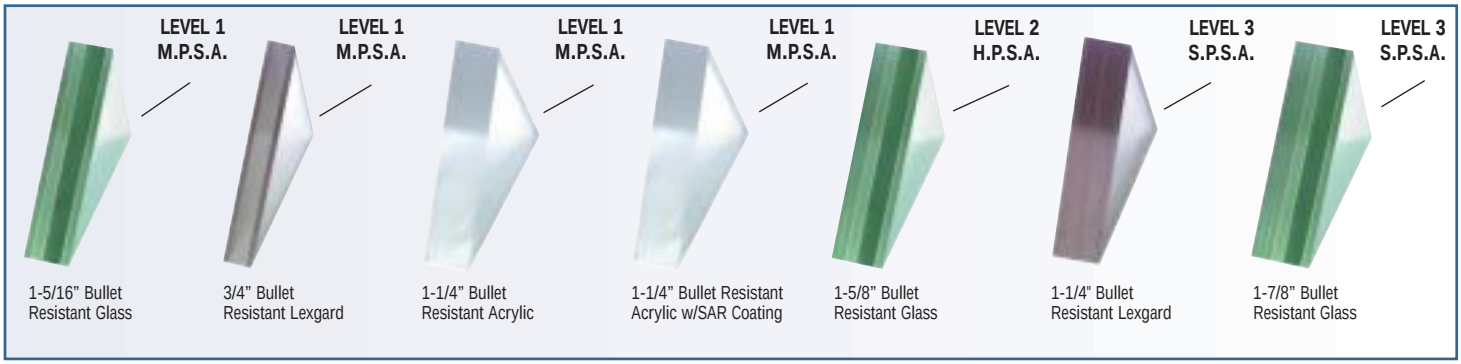
LEVEL 1 M.P.S.A.
CAT. NO. BRF100

LEVEL 2 H.P.S.A.
CAT. NO. BRF200

LEVEL 3 S.P.S.A.
CAT. NO. BRF300

SEE PAGE F145 FOR MORE INFORMATION ON BULLET RESISTANT FIBERGLASS PANELS.

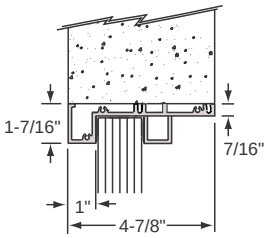
Bullet Resistant Glazing Materials



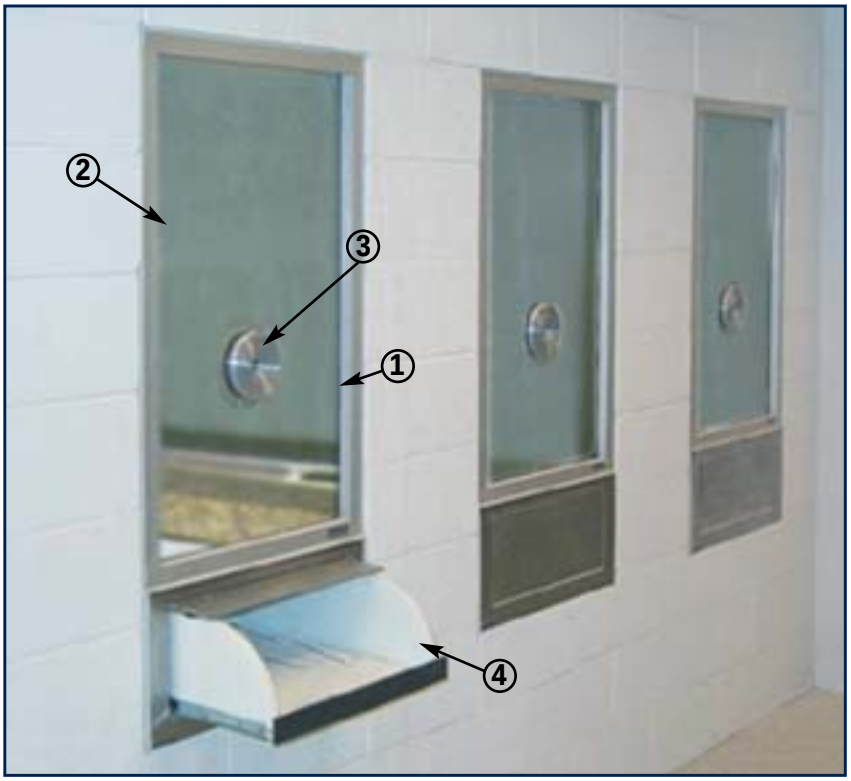
CRL Standard Inset Aluminum Exchange Windows

C.R. Laurence Transaction Windows are available in custom sizes and colors. Options include a choice of glazing thickness, speak-thrus, surround sound, deal trays, stainless steel shelves and more. Single-lite or multi-lite units are made to your specifications. Bullet resistant and non-bullet resistant models are available. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

Designed, Engineered and Manufactured in the USA by C.R. Laurence



**4-7/8" STANDARD INSET FRAME
6063 T5 ALUMINUM ALLOY**



INVESCO FIELD AT MILE HIGH, Colorado - Home of the Denver Broncos
Installation by A-1 Glass Inc., Englewood, CO

1. **4-7/8" Standard Inset Frame**
2. **Your Choice of Glazing from 1/4" Non-Bullet Resistant Glass to 1-7/8" B.R. Glass Level 3**
3. **TTU1A Electronic Communicator Option Shown. (See page F150 for Communicator Details)**
4. **TD1724 Transaction Drawer Option Shown. (See Page F152 for Drawer Details)**

CAT. NO.	DESCRIPTION	FINISH
S1V1A	Interior Glazed Vision Window with Surround Sound	Satin Anodized
S1V1DU	Interior Glazed Vision Window with Surround Sound	Duranodic Bronze
S1V1P	Interior Glazed Vision Window with Surround Sound	Painted (Specify)
S1VEA	Exterior Glazed Vision Window	Satin Anodized
S1VEDU	Exterior Glazed Vision Window	Duranodic Bronze
S1VEP	Exterior Glazed Vision Window	Painted (Specify)
S11W12A	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	Satin Anodized
S11W12DU	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	Duranodic Bronze
S11W12P	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	Painted (Specify)
S11W18A	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	Satin Anodized
S11W18DU	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	Duranodic Bronze
S11W18P	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	Painted (Specify)
S1EW12A	Exterior Glazed Exchange Window with 12" Shelf	Satin Anodized
S1EW12DU	Exterior Glazed Exchange Window with 12" Shelf	Duranodic Bronze
S1EW12P	Exterior Glazed Exchange Window with 12" Shelf	Painted (Specify)
S1EW18A	Exterior Glazed Exchange Window with 18" Shelf	Satin Anodized
S1EW18DU	Exterior Glazed Exchange Window with 18" Shelf	Duranodic Bronze
S1EW18P	Exterior Glazed Exchange Window with 18" Shelf	Painted (Specify)
S1SWA	Special Window - Multiple Lites, Dropdowns, Returns, etc...	Satin Anodized
S1SWDU	Special Window - Multiple Lites, Dropdowns, Returns, etc...	Duranodic Bronze
S1SWP	Special Window - Multiple Lites, Dropdowns, Returns, etc...	Painted (Specify)

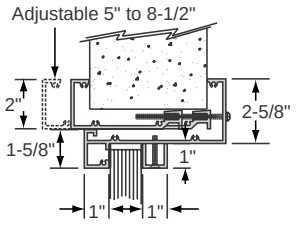
F.O.B. All CRL Warehouses.

ASK FOR YOUR FREE COPY OF OUR TH99 TRANSACTION HARDWARE CATALOG

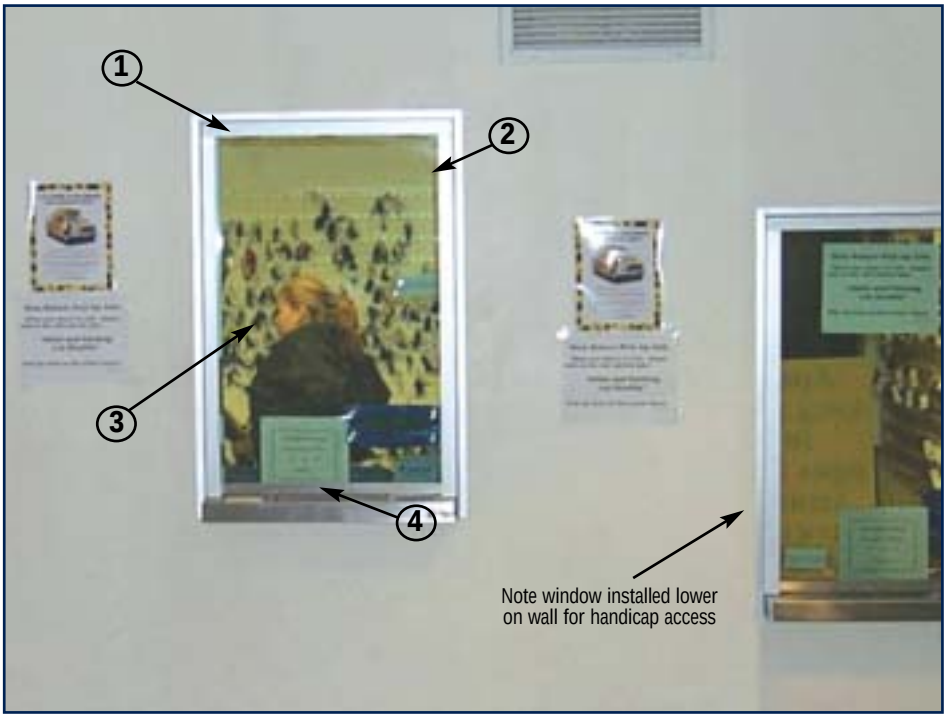
CRL Clamp On Aluminum Exchange Windows

C.R. Laurence Transaction Windows are available in custom sizes and colors. Options include a choice of glazing thickness, speak-thrus, surround sound, deal trays, stainless steel shelves and more. Single-lite or multi-lite units are made to your specifications. Bullet resistant and non-bullet resistant models are available. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

Designed, Engineered and Manufactured in the USA by C.R. Laurence



CLAMP ON FRAME
6063 T5 ALUMINUM ALLOY



THE SPOT PARKING GARAGE, Los Angeles International Airport, Los Angeles, CA.

1. **Clamp On Frame**
2. **Surround Sound Spacers for Voice Communication (Interior Use Only)**
3. **Your Choice of Glazing from 1/4" Non-Bullet Resistant Glass to 1-7/8" B.R. Glass Level 3**
4. **Stainless Steel Shelf and Deal Tray Option Shown. (See Page F151 for Shelf Details)**

CAT. NO.	DESCRIPTION	FINISH
COV1A	Interior Glazed Vision Window with Surround Sound	Satin Anodized
COV1DU	Interior Glazed Vision Window with Surround Sound	Duranodic Bronze
COV1P	Interior Glazed Vision Window with Surround Sound	Painted (Specify)
COVEA	Exterior Glazed Vision Window	Satin Anodized
COVEDU	Exterior Glazed Vision Window	Duranodic Bronze
COVEP	Exterior Glazed Vision Window	Painted (Specify)
CO1W12A	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	Satin Anodized
CO1W12DU	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	Duranodic Bronze
CO1W12P	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	Painted (Specify)
CO1W18A	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	Satin Anodized
CO1W18DU	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	Duranodic Bronze
CO1W18P	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	Painted (Specify)
COEW12A	Exterior Glazed Exchange Window with 12" Shelf	Satin Anodized
COEW12DU	Exterior Glazed Exchange Window with 12" Shelf	Duranodic Bronze
COEW12P	Exterior Glazed Exchange Window with 12" Shelf	Painted (Specify)
COEW18A	Exterior Glazed Exchange Window with 18" Shelf	Satin Anodized
COEW18DU	Exterior Glazed Exchange Window with 18" Shelf	Duranodic Bronze
COEW18P	Exterior Glazed Exchange Window with 18" Shelf	Painted (Specify)
COSWA	Special Window - Multiple Lites, Dropdowns, Returns, etc...	Satin Anodized
COSWDU	Special Window - Multiple Lites, Dropdowns, Returns, etc...	Duranodic Bronze
COSWP	Special Window - Multiple Lites, Dropdowns, Returns, etc...	Painted (Specify)

F.O.B. All CRL Warehouses.

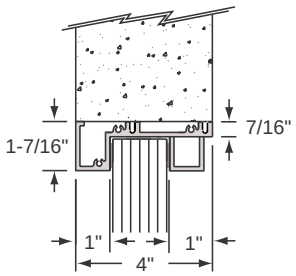
Design Assistance Turns Possibility into Reality

Our manufacturing specialists work with architects and designers to create products specifically built to meet their needs. The latest computer assisted design technology is used to join quality materials and our experience in manufacturing with your ideas to give you what you want. If our wide variety of standard size products don't fit your needs exactly, CRL can custom build to your specifications. We welcome the opportunity to serve you. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

CRL Narrow Inset Aluminum Exchange Windows

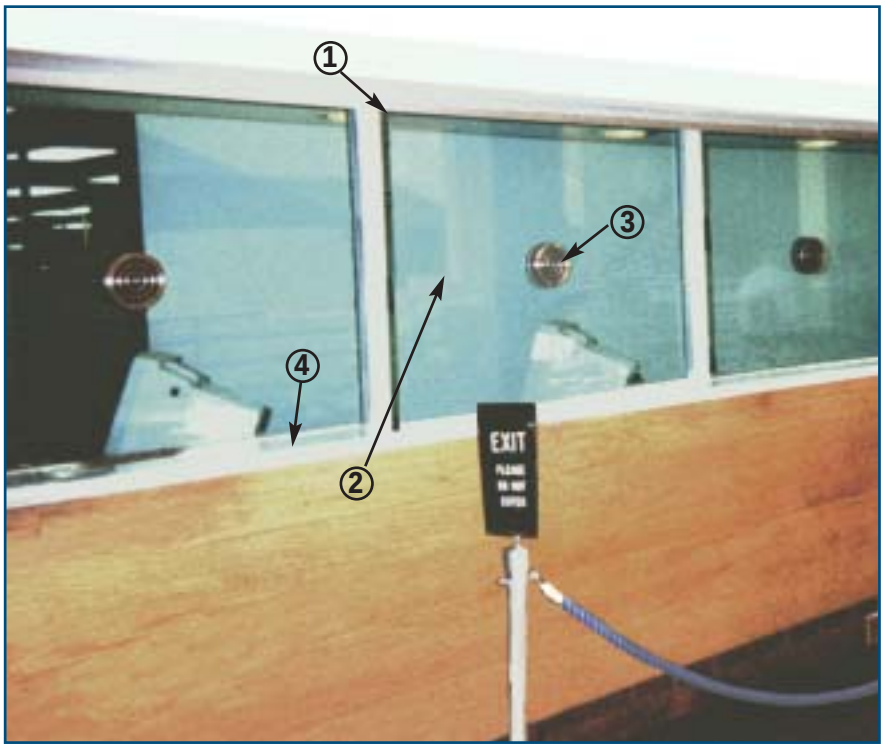
C.R. Laurence Transaction Windows are available in custom sizes and colors. Options include a choice of glazing thickness, speak-thrus, surround sound, deal trays, stainless steel shelves and more. Single-lite or multi-lite units are made to your specifications. Bullet resistant and non-bullet resistant models are available. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

Designed, Engineered and Manufactured in the USA by C.R. Laurence



NARROW INSET FRAME
6063 T5 ALUMINUM ALLOY

1. **4" Narrow Inset Frame**
2. **Your Choice of Glazing from 1/4" Non-Bullet Resistant Glass to 1-7/8" B.R. Glass Level 3**
3. **N666 Speak-thru Option Shown. (See page F149 for Speak-Thru Details)**
4. **Stainless Steel Shelf and Deal Tray Option Shown. (See Page F151 for Drawer Details)**



OKLAHOMA CITY COURTHOUSE, Installation by City Glass, Oklahoma City, OK

CAT. NO.	DESCRIPTION	FINISH
N1V1A	Interior Glazed Vision Window with Surround Sound	Satin Anodized
N1V1DU	Interior Glazed Vision Window with Surround Sound	Duranodic Bronze
N1V1P	Interior Glazed Vision Window with Surround Sound	Painted (Specify)
N1VEA	Exterior Glazed Vision Window	Satin Anodized
N1VEDU	Exterior Glazed Vision Window	Duranodic Bronze
N1VEP	Exterior Glazed Vision Window	Painted (Specify)
N11W12A	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	Satin Anodized
N11W12DU	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	Duranodic Bronze
N11W12P	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	Painted (Specify)
N11W18A	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	Satin Anodized
N11W18DU	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	Duranodic Bronze
N11W18P	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	Painted (Specify)
N1EW12A	Exterior Glazed Exchange Window with 12" Shelf	Satin Anodized
N1EW12DU	Exterior Glazed Exchange Window with 12" Shelf	Duranodic Bronze
N1EW12P	Exterior Glazed Exchange Window with 12" Shelf	Painted (Specify)
N1EW18A	Exterior Glazed Exchange Window with 18" Shelf	Satin Anodized
N1EW18DU	Exterior Glazed Exchange Window with 18" Shelf	Duranodic Bronze
N1EW18P	Exterior Glazed Exchange Window with 18" Shelf	Painted (Specify)
N1SWA	Special Window - Multiple Lites, Dropdowns, Returns, etc...	Satin Anodized
N1SWDU	Special Window - Multiple Lites, Dropdowns, Returns, etc...	Duranodic Bronze
N1SWP	Special Window - Multiple Lites, Dropdowns, Returns, etc...	Painted (Specify)

F.O.B. All CRL Warehouses.

ARCHITECTURAL HARDWARE

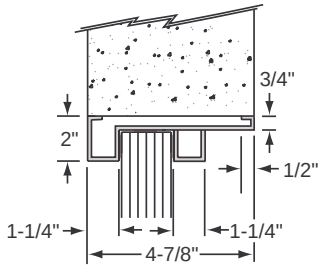
Our newest specialty catalog introduces our expanded selection of architectural metals and glass hardware for the construction of all glass entrances in commercial office buildings and storefronts. Plus there are many photos of finished projects, as well as helpful technical data to help you create your designs.

ASK FOR CATALOG NUMBER AH03

CRL Standard Inset Stainless Steel Exchange Windows

C.R. Laurence Transaction Windows are available in custom sizes and colors. Options include a choice of glazing thickness, speak-thrus, surround sound, deal trays, stainless steel shelves and more. Single-lite or multi-lite units are made to your specifications. Bullet resistant and non-bullet resistant models are available. Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

Designed, Engineered and Manufactured in the USA by C.R. Laurence



4-7/8" STAINLESS STEEL INSET FRAME TYPE 304, 11 GAUGE

1. **4-7/8" Stainless Steel Inset Frame**
2. **Your Choice of Glazing from 1/4" Non-Bullet Resistant Glass to 1-7/8" B.R. Glass Level 3**
3. **N666 Speak-thru Option Shown. (See page F149 for Speak-Thru Details)**
4. **Stainless Steel Shelf and Deal Tray Option Shown. (See Page F151 for Shelf Details)**

THE ALERUS CENTER, Installation by Northland Ltd., Fargo, ND

CAT. NO.	DESCRIPTION	FINISH
S1V1S	Interior Glazed Vision Window with Surround Sound	#4 Brushed
S1VES	Exterior Glazed Vision Window	#4 Brushed
S11W12S	Interior Glazed Exchange Window with Surround Sound and 12" Shelf	#4 Brushed
S11W18S	Interior Glazed Exchange Window with Surround Sound and 18" Shelf	#4 Brushed
S1EW12S	Exterior Glazed Exchange Window with 12" Shelf	#4 Brushed
S1EW18S	Exterior Glazed Exchange Window with 18" Shelf	#4 Brushed
S1SWS	Special Window - Multiple Lites, Dropdowns, Returns, etc...	#4 Brushed

F.O.B. All CRL Warehouses.

TECHNICAL SALES DEPARTMENT ASK FOR EXTENSION 777

Today's Transaction and Bullet Resistant Enclosures require detailed planning to ensure that everything is handled properly. Our Technical Sales Department can make recommendations on transaction hardware that will best suit the intended installations. From the beginning stages of design through final installation, we are here to assist you.

Phone Toll Free **(800) 421-6144** from anywhere in the U.S.; **(877) 421-6144** from anywhere in CANADA
Toll Free Fax **(800) 587-7501** e-mail **techsales@crlaurence.com** Website: **www.crlaurence.com**

CRL Two-Piece Snap Together Sash and U-Channel for Bullet Resistant Glazing

Typical Bullet Resistant Barrier with Snap Together Sash on Bottom

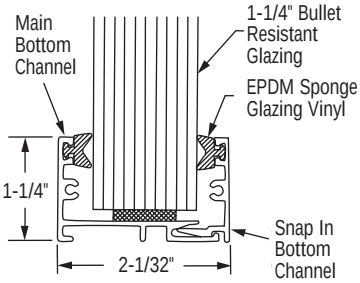
Typical Bullet Resistant Vision Window with Sash Surround

CRL Bullet Resistant Doors

NEW

Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**

CRL Two-Piece Snap Together Sash



Two-Piece Sash

End Cap

- **For 1-3/16" to 1-5/16" (30 to 33 mm) Glazing**
- **Satin Anodized and Duranodic Bronze Finishes**
- **Includes EPDM Glazing Gaskets**
- **Easy to Install**

This Two-Piece Snap Together Sash is made to secure bullet resistant acrylic, polycarbonate or glass into an opening. It can be used as a perimeter frame to mount glazing directly to a wall, ceiling or counter surface. Typical uses include counter or jamb mounted Bullet Resistant Protective Barriers or Full Framed Vision Windows. The Snap Together Sash is not rated bullet resistant. Protection is achieved by the glazing material itself. Optional End Caps conceal cut ends.

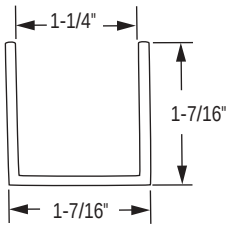
CAT. NO.	DESCRIPTION	FINISH	LENGTH
PB014A	Two-Piece Sash	Satin Anodized	12 Ft.*
PB014DU	Two-Piece Sash	Duranodic Bronze	12 Ft.*
PB015A	End Cap w/Screws	Satin Anodized	–
PB015DU	End Cap w/Screws	Duranodic Bronze	–

*24 foot lengths can be special ordered for Will Call only at CRL Warehouses.
Stock lengths of Two-Piece Sash and U-Channel can be combined for quantity pricing.

CRL 1-1/4" Aluminum U-Channel

- **Used to Secure or Conceal the Edge of Glazing Up to 1-1/4" (31 mm) Thick**
- **Satin Anodized and Duranodic Bronze Finish Extruded Aluminum**

Shown in Typical Installation Above Cash Tray



Satin Anodized

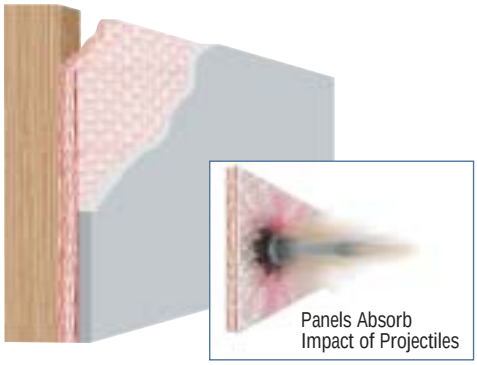
Duranodic Bronze

This 1-1/4" Aluminum U-Channel is made to secure or conceal the edge of bullet resistant acrylic or polycarbonate. Typical uses include mounting glazing panels above Cash Trays and Transaction Drawers, or securing the base of buttresses and baffles to the counter surface when fabricating Bullet Resistant Barrier Systems.

CAT. NO.	DESCRIPTION	FINISH	LENGTH
SV643A	1-1/4" U-Channel	Satin Anodized	12 Ft.
SV643DU	1-1/4" U-Channel	Duranodic Bronze	12 Ft.

Stock lengths of Two-Piece Sash and U-Channel can be combined for quantity pricing.

CRL Bullet Resistant Fiberglass Panels



- **Protective Panels for Lining Doors and Walls Surrounding Security Enclosures**
- **Available to Protection Level 3 (.44 Magnum S.P.S.A.)**
- **Typical Applications: Bank Teller Counters, Ticket Booths, Judge's Benches, Security Enclosures and More**

SPECIFICATIONS:

Material: Fiberglass - Reinforced Structural Polyester Laminate with Fiberglass Scrim

Finish: Panels may be painted, covered with vinyl, or clad with plastic laminate if desired

Cutting: Can be accomplished with a Circular Saw, Table Saw, Panel Saw or Saber Saw. We recommend the use of a carbide "grit edge" blade for ease of cutting.

Drilling: High Speed Steel Drill Bits at low speed

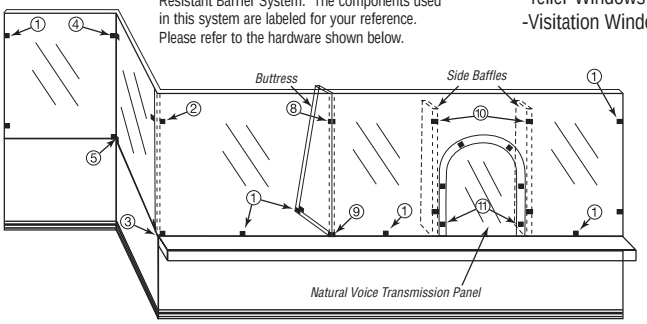
CAT. NO.	PROTECTION LEVEL*	PANEL THICKNESS	PANEL SIZE	PANEL WEIGHT	IMPACT VELOCITIES*
BRF100	1 M.P.S.A.	1/4"	96" x 48"	84 Lbs.	1250 Ft./Sec.
BRF200	2 H.P.S.A.	3/8"	96" x 48"	110 Lbs.	1395 Ft./Sec.
BRF300	3 S.P.S.A.	7/16"	96" x 48"	138 Lbs.	1470 Ft./Sec.

* Levels per U.L.752 Ballistic Performance Requirements Test specifications

CRL Transparent Bullet Resistant Barrier System

Transparent Bullet Resistant Barrier Systems provide deterrence to would-be robbers. Ten different clips are available to accommodate most installations. Our optional Two-Piece Snap Together Sash (see opposite page) is available to secure the base of your barrier to the counter. Our in-house diamond edger can finish Acrylic/Lexgard to provide flat edges with a beautiful water clear finish. Complete systems are available, or you can purchase components separately. Custom clamps and special colors are available on special order.

Shown are examples of a C. R. Laurence Bullet Resistant Barrier System. The components used in this system are labeled for your reference. Please refer to the hardware shown below.



TYPICAL INSTALLATIONS

-Banks
-Casino Money Cages
-Check Cashing Offices
-Convenience Stores
-Court Houses
-Gas Stations
-Liquor Stores
-Motel Check-in Counters
-Pharmacy Counters
-Police Stations
-Teller Windows
-Visitation Windows

King Street Center, Seattle, WA.
Installation by: Hillstrom Cabinets, South Prairie, WA.

ACRYLIC/LEXGARD SHEETS

CAT. NO.	MATERIAL	PROTECTION LEVEL	SHEET (MAXIMUM) SIZE 48" X 96"	THICKNESS
ACRYLIC1	Acrylic	1	Specify Size	1-1/4"
LEXGARD3	Lexgard	3	Specify Size	1-1/4"

F.O.B. All CRL Warehouses.

Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

BARRIER CLAMPS, SPACERS AND CHANNELS

SPECIFICATIONS:

Material:
Stainless Steel

Finishes:
Brushed Stainless, Polished Stainless, Satin Chrome

Glazing:
Use with Level 1 1-1/4" Acrylic or Level 3 1-1/4" Lexgard

Includes:
Mounting Screws and Template for Hole Locations

U-Clamp
PB001
①

90° Top or Mid-Mount Outside Clamp
PB002
②

90° Bottom Mount Outside Clamp
PB003
③

90° Top or Mid-Mount Inside Clamp
PB004
④

90° Bottom Mount Inside Clamp
PB005
⑤

135° Top or Mid-Mount Outside Clamp
PB006
⑥

135° Bottom Mount Outside Clamp
PB007
⑦

Top or Mid-Mount T-Clamp
PB008
⑧

Bottom Mount T-Clamp
PB009
⑨

Top or Mid-Mount Buttress or Baffle Clamp
PB010
⑩

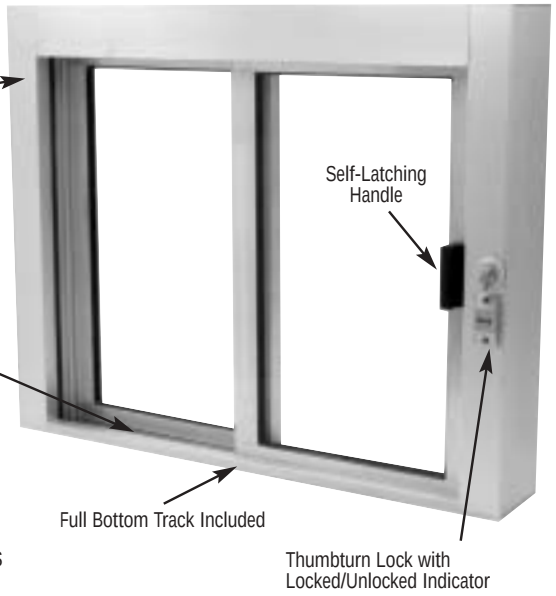
Surround Sound Spacers
CDS3S
PB011
⑪

Two-Piece Snap Together Sash
PB014

1-1/4" Aluminum U-Channel
SV643

CRL Bullet Resistant Sliding Windows

Today's market is looking for nightime protection but daytime "business as usual" to conduct transactions. To meet these needs we are engineering Bullet Resistant Sliding Windows. These windows can be opened during daylite business hours, and closed at night when most crimes are committed. Bullet resistant protection is provided in the closed position only.



Exterior Windows

- Each Window is Custom Fabricated to Fit the Opening
- Fully Weatherized for Exterior Use
- Thumbturn Lock with Locked/Unlocked Indicator Included
- Level 1 Bullet Resistance

CAT. NO.	PROTECTION LEVEL	FINISH
SBRWEXA1	1	Satin Anodized
SBRWEXDU1	1	Duranodic Bronze
SBRWEXP1	1	Painted

F.O.B. All CRL Warehouses.

SPECIFICATIONS:

Finishes: Satin Anodized, Duranodic Bronze, 187 RAL Powder Paint Colors or Custom Kynar Painted Colors

Glazing: 3/4" Lexgard Level 1

Options: Stainless Steel Counter, Deal Tray, Burglar Bar

Configurations*: OX or XO

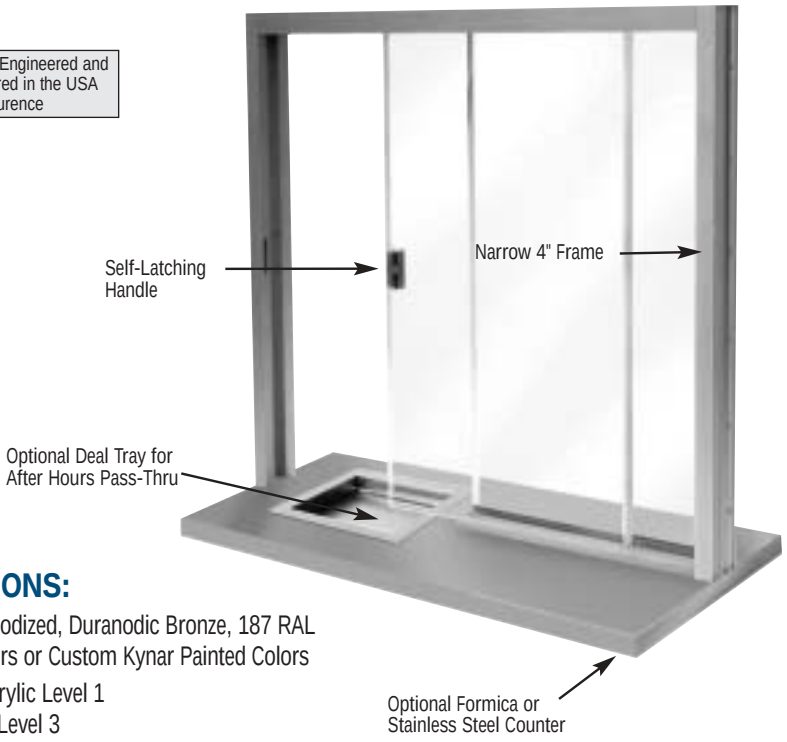
*Determined from Clerkside
X = Sliding Panel; O = Fixed Panel

Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**

Interior Windows

- Each Window is Custom Fabricated to Fit the Opening
- Features Include Easy Rolling Overhead Ball Bearing Carrier and Self-Latching Handle
- Can Be Used "Business as Usual" During Daytime, Closed at Night for Protection
- Available in Level 1 or Level 3 Bullet Resistance
- Interior Use Only

Designed, Engineered and Manufactured in the USA by C.R. Laurence



CAT. NO.	PROTECTION LEVEL	FINISH
SBRWA1	1	Satin Anodized
SBRWDU1	1	Duranodic Bronze
SBRWP1	1	Painted
SBRWA3	3	Satin Anodized
SBRWDU3	3	Duranodic Bronze
SBRWP3	3	Painted

F.O.B. All CRL Warehouses.

SPECIFICATIONS:

Finishes: Satin Anodized, Duranodic Bronze, 187 RAL Powder Paint Colors or Custom Kynar Painted Colors

Glazing: 1-1/4" Acrylic Level 1 or 1-1/4" Lexgard Level 3

Options: Formica or Stainless Steel Counter, Deal Tray, Speak-Thru, Keyed Lock, Burglar Bar

Configurations*: OX, XO, OXO

*Determined from Clerkside
X = Sliding Panel; O = Fixed Panel

CRL Ticket Windows

• Fully Assembled, Ready to Install

Our Standard Ticket Window comes with an aluminum perimeter frame, 1/4" clear tempered glass, 834A Speak-Thru, 720A Half Round Ticket Window, and an 18" Stainless Steel Shelf. Overall size including the Stainless Steel Shelf is 24" wide by 38" high. Custom units are available.

CAT. NO.	TYPE	WIDTH	DEPTH	HEIGHT
SCW102N	Standard Unit	24"	18"	38"
SCW102C	Custom Unit	Specify	Specify	Specify

F.O.B. All CRL Warehouses.

CRL Cashier Windows

• Standard Units Ship from Stock

Our Standard Cashier Window includes an aluminum perimeter frame, 1/4" clear tempered glass, an 834A Speak-Thru, and an 18" Stainless Steel Shelf with a built-in Coin and Cash Tray. Overall size including the Stainless Steel Shelf is 30" wide by 32" high. Custom units are available.

CAT. NO.	TYPE	WIDTH	DEPTH	HEIGHT
SCW103N	Standard Unit	30"	18"	32"
SCW103C	Custom Unit	Specify	Specify	Specify

F.O.B. All CRL Warehouses.

CRL Rotating Drum Service Windows

• Satin Anodized or Duranodic Bronze Finishes

Our Rotating Drum Service Window is used to serve packaged goods from an enclosed area. Satin anodized or duranodic bronze aluminum frame contains a fixed 1/4" clear tempered glass panel and an 834A Speak-Thru in the upper portion. Lower portion contains rotating drum that will provide pass-through security. Built-in latch prevents unwanted drum rotation.

Designed, Engineered and Manufactured in the USA by C.R. Laurence

CAT. NO.	FINISH	WIDTH	DEPTH	HEIGHT
RS200A	Satin Anodized	15-5/8"	13-3/4"	36"
RS200DRUM	Satin Anodized Framed Rotating Drum Only	15-5/8"	13-3/4"	18-1/4"
RS201DU	Duranodic Bronze	15-5/8"	13-3/4"	36"
RS201DRUM	Duranodic Bronze Framed Rotating Drum Only	15-5/8"	13-3/4"	18-1/4"

F.O.B. All CRL Warehouses.

CRL Night Service Windows

• Glazed with 1-1/4" Bullet Resistant Acrylic

Our Night Service Window is frequently used for motel registration or 24 hour service station windows. The 16 gauge stainless steel housing is glazed with 1-1/4" Bullet Resistant Acrylic. Window includes an 18" Stainless Steel Shelf and a Non-Ricochet Bullet Resistant Tray for passing cash, credit cards, receipts, keys, etc. Custom size units are available.

CAT. NO.	WIDTH	DEPTH	HEIGHT
SW101N	18-3/16"	18"	21-5/8"

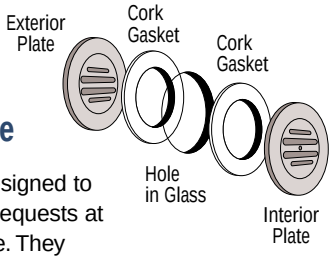
F.O.B. All CRL Warehouses.

See the latest in top quality Transaction Hardware and bullet resistant exchange products, beautifully illustrated with specifications and installation photographs.

ASK FOR YOUR FREE COPY OF OUR TH99 TRANSACTION HARDWARE CATALOG

CRL No-Draft Speak-Thrus

- Easy to Install
- Eliminates Drafts
- Theft-Proof Locking Device



Typical Installation in Ticket Window (Not Included)

549 Series
Chrome Plated Brass

834 Series
Aluminum in 4 Finishes

Our No-Draft Speak-Thrus are designed to allow audible transmission of voice requests at ticket windows, box offices and more. They prevent tampering from the outside, and stop drafts to the interior. The 549 Series is made of brass, the 834 Series is made of aluminum. Each unit is individually boxed with gaskets and mounting screws for installation on glass up to 1/4" thick. For glass up to 3-3/4" thick you can use the optional 4" screws Cat. No. 8324. No-Draft Speak-Thrus require a minimum hole diameter of 2-1/4", and will cover holes up to 4-1/4". Recommended hole diameter is 3-1/2". Instructions included.

SPECIFICATIONS:

Materials: 549-Brass; 834-Aluminum

Finishes: 549-Chrome Plating; 834-Bright Anodized, Bright Gold Anodized, Duranodic Bronze, Satin Anodized.

Instructions and Templates Included

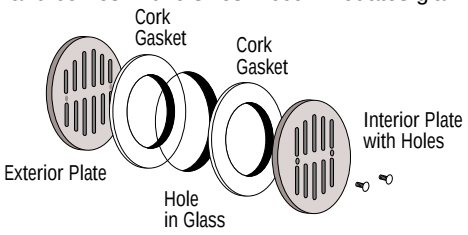
CAT. NO.	DESCRIPTION
549	Chrome Plated Brass
834A	Satin Anodized Aluminum
834BA	Bright Anodized Aluminum
834BGA	Bright Gold Anodized Aluminum
834DU	Duranodic Bronze Aluminum
8324	8-32 x 4" Screws (10 Pack)

Finishes can be combined for quantity pricing.

CRL Stainless Steel Speak-Thrus

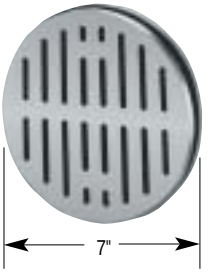
- Provides Natural Voice Transmission
- Designed to Eliminate Drafts

The Stainless Steel Speak-Thru provides natural voice transmission. Offset slots in front and rear prevent tampering from the outside, and stops drafts to the interior. Speak-Thru has a brushed stainless finish, and comes in two sizes. Accommodates glazing from 1/4" to 1-1/4" thick.



Typical Installation in Cashier Window (Not Included)

Requires 3" to 4-1/2" Hole



Requires 4-1/2" to 6" Hole

SPECIFICATIONS:

Material: Stainless Steel

Finish: Brushed Stainless Steel.

Instructions and Templates Included

CAT. NO.	SIZE	FINISH
SST7	7"	Brushed Stainless
SST5	5"	Brushed Stainless

Speak-Thrus can be combined for quantity pricing.

CRL Covered Speak-Thrus

Covered Speak-Thrus are available with two styles of covers: all metal, or metal outer ring with lucite vision port. Both styles are screened to protect against insects. These heavy-duty units are available in satin anodized or duranodic bronze finishes. Both sizes are made to be glazed in 1/4" glass. The 4" model requires a 3-1/2" diameter hole. The 6" model requires a 5-1/2" diameter hole.

CAT. NO.	DESCRIPTION	FINISH
405A	4" Metal Cover Speak-Thru	Satin Anodized
405DU	4" Metal Cover Speak-Thru	Duranodic Bronze
410A	4" Lucite Cover Speak-Thru	Satin Anodized
410DU	4" Lucite Cover Speak-Thru	Duranodic Bronze
425A	6" Metal Cover Speak-Thru	Satin Anodized
425DU	6" Metal Cover Speak-Thru	Duranodic Bronze
430A	6" Lucite Cover Speak-Thru	Satin Anodized
430DU	6" Lucite Cover Speak-Thru	Duranodic Bronze
TAR12A	4" x 1/2" Adapter Ring	Satin Anodized
TAR12DU	4" x 1/2" Adapter Ring	Duranodic Bronze
TAR134A	4" x 1-3/4" Adapter Ring	Satin Anodized
TAR134DU	4" x 1-3/4" Adapter Ring	Duranodic Bronze

Speak-Thrus can be combined for quantity pricing.

SPECIFICATIONS:

Materials: Aluminum, Lucite, Aluminum Screen

Finishes: Satin Anodized, Duranodic Bronze.

Instructions and Templates Included

- Choice of Lucite or Metal Cover
- 4" and 6" Models Available in Two Finishes

6" with Metal Cover

4" with Lucite Cover

OPTIONAL ADAPTER RINGS

Thickness Adapter Rings are available for the 4" Speak-Thru. One for 1/2" glass; one for 1-3/4" doors.

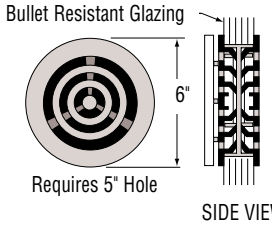
TAR12
for 1/2" Glass

TAR134
for 1-3/4" Doors

CRL 6" Round Bullet Resistant Speak-Thrus

- **Made of Heavy Stainless Steel with Brushed Finish**
- **Louvers Spaced to Deflect Projectiles**
- **Level 3 Bullet Resistance (.44 Magnum)**

This 6" diameter Speak-Thru is designed for use with bullet resistant glass, acrylic or polycarbonate. Made of heavy stainless steel, the concentric circular louvers are spaced to deflect projectiles entering the cavity between the interior and exterior surfaces without interfering with conversation. Accommodates glazing thicknesses from 1-3/16" to 1-7/8". Optional Spacer Rings are available for use with glazing materials less than 1-3/16" thick.



CAT. NO.	DESCRIPTION	PROTECTION
N666	6" Round Speak-Thru	Level 3
SR666212	Spacer Ring for 1/4" to 3/8"	2 Rings
SR666238	Spacer Ring for 7/16" to 5/8"	2 Rings
SR666214	Spacer Ring for 11/16" to 7/8"	2 Rings
SR666114	Spacer Ring for 15/16" to 1-1/8"	1 Rings

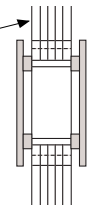
SPECIFICATIONS:

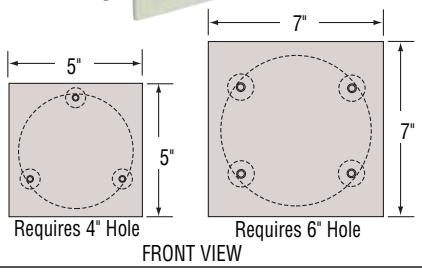
Material: Stainless Steel
Finish: Brushed Stainless Steel
Bullet Resistance: Level 3
Instructions Included

CRL 5" and 7" Square Bullet Resistant Speak-Thrus

- **Two Levels of Bullet Resistance Offered: Level 2 and Level 3**
- **Air Space Allows Natural Voice Transmission**
- **Polished Stainless Steel Finish**

Square Bullet Resistant Speak-Thrus in 5" and 7" sizes are available for Level 2 (.357 Magnum) and Level 3 (.44 Magnum) rated protection. Air space between the glass and the unit itself allows for clear voice transmission. Spacing blocks secure the glass through the hole to the front and back plates. Made of heavy stainless steel, Square Bullet Resistant Speak-Thrus will accommodate 3/4" through 1-1/2" bullet resistant glass, acrylic or polycarbonate. Units for other thicknesses can be supplied upon request.





CAT. NO.	DESCRIPTION	PROTECTION
N555	5" Square Speak-Thru	Level 2
N555C3	5" Square Speak-Thru	Level 3
N777	7" Square Speak-Thru	Level 2
N777C3	7" Square Speak-Thru	Level 3

Models can be combined for quantity pricing.

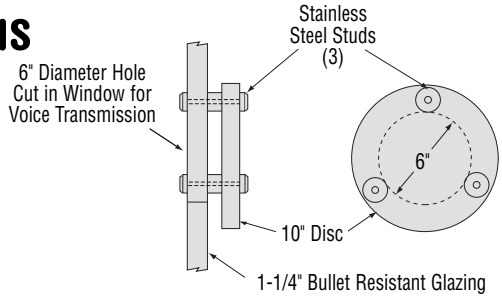
SPECIFICATIONS:

Material: Stainless Steel
Finish: Polished Stainless Steel
Bullet Resistance: Levels 2 and 3
Instructions Included

CRL Clear Vision Bullet Resistant Speak-Thrus

- **Disc Overlap Prevents Direct Entry of Projectiles While Allowing Natural Voice Transmission**
- **Virtually Unobstructed Vision**

Clear Vision Bullet Resistant Speak-Thrus not only offer two levels of protection, but provide a clear field of vision. The unit is easy to install. Just drill a 6" diameter hole in the bullet resistant window, surrounded by three 5⁄16" holes spaced at 120° on an 7-1/2" diameter (template included). Then secure the 10" Acrylic or Lexgard Disc using the Stainless Steel Studs provided with the unit. The space between the window and disc allows for clear voice transmission. The 10" disc provides enough overlap to prevent direct entry of projectiles. Stud Sets are also available for customers preferring to fabricate their own discs. Intended for interior use only. Designed for use with 1-1/4" Acrylic or 1-1/4" Lexgard only.



CAT. NO.	DESCRIPTION	PROTECTION
CAD101	10" x 1¼" Clear Acrylic Disc with Studs	Level 1
CLD103	10" x 1¼" Clear Lexgard Disc with Studs	Level 3

Models can be combined for quantity pricing.

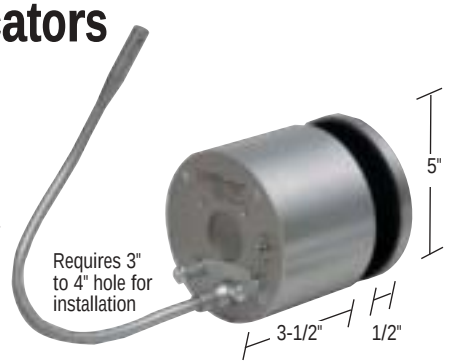
SPECIFICATIONS:

Materials: Clear Acrylic; Clear Lexgard; Stainless Steel
Finish: Brushed Stainless Steel (Studs)
Glazing: 1-1/4" Level 1 Acrylic; 1-1/4" Level 3 Lexgard
Instructions and Templates Included

CRL Thru-Glass Two Way Electronic Communicators

- **Breaks the Acoustical Barrier with Clear, Reliable, Hands-Free Two-Way Conversation**
- **Standard Unit Fits 1/4" to 1" (6 to 25mm) Glass**
- **Level 1 and Level 3 Bullet Resistant Models Available**

Optional Hands-Free Headset
CAT. NO. TTU1HS



SPECIFICATIONS:

Finish: Satin Aluminum; Instructions Included

The Thru-Glass Two Way Electronic Communicator is a self-contained, easily installed device that allows clear, intelligible two-way conversation in locations where security must be maintained. The unit is automatically activated when the clerk speaks for hands-free operation. Incorporating the finest electrical design, you can select either the 115V AC model, or the 12V DC battery powered model. Units are available in Standard or Deluxe Models with satin anodized finish. The Standard Model has a fixed gooseneck microphone. The Deluxe Model has a removable gooseneck microphone. Both models include receptacle for use with the optional TTU1HS Hands-Free Headset. All units are supplied complete with mounting hardware, instructions and power supply. An Extension Kit for glass thicker than 1" may be ordered separately.

Activates whenever clerk speaks into microphone, for hands-free operation.

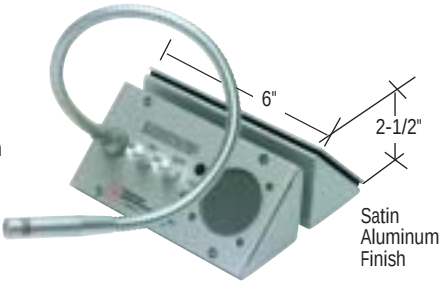
CAT. NO.	DESCRIPTION	PROTECTION LEVEL
TTU1A	115V AC Standard Model	None
TTU1AJ	115V AC Deluxe Model	None
TTU1D	12V DC Standard Model	None
TTU1DJ	12V DC Deluxe Model	None
TTU1AB1	115V AC Standard B.R. Model	1
TTU1AJB1	115V AC Deluxe B.R. Model	1
TTU1DB1	12V DC Standard B.R. Model	1
TTU1DJB1	12V DC Deluxe B.R. Model	1
TTU1AB3	115V AC Standard B.R. Model	3
TTU1AJB3	115V AC Deluxe B.R. Model	3
TTU1DB3	12V DC Standard B.R. Model	3
TTU1DJB3	12V DC Deluxe B.R. Model	3
TTU1HS	Optional Hands-Free Headset	–
TTU1X	Thick Glass Extension Kit	–

Models can be combined for quantity pricing.

CRL Counter-Top Two Way Electronic Communicators

- **Provides Clear Communication Through an Isolation Barrier**
- **Ruggedly Constructed and Tamper-Resistant**

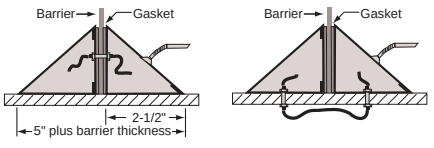
Contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**



Typical Installation

The Counter-Top Two Way Electronic Communicator is the unit of choice when it is impractical to cut a hole through a glass isolation barrier. The unit is automatically activated when the clerk speaks. Talk and listen volumes are adjustable by the clerk. Units are available in Standard or Deluxe Models with satin anodized finish. The Standard Model has a fixed gooseneck microphone. The Deluxe Model has a removable gooseneck microphone. Both models include receptacle for use with the optional TTU1HS Hands-Free Headset. All exposed hardware is tamper-resistant. Unit operates on 115V AC current. Instructions included.

TWO MOUNTING OPTIONS



Requires Hole in Barrier

No Hole Required in Barrier

CAT. NO.	DESCRIPTION
TTU3	115V AC Standard Model
TTU3J	115V AC Deluxe Model
TTU1HS	Optional Hands-Free Headset for TTU3J

Note: 12V DC not available in Counter-Top Models.
Models can be combined for quantity pricing.

CRL Mini Jack Headset for Electronic Communicators

The Mini Jack Headset is an economical way to adapt our Thru-Glass Two Way Electronic Communicators for hands-free use. It allows the use of the microphone without unplugging the headset. The Mini Jack Headset is especially useful for clerks typing into keyboards while conducting customer transactions.

- **Fits TTU1 Thru-Glass and TTU3 Counter-Top Electronic Communicators**

CAT. NO.	DESCRIPTION
TTUMJS	Mini Jack Headset for TTU1 and TTU3

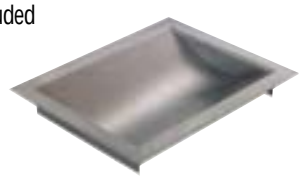
CRL Standard Drop In Deal Tray

- Flush Drop In Design
- Ideal for Cash and Coins

SPECIFICATIONS

Material: Stainless Steel

Finishes: Polished and Brushed
Instructions Included



Standard Drop In Deal Trays are made in your choice of a bright polished or brushed finish. The dish section measures 1-1/2" deep with a 1" wide perimeter lip. This tray an excellent choice for ticket booths, service stations and other locations where smaller items are passed. An overhang or awning is recommended for exterior applications.

POLISHED STAINLESS CAT. NO.	BRUSHED STAINLESS CAT. NO.	WIDTH	DEPTH	HEIGHT
CTD08	CTDB08	8"	10"	1-9/16"
CTD12	CTDB12	12"	10"	1-9/16"
CTD16	CTDB16	16"	10"	1-9/16"

All Trays can be combined for quantity pricing.

CRL Non-Ricochet Bullet Resistant Drop In Deal Tray

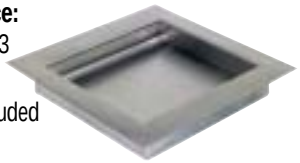
- Inner Curved Design Provides Effective Bullet Resistance
- Level 1 or Level 3 Protection

SPECIFICATIONS

Material: Stainless Steel

Bullet Resistance:
Level 1 or Level 3

Finish: Brushed
Instructions Included



Non-Ricochet Bullet Resistant Drop In Deal Trays have a specially shaped inner curved design. The shape assists in retaining the bullet inside the tray or directing it back towards the glass above. These trays are available as Level 1 Ballistic M.P.S.A. or Level 3 Ballistic S.P.S.A. An overhang or awning is recommended for exterior applications.

CAT. NO.	PROTECTION	WIDTH	DEPTH	HEIGHT
BRT112	Level 1	12"	11"	1-3/4"
BRT116	Level 1	16"	11"	1-3/4"
BRT312	Level 3	12"	12"	2"
BRT316	Level 3	16"	12"	2"

All Trays can be combined for quantity pricing.

CRL Deluxe Deal Tray

- Deep Dish Section for Passing Larger Items
- Flush Drop In Design

SPECIFICATIONS

Material: Stainless Steel

Finish: Brushed
Instructions Included

The Deluxe Drop In Deal Tray is formed from heavy gauge stainless steel with a brushed finish. Front and rear lips project 2-7/8" from the dish portion to provide protection for the counter top. The 2-3/8" deep dish section allows larger items to be passed. An overhang or awning is recommended for exterior applications.

CAT. NO.	WIDTH	DEPTH	HEIGHT
T12SS	12"	14-1/8"	2-3/8"
T18SS	18"	14-1/8"	2-3/8"
T24SS	24"	14-1/8"	2-3/8"

All Trays can be combined for quantity pricing.

CRL Stainless Steel Shelf with Deal Tray

Our Stainless Steel Shelf with Deal Tray is available in six widths. Deal Tray measures 11" wide by 8-1⁄4" deep by 1-9/16" high. The 18" Shelf provides an extra writing surface on the customer's side of the Deal Tray. An awning or overhang is recommended for exterior applications.

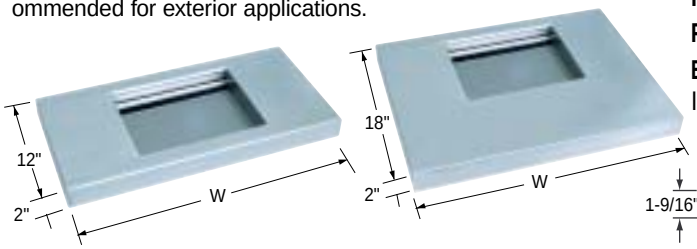
- 12" or 18" Shelves in Widths from 24" to 72"
- Non-Ricochet Deal Tray Provides Level 1 Protection

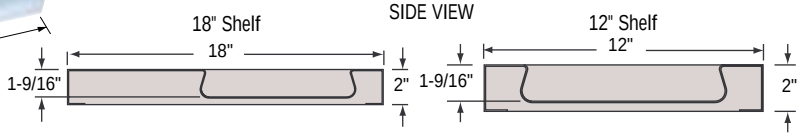
SPECIFICATIONS

Material: Stainless Steel

Finish: Brushed Stainless Steel

Bullet Resistance: Level 1
Instructions Included





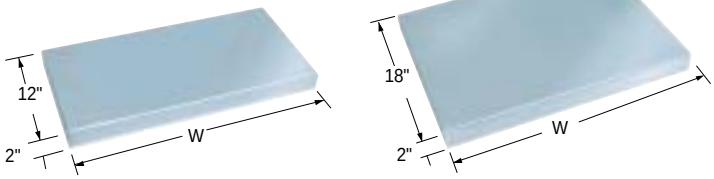
CAT. NO.	WIDTH	DEPTH	HEIGHT
SSDT2412	24"	12"	2"
SSDT3012	30"	12"	2"
SSDT3612	36"	12"	2"
SSDT4812	48"	12"	2"
SSDT6012	60"	12"	2"
SSDT7212	72"	12"	2"
SSDT2418	24"	18"	2"
SSDT3018	30"	18"	2"
SSDT3618	36"	18"	2"
SSDT4818	48"	18"	2"
SSDT6018	60"	18"	2"
SSDT7218	72"	18"	2"

All shelves can be combined for quantity pricing.

CRL Stainless Steel Shelf

- 12" or 18" Shelves in Widths from 24" to 72"

These Stainless Steel Shelves are available in six widths from 24" to 72". Shelves are ideal as service counter tops for pass-thru windows.



SPECIFICATIONS

Material: Stainless Steel

Finish: Brushed Stainless Steel

Bullet Resistance: Level 1
Instructions Included

CAT. NO.	WIDTH	DEPTH	HEIGHT
SSS2412	24"	12"	2"
SSS3012	30"	12"	2"
SSS3612	36"	12"	2"
SSS4812	48"	12"	2"
SSS6012	60"	12"	2"
SSS7212	72"	12"	2"
SSS2418	24"	18"	2"
SSS3018	30"	18"	2"
SSS3618	36"	18"	2"
SSS4818	48"	18"	2"
SSS6018	60"	18"	2"
SSS7218	72"	18"	2"

All shelves can be combined for quantity pricing.

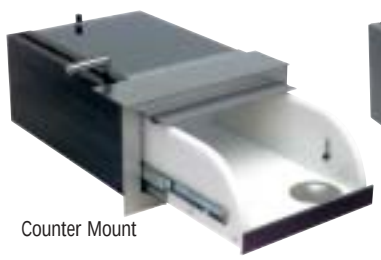
CRL Counter-Mount and Thru-Wall Mount Transaction Drawers

- Choose from Standard Large Capacity or Oversized Models
- Popular Thru-Wall and Counter-Mount Models
- Level 1 Bullet Resistant Protection

SPECIFICATIONS:

Material: Stainless Steel; Lexan; Bullet Resistant Plastic

Finish: Brushed Stainless Steel (face plate only)
Instructions Included



Counter Mount

Thru-Wall

Our Transaction Drawers are ideal for drive-up and walk-up service. A lexan lid allows clear view of contents while protecting against direct entry of outside air. Stainless steel front panel of unit pivots up as drawer is extended. Push button latch keeps drawer lid locked when closed. The Oversized Transaction Drawer is perfect for convenience stores to transfer a gallon of milk or 2 liter bottles of soda. Standard Large Capacity and Oversized Transaction Drawers offer both Counter-Mount and Thru-Wall models. All Drawers meet Protection Level 1 requirements.

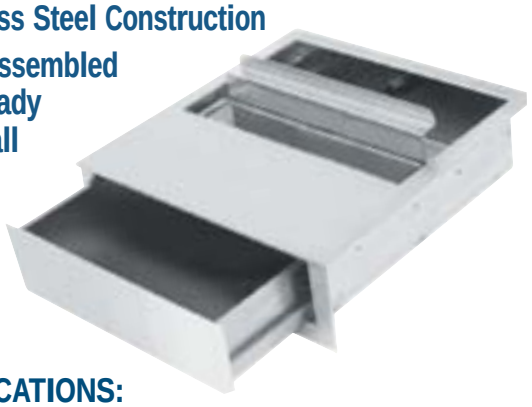
CAT. NO.	STYLE	MOUNTING TYPE	NOMINAL DIMENSIONS WIDTH	DEPTH	HEIGHT
TD1724	Large Capacity	Counter	17"	24"	9-7/8"
TD1724TW	Large Capacity	Thru-Wall	17"	24"	9-7/8"
TD1727	Oversized	Counter	17"	27"	14-5/8"
TD1727TW	Oversized	Thru-Wall	17"	27"	14-5/8"

All Drawers can be combined for quantity pricing.

CRL Deal Drawer

Designed, Engineered and Manufactured in the USA by C.R. Laurence

- Flush Appearance
- Ball Bearing Glides
- Stainless Steel Construction
- Fully Assembled and Ready to Install



SPECIFICATIONS:

Materials: Stainless Steel; Lexan

Finish: Brushed Stainless Steel
Instructions and Template Included

Our Deal Drawer is built to be recessed in the counter top along the front edge, thus giving a flush appearance. Glazing above the flat hood portion provides a barrier that doesn't obstruct operation of drawer. A full width handle across the rear of the drawer pushes it smoothly along ball bearing glides. Lexan lid will not open when drawer is extended. Unit arrives fully assembled and ready for installation.

CAT. NO.	WIDTH	DEPTH	HEIGHT
DD1616	15-7/8"	16-1/4"	4-15/16"

All Drawers can be combined for quantity pricing.

CRL Deep Transaction Drawer with Cash Tray

- Allows for Transfer of Larger Items
- Stainless Steel Construction

SPECIFICATIONS:

Material: Stainless Steel

Finish: Brushed Stainless Steel
Instructions Included

The Deep Transaction Drawer with Cash Tray will serve walk-up customers, protect employees and inventory while allowing transfer of cash, credit cards or small products. The deep drawer portion enables the transfer of motor oil, six-packs of beverages and other large items. Self-contained, smooth operating locking mechanism requires no keys. Two attachable purse shelves are included with the unit. An overhang or awning is recommended for exterior applications.

CAT. NO.	WIDTH	DEPTH	HEIGHT
FL3246C	16"	21"	10"

All Drawers can be combined for quantity pricing.

CRL Transaction and Cash Box Drawer

- Removable Deal Tray for Passing Larger Items
- Lockable Cash Drawer
- Fully Assembled and Ready for Installation

SPECIFICATIONS:

Material: Stainless Steel

Finish: Brushed Stainless Steel
Instructions Included

Our Transaction and Cash Box Drawer for drive-in or walk-up business allows the clerk to maintain customer contact while secure inside. The customer's view of cash drawer contents is blocked by a hinged locking cover. Clerk can pass small packages by removing the deal tray. The operating handle uses a self-contained locking device. This unit has built-in slots for credit or debit card receipts.

CAT. NO.	WIDTH	DEPTH	HEIGHT
FL4463	21-1/2"	25"	5"

All Drawers can be combined for quantity pricing.

CRL Clear Package Receiver

- Bullet Resistant Level 1 or Level 3 Protection
- Contents Are in Full View to Clerk Without Opening Inner Door
- Interlocking Mechanism

Left Hand Model
(Customer's Side)

SPECIFICATIONS:

Materials: Aluminum Extrusion; Clear Acrylic or Clear Lexgard; Plywood; Fiberglass

Finish: Satin Anodized Aluminum

Glazing: 1-1⁄4" Level 1 Acrylic; 1-1/4" Level 3 Lexgard
Instructions Included

The Clear Package Receiver is designed for interior use only. Satin finish aluminum extrusions are used to fasten the sides and bottom together. Bottom is constructed of plywood and bullet resistant fiberglass covered with a plastic laminate. A special interlocking mechanism allows only one door to open at a time. Closer furnished on customer side door. Handing is determined by hinge placement on customer's side. Approximate inside dimensions: 13" wide by 13" deep by 13" high.

CAT. NO.	PROTECTION	HANDING	WIDTH*	DEPTH*	HEIGHT*
CPR1	Level 1	Left	16"	16"	16"
CPR2	Level 1	Right	16"	16"	16"
CPR31	Level 3	Left	16"	16"	16"
CPR32	Level 3	Right	16"	16"	16"

All Package Receivers can be combined for quantity pricing. *Outside Dimensions.

CRL Rotary Server with Vision Panel

Designed, Engineered and Manufactured in the USA by C.R. Laurence

- Level 1 Protection
- Drum Rotates 180 Degrees
- Vision Panel Allows View of Contents Before Drum is Turned

SPECIFICATIONS:

Materials: Stainless Steel; Clear Acrylic; Opaque Bullet Resistant Plastic

Finish: Brushed Stainless Steel (Drum Portion and Sides)

Glazing: 1-1⁄4" Level 1 Acrylic
Instructions Included

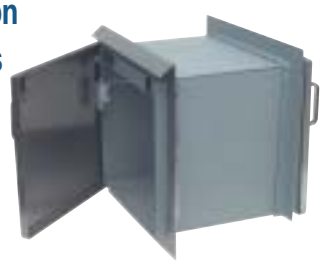
The Rotary Server with Vision Panel rotates 180˚ by turning the crank handle. In the locked position the stainless steel drum is turned to the customer for maximum security. Vision Panel allows for viewing contents. Unit is weatherstripped for outdoor use, and provides Level 1 bullet resistant protection. Drum extends behind and in front of the unit, and is 15-1⁄4" in diameter. Interior will hold large items, such as a six-pack of beverages, or a gallon of milk.

CAT. NO.	PROTECTION	WIDTH*	DEPTH*	HEIGHT*
RSVW1	Level 1	16"	12-1⁄2"	16"

All Package Receivers can be combined for quantity pricing. * Outside Dimensions.

CRL Package Receiver with Steel Doors

- Level 1 or Level 3 Protection
- Interlock Security on Doors



Exterior Door is Hinged on Customer's Left Side

SPECIFICATIONS:

Materials: Steel; Stainless Steel

Finishes: Brushed Stainless Steel; Prime Painted Steel
Instructions Included

The Package Receiver with Steel Doors is designed for the transfer of larger items. A special interlocking mechanism between the interior and exterior door allows only one door to be opened at a time. A separate bar lock for the exterior door can be activated from the inside. A closer is furnished on the exterior door. The unit will mount in walls up to 11-1/2" thick, and requires a 15-1/2" wide by 15-1/2" high wall opening.

CAT. NO.	DESCRIPTION	PROTECTION	WIDTH*	DEPTH*	HEIGHT*
PPR1	Prime Painted Doors	Level 1	18-1⁄2"	16"	18-1⁄2"
PPR3	Prime Painted Doors	Level 3	18-1⁄2"	16"	18-1⁄2"
SPR1	Stainless Steel Doors	Level 1	18-1⁄2"	16"	18-1⁄2"
SPR3	Stainless Steel Doors	Level 3	18-1⁄2"	16"	18-1⁄2"

All Package Receivers can be combined for quantity pricing. * Outside Dimensions

CRL Package Receiver with Vision Panel

- Clear Bullet Resistant Panel on Inner Door for Inspection Before Opening
- Level 1 or Level 3 Protection
- Interlock Security on Doors

Exterior Door is Hinged on Customer's Left Side

SPECIFICATIONS:

Materials: Steel; Stainless Steel; Clear Acrylic; Clear Lexgard

Finish: Brushed Stainless Steel

Glazing: 1-1⁄4" Level 1 Acrylic; 1-1/4" Level 3 Lexgard
Instructions Included

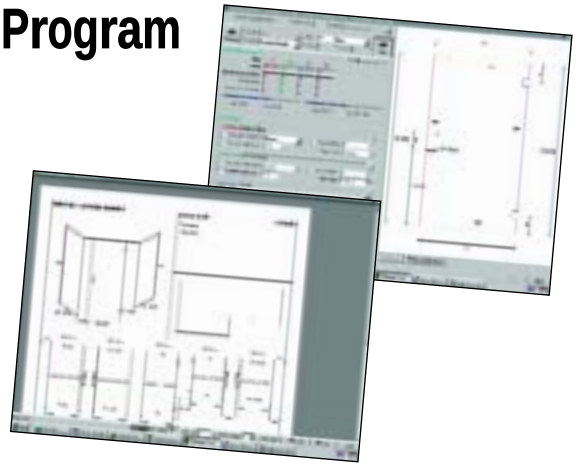
Our Package Receivers with Vision Panel have the same design as the SPR1 and SPR3 Stainless Steel Door Package Receivers. They feature a 12" wide by 10" high vision panel in the interior door. This enables the operator to see the contents inside the unit. Level 1 unit is glazed with 1-1⁄4" Acrylic; Level 3 unit is glazed with 1-1⁄4" Lexgard.
Will mount in walls up to 11-1/2" thick, and requires a 15-1/2" wide by 15-1/2" high wall opening.

CAT. NO.	DESCRIPTION	PROTECTION	WIDTH*	DEPTH*	HEIGHT*
SPRVP1	Vision Panel Door	Level 1	18-1/2"	16"	18-1⁄2"
SPRVP3	Vision Panel Door	Level 3	18-1/2"	16"	18-1⁄2"

All Package Receivers can be combined for quantity pricing. *Outiside Dimensions.

CRL Showers Online Design and Glass Size Program

- Revolutionary Program Generates "Go" Glass Sizes from Your Field Measurements
- Upon Completion of Data Entry, Simply Push the Print Icon to Generate Complete Glass Sizes and Their Templates
- Sizes for Shower Enclosures Can Be Completed in as a Few as Two Minutes
- Web Based Program Allowing 24 Hour Access



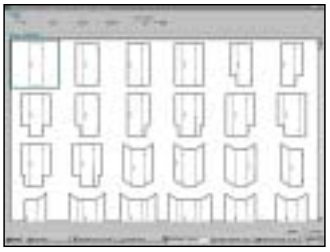
CRL's New Showers Online is a Design and Glass Size Program that allows you to enter a list of products being used for a particular job, and the field measurements. Showers Online then calculates the final glass sizes and displays detailed information, including hinge and handle locations, miters and much more. The program is tailored to work with most any shower enclosure configuration.

These Are Only Some of The Features and Benefits

- Easy to use out-of-plumb/out-of-level indicators allow the user to produce glass sizes that allow out-of-square conditions.
- Visual prompts on the screen will pop up to help you select the correct components for the configuration
- If a door is too wide or too heavy, a prompt will appear on the screen advising you that another hinge is needed. The same prompt will advise that if the door is to remain at the current height, a maximum door width of "X" is allowable

It's as Easy as 1-2-3

1. Choose the shower enclosure design that matches your configuration. There are more than 200 popular designs to choose from. Once you choose the design, click on it to begin entering the field measurements. Custom configurations that aren't included in the standard design choices can be generated independently.
2. After the field measurements have been entered (remember to enter all the out-of-plumb/out-of-level conditions), specify the C.R.Laurence hardware that will be used for the shower enclosure you selected.
3. Once all the products required for the shower enclosure have been determined, simply press the "Save" button. The glass sizes will be completed and stored in a file for immediate printing, as well as for future reference.



Choose from Over 200 Popular Designs, or Customize Your Own Enclosure

Screen Prior to Dimensions

Screen After Entering Dimensions and Product Selection

Literature to Add to Your Library

Frameless Shower Door Guide

NEW EDITION

- A Comprehensive Nearly 600 Page Reference Manual and Training Tool
- Instructs on Design and Proper Hardware Selection, Fabrication and Glass Sizing, Installation Instructions, and a Complete Set of Cut-Out Templates

CAT. NO. SDT21

Our Frameless Shower Door Hardware Guide is a comprehensive manual for constructing the modern frameless shower enclosure. This four section book contains all necessary information to prepare your glass for installation of Shower Door Hinges, Clamps, Towel Bars, Knobs and other accessories. This book is set up to take you from the design and planning stage, all the way through fabrication, glass sizing and installation. This guide contains all template information, and many sample diagrams and drawings to illustrate the many phases of frameless shower enclosures. Design considerations, avoiding potential installation problems, and many other tips will make this book valuable to both the novice and the experienced installer. The SDT21 Guide is a vital piece of literature to add to your shower door publications from CRL.

Frameless Shower Door Hardware and Supplies Catalog

- A Full Line Catalog, Complete with Product Specifications
- Over 50 Photographs of Beautifully Finished Shower Enclosures
- An Excellent Sales Tool to Allow Your Customers to Visualize Their New Frameless Shower Enclosure

Call For Your FREE Full Line Catalog!

CAT. NO. SD03

Our Frameless Shower Door Hardware and Supplies Catalog is a specialty publication that allows you to target those customers interested in constructing their dream frameless enclosure. The catalog details the complete line of frameless shower door products, showing the available styles and finishes for each product. The catalog also documents complete specifications for all products. This 56 page color catalog shows over 50 finished installation photographs to allow customers to visualize how ideas and imagination become reality.

Prima Series Hinges

Coming Soon!- 5° Preset Prima Hinges

Top or Bottom Mount
CAT. NO. PPH01

Glass-to-Glass Mount
CAT. NO. PPH02

L-Bracket Wall Mount
CAT. NO. PPH03

Inline Panel Mount
CAT. NO. PPH04

NEW MODEL

Offset Bracket Wall Mount
CAT. NO. PPH05

FINISHES:

Brass, Chrome, Satin Brass, Satin Chrome (Matte), Brushed Satin Chrome, Gold Plated, Brushed Nickel, Polished Nickel, Brushed Pewter, Oil Rub Bronze, White with Chrome Screws, Black, Ultra Brass, Gun Metal, Antique Brass

NEW FINISHES

Prima Series Pivot Hinges are designed for use with 5/16" to 3/8" tempered safety glass, and provide an extra number of application possibilities. Advantages of pivot type hinges include that they carry the majority of the weight on the bottom, and have the ability to be inset from the wall, enabling clearance for towel bars and other projections. Prima Series Pivot Hinges are self-centering, with four springs for maximum retention strength. Optional 5° Offset Pivot Pin sets may be ordered separately (see below). The Prima Series is adaptable to our Deluxe Header System for shower enclosures not going all the way up to the ceiling (see page F182).

SPECIFICATIONS:

Glass Thickness: 5/16" (8 mm) to 3/8" (10 mm) Tempered Safety Glass

Special Features: Top and Bottom Mount design allows more glass to show. Use of these hinges will reduce quantity of cut-outs required when compared to standard side mount glass-to-glass hinges. Cat. No. PPH01 can be mounted floor and ceiling, or floor and header. (see page F182).

Construction: Solid Brass

Hinge Swings: Full Rotation

Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template

CAT. NO.P1VP1N
(sold as a set)

Optional 5° Pivot Pin Set

(For Prima, Rondo and Shell Series)

Optional 5° Pivot Pin Sets are available when you want to alter the closing position of the door by 5°. These Pivot Pins may be inserted prior to installation, or retrofitted after the installation is complete. Sold as a set of two, one for the top and one for the bottom. Not included with hinge purchase.

*MAXIMUM CAPACITIES	5/16" (8 mm) GLASS		3/8" (10 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	100 Lbs/45 kg	31"/787 mm	100 Lbs/45 kg	31"/787 mm

*NOTE: Do not exceed maximum door weight or width.

Geneva Series Hinges

Wall Mount Full Back Plate Standard Model
CAT. NO. GEN037
(Factory set for standard closing position)

5° Offset Model
CAT. NO. GEN537
(Factory set for 5° offset closure into shower interior)

Wall Mount Short Back Plate Standard Model
CAT. NO. GEN074
(Factory set for standard closing position)

5° Offset Model
CAT. NO. GEN574
(Factory set for 5° offset closure into shower interior)

Wall Mount Offset Back Plate Standard Model
CAT. NO. GEN044
(Factory set for standard closing position)

5° Offset Model
CAT. NO. GEN544
(Factory set for 5° offset closure into shower interior)

180° Glass-to-Glass Standard Model
CAT. NO. GEN180
(Factory set for standard closing position)

5° Offset Model
CAT. NO. GEN580
(Factory set for 5° offset closure into shower interior)

135° Glass-to-Glass Standard Model
CAT. NO. GEN045
(Factory set for standard closing position)

5° Offset Model
CAT. NO. GEN545
(Factory set for 5° offset closure into shower interior)

90° Glass-to-Glass
CAT. NO. GEN092

FINISHES: Brass, Chrome, Satin Brass, Satin Chrome (Matte), Antique Brass, Brushed Satin Chrome, Gold Plated, Brushed Nickel, Polished Nickel, Ultra Brass, Brushed Pewter, Oil Rub Bronze, Gun Metal, White with Chrome Center Block, All White, Antique Bronze, Brushed Copper, Antique Brushed Copper, Chrome with Brass Center Block, Polished Copper

NEW FINISHES

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Feature: Offers choice of Standard Model, which is factory set at standard closing position (0°), or Offset Model pre-set for 5° tighter closure into shower interior.

Construction: Solid Brass

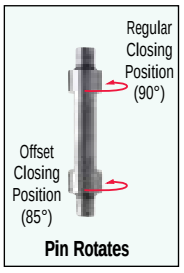
Hinge Swings: 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template

The Geneva Hinge Series will accommodate 3/8" to 1/2" tempered safety glass. A variety of six styles gives design flexibility, including three different Wall Mounts and three different Glass-to-Glass types. Geneva Hinges are self-centering, and contain a Reversible 5° Pivot Pin (see below). In addition, Custom Pivot Pins are available to accommodate "off angle" installations (see below). Made of solid brass with all moving parts (pins and springs) in stainless steel.



Standard Reversible Pivot Pin

Each Geneva Hinge contains a Reversible Pivot Pin. One side of the Pin is marked at 90°. The opposite side of the Pin is marked 85°. Standard Geneva Hinges come with the 90° side activated. Offset Models come with the Pin pre-set for 85° (5° tighter closure into shower interior). The Pin can be rotated (not flipped upside down), to activate the other side.

Custom Pivot Pin
CAT. NO. GENP1N

Custom Pivot Pin

Custom Pivot Pins are available to accommodate "off-angle" installations. As an example, you may encounter a wall that will not meet your door at 90°. If the standard 5° Pivot Pin contained in the hinge does not assist in closing the door to the position desired, you may specify the angle needed for a Custom Pivot Pin (up to 45°).

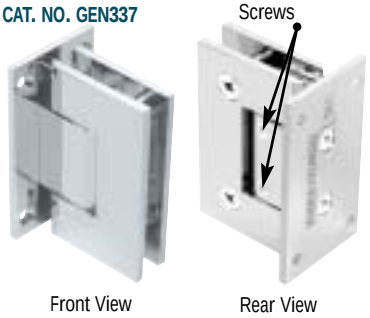
*MAXIMUM CAPACITIES	3/8" (10mm) Glass WEIGHT	3/8" (10mm) Glass DOOR WIDTH	1/2" (12mm) Glass WEIGHT	1/2" (12mm) Glass DOOR WIDTH
Using 2 Hinges	80 lbs/36 kg	28"/711 mm	80 lbs/36 kg	28"/711 mm
Using 3 Hinges	120 lbs/54 kg	32"/813 mm	120 lbs/54 kg	32"/813 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Geneva Adjustable Series Hinges

NEW

Adjustable Wall Mount Full Back Plate
CAT. NO. GEN337



FINISHES: Brass, Chrome, Satin Chrome (Matte), Gold Plated, Brushed Nickel, Polished Nickel, White with Chrome Center Block, Brushed Pewter, Satin Brass

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Feature: Adjustable to any angle up to 90º without having to take door down

Construction: Solid Brass

Hinge Swings: 90° in and 90° out (at factory set position)

Closing Type: Precise closing to 0°

Cut-Out Required

Includes: Gaskets, Screws and Template

Note: Door glass width may require alteration from standard clearance deductions when adjusting angles. Call for details.

The Geneva Adjustable Series has taken our popular Geneva Hinge Series to a new level. Adjustment to accommodate the desired angle (up to 90º) is done after the door is installed. Once the door is hung, simply loosen the Allen set screws and turn the door to the desired closed position. By merely tightening the Allen screws your door will close precisely to 0°. The door can swing 90º inward and also 90º outward (adjusting angle from factory set position will reduce 90º swing in that direction). For doors pulling outwards only (using a clear door jamb), you can adjust the hinge to close 5º inside the shower area, thus having the door close snugly against the jamb.

Adjustable 180° Glass-to-Glass
CAT. NO. GEN380

*MAXIMUM CAPACITIES	3/8" (10 mm) Glass WEIGHT	3/8" (10 mm) Glass DOOR WIDTH	1/2" (12 mm) Glass WEIGHT	1/2" (12 mm) Glass DOOR WIDTH
Using 2 Hinges	80 lbs/36 kg	28"/711 mm	80 lbs/36 kg	28"/711 mm
Using 3 Hinges	120 lbs/54 kg	32"/813 mm	120 lbs/54 kg	32"/813 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Geneva Pony Wall Mount Series Hinges

NEW

Pony Wall Mount for 180° Application
CAT. NO. GEN280

FINISHES: Brass, Chrome, Brushed Nickel, Polished Nickel (GEN280 only)

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Feature: Mounted to surface of tile or marble as opposed to having to cut into wall to recess the back plate.

Construction: Solid Brass

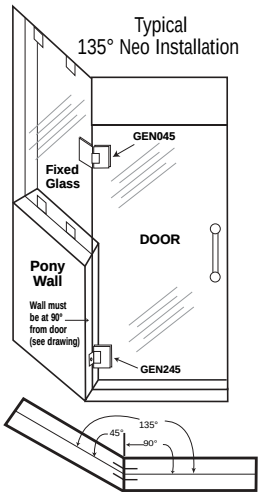
Hinge Swings: Approximately 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template

Typical 135° Neo Installation



These Pony Wall Mount Hinges can be used in place of the standard wall-to-glass hinges, normally utilized when using wall mount hinges on a pony wall, and glass-to-glass hinges above. The GEN280 model is for use with 180° applications, while the GEN245 model is for use with 135° applications. Previously in this application the tile or marble had to be cut to allow the wall mount hinge to be recessed. That adjustment aligned the pivot points between both hinges to allow proper installation. The Geneva Pony Wall Hinges are modified with a shortened center block (containing only one centering spring) and a small back plate (with only two mounting holes). Each hinge contains a reversible 5° pivot pin, just like in our standard Geneva Hinges. Note: For 135° installations, it is required that the face of the pony wall be at a 45° angle to the wall, and a 90° angle to the door plane (see diagram).

Pony Wall Mount for 135° Application
CAT. NO. GEN245

*MAXIMUM CAPACITIES	3/8" (10 mm) Glass WEIGHT	3/8" (10 mm) Glass DOOR WIDTH	1/2" (12 mm) Glass WEIGHT	1/2" (12 mm) Glass DOOR WIDTH
Using 2 Hinges	80 lbs/36 kg	28"/711 mm	80 lbs/36 kg	28"/711 mm
Using 3 Hinges	120 lbs/54 kg	32"/813 mm	120 lbs/54 kg	32"/813 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Pinnacle Series Hinges

Wall Mount Full Back Plate Standard Model
CAT. NO. P1N037
(Factory set for standard closing position)

5° Offset Model
CAT.NO. P1N537
(Factory set for 5° offset closure into shower interior)

Wall Mount Short Back Plate
CAT. NO. P1N044
(Allows clean sight line from shower exterior)

180° Glass-to-Glass Standard Model
CAT. NO. P1N180
(Factory set for standard closing position)

5° Offset Model
CAT. NO. P1N580
(Factory set for 5° offset closure into shower interior)

135° Glass-to-Glass
CAT. NO. P1N045

90° Glass-to-Glass
CAT. NO. P1N092

FINISHES: Brass, Chrome, Satin Brass, Satin Chrome (Matte), Antique Brass, Brushed Satin Chrome, Gold Plated, Brushed Nickel, Polished Nickel, Ultra Brass, Brushed Pewter, Oil Rub Bronze, Gun Metal, Polished Copper, Brushed Nickel with Brass Center Block, Chrome with Brass Center Block, Brushed Nickel with Brass, White with Chrome Center Block, Antique Brushed Nickel

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Feature: Wall Mount Full Back Plate Hinge and 180° Glass-to-Glass Hinge offers choice of Standard Model, which is factory set at standard closing position (0°), or Offset Model pre-set for 5° tighter closure into shower interior.

Construction: Solid Brass

Hinge Swings: 90° in and 90° out

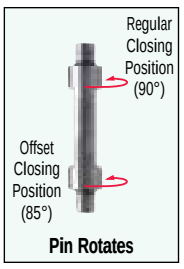
Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template

NEW FINISHES

The Pinnacle Series is similar to the popular Geneva Series Hinge, but with one design change: Pinnacle has radius corners and beveled edges for a sleek appearance. Pinnacle Hinges accommodate 3/8" to 1/2" tempered safety glass, and are self-centering when within 15˚ of the closed position. Pinnacle Hinges are constructed of solid brass, and have stainless steel plunger tips, pins and springs to ensure long service life and reliable door closure. The Pinnacle Hinge also contains the same Reversible 5˚ Pivot Pin featured in our Geneva, Roman, Cathedral, Ultimate and Elite Series (see below). A Custom Pivot Pin is also available for "off angle" installations (see below).



Standard Reversible Pivot Pin

Each Pinnacle Hinge contains a Reversible Pivot Pin. One side of the Pin is marked at 90°. The opposite side of the Pin is marked 85°. Standard Pinnacle Hinges come with the 90° side activated. Offset Models come with the Pin pre-set for 85° (5° tighter closure into shower interior). The Pin can be rotated (not flipped upside down), to activate the other side.

Custom Pivot Pin
CAT. NO. GENP1N

Custom Pivot Pin

Custom Pivot Pins are available to accommodate "off-angle" installations. As an example, you may encounter a wall that will not meet your door at 90°. If the standard 5° Pivot Pin contained in the hinge does not assist in closing the door to the position desired, you may specify the angle needed for a Custom Pivot Pin (up to 45°).

*MAXIMUM CAPACITIES	3/8" (10mm) GLASS WEIGHT	3/8" (10mm) GLASS DOOR WIDTH	1/2" (12mm) GLASS WEIGHT	1/2" (12mm) GLASS DOOR WIDTH
Using 2 Hinges	80 lbs/36 kg	28"/711 mm	80 lbs/36 kg	28"/711 mm
Using 3 Hinges	120 lbs/54 kg	32"/813 mm	120 lbs/54 kg	32"/813 mm

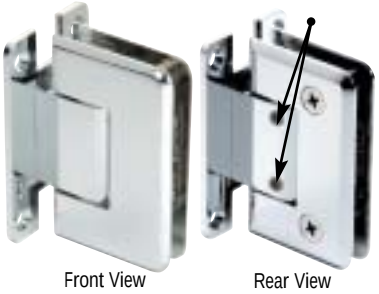
*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Pinnacle Adjustable Series Hinges

NEW

Adjustable Wall Mount Full Back Plate
CAT. NO. P1N337

Allen Adjustment Screws



Front View | Rear View

FINISHES: Brass, Chrome, Satin Chrome (Matte), Gold Plated, Brushed Nickel, Polished Nickel

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Feature: Adjustable to any angle up to 90º without having to take door down

Construction: Solid Brass

Hinge Swings: 90° in and 90° out

Closing Type: Precise closing to 0°

Cut-Out Required

Includes: Gaskets, Screws and Template

Note: Door glass width may require alteration from standard clearance deductions when adjusting angles. Call for details.

The Pinnacle Adjustable Series has taken our popular Pinnacle Series to a new level. Adjustment to accommodate the desired angle (up to 90˚) is done after the door is installed. Once the door is hung, simply loosen the Allen set screws and turn the door to the desired closed position. By merely tightening the Allen screw you door will close precisely to 0˚. The door can swing 90˚ inward and also 90˚ outward (adjusting angle from factory set position will reduce 90˚ swing in that direction). For doors pulling outwards only (using a clear door jamb), you can adjust the hinge to close 5˚ inside the shower area, thus having the door close snugly against the jamb.

Adjustable 180° Glass-to-Glass
CAT. NO. P1N380

Rear View

Front View

*MAXIMUM CAPACITIES	3/8" (10 mm) GLASS WEIGHT	3/8" (10 mm) GLASS DOOR WIDTH	1/2" (12 mm) GLASS WEIGHT	1/2" (12 mm) GLASS DOOR WIDTH
Using 2 Hinges	80 lbs/36 kg	28"/711 mm	80 lbs/36 kg	28"/711 mm
Using 3 Hinges	120 lbs/54 kg	32"/813 mm	120 lbs/54 kg	32"/813 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Roman Series Hinges

NEW

135˚ Glass-to-Glass
CAT. NO. R0M045

Wall Mount Full Back Plate
CAT. NO. R0M037

Wall Mount Offset Back Plate
CAT. NO. R0M044

90˚ Glass-to-Glass
CAT. NO. R0M092

FINISHES: Brass, Chrome, Brushed Nickel, Polished Nickel, Satin Chrome (Matte), Oil Rub Bronze

The New Roman Series of Hinges have all the internal workings of the popular Geneva Series, but have soft, rounded corners on the hinge plates. Roman Series Hinges are constructed of solid brass, and have stainless steel plunger tips, pins and springs to ensure long service life and reliable door closure. They contain the Reversible 5˚ Pivot Pin used in the Geneva Series as well. Custom Pivot Pins (GENP1N) can be ordered for "off-angle" installations.

180˚ Glass-to-Glass
CAT. NO. R0M180

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

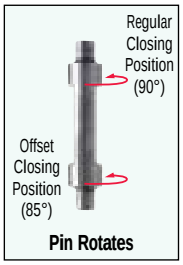
Construction: Solid Brass

Hinge Swings: 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template



Pin Rotates

Standard Reversible Pivot Pin

Each Roman Hinge contains a Reversible Pivot Pin. One side of the Pin is marked at 90°. The opposite side of the Pin is marked 85°. Standard Roman Hinges come with the 90° side activated. The Pin can be rotated (not flipped upside down), to activate the other side. **Note:** Cat. No. GENP1N available for "off-angle" installations. Call for details.

*MAXIMUM CAPACITIES	3/8" (10 mm) GLASS WEIGHT	3/8" (10 mm) GLASS DOOR WIDTH	1/2" (12 mm) GLASS WEIGHT	1/2" (12 mm) GLASS DOOR WIDTH
Using 2 Hinges	80 lbs/36 kg	28"/711 mm	80 lbs/36 kg	28"/711 mm
Using 3 Hinges	120 lbs/54 kg	32"/813 mm	120 lbs/54 kg	32"/813 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Concord Series Hinges

Wall Mount
CAT. NO. SDH037

180° Glass-to-Glass
CAT. NO. SDH180

135° Glass-to-Glass
CAT. NO. SDH135

90° Glass-to-Glass
CAT. NO. SDH090

FINISHES: Brass, Chrome, Satin Brass, Satin Chrome (Matte), Brushed Satin Chrome, Gold Plated, Gun Metal, Polished Nickel, Brushed Nickel, Brushed Pewter, Oil Rub Bronze, Antique Brass, White, Black, Red

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Features: Our original hinge (formerly called the Lalique Series) offers years of reliability and elegance, as well as 15 finish choices

Construction: Solid Brass

Hinge Swings: 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template

Our Concord Series Hinges are available in a variety of styles and finishes that will allow the installer/designer to create custom shower enclosures limited only by their imagination. These beautifully finished, solid brass forged Concord Hinges make it possible to mount 3/8" to 1/2" tempered safety glass shower doors without surrounding frames, so the door has an almost "floating" appearance. Their heavy-duty stainless steel springs allow the door to swing 90° in and 90° out. A friction cam allows the door to be firmly maintained in any position, except when within 15° of the closed position, where they are tapered to assist in centering the door.

*MAXIMUM CAPACITIES	3/8" (10 mm) GLASS		1/2" (12 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	80 lbs/36 kg	28"/711 mm	80 lbs/36 kg	26"/660 mm
Using 3 Hinges	120 lbs/54 kg	34"/864 mm	120 lbs/54 kg	30"/762 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Estate Series Hinges

Wall Mount
CAT. NO. EST037

180° Glass-to-Glass
CAT. NO. EST180

135° Glass-to-Glass
CAT. NO. EST135

90° Glass-to-Glass
CAT. NO. EST090

FINISHES: Brass, Chrome, Satin Chrome (Matte), Polished Nickel, Brushed Nickel, Brushed Pewter, Brushed Satin Chrome, Gold Plated, White, Satin Brass

Estate Hinges for 3/8" to 1/2" tempered safety glass are a uniquely classic design combining mitered edges with curved corners. They are made of solid brass with stainless steel springs. Choose from the elegant Wall Mount Hinge or 90° , 135° and 180° Glass-to-Glass styles. The self-centering action of the Estate Series Hinge allows the door to be maintained in any position, except when within 15° of the closed position, where they are tapered to assist in centering the door.

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Feature: Classic design combines mitered edges with curved corners

Construction: Solid Brass

Hinge Swings: 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	3/8" (10 mm) GLASS		1/2" (12 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	80 lbs/36 kg	28"/711 mm	80 lbs/36 kg	26"/660 mm
Using 3 Hinges	120 lbs/54 kg	34"/864 mm	120 lbs/54 kg	30"/762 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Ultimate Series Hinges

Wall Mount
CAT. NO. ULT037

180° Glass-to-Glass
CAT. NO. ULT180

- **Stainless Steel Construction**
- **Superior Service in Conditions of Accelerated Corrosion Such as Seaside Communities**

The Ultimate Series Hinge is named primarily for its combination of design elegance and service life. Featuring the same beautiful rounded corners and beveled edges of the Pinnacle Hinge, the Ultimate Hinge is constructed entirely of stainless steel. This all-stainless construction gives the Ultimate Hinge a durability not usually found in brass hinges. The Ultimate has superior survivability in conditions of accelerated corrosion, such as seaside communities with high atmospheric salt levels. The Ultimate Hinge has stainless steel plunger tips, pins and springs to ensure long service life and reliable door closure. It also has the same Reversible 5˚ Pivot Pin featured in our Geneva, Cathedral, Pinnacle, Roman and Elite Series. A Custom Pivot Pin is available for “off-angle “ Installations.

FINISHES: Polished Stainless Steel, Satin Stainless Steel

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Feature: Stainless steel construction provides greater durability in conditions subject to accelerated corrosion, such as seaside communities with high atmospheric salt levels

Construction: Stainless Steel

Hinge Swings: 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	3/8" (10 mm) GLASS		1/2" (12 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	90 lbs/41 kg	30"/762 mm	90 lbs/41 kg	30"/762 mm
Using 3 Hinges	130 lbs/59 kg	32"/813 mm	130 lbs/59 kg	32"/813 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Vienna Series Hinges

Wall Mount
Full Back Plate
CAT. NO. V1E037

- For Larger, Heavier Doors Up to 36" Wide and 145 Pounds
- Optional "Mouse-Ear" or Square Cut-Out
- Contains 5° Reversible Pivot Pin

FINISHES:
Brass, Chrome, Brushed Nickel

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Construction: Solid Brass

Hinge Swings: 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Cut-out Required

Includes: Gaskets, Screws and Template

NEW Models and Finishes Coming Soon!

Remove Pins (For Square Corner Cut-Out)

Leave Pins in Place (For "Mouse-Ears" Cut-Out)

180° Glass-to-Glass
CAT. NO. V1E180

Two Vienna Hinges can accommodate a 36" wide door weighing up to 110 pounds, while three hinges can accommodate a 36" wide door up to 140 pounds. Two strategically placed steel pins inside the hinge provide template options, and satisfy two schools of thought for mounting shower door hinges. For the safety of "mouse-ears" type cut-outs, the two steel pins should be left in place. This allows the Vienna Hinge to be used with it's own CRL "mouse-ears" cut-out, or in some cases, competitive "mouse-ears" cut-outs. On the other hand, to enable increased adjustability, the two pins can be removed. This allows the Vienna Hinge to fit it's own CRL rectangular shaped, square cornered cut-out, or in some cases, to fit competitive rectangular shaped, square cornered cut-outs.

Custom Pivot Pin
CAT. NO. V1EP1N

Custom Pivot Pin

Custom Pivot Pins are available to accommodate "off-angle" installations. As an example, you may encounter a wall that will not meet your door at 90°. If the standard 5° Pivot Pin contained in the hinge does not assist in closing the door to the position desired, you may specify the angle needed for a Custom Pivot Pin (up to 45°).

*MAXIMUM CAPACITIES	3/8" (10 mm) GLASS WEIGHT	3/8" (10 mm) GLASS DOOR WIDTH	1/2" (12 mm) GLASS WEIGHT	1/2" (12 mm) GLASS DOOR WIDTH
Using 2 Hinges	110 lbs/50 kg	36"/914 mm	110 lbs/50 kg	36"/914 mm
Using 3 Hinges	140 lbs/63 kg	36"/914 mm	140 lbs/63 kg	36"/914 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Regal Series Hinges

NEW

Glass-to-Glass
CAT. NO. REG180
(Shown in 90° Position)

Glass-to-Glass
CAT. NO. REG180
(Shown in 180° Position)

Glass-to-Glass
CAT. NO. REG180
(Shown in 135° Position)

FINISHES: Brass, Chrome, Satin Chrome, Gold Plated, Brushed Nickel, Polished Nickel

- Adjustable Angle Hinge
- Only Requires Holes in Glass; No Cut-Out

This hinge provides an attractive and safe installation. The Wall Mount Model requires only two holes in the glass (no cut-out). The Glass-to-Glass Model only requires four holes per hinge (two in the door and two in the fixed panel). The Regal Series offers an adjustable closing angle from 0° to 90°. After the door is installed, simply loosen the Allen screw adjustment, position the door to the desired closed position, and tighten the Allen screw. You have now solved the problem of walls not meeting the door at the perfect 90° angle. This adjustment feature means that a single Glass-to-Glass model can accommodate angles from 90° to 180°.

SPECIFICATIONS:

Glass Thickness: 5/16" (8 mm) to 3/8" (10 mm) Tempered Safety Glass

Construction: Solid Brass

Hinge Swings: 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Holes Required (no cut-out)

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	5/16" (8 mm) GLASS WEIGHT	5/16" (8 mm) GLASS DOOR WIDTH	3/8" (10 mm) GLASS WEIGHT	3/8" (10 mm) GLASS DOOR WIDTH
Using 2 Hinges	90 lbs/41kg	30"/762 mm	90 lbs/41kg	30"/762 mm
Using 3 Hinges	130 lbs/59 kg	34"/864 mm	130 lbs/59 kg	34"/864 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Senior and Junior Prima Series Hinges

Top or Bottom Mount
CAT. NO. SRPPH01

Glass-to-Glass Mount
CAT. NO. SRPPH02

SENIOR PRIMA FINISHES:

- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- Brushed Nickel
- Polished Nickel
- Brushed Pewter
- White with Chrome Screws
- Oil Rub Bronze

SPECIFICATIONS:

Glass Thickness:
Senior Prima 1/2" (12 mm) Tempered Safety Glass
Junior Prima 1/4" (6 mm) Tempered Safety Glass
Special Features: Top and Bottom Mount allows more glass exposure. Can also save on glass fabrication costs when compared against use of side mount glass-to-glass hinges requiring more cut-outs.
Construction: Solid Brass
Hinge Swings: Full Rotation
Closing Type: Self-Centering when within 15° of closed position
Cut-Out Required
Includes: Gaussets, Screws and Template

JUNIOR PRIMA FINISHES:

- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- White with Chrome Screws

Top or Bottom Mount
CAT. NO. JRPPH01

Glass-to-Glass Mount
CAT. NO. JRPPH02

Senior and Junior Prima Hinges carry the majority of the door's weight on the bottom, and have the ability to be inset from the wall, enabling clearance for towel bars and other projections. The Glass-to-Glass Top Pivot Hinge is used for doors having fixed transoms. Placed vertically, either style can be used in movable transom installations. These Pivot Hinges are self-centering, with four springs for maximum retention strength.
The Senior Prima Series is adaptable to our Deluxe Header System. See page F182.
The Junior Prima Series is adaptable to our Junior Header Kit. See page F183.

SENIOR PRIMA

*MAXIMUM CAPACITIES	1/2" (12 mm) GLASS WEIGHT	DOOR WIDTH
Using 2 Hinges	145 lbs/66 kg	36"/914 mm

*NOTE: Do not exceed maximum door weight or width.

For 1/2" Thick Glass
5° Offset Pivot Pin
Cat. No. SRP1VP1N
Sold as a set. One for top hinge and one for bottom hinge.

For 1/4" Thick Glass
5° Offset Pivot Pin
Cat. No. JRP1VP1N
Sold as a set. One for top hinge and one for bottom hinge.

JUNIOR PRIMA

*MAXIMUM CAPACITIES	1/4" (6 mm) GLASS WEIGHT	DOOR WIDTH
Using 2 Hinges	62 lbs/28 kg	28"/711 mm

Rondo and Shell Series Hinges

Top or Bottom Mount
CAT. NO. R0N001

Glass-to-Glass Mount
CAT. NO. R0N002

RONDO

Inline Panel Mount
CAT. NO. R0N004

Wall Mount
CAT. NO. R0N003

FINISHES:

- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- White with Chrome Screws

These beautifully crafted Pivot Hinges are designed to provide a broad spectrum of application alternatives. Finely manufactured to the most precise tolerances, the pivot mechanism allows fingertip smooth operation with a solid feel. There is a firm "memory" for alignment of door-to-closed position when within 15° of center. Optional 5° Offset Pivot Pin Sets may be ordered separately (see page F155). Designed for use with 5/16" to 3/8" tempered safety glass, with solid brass construction for superior quality and service performance. Hinges are adaptable to the Deluxe Header System (see page F182) when enclosure does not go all the way to the ceiling.

Top or Bottom Mount
CAT. NO. SHE001

Glass-to-Glass Mount
CAT. NO. SHE002

SHELL

Wall Mount
CAT. NO. SHE003

Inline Panel Mount
CAT. NO. SHE004

SPECIFICATIONS:

Glass Thickness: 5/16" (8 mm) to 3/8" (10 mm) Tempered Safety Glass
Special Features: Top and Bottom Mount design allows more of glass to show. Use of these hinges will reduce quantity of cut-outs required when compared to standard side mount glass-to-glass hinges.
Construction: Solid Brass
Hinge Swings: Full Rotation
Closing Type: Self-Centering when within 15° of closed position
Cut-Out Required
Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	5/16" (8 mm) GLASS WEIGHT	DOOR WIDTH	3/8" (10 mm) GLASS WEIGHT	DOOR WIDTH
Using 2 Hinges	100 lbs/45 kg	31"/787 mm	100 lbs/45 kg	31"/787 mm

*NOTE: Do not exceed maximum door weight or widths.

Zurich Series Hinges

Wall Mount Outswing
CAT. NO. ZUR05

Glass-to-Glass Inswing
CAT. NO. ZUR04

180˚ Glass-to-Glass Outswing or Bifold
CAT. NO. ZUR01

Glass-to-Glass Outswing
CAT. NO. ZUR06

Wall Mount Inswing
CAT. NO. ZUR03

180° Glass-to-Glass Inswing or Bifold
CAT. NO. ZUR02

FINISHES:

- Brass Plated Brass
- Brass Plated Stainless Steel
- Polished Stainless Steel
- Satin Stainless Steel
- Gold Plated Stainless Steel
- White Stainless Steel

Glass-to-Glass Inline Outswing
CAT. NO. ZUR07

SPECIFICATIONS:

Glass Thickness: 5/16" (8 mm) to 3/8" (10 mm) Tempered Safety Glass

Special Feature: Ideal for Bi-Fold Application. Use ZUR01and ZUR03 for doors that fold into tub area. Use ZUR02 and ZUR05 for doors that fold out to bathroom area.

Construction: Stainless Steel or Solid Brass

Hinge Swings: See description next to photos of hinges

Closing Type: Free Swinging

Holes Required (No Cut-Out)

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	5/16" (8 mm) GLASS		3/8" (10 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	100 lbs/45 kg	36"/914 mm	100 lbs/45 kg	36"/914 mm
Using 3 Hinges	150 lbs/68 kg	40"/1016 mm	150 lbs/68 kg	40"/1016 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.
When installing a bi-fold door, take total width of both doors into consideration.

Elite Series Hinges

Wall Mount
CAT. NO. ELT074

Custom Pivot Pin
CAT. NO. GENP1N
For off-angle installations.
(see page F156 for details)

FINISHES:

- Brass
- Chrome
- Satin Chrome (Matte)
- Brushed Nickel
- Brushed Pewter
- Gold Plated
- White with Chrome Center Block
- Oil Rub Bronze

The Elite Series is a premium hinge for wider and heavier glass doors. Unlike most other hinges, the Elite can be side mounted on the top and bottom corners of the door, or anywhere in-between. Containing a positive three-screw clamping system, the Elite Hinge incorporates a cut-out and through-stud that eliminates slippage. The Elite features the same 5˚ Reversible Pivot Pin used in our Geneva, Cathedral, Pinnacle, Roman and Ultimate Series. It can also use the "GENP1N" (shown at left) for "off angle" installations.

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Feature: Has the ability to be side mounted at the top and bottom corners of the door, or anywhere in-between. Corner mounting allows more glass exposure.

Construction: Solid Brass

Hinge Swings: 90˚ in and 90˚ out

Closing Type: Self-Centering when within 15˚ of closed position

Cut-Out and Hole Required

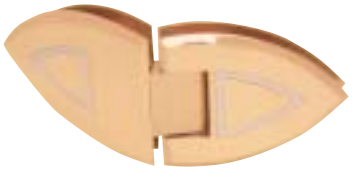
Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	3/8" (10 mm) GLASS		1/2" (12 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	95 lbs/43 kg	34"/864 mm	95 lbs/43 kg	34"/864 mm
Using 3 Hinges	140 lbs/64 kg	38"/965 mm	140 lbs/64 kg	38"/965 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Cathedral Series Hinges

Wall Mount Offset Back Plate (Allows clean sight line from shower exterior)
CAT. NO. CAT044



135˚ Glass-to-Glass
CAT. NO. CAT045

180˚ Glass-to-Glass
CAT. NO. CAT180

90˚ Glass-to-Glass
CAT. NO. CAT090

FINISHES: (Hinge/Accent)

- Brass/Chrome
- Chrome/Gold Plated
- Gold Plated/Chrome
- White/Chrome
- Satin Chrome/Chrome

The Cathedral Series Hinge combines a unique two-tone accent design with a positive hold cut-out and through-stud system. The Cathedral Series offers the same internal mechanism as our popular Geneva Series, and contains a Reversible Pivot Pin for optional 5˚ offset door closure. A Custom Pivot Pin is available for "off-angle" installations (see above).

SPECIFICATIONS:

Glass Thickness: 3/8" (10 mm) to 1/2" (12 mm) Tempered Safety Glass

Special Feature: Has a unique two-tone design that provides design flexibility when attempting to match split finish color decors.

Construction: Solid Brass

Hinge Swings: 90˚ in and 90˚ out

Closing Type: Self-Centering when within 15˚ of closed position

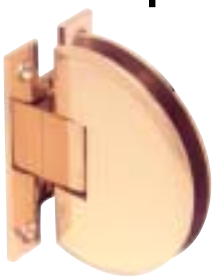
Cut-Out and Hole Required

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	3/8" (10 mm) GLASS		1/2" (12 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	95 lbs/43 kg	34"/864 mm	95 lbs/43 kg	34"/864 mm
Using 3 Hinges	140 lbs/64 kg	38"/965 mm	140 lbs/64 kg	38"/965 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Classique Series Hinges



Wall Mount Standard Back Plate
CAT. NO. CLA037

135° Glass-to-Glass
CAT. NO. CLA135

180° Glass-to-Glass
CAT. NO. CLA180

FINISHES:

- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- White with Chrome Center Block

Wall Mount Flush Back Plate (Allows clean sight line from shower exterior)
CAT. NO. CLA044

90° Glass-to-Glass
CAT. NO. CLA090

The Classique Shower Door Hinge is a design apart from traditional hinges. Beautiful round design and beveled edges are the result of an artist's unique concept of the perfect hinge for decors with strong curved and contoured influences. There are five distinct models, including a Flush Back Plate Wall Mount Hinge for clean exterior sight lines. The Classique's beveled edges make an excellent presentation of sleek design, while the solid brass construction ensures superior quality and long life.

SPECIFICATIONS:

Glass Thickness: 5/16" (8 mm) to 3/8" (10 mm) Tempered Safety Glass

Special Feature: Round design and beveled edges to match curved or contoured decors

Construction: Solid Brass

Hinge Swings: 90º in and 90º out

Closing Type: Precise closing to 0°

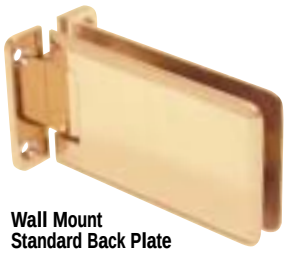
Cut-Out Required

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	5/16" (8 mm) GLASS		3/8" (10 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	80 lbs/36 kg	31"/787 mm	80 lbs/36 kg	31"/787 mm
Using 3 Hinges	120 lbs/54 kg	34"/864 mm	120 lbs/54 kg	34"/864 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

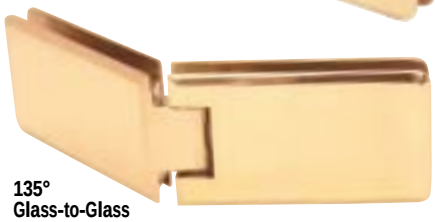
Grande Series Hinges



Wall Mount Standard Back Plate
CAT. NO. GRA037

Wall Mount Offset Back Plate (Allows clean sight line from shower exterior)
CAT. NO. GRA044

180° Glass-to-Glass
CAT. NO. GRA180



135° Glass-to-Glass
CAT. NO. GRA135

90° Glass-to-Glass
CAT. NO. GRA090

The Grande Hinge incorporates a larger mounting surface to provide superior support for frameless shower doors. The beveled edges are an attractive accent to Grande's strong rectangular design, and the Offset Back Plate Wall Mount Model gives a clean exterior appearance. Grande Hinges can be mounted on the top and bottom corners of the door, or anywhere in-between. Grande is constructed of solid brass for years of reliable service.

FINISHES:

- Brass
- Chrome
- Satin Chrome (Matte)
- Brushed Nickel
- Brushed Pewter
- Gold Plated
- White with Chrome Center Block

SPECIFICATIONS:

Glass Thickness: 5/16" (8 mm) to 3/8" (10 mm) Tempered Safety Glass

Special Feature: Have ability to be side mounted at top and bottom corners of the door, or anywhere in between. Corner mounting allows more glass exposure.

Construction: Solid Brass

Hinge Swings: 90º in and 90º out

Closing Type: Precise closing to 0°

Cut-Out and Hole Required

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	5/16" (8 mm) GLASS		3/8" (10 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	90 lbs/41 kg	31"/787 mm	90 lbs/41 kg	31"/787 mm
Using 3 Hinges	134 lbs/61 kg	34"/864 mm	134 lbs/61 kg	34"/864 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Petite Series Hinges

Wall Mount Offset Back Plate (Allows clean sight line from shower exterior)
CAT. NO. PET044

Wall Mount Full Back Plate
CAT. NO. PET037

90° Glass-to-Glass
CAT. NO. PET090

FINISHES: Brass, Chrome, Gold Plated, Satin Chrome (Matte), White with Chrome Center Block

180° Glass-to-Glass (Door swings 90° in and 90° out)
CAT. NO. PET180

135° Glass-to-Glass (Door swings 90° outward and approx. 45° inward)
CAT. NO. PET135

180° Glass-to-Glass (Door swings 180° in only)
CAT. NO. PET182

180° Glass-to-Glass (Door swings 180° out only)
CAT. NO. PET181

The Petite Series provides a complete spectrum of hinges for frameless shower doors using 1/4" to 5/16" tempered safety glass. Developed to allow virtually every application configuration, they deliver design freedom. The Petite Series includes three unique types: the PET044 Wall Mount Flush Back Plate Hinge allows for a clean exterior sight line by having all mounting screws inside the shower; the PET181 Glass-to-Glass Hinge is used to mount a door to a fixed panel in a 180° plane, and allows the door to swing in a complete 180° arc outwards; the PET182 Glass-to-Glass Hinge allows the door to swing in a complete 180° arc inwards. Petite Hinges have mitered edges with curved corners to provide an aesthetically pleasing look. Petite Hinges have 25% thicker plates than competitive hinges, thereby reducing deflection and providing greater holding power.

SPECIFICATIONS:

Glass Thickness: 1/4" (6 mm) to 5/16" (8 mm) Tempered Safety Glass

Special Feature: Hinge plates are 25% thicker than competitive hinges, thereby reducing deflection and providing greater holding power

Construction: Solid Brass

Hinge Swings: 90° in and 90° out (except PET135, PET181 and PET182)

Closing Type: Precise closing to 0º

Cut-Out Required (except PET181 and PET182 which require holes only)

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	1/4" (6 mm) GLASS		5/16" (8 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	55 lbs/25 kg	31"/787 mm	55 lbs/25 kg	31"/787 mm
Using 3 Hinges	82 lbs/37 kg	34"/864 mm	82 lbs/37 kg	34"/864 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Monaco Series Hinges

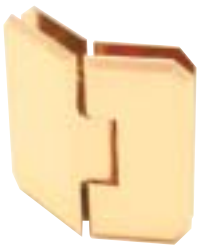
Wall Mount Full Back Plate
CAT. NO. M0N037

180° Glass-to-Glass (Door swings 90° in and 90° out)
CAT. NO. M0N180

180° Glass-to-Glass (Door swings 180° out only)
CAT. NO. M0N181

FINISHES: Brass, Chrome, Gold Plated, Satin Chrome (Matte), White with Chrome Center Block

Wall Mount Offset Back Plate (Allows clean sight line from shower exterior)
CAT. NO. M0N044



135° Glass-to-Glass (Door swings 90° outward and approx. 45° inward)
CAT. NO. M0N135

Wall Mount Offset Back Plate (Allows clean sight line from shower exterior) Takes two holes only in glass. Swings 90° outward only. Door stop should be used.
CAT. NO. M0N244 (Available in Chrome Only)

Custom Copper Finish

90° Glass-to-Glass
CAT. NO. M0N090

The Monaco Series introduces charm, richness and character to the choice of frameless shower door hinges using 1/4" to 5/16" tempered safety glass. Available in three Wall Mount and four Glass-to-Glass styles, Monaco Hinges present numerous design and configuration options. Aesthetically pleasing beveled edges and corners give Monaco Hinges the look many architects and designers desire. Two distinct models stand out in the Monaco Series: the M0N044 model is a Flush Back Plate Wall Mount Hinge that provides a clean exterior sight line because the mounting plate is visible only from the inside of the shower; the M0N181 Glass-to-Glass Hinge is used to mount a door to a fixed panel of glass in a 180° plane, and allows the door to swing out 180° and fold back on itself. Five standard finishes are stocked.

SPECIFICATIONS:

Glass Thickness: 1/4" (6 mm) to 5/16" (8 mm) Tempered Safety Glass

Special Feature: Hinge plates are 25% thicker than competitive hinges, thereby reducing deflection and providing greater holding power

Construction: Solid Brass

Hinge Swings: 90° in and 90° out (except MON244, MON135 and MON181)

Closing Type: Precise Closing to 0º

Cut-Out Required (except MON181 and MON244 which require holes only)

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	1/4" (6 mm) GLASS		5/16" (8 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	55 lbs/25 kg	31"/787 mm	55 lbs/25 kg	31"/787 mm
Using 3 Hinges	82 lbs/37 kg	34"/864 mm	82 lbs/37 kg	34"/864 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Junior Geneva Series Hinges

Wall Mount Full Back Plate
CAT. NO. JRG037

Wall Mount Short Back Plate
CAT. NO. JRG074

Wall Mount Offset Back Plate
(Allows clean sight line from shower exterior)
CAT. NO. JRG044

180° Glass-to-Glass
CAT. NO. JRG180

135° Glass-to-Glass
CAT. NO. JRG045

90° Glass-to-Glass
CAT. NO. JRG090

FINISHES: Brass, Chrome, Satin Chrome, Gold Plated, Brushed Nickel, Brushed Pewter, White with Chrome Center Block

The same elegant European design that has made our Geneva Series so popular is available in a smaller version, the Junior Geneva, to offer flexibility of application. Used to accommodate 1/4" to 5/16" tempered safety glass, the Junior Geneva is made of solid brass. There are three Wall Mount styles along with 90°, 135° and 180° Glass-to-Glass styles. The Junior Geneva is self-centering, and available in seven popular finishes. They contain a Reversible Pivot Pin for optional 5° offset door closure.

SPECIFICATIONS:

Glass Thickness: 1/4" (6mm) to 5/16" (8mm) Tempered Safety Glass

Special Feature: Contains a Reversible 5° Pivot Pin. When activated, it allows 5° tighter door closure.

Construction: Solid Brass

Hinge Swings: 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	1/4" (6 mm) GLASS		5/16" (8 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	62 lbs/28 kg	28"/711 mm	62 lbs/28 kg	28"/711 mm
Using 3 Hinges	92 lbs/42 kg	32"/813 mm	92 lbs/42 kg	32"/813 mm

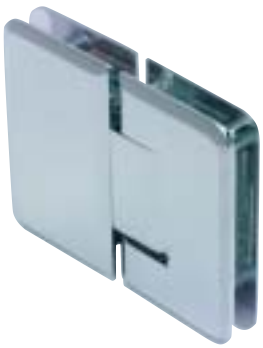
*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Trianon Series Hinges

Wall Mount Full Back Plate
CAT. NO. TR1037

135° Glass-to-Glass
CAT. NO. TR1045

Wall Mount Offset Back Plate
(Allows clean sight line from shower exterior)
CAT. NO. TR1044



180° Glass-to-Glass
CAT. NO. TR1180

90° Glass-to-Glass
CAT. NO. TR1090

FINISHES: Brass, Chrome, Satin Chrome (Matte), Gold Plated, White with Chrome Center Block

Trianon Hinges can be used to support 1/4" to 5/16" tempered safety glass in swinging door installations. They feature radiused corners and beveled edges in five decorator finishes. Trianon Hinges are constructed of solid brass with a self-centering mechanism for door alignment when within 15° of the center. They contain a Reversible Pivot Pin for optional 5° offset door closure. Five distinct models include two Wall Mount styles, along with three Glass-to-Glass styles.

SPECIFICATIONS:

Glass Thickness: 1/4" (6mm) to 5/16" (8mm) Tempered Safety Glass

Special Feature: Contains a Reversible 5° Pivot Pin. When activated, it allows 5° tighter door closure.

Construction: Solid Brass

Hinge Swings: 90° in and 90° out

Closing Type: Self-Centering when within 15° of closed position

Cut-Out Required

Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	1/4" (6 mm) GLASS		5/16" (8 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	62 lbs/28 kg	28"/711 mm	62 lbs/28 kg	28"/711 mm
Using 3 Hinges	92 lbs/42 kg	32"/813 mm	92 lbs/42 kg	32"/813 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Milano Series Hinges

Wall Mount Full Back Plate
CAT. NO. M1L037

180° Glass-to-Glass
CAT. NO. M1L180

135° Glass-to-Glass
CAT. NO. M1L045

Wall Mount Offset Back Plate
(Allows clean sight line from shower exterior)
CAT. NO. M1L044

90° Glass-to-Glass
CAT. NO. M1L090

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Gold Plated, White with Chrome Center Block

The traditionally designed Milano Series of Hinges are constructed of solid brass for reliable and durable performance. The closing action of the Milano allows the door precise closing to zero degrees. Two Wall Mount styles and three Glass-to-Glass styles provide design flexibility. The Milano Series offers five elegant finishes from which to choose. Accommodates 1/4" to 5/16" tempered safety glass.

SPECIFICATIONS:

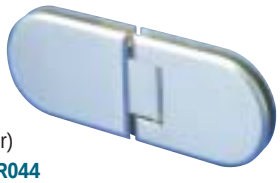
Glass Thickness: 1/4" (6 mm) to 5/16" (8 mm) Tempered Safety Glass
Special Features: Hinge has precise closing feature to 0°
Construction: Solid Brass
Hinge Swings: 90° in and 90° out
Closing Type: Precise Close to 0°
Cut-Out Required
Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	1/4" (6 mm) GLASS WEIGHT	1/4" (6 mm) GLASS DOOR WIDTH	5/16" (8 mm) GLASS WEIGHT	5/16" (8 mm) GLASS DOOR WIDTH
Using 2 Hinges	60 lbs/27 kg	28"/711 mm	60 lbs/27 kg	28"/711 mm
Using 3 Hinges	90 lbs/41 kg	32"/813 mm	90 lbs/41 kg	32"/813 mm

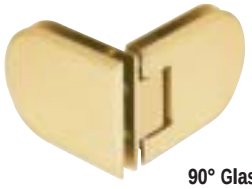
*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Berlin Series Hinges

Wall Mount Offset Back Plate
(Allows clean sight line from shower exterior)
CAT. NO. BER044



180° Glass-to-Glass
CAT. NO. BER180



90° Glass-to-Glass
CAT. NO. BER090

135° Glass-to-Glass
CAT. NO. BER135

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Gold Plated, Brushed Nickel, White with Chrome Center Block

The Berlin Series of Hinges combines elegant design with superb quality. This family of hinges features a Wall Mount Hinge with Offset Back Plate, which leaves the mounting plate visible only from inside the shower. Three Glass-to-Glass models round out the selection. Choose from six beautiful finishes which will match the decor of most bathrooms. Berlin Hinges are constructed of solid brass, and will provide a new inspiration combined with a classic past.

SPECIFICATIONS:

Glass Thickness: 1/4" (6 mm) to 5/16" (8 mm) Tempered Safety Glass
Special Features: Rounded design ideal for "soft decors"
Construction: Solid Brass
Hinge Swings: 90° in and 90° out
Closing Type: Self-Centering when within 15° of closed position
Cut-Out Required
Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	1/4" (6 mm) GLASS WEIGHT	1/4" (6 mm) GLASS DOOR WIDTH	5/16" (8 mm) GLASS WEIGHT	5/16" (8 mm) GLASS DOOR WIDTH
Using 2 Hinges	60 lbs/27 kg	28"/711 mm	60 lbs/27 kg	28"/711 mm
Using 3 Hinges	90 lbs/41 kg	32"/813 mm	90 lbs/41 kg	32"/813 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Junior Cathedral Series Hinges

Wall Mount Offset Back Plate
(Allows clean sight line from shower exterior)
CAT. NO. JRCAT044

135° Glass-to-Glass
CAT. NO. JRCAT045

180° Glass-to-Glass
CAT. NO. JRCAT180

90° Glass-to-Glass
CAT. NO. JRCAT090

FINISHES: (Hinge/Accent)

Brass/Chrome, Chrome/Gold Plated, White/Chrome, Gold Plated/Chrome, Satin Chrome (Matte)/Chrome

The Junior Cathedral Series Hinge blends a unique two-tone design with the same internal mechanism as our Junior Geneva Hinge. The Junior Cathedral has a positive hold on the glass, utilizing a cut-out plus a hole to prevent door slippage. Constructed of solid brass, they come in one Wall Mount and three Glass-to-Glass styles. Junior Cathedrals are made to fit 1/4" to 5/16" tempered safety glass, and will swing a full 180° (90° in and 90° out). They contain a Reversible Pivot Pin for optional 5° offset door closure. The Junior Cathedral is self-centering, and is available in five color blends.

SPECIFICATIONS:

Glass Thickness: 1/4" (6 mm) to 5/16" (8 mm) Tempered Safety Glass
Special Features: Unique two-tone design allows color matching in decors utilizing split finish hardware.
Construction: Solid Brass
Hinge Swings: 90° in and 90° out
Closing Type: Self-Centering when within 15° of closed position
Cut-Out and Hole Required
Includes: Gaskets, Screws and Template

*MAXIMUM CAPACITIES	1/4" (6 mm) GLASS WEIGHT	1/4" (6 mm) GLASS DOOR WIDTH	5/16" (8 mm) GLASS WEIGHT	5/16" (8 mm) GLASS DOOR WIDTH
Using 2 Hinges	62 lbs/28 kg	28"/711 mm	62 lbs/28 kg	28"/711 mm
Using 3 Hinges	92 lbs/42 kg	32"/813 mm	92 lbs/42 kg	32"/813 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Light-Duty Frameless Shower Door Hinges

- **Work Well for Small Single Door Shower Stalls, or in Cabinet Applications**
- **Free-Swinging Hinges Require Hole in Glass**

Square Corner Style:
CAT. NO. EH84 (CHROME)
CAT. NO. EH86 (BRASS)

Half-Round Style:
CAT. NO. EH184 (CHROME)
CAT. NO. EH186 (BRASS)

FINISHES: Brass, Chrome

Light-Duty Frameless Shower Door Hinges are designed for use in small single door shower stalls where the frameless look is desired. They are free-swinging, allowing the door to swing 90° outwards. These Light-Duty Hinges are also an excellent choice in many cabinet applications. They are available in two styles, Square Corner or Half-Round, in a choice of two finishes. Light-Duty Hinges will accommodate 1/4" to 5/16" tempered safety glass.

*MAXIMUM CAPACITIES	1/4" (6 mm) GLASS		5/16" (8 mm) GLASS	
	WEIGHT	DOOR WIDTH	WEIGHT	DOOR WIDTH
Using 2 Hinges	50 lbs/23 kg	24"/610 mm	50 lbs/23 kg	24"/610 mm
Using 3 Hinges	75 lbs/34 kg	24"/610 mm	75 lbs/34 kg	24"/610 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

SPECIFICATIONS:

Glass Thickness: 1/4" (6mm) to 5/16" (8mm) Tempered Safety Glass
Construction: Solid Brass
Closing Type: Free-Swinging
1/2" (12 mm) for EH184 and EH186
Includes: Gaskets

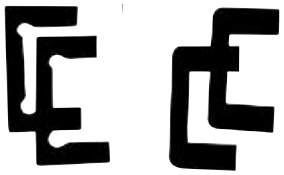
Shower Door Hinge Finish Chain

Finishes:
Brass, Chrome, Satin Chrome (Matte), Satin Brass, Gold Plated, Gun Metal, Polished Nickel, Brushed Nickel, White, Black, Red

A great way to help customers select the right finish for their bathroom. Certain individual Finish Chips are also available.

CAT NO.	DESCRIPTION
SDCSK	Chain Containing 11 Popular Finishes

Replacement Gaskets



We stock Replacement Gaskets to fit Concord (formerly Lalique), Geneva, Petite, Prima and Pinnacle Series Hinges. Package contains two thick and two thin gaskets. Gaskets for other hinge series available on special order.

CAT NO.	HINGE SERIES
SDGK	Concord (Lalique)
GENGK1	Geneva
PETGASK	Petite
P1NGASK	Pinnacle
PPHGK	Prima
SRPPHGK	Senior Prima

Hinge Pin Wrench

- **Time Saving Tool for Changing Pivot Pin Degree Angle**

CAT.NO. HPW1

Works with the Following Hinge Series:
Geneva, Pinnacle, Elite, Ultimate, Cathedral and Roman

The Hinge Pin Wrench simplifies the process of reversing 5° Pivot Pins contained in selected CRL Hinge Series. You can rotate the Pivot Pin 180° to activate the opposite side.

Stainless Steel Replacement Screws

Hinge Clamping Plate Screws (5mm x 1/2")

Fits:
Junior Cathedral, Junior Geneva, Junior Prima, Milano, Trianon and Zurich Hinges
8 per pack

CAT NO.	FINISH
SDS5X12BR	Brass
SDS5X12CH	Chrome
SDS5X12SB	Satin Brass
SDS5X12SC	Satin Chrome
SDS5X12GP	Gold Plated
SDS5X12GM	Gun Metal
SDS5X12PN	Polished Nickel
SDS5X12BN	Brushed Nickel
SDS5X12PW	Brushed Pewter
SDS5X12W	White
SDS5X12BL	Black
SDS5X12RD	Red
SDS5X12ORB	Oil Rub Bronze
SDS5X12ABR	Antique Brass
SDS5X12BSC	Brush Satin Chrome

Hinge Clamping Plate Screws (6mm x 1/2")

Fits:
Berlin, Cathedral, Classique, Concord, Estate, Geneva, Geneva Adjustable, Grande, Monaco, Petite, Pinnacle, Prima, Roman, Rondo, Shell, Ultimate and Vienna Hinges
8 per pack

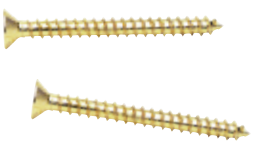
CAT NO.	FINISH
SDS6X12BR	Brass
SDS6X12CH	Chrome
SDS6X12SB	Satin Brass
SDS6X12SC	Satin Chrome
SDS6X12GP	Gold Plated
SDS6X12GM	Gun Metal
SDS6X12PN	Polished Nickel
SDS6X12BN	Brushed Nickel
SDS6X12PW	Brushed Pewter
SDS6X12W	White
SDS6X12BL	Black
SDS6X12RD	Red
SDS6X12ORB	Oil Rub Bronze
SDS6X12ABR	Antique Brass
SDS6X12BSC	Brush Satin Chrome

Hinge Clamping Plate Screws (6mm x 5/8")

Fits:
Elite and Senior Prima Hinges
8 per pack

CAT NO.	FINISH
SDS6X15BR	Brass
SDS6X15CH	Chrome
SDS6X15SC	Satin Chrome
SDS6X15GP	Gold Plated
SDS6X15BN	Brushed Nickel
SDS6X15PN	Polished Nickel
SDS6X15W	White

Wall Mounting Screws (#10 x 2" Flat Head Phillips Sheet Metal)



Fits:
Berlin, Cathedral, Classique, Concord, Elite, Estate, Geneva, Geneva Adjustable, Grande, Jr. Cathedral, Jr. Geneva, Jr. Prima, Milano, Monaco, Petite, Pinnacle, Prima, Roman, Rondo, Shell, Trianon, Ultimate, Vienna and Zurich Hinges

Standard Pack: 10 Each
Bulk Pack: 50 Each ∅

CAT NO.	FINISH
SDS10X2BR	Brass
SDS10X2CH	Chrome
SDS10X2SB	Satin Brass
SDS10X2SC	Satin Chrome
SDS10X2GP	Gold Plated
SDS10X2GM	Gun Metal
SDS10X2PN	Polished Nickel
SDS10X2BN	Brushed Nickel
SDS10X2PW	Brushed Pewter
SDS10X2W	White
SDS10X2BL	Black
SDS10X2RD	Red
SDS10X2BRBULK ∅	Brass
SDS10X2CHBULK ∅	Chrome

CRL Contemporary Style Knobs

Back-to-Back
CAT. NO. SDK106

Single-Sided
CAT. NO. SDK206

SPECIFICATIONS:

Material: Solid Brass

Available Finishes: Brass, Chrome, Satin Brass, Satin Chrome (Matte), Brushed Satin Chrome, Gold Plated, Gun Metal, Polished Nickel, Brushed Nickel, Brushed Pewter, Oil Rub Bronze, Antique Brass, White, Black, Red, Ultra Brass (Note: SDK206 not stocked in Oil Rub Bronze, Brushed Satin Chrome and Antique Brass)

Glass Thickness Range:
1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required:
3/8" (10 mm) or 1/2" (12 mm)

These solid brass Contemporary Style Knobs come in up to 16 beautiful finishes. Knobs measure 1-3/16" in diameter and stand 1-3/16" from the door surface. End cap for Single-Sided Knob stands 1/4" from the door surface.

CRL Traditional Style Knobs

Back-to-Back
CAT. NO. SDK100

Single-Sided
CAT. NO. SDK200

SPECIFICATIONS:

Material: Solid Brass

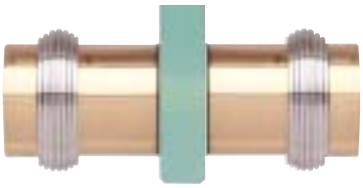
Available Finishes: Brass, Chrome, Satin Brass, Satin Chrome (Matte), Brushed Satin Chrome, Gold Plated, Gun Metal, Polished Nickel, Brushed Nickel, Brushed Pewter, Oil Rub Bronze, Antique Brass, White, Black, Red, Ultra Brass, Antique Brushed Copper (Note: SDK200 not stocked in Oil Rub Bronze, Brushed Satin Chrome and Antique Brass)

Glass Thickness Range:
1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required:
3/8" (10 mm) or 1/2" (12 mm)

Our solid brass Traditional Style Knobs are available in up to 17 popular finishes. Overall diameter of knob is 1-9/16", overall height is 1" from glass. End cap for Single-Sided Knob stands 1/4" from the door surface.

CRL Protruding Ring Style Knob



Back-to-Back
CAT. NO. SDK643

- **Choice of High Contrast Dual Colored Knobs or Same Colored Rings**

SPECIFICATIONS:

Material: Solid Brass

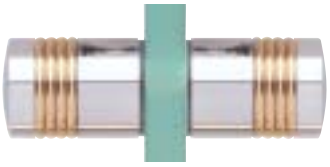
Available Finishes: Brass Knob/Brass Rings, Brass Knob/Chrome Rings, Chrome Knob/Chrome Rings, Chrome Knob/Brass Rings, Gold Knob/Chrome Rings, White Knob/Brass Rings and Brushed Nickel Knob/ Brass Rings

Glass Thickness Range:
1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required:
3/8" (10 mm) or 1/2" (12 mm)

The rings on the Protruding Style Knob are raised above the surface. The Knob measures 1-1/2" in diameter and extends 1-9/16" from the surface. Knob is made of solid brass, in your choice of seven color combinations.

CRL Flush Ring Style Knob



Back-to-Back
CAT. NO. SDK118

- **Choice of High Contrast Dual Colored Knobs or Same Colored Rings**

SPECIFICATIONS:

Material: Solid Brass

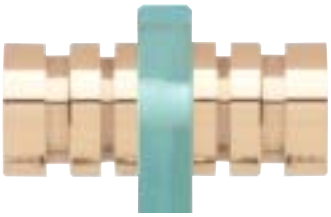
Available Finishes: Brass Knob/Brass Rings, Brass Knob/Chrome Rings, Chrome Knob/Chrome Rings, Chrome Knob/Brass Rings, Gold Knob/Chrome Rings, and White Knob/Brass Rings

Glass Thickness Range:
1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required:
3/8" (10 mm) or 1/2" (12 mm)

The rings on this Knob are flush to the surface. Knob measures 1-3/16" in diameter and extends 1-9/16" from the door surface. Knob is made of solid brass, in your choice of six color combinations

CRL Junior Contemporary Style Knob



Back-to-Back
CAT. NO. SDK107

SPECIFICATIONS:

Material: Solid Brass

Available Finishes: Brass, Chrome, Satin Chrome (Matte), Brushed Nickel, Gold Plated, and White

Glass Thickness Range:
1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required:
3/8" (10 mm) or 1/2" (12 mm)

The solid brass Junior Contemporary Style Knob is a smaller version of our popular standard size Contemporary Knob. The narrow 1" diameter of the knob assists is displaying as little hardware as possible. Knob stands 1-3/16" from the surface.

All Knobs can be combined for quantity pricing.

CRL Mini Bulb Style Knob

Single-Sided
CAT. NO. 19MK

- **1/8" Low Profile End Cap Makes it Perfect for Sliding Doors, Standard Swinging Doors or Cabinet Doors**

SPECIFICATIONS:

Material: Solid Brass

Available Finishes: Brass, Chrome, Satin Chrome (Matte), Brushed Satin Chrome, Brushed Nickel, Polished Nickel, Oil Rub Bronze, Antique Brass

Glass Thickness Range:
1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required:
1/2" (12 mm)

The Mini Bulb Style Knob is a brass constructed, single-sided model with a blind fastener end cap. Ideal for sliding doors, cabinet doors and standard frameless swinging glass doors. Knob extends 1" from surface and measures 3/4" in diameter. End Cap protrudes only 1/8" from glass surface.

CRL Crystal Knobs

1-15/16" Diameter x 2-1/16" High

Contemporary Style Single-Sided

CAT. NO. SDK406CR

1-15/16" Diameter x 1-13/16" High

Traditional Style Single-Sided

CAT. NO. SDK400CR

- **No Hole Drilling! Simply Adhere Using Ultraviolet Adhesive**

SPECIFICATIONS:

Material: Lead Crystal, Silica

No Glass Drilling Required

Photo Courtesy of: Architectural Glass Arts, Inc.

Crystal Knobs provide a clean and transparent look. Knob and door blend together for a see-through appearance. No hole drilling required. Use our water clear UV349 Ultraviolet Adhesive to affix Knob.

CAT. NO.	DESCRIPTION
SDK400CR	Traditional Style Knob
SDK406CR	Contemporary Style Knob
UV349	Ultraviolet Adhesive-50ml
20162	Adhesive Cleaner/Conditioner
UB80	Battery Operated Ultraviolet Light

CRL Euro Style Knob

Back-to-Back

CAT. NO. SDK120

SPECIFICATIONS:

Material: Solid Brass

Available Finishes: Brass, Chrome, Satin Chrome (Matte), Brushed Nickel, Gold Plated, and White

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

The Euro Style Knob is an elegant brass constructed type preferred by European designers. The larger size of this knob allows easy gripping. Knob diameter is 1-3/4", and protrudes 1-5/16" from the glass. Six beautiful finishes makes matching most bathroom decors easy.

CRL Glass Knob

Back-to-Back

CAT. NO. SDK410CR

SPECIFICATIONS:

Material: Glass, Chrome Plated Brass

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 3/8" (10 mm)

This Glass Knob provides a clean and transparent look, as it blends the Knob and door together for a see-through appearance. It has a chrome insert for added beauty. Knob diameter is 1-3/16", and it protrudes 1-11/16" from the glass.

CRL Knob Latch

- **Provides Positive Closure by Latching Door in Glass-to-Wall or Glass-to-Glass Installations**
- **Centers the Door in Out-of-Alignment Situations Caused by Various Jobsite Conditions**

SPECIFICATIONS:

Material: Solid Brass

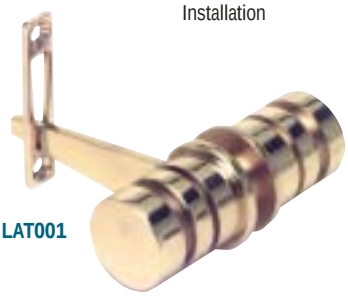
Available Finishes: Brass, Chrome, Satin Chrome (Matte), Brushed Nickel, Gold Plated, and White

Glass Thickness Range: 3/8" (10 mm) to 1/2" (12 mm)

Hole Diameter Required: 7/8" (22 mm)

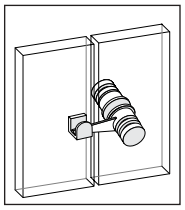
Shown with J-Hook for Glass-to-Glass Installation

Shown with Tapered Strike for Wall-to-Glass Installation

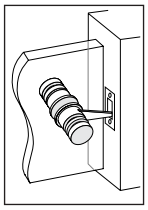


CAT. NO. LAT001

GLASS-TO-GLASS INSIDE VIEW



GLASS-TO-WALL INSIDE VIEW



The Knob Latch assists in latching and centering a door in either glass-to-wall or glass-to-glass installations. It is very helpful in job conditions where a slightly out of alignment situation exists, and positive closure to zero degrees is needed. An internal three-point ball bearing index mechanism keeps the Knob Latch from "free-spinning". The Knob Latch is operational from both sides of the door. It includes a Tapered Strike for glass-to-wall installations, and a J-Hook for glass-to-glass installations. J-Hook is adhered using our water clear UV349 Ultraviolet Adhesive.

CRL Back-to-Back and Single-Sided Solid Pull Handles

• 3/4" Diameter

Photo Courtesy of:
Allegheny Glass & Mirror

SIZE	Back-to-Back No Metal Washers CAT. NO.	Back-to-Back With Metal Washers CAT. NO.	Single-Sided No Metal Washers CAT. NO.	Single-Sided With Metal Washers CAT. NO.
6"	BPD6	SPH6	BPS6	SSP6
8"	BPD8	SPH8	BPS8	SSP8

All Pull Handles can be combined for quantity pricing.

FINISHES:

Brass, Chrome, Satin Brass, Satin Chrome (Matte), Brushed Satin Chrome, Gold Plated, Polished Nickel, Brushed Nickel, Brushed Pewter, Oil Rub Bronze, Antique Brass, White, Black, Antique Brushed Copper, Antique Bronze

SPECIFICATIONS:

Material: 3/4" (19 mm) Diameter Solid Brass Rod

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

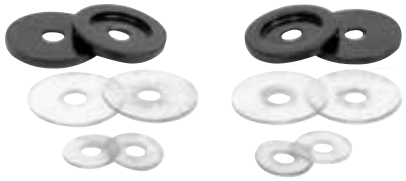
Hole Diameter Required: 1/2" (12 mm)

Hole Spacing: 6" Pulls= 6" (152 mm) Center-to-Center;
8" Pulls= 8" (203 mm) Center-to-Center

These Solid Brass Pull Handles offer a selection of Back-to-Back or Single-Sided styles, with a choice of an economical "No Washer" type, or the Traditional Style Pull with 1-1/4" diameter metal washers. The Back-to-Back Handle includes a pull for each side of the door, and is commonly used in frameless shower door applications. The Single-Sided Handle has a 1/8" protruding end cap, and is commonly used for by-passing doors, cabinets and wardrobe doors. All Pull Handles are offered in a choice of 6" and 8" sizes, and are stocked in finishes to match most bathroom decors. Custom finishes are also available on special order.

CRL Replacement Washer and Washer/Stud Kits for Solid Pull Handles

• For Back-to-Back Pull Handles



CAT. NO. 30WK
Each Kit Contains: 4 Metal and 8 Plastic Washers (4 Small, 4 Large)

FINISHES:

Same as Handles Shown Above

SPECIFICATIONS:

Materials: Brass; Plastic

Size: Metal Washers and End Caps are 1-1/4" (31 mm) diameter. Plastic Washers come in two sizes, 1-1/4" (31 mm) diameter and 3/4" (19 mm) diameter.

• For Single-Sided Pull Handles

CAT. NO. 30SK
Each Kit Contains: 2 each 1/4"- 20 Threaded Rods with 1-1/4" diameter End Cap, 2 each 1-1/4" Metal Washers, 6 Plastic Washers (4 Large, 2 Small)

CRL Solid Pull Handles

NEW FINISHES

• Back-to-Back, 1" Diameter

Our 1" diameter Back-to-Back Solid Brass Pull Handle becomes an integral part of the door with its substantial appearance. These Pulls do not come with metal washers. Glass fabrication requires 5/8" (16 mm) diameter holes in the glass, 8" (203 mm) center-to-center. Fits 3/8" (10 mm) to 1/2" (12 mm) thick glass.

CAT. NO. SBP81

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Brushed Satin Chrome, Gold Plated, Polished Nickel, Brushed Nickel, Brushed Pewter, White, Oil Rub Bronze

CRL Sculptured Solid Pull Handles

• Back-to-Back

NEW FINISHES

The eye-catching Scuptured Shower Door Pull has a unique free-form design that sets it apart from other pull handles. The curved shape, combined with a distinguishing flat tapered appearance will guarantee that this Pull Handle will be noticed. SSDP6 6" model requires 1/2" (12 mm) diameter holes in the glass, 6" (152 mm) center-to center. CQ10X10 10" model requires 5/8" (16 mm) holes in the glass, 10" (254 mm) center-to-center. Fits 3/8" (10 mm) to 1/2" (12 mm) thick glass.

CAT. NO. SSDP6 (6")
CAT. NO. CQ10X10 (10")

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Brushed Satin Chrome, Polished Nickel, Brushed Nickel, Oil Rub Bronze (10" Only), Antique Brass (10" Only), Gold Plated (10" Only)

CRL BM Series Tubular Back-to-Back Pull Handles

WITH METAL WASHERS

CAT. NO. BM6X6

CAT. NO. BM8X8

WITHOUT METAL WASHERS

CAT. NO. BMNW6X6

CAT. NO. BMNW8X8

FINISHES:

Brass, Chrome, Satin Brass, Satin Chrome (Matte), Brushed Satin Chrome, Polished Nickel, Brushed Nickel, White

SPECIFICATIONS:

Material: 3/4" (19 mm) diameter Brass Tubing (1.5 mil thick), 1-1/4" (31.75 mm) diameter Washers (if applicable)

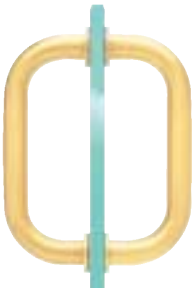
Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Center-to-Center Hole Spacing: 6" Handle = 6" (152 mm)
8" Handle = 8" (203 mm)

The economical BM Series of Back-to-Back Tubular Pull Handles come with or without your choice of decorative metal washers. Plastic washers are also included to protect against glass-to-metal contact. Consists of one pull for each side of the door. Eight stock finishes are available, with custom finishes available upon request. 6" and 8" sizes are available.

CRL Tubular Back-to-Back Pull Handles (Regular Style)



CAT. NO. SDPR6

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Brushed Satin Chrome, Gold Plated, Gun Metal, Polished Nickel, Brushed Nickel, Brushed Pewter, Oil Rub Bronze, Antique Brass, White, Black, Red, Ultra Brass, Satin Brass, Antique Brushed Copper, Polished Copper

SPECIFICATIONS:

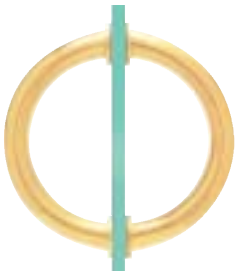
Material: 3/4" (19 mm) diameter Brass Tubing (1.5 mil thick), 1-1/4" (31.75 mm) diameter Washers

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Hole Spacing: 6" (152 mm) Center-to-Center

CRL Tubular Back-to-Back Pull Handles (Circular Style)



CAT. NO. SDPC575

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Satin Brass, Brushed Satin Chrome, Gold Plated, Gun Metal, Polished Nickel, Brushed Nickel, Brushed Pewter, Oil Rub Bronze, Antique Brass, White, Black, Red, Ultra Brass

SPECIFICATIONS:

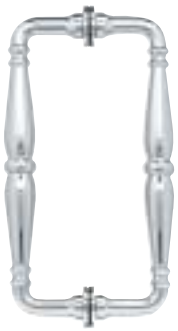
Material: 3/4" (19 mm) diameter Brass Tubing (1.5 mil thick), 1-1/4" (31.75 mm) diameter Washers

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Hole Spacing: 5-1/8" (130 mm) Center-to-Center

CRL Victorian Style Back-to-Back Pull Handles



CAT. NO. V1C8X8

FINISHES:

Brass, Chrome, Satin Brass, Satin Chrome (Matte), Brushed Satin Chrome, Brushed Nickel, Polished Nickel, Oil Rub Bronze, Gold Plated, White, Antique Brass

SPECIFICATIONS:

Material: Solid Brass, 1-1/4" (31.75 mm) diameter Washers

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Hole Spacing: 8" (203 mm) Center-to-Center

CRL Acrylic Back-to-Back Pull Handles with Chrome or Brass Rings

SPECIFICATIONS:

Material: 3/4" (19 mm) diameter Acrylic Rod; 1-1/8" (28 mm) diameter Brass Back-Up Washers

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Hole Spacing: 6" (152 mm) Center-to-Center; 8" (203 mm) Center-to-Center

RING FINISHES:

Brass, Chrome

CAP6X6BR	CAP6X6CH	6"
CAP8X8BR	CAP8X8CH	8"

CRL BM Series Single-Sided Towel Bars

FINISHES:

Brass, Chrome, Satin Brass, Satin Chrome (Matte), Polished Nickel, Brushed Nickel, White, Brushed Satin Chrome

WITH METAL WASHERS AVAILABLE SIZES:

12" Towel Bar **(CAT. NO. BM12)**
18" Towel Bar **(CAT. NO. BM18)**
20" Towel Bar **(CAT. NO. BM20)**
22" Towel Bar **(CAT. NO. BM22)**
24" Towel Bar **(CAT. NO. BM24)**
26" Towel Bar **(CAT. NO. BM26)**
27" Towel Bar **(CAT. NO. BM27)**
28" Towel Bar **(CAT. NO. BM28)**
30" Towel Bar **(CAT. NO. BM30)**

The BM Series of Single-Sided Towel Bars are offered with or without metal washers. Towel Bars can be mounted on either fixed panels of glass or doors. Bars with metal washers have a 3/16" low profile end cap, while Bars without metal washers have a 1/8" low profile end cap.

WITHOUT METAL WASHERS AVAILABLE SIZES:

12" Towel Bar **(CAT. NO. BMNW12)**
18" Towel Bar **(CAT. NO. BMNW18)**
20" Towel Bar **(CAT. NO. BMNW20)**
22" Towel Bar **(CAT. NO. BMNW22)**
24" Towel Bar **(CAT. NO. BMNW24)**
26" Towel Bar **(CAT. NO. BMNW26)**
27" Towel Bar **(CAT. NO. BMNW27)**
28" Towel Bar **(CAT. NO. BMNW28)**
30" Towel Bar **(CAT. NO. BMNW30)**

This makes these Bars ideal for use on bypassing sliding doors as well. Plastic washers are included to prevent metal-to-glass contact. Bars come in nine standard sizes and eight popular finishes. Custom sizes and finishes are available upon request.

SPECIFICATIONS:

Material: 3/4" (19 mm) diameter Brass Tubing (1.5 mil thick); 1-1/4" (31.75 mm) diameter Metal Washers (if applicable)

Fits Glass Thickness: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Center-to-Center Hole Spacing:
12" Towel Bar = 12" (305 mm)
18" Towel Bar = 18" (457 mm)
20" Towel Bar = 20" (508 mm)
22" Towel Bar = 22" (559 mm)
24" Towel Bar = 24" (610 mm)
26" Towel Bar = 26" (660 mm)
27" Towel Bar = 27" (686 mm)
28" Towel Bar = 28" (711 mm)
30" Towel Bar = 30" (762 mm)

CRL BM Series Back-to-Back Towel Bars

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Satin Brass, Brushed Satin Chrome, Polished Nickel, Brushed Nickel, White

WITH METAL WASHERS AVAILABLE SIZES:

12" Towel Bar **(CAT. NO. BM12X12)**
18" Towel Bar **(CAT. NO. BM18X18)**
24" Towel Bar **(CAT. NO. BM24X24)**
30" Towel Bar **(CAT. NO. BM30X30)**

The BM Series Back-to-Back Towel Bars are offered with or without metal washers. Consists of one bar for each side of the glass. Plastic washers are included to protect against metal-to-glass contact. Bars come in four standard sizes and eight popular finishes. Custom sizes and finishes are available upon request.

WITHOUT METAL WASHERS AVAILABLE SIZES:

12" Towel Bar **(CAT. NO. BMNW12X12)**
18" Towel Bar **(CAT. NO. BMNW18X18)**
24" Towel Bar **(CAT. NO. BMNW24X24)**
30" Towel Bar **(CAT. NO. BMNW30X30)**

SPECIFICATIONS:

Material: 3/4" (19 mm) diameter Brass Tubing (1.5 mil thick); 1-1/4" (31.75 mm) diameter Metal Washers (if applicable)

Fits Glass Thickness: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Center-to-Center Hole Spacing:
12" Towel Bar = 12" (305 mm)
18" Towel Bar = 18" (457 mm)
24" Towel Bar = 24" (610 mm)
30" Towel Bar = 30" (762 mm)

CRL BM Series Combination Pull Handle/Towel Bar

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Satin Brass, Brushed Satin Chrome, Polished Nickel, Brushed Nickel, White

WITH METAL WASHERS AVAILABLE SIZES:

6" Pull / 12" Towel Bar **(CAT. NO. BM6X12)**
6" Pull / 18" Towel Bar **(CAT. NO. BM6X18)**
6" Pull / 24" Towel Bar **(CAT. NO. BM6X24)**
8" Pull / 18" Towel Bar **(CAT. NO. BM8X18)**
8" Pull / 24" Towel Bar **(CAT. NO. BM8X24)**

The BM Series of Pull Handle/Towel Bar Combinations come with or without metal washers, and are supplied with all the hardware required for installation. They are constructed of 1.5 mil thick heavy brass tubing. Each set consists of a pull handle/towel bar set, along with decorative metal back-up washers (if applicable) and plastic washers to protect against glass-to-glass contact. The BM Series Pull Handle/Towel Bar Combinations come in eight stock finishes with custom finishes available upon demand.

All Towel Bars can be combined for quantity pricing.

WITHOUT METAL WASHERS AVAILABLE SIZES:

6" Pull / 12" Towel Bar **(CAT. NO. BMNW6X12)**
6" Pull / 18" Towel Bar **(CAT. NO. BMNW6X18)**
6" Pull / 24" Towel Bar **(CAT. NO. BMNW6X24)**
8" Pull / 18" Towel Bar **(CAT. NO. BMNW8X18)**
8" Pull / 24" Towel Bar **(CAT. NO. BMNW8X24)**

SPECIFICATIONS:

Material: 3/4" (19 mm) diameter Brass Tubing (1.5 mil thick), 1-1/4" (31.75 mm) diameter Metal Washers (if applicable)

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Center-to-Center Hole Spacing:
6" Pull = 6" (152 mm)
8" Pull = 8" (203 mm)
12" Towel Bar = 12" (305 mm)
18" Towel Bar = 18" (457 mm)
24" Towel Bar = 24" (610 mm)

CRL SD Series Brass Single-Sided Towel Bars for Glass

• Complete with Metal Washers

These Single-Sided Towel Bars are designed for use on frameless fixed glass doors or panels. Bars are made of 3/4" diameter brass tubing. The narrow inside knob is attractive, and protrudes 1/4" from glass. Fits glass thicknesses from 1/4" to 1/2". Requires 1/2" diameter holes to install.

SDTBS12	12" Towel Bar
SDTBS18	18" Towel Bar
SDTBS24	24" Towel Bar

SPECIFICATIONS:

Material: 3/4" (19mm) diameter Brass Tubing (1.5 mil thick), 1-1/4" (31.75 mm) diameter Washers

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Center-to-Center Spacing:
12" Towel Bar = 12" (305 mm)
18" Towel Bar = 18" (457 mm)
24" Towel Bar = 24" (610 mm)

FINISHES:

- Brass
- Chrome
- Satin Brass
- Satin Chrome (Matte)
- Gold Plated
- Brushed Nickel
- Polished Nickel
- Brushed Pewter
- White
- Oil Rub Bronze 18" Only
- Antique Brass 18" and 24" only

CRL SD Series Brass Back-to-Back Towel Bars for Glass

These Towel Bars are for back-to-back mounting on opposite sides of the glass. Each set has two bars, four nylon and four metal washers. Fits 1/4" to 1/2" glass. Requires 1/2" diameter holes.

SDTB12X12	12" Towel Bar
SDTB18X18	18" Towel Bar
SDTB24X24	24" Towel Bar

• Complete with Metal Washers

SPECIFICATIONS:

Material: 3/4" (19 mm) diameter Brass Tubing (1.5 mil thick), 1-1/4" (31.75 mm) diameter Washers

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Center-to-Center Spacing:
12" Towel Bar = 12" (305 mm)
18" Towel Bar = 18" (457 mm)
24" Towel Bar = 24" (610 mm)

FINISHES:

- Brass
- Chrome
- Gold Plated
- White
- Satin Chrome (Matte)
- Gun Metal
- Oil Rub Bronze 12" and 18" only
- Brushed Nickel
- Polished Nickel
- Brushed Pewter
- Black
- Red
- Satin Brass

CRL SD Series Brass Towel Bar/Pull Handle Combinations

• Complete with Metal Washers

These attractive Pull and Towel Bar Sets come with all the hardware needed for installation. They are constructed of heavy brass tubing. Each set consists of one towel bar and one pull, six metal and 12 nylon washers, and two knobs. Up to 14 attractive finishes. Fits glass thicknesses from 1/4" to 1/2".

SPECIFICATIONS:

Material: 3/4" (19 mm) diameter Brass Tubing (1.5 mil thick), 1-1/4" (31.75 mm) diameter Washers

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Hole Diameter Required: 1/2" (12 mm)

Hole Spacing: 6" Pull = 6" (152 mm) Center-to-Center
12" Towel Bar = 12" (305 mm) Center-to-Center
18" Towel Bar = 18" (457 mm) Center-to-Center
24" Towel Bar = 24" (610 mm) Center-to-Center

FINISHES:

- Brass
- Chrome
- Satin Brass
- Satin Chrome (Matte)
- Gold Plated
- Gun Metal
- Polished Nickel
- Brushed Nickel
- Brushed Pewter
- White
- Black
- Red
- Oil Rub Bronze
- Antique Brass

SDP6TB12	6" Pull with 12" Towel Bar
SDP6TB18	6" Pull with 18" Towel Bar
SDP6TB24	6" Pull with 24" Towel Bar
SDP12TB24	12" Pull with 24" Towel Bar

Note: Not all sizes are stocked in all finishes. Call for details.

CRL Brass Wall Mounting Towel Bars

These Wall Mounting Towel Bars are designed to be used where the customer wants wall hardware that matches the hardware used on their shower enclosure. Towel Bars project 3" from the wall. To install, simply screw studs into wall and secure the Towel Bar to them. Bars are 3/4" diameter tubing.

CAT. NO.	DESCRIPTION
WTB12	12" Towel Bar
WTB18	18" Towel Bar
WTB24	24" Towel Bar

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Gold Plated, Brushed Nickel, White

SPECIFICATIONS:

Material: 3/4" (19 mm) diameter Brass Tubing (1.5 mil thick), 1-1/4" (31.75 mm) diameter Metal Washers
Wall Mounted:
Studs Screw into Wall.
Center-to-Center Spacing:
12" Towel Bar = 12" (305 mm)
18" Towel Bar = 18" (457 mm)
24" Towel Bar = 24" (610 mm)

CRL Grab Bars

CAT. NO.	DESCRIPTION
GB18	18" Grab Bar
GB24	24" Grab Bar

These heavy-duty Grab Bars will add to the decor of any shower enclosure. At the same time, they provide an important element of bathroom safety. These surface mounted Bars are 1-1/4" in diameter, and feature a cover flange to conceal the fasteners. Standard lengths are 18" and 24". Available in polished stainless steel or polished brass material in nine finishes, Grab Bars come individually wrapped with fasteners included.

FINISHES:

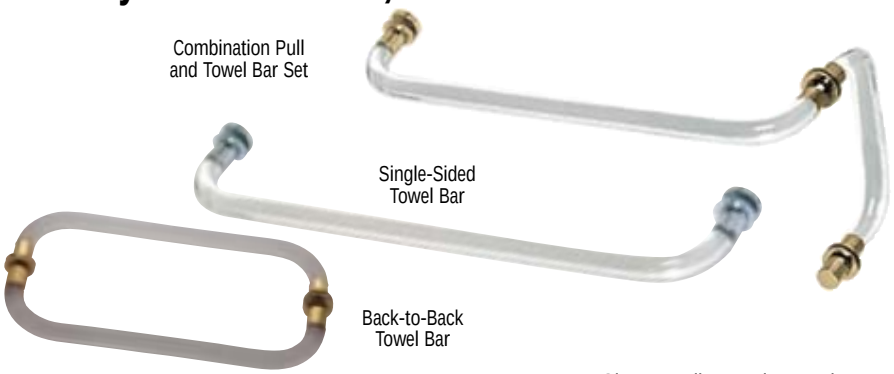
NEW FINISHES!

Brass, Chrome, Satin Chrome (matte), Polished Nickel, Brushed Nickel, Brushed Satin Chrome, Oil Rub Bronze, White, Black

SPECIFICATIONS:

Material: 1-1/4" (32 mm) diameter Stainless Steel or Brass Tubing
Includes: Cover Flanges and all necessary mounting hardware
No Glass Drilling: Bars are mounted to inside surface of shower.

CRL Acrylic Pull Handles, Towel Bars and Towel Bar/Pull Handle Combination Sets



CAT. NO.	DESCRIPTION
CAP6X6	6" Back-to-Back Pull Handle
CAP8X8	8" Back-to-Back Pull Handle
CAC6X18	6" Pull with 18" Towel Bar
CAC8X18	8" Pull with 18" Towel Bar
CAC8X24	8" Pull with 24" Towel Bar
CATB12X12	12" Back-to-Back Towel Bar
CATB18	18" Single-Sided Towel Bar
CATB24	24" Single-Sided Towel Bar

All Towel Bars can be combined for quantity pricing.

Clear Acrylic Towel Bars give you that see-through appearance preferred by many designers. Constructed of 3/4" clear acrylic rod, they are secured with either brass or chrome ring hardware. Fits 1/4" to 1/2" glass. Requires 1/2" diameter holes.

RING FINISHES:

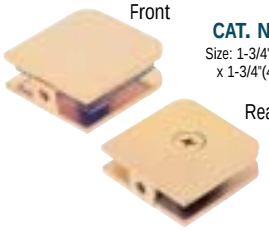
Brass, Chrome

SPECIFICATIONS:

Material: 3/4" (19 mm) diameter Clear Acrylic Rod; 1-1/8" (28 mm) diameter Brass Washers
Available Trim Hardware: Brass and Chrome
Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)
Hole Diameter Required: 1/2" (12 mm)
Hole Spacing: 6" Pull = 6" (152 mm) Center-to-Center
8" Pull = 8" (203 mm) Center-to-Center
12" Towel Bar = 12" (305 mm) Center-to-Center
18" Towel Bar = 18" (457 mm) Center-to-Center
24" Towel Bar = 24" (610 mm) Center-to-Center

CRL Glass Clamps

Standard Fixed Panel U-Clamp



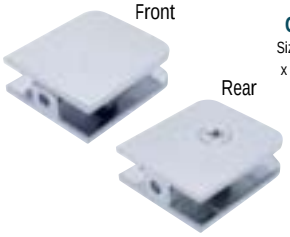
CAT. NO. UC77
Size: 1-3/4"(44 mm) Wide x 1-3/4"(44 mm) High

Fixed Panel U-Clamps mount directly to the wall, ceiling or floor to secure vertical fixed glass panels.

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: 16 Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 3/8" (10 mm)
Hole Diameter Required: 5/8" (16 mm) or 3/4" (19 mm) Diameter
Includes: Mounting Screw and Gaskets
Note: An additional set of gaskets is required for 5/16" (8 mm) glass

Oversized Fixed Panel U-Clamp



CAT. NO. UC79
Size: 1-3/4"(44 mm) Wide x 1-15/16"(49 mm) High

Oversized Fixed Panel U-Clamps are especially recommended for 1/2" thick glass installations.

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: 19 Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Hole Diameter Required: 5/8" (16 mm) or 3/4" (19 mm) Diameter
Includes: Mounting Screw and Gaskets
Note: An additional set of gaskets is required for 5/16" (8 mm) glass

Standard 90° Glass Clamp

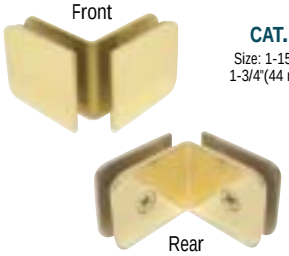
CAT. NO. GCB90
Size: 1-3/4"(44 mm) Wide x 1-3/4"(44 mm) High (each plate)

A truly versatile clamp that has two uses: as a 90° Clamp for vertical fixed panels in glass shower enclosures; as a bracket for horizontal glass shelves within the enclosure.

SPECIFICATIONS:

Material: Solid Brass or Stainless Steel
Available Finishes: 17 Stock Finishes
Glass Thickness: 5/16" (8mm) to 3/8" (10mm)
Hole Diameter Required: 5/8" (16mm) or 3/4" (19mm) each panel
Includes: Gaskets; Wood Screw to be used for optional wall mounting application

Oversized 90° Glass Clamp



CAT. NO. GCB91
Size: 1-15/16"(49 mm) Wide x 1-3/4"(44 mm) High (each plate)

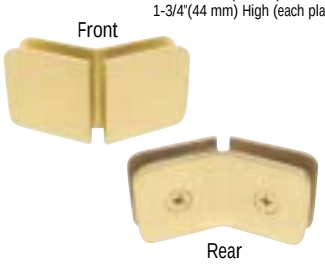
Oversized 90° Glass Clamps are especially suggested for use in 1/2" thick glass installations.

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: Up to 14 Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Hole Diameter Required: 5/8" (16 mm) or 3/4" (19 mm) each panel
Includes: Gaskets; Wood Screw to be used for optional wall mounting application
Note: An additional set of gaskets is required for 5/16" (8 mm) glass

135° Glass Clamp

CAT. NO. GCB135
Size: 1-3/4"(44 mm) Wide x 1-3/4"(44 mm) High (each plate)



These 135° Glass Clamps are designed to clamp 5/16" to 1/2" thick fixed glass panels that meet at a 135° angle.

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: 15 Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Hole Size Required: 5/8" (16 mm) or 3/4" (19 mm) each panel
Includes: Gaskets

Movable Transom Clamps

CAT. NO. GCB186
Wall Mount
Size: 1-15/16"(49 mm) Wide x 1-3/4" (44 mm) High

CAT. NO. GCB188
Glass-to-Glass
Size: 3-15/16"(100 mm) Wide x 1-3/4" (44 mm) High

CAT. NO. GCB335
135° Glass-to-Glass
Size: 3-15/16"(100 mm) Wide x 1-3/4" (44 mm) High

Can be used to pivot transom panels above the shower door. Wall Mount and Glass-to-Glass Clamps can be used in any combination. For 135° Clamp, fixed panel should be mitered at 45°.

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: Up to 14 Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Hole Size Required: GCB186: 5/8" (16 mm) or 3/4" (19 mm) diameter hole; GCB188: 5/8" (16 mm) or 3/4" (19 mm) diameter hole in fixed panel, notch in transom; GCB335: 5/8" (16mm) or 3/4" (19mm) diameter hole in fixed panel, notch in transom.
Includes: Gaskets; Mounting Screw for optional wall mounting application
Note: Maximum Transom Size is 12" High by 30" Wide

180° Glass Clamp

CAT. NO. GCB180
Glass-to-Glass
Size: 3-1/4" (83 mm) Wide x 1-3/4" (44 mm) High

Solid Brass 180° Glass Clamps are ideal for fixed transom or inline panel installations in frameless shower enclosures.

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: 12 Stock Finishes
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Fabrication Required: Stud will fit between panels with .394" gap, or you can notch the glass around the screw stud for a tighter gap
Includes: Gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

180° Split Face and "Y" Inline Clamp

CAT. NO. GCB182
Glass-to-Glass
Size: 3-1/2" (89 mm) Wide x 1-3/4" (44 mm) High

This dual purpose Clamp can be used to connect glass panels inline, or as a "Y" Clamp to fasten glass panels flush with edge of marble or tile walls.

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: 12 Stock Finishes
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm) diameter each panel
Includes: Gaskets, Extra Screw for "Y" installations
Note: An additional set of gaskets is required for 5/16" (8mm) glass

180° Double Stud Glass Clamp

CAT. NO. GCB184
Size: 3-1/2" (89 mm) Wide x 1-3/4"(44 mm) High

Double Stud Clamps allow two inline glass panels to be connected together. A hole through each piece of glass provides extra stability and security.

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: 13 Stock Finishes
Glass Thickness Range: 5/16" (8mm) to 1/2" (12mm)
Hole Size Required: 5/8" (16mm) or 3/4" (19mm) diameter each panel
Includes: Gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

CRL Heavy-Duty Glass Clamps

- Forged Extra Thick Glass Clamps for 3/8" (10 mm) to 1/2" (12 mm) Thick Glass
- Square or Beveled Styles Available

FINISHES:

Brass, Chrome, Satin Chrome (Matte), Gold Plated, Brushed Satin Chrome, Brushed Nickel, Polished Nickel, Oil Rub Bronze, Antique Brass

SPECIFICATIONS:

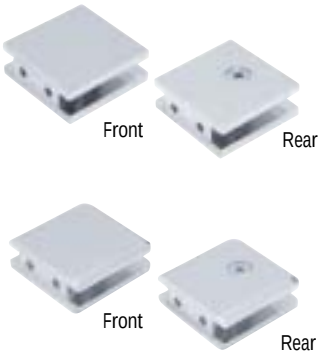
Material: Forged Solid Brass

Glass Thickness Range: 3/8" (10 mm) to 1/2" (12 mm)

Fabrication Required: 3/4" (19 mm) Holes for Glass-to-Glass Clamps; Notch for Wall Mount Clamps.

Includes: Mounting Screws (for Wall Clamps) and Gaskets

Wall Mount Clamps



Clamps mount directly to the wall, ceiling or floor to secure vertical fixed glass panels. Clearance between the glass and wall is from 1/16" to 3/16". Clear silicone can be used to seal the gap and provide a clean, water-tight appearance.

Square Style

CAT. NO. SGCU1

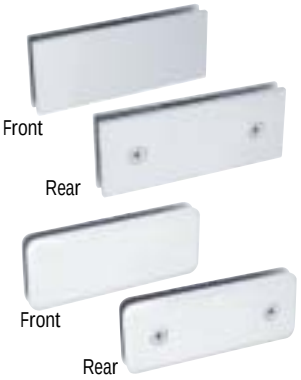
Size: 2" (51 mm) Wide x 2" (51 mm) High

Beveled Style

CAT. NO. BGCU1

Size: 2" (51 mm) Wide x 2" (51 mm) High

180° Glass-to-Glass Clamps



180° Glass-to-Glass Clamps are ideal for fixed transom or inline panel installations in frameless shower enclosures.

Square Style

CAT. NO. SGC180

Size: 5" (127 mm) Wide x 2" (51 mm) High

Beveled Style

CAT. NO. BGC180

Size: 5" (127 mm) Wide x 2" (51 mm) High

135° Glass-to-Glass Clamps

These 135° Glass-to-Glass Clamps are designed to clamp glass panels that meet at a 135° angle.

Square Style

CAT. NO. SGC135

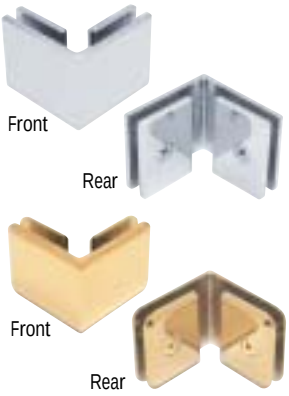
Each Leg Size: 2-1/2" (64 mm) Wide x 2" (51 mm) High

Beveled Style

CAT. NO. BGC135

Each Leg Size: 2-1/2" (64 mm) Wide x 2" (51 mm) High

90° Glass-to-Glass Clamps



These 90° Glass-to-Glass Clamps are designed to clamp glass panels that meet at a 90° angle.

Square Style

CAT. NO. SGC90

Each Leg Size: 2-1/2" (64 mm) Wide x 2" (51 mm) High

Beveled Style

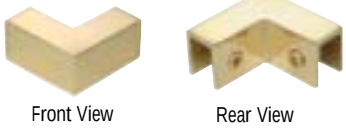
CAT. NO. BGC90

Each Leg Size: 2-1/2" (64 mm) Wide x 2" (51 mm) High

CRL Sleeve Over Glass Clamps

90° Clamp

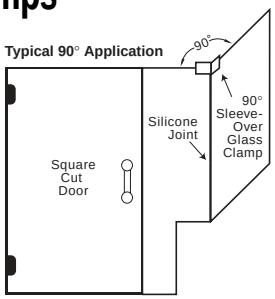
CAT. NO. S0GC90



135° Clamp

CAT. NO. S0GC135

90° and 135° Sleeve Over Glass Clamps were designed to provide a mechanical fastener to cover the shear forces placed on the glass panels. Can also be used to secure the glass panels in position while the applied silicone sealant in the joint cures.



SPECIFICATIONS:

Material: Solid Brass

Available Finishes: Up to Six Stock Finishes

Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)

No Glass Fabrication Required (Clamps tighten using nylon tipped Allen screws)

Includes: Gaskets

Note: These Clamps are not designed to take the place of Headers or a Support Bar. Call CRL Technical Sales for more details.

CRL Shower Interior Shelf Clamps

FINISHES:

Brass, Chrome, Brushed Nickel (FA10 only), Satin Chrome (FA10 and FA12 only)

CAT. NO. FA12

Size: 1-15/16" (49 mm) Wide x 1" (25 mm) Deep

CAT. NO. FA10

Size: 1-1/8" (29 mm) Wide x 1" (25 mm) Deep

CAT. NO. FA11

Size: 3-15/16" (100 mm) Wide x 1" (25 mm) Deep

Solid brass Interior Shelf Clamps can be used to secure a shelf for lightweight shower articles. Clamps should be secured to wall with screws (not included) in studs, or with Molly-type anchors. Nylon tip brass tension screws secure the glass. Maximum 5" (127 mm) glass protusion from wall is recommended. Clamps will hold 5/16" (8 mm) to 3/8" (10 mm) glass, with no glass fabrication required.

CRL Roman Series Clamps and Brackets (Designed to Match Roman Series Hinges) NEW

U-Style Fixed Panel Clamp

CAT. NO. ROM79

Size: 1-3/4" (44 mm) Wide x 1-3/4" (44 mm) High

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: Six Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Hole Diameter Required: 5/8" (16 mm) or 3/4" (19 mm)
Includes: Gaskets and Mounting Screws
Note: An additional set of gaskets is required for 5/16" (8mm) glass

U-Style Fixed Panel Clamps are used to secure fixed panels of glass in frameless shower door installations.

180° Single Stud Glass Clamp

CAT. NO. ROM680

Size: 3-1/4" (83 mm) Wide x 1-3/4" (44 mm) High

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: Six Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Fabrication Required: Stud will fit between panels with .394" gap, or you can notch the glass around the screw stud for a tighter gap
Includes: Gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

180° Glass Clamps are ideal for inline fixed panel or inline transom installations.

180° Double Stud Glass Clamp

CAT. NO. ROM184

Size: 3-1/2" (89 mm) Wide x 1-3/4" (44 mm) High

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: Six Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Hole Diameter Required: 5/8" (16 mm) or 3/4" (19mm) diameter each panel
Includes: Gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

180° Double-Stud Clamps are used to connect two fixed inline glass panels together. Extra stability is achieved by the hole made in each panel to accommodate the clamp's internal studs.

135° Glass Clamp

CAT. NO. ROM135

Size: 1-3/4" (44 mm) Wide x 1-3/4" (44 mm) High (each plate)

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: Six Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Hole Diameter Required: 5/8" (16 mm) or 3/4" (19mm) each panel
Includes: Gaskets

135° Glass Clamps are designed to clamp two fixed panels together that are meeting at a 135° angle.

90° Glass Clamp

CAT. NO. ROM91

Size: 1-3/4" (44 mm) Wide x 1-3/4" (44 mm) High (each plate)

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: Six Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 3/8" (10 mm)
Hole Diameter Required: 5/8" (16 mm) or 3/4" (19mm) each panel
Includes: Gaskets; Wood Screw to be used for optional wall mounting application
Note: An additional set of gaskets is required for 5/16" (8mm) glass

90° Glass Clamps have two versatile applications. They can be used to connect two fixed panels of glass at 90°, or by utilizing the wood screw that is included, used as a shelf bracket or offset wall mounting clamp.

Wall Bracket

CAT. NO. ROM90S

Size: 2-1/8" (54 mm) Wide x 3-1/2" (89 mm) High

SPECIFICATIONS:

Material: Solid Brass
Available Finishes: Six Stock Finishes
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Hole Diameter Required: Two 5/8" (16mm) diameter
Includes: Gaskets and Mounting Screws

Wall Brackets are used to secure fixed panels of glass in frameless shower door installations. The appearance and dimensions are similar to the Roman Hinges themselves, thus satisfying those customers looking for a uniform appearance.

CRL Wall Mount Brackets for Fixed Panels

- **Available in Up to Six Finishes in Our Most Popular Styles**

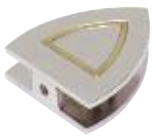
Geneva Pinnacle/Prima Grande Classique Cathedral

- **Plus Many Other Styles Designed to Match Configuration of Hinge Being Used**

For complete information on Wall Mount Brackets contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**

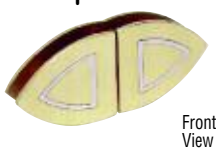
CRL Cathedral Series Clamps

Fixed Panel U-Clamp



CAT. NO. GCB279
Size: 1-3/4" (44 mm) Wide x 2-1/8" (54 mm) High

180° Glass-to-Glass Clamp



CAT. NO. GCB280
Size: 4-5/16" (109 mm) Wide x 1-3/4" (44 mm) High (each plate)

135°Glass-to-Glass Clamp

CAT. NO. GCB235
Size: 2-1/8" (54 mm) Wide x 1-3/4" (44 mm) High (each plate)

90° Glass-to-Glass Clamp

CAT. NO. GCB290
Size: 2-1/8" (54 mm) Wide x 1-3/4" (44 mm) High (each plate)

FINISHES:

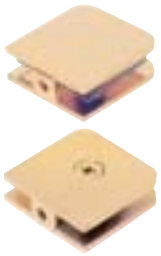
(Predominent Finish/Accent)
- Brass/Chrome
- Chrome/Gold Plated
- Satin Chrome/Chrome
- Gold Plated/Chrome
- White/Chrome

SPECIFICATIONS:

Material: Solid Brass
Glass Thickness Range: 5/16" (8 mm) to 1/2" (12 mm)
Hole Diameter Required: 5/8" (16mm) or 3/4" (19mm) each panel
Includes: Mounting Screw and Gaskets
Note: An additional set of gaskets is required for 5/16" (8mm) glass

CRL Junior Traditional Style Glass Clamps for 1/4" (6 mm) Thick Glass Only

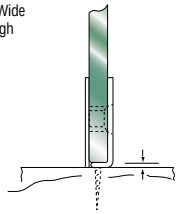
Fixed Panel U-Clamp



CAT. NO. UC66

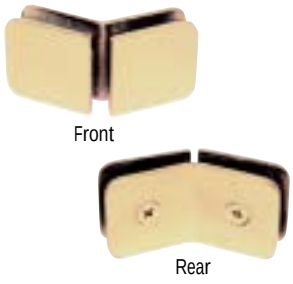
Size: 1-3/4" (44 mm) Wide x 1-3/4" (44 mm) High

Clearance Gap 5/32" to 3/16" (4 mm to 5 mm)



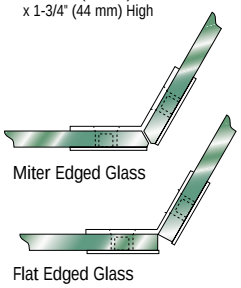
Fixed Panel U-Clamps mount directly to the wall, ceiling or floor to secure vertical fixed glass panels.

135° Glass Clamp



CAT. NO. GCB635

Size: 1-3/4" (44 mm) Wide x 1-3/4" (44 mm) High



These 135° Glass Clamps are designed to clamp glass panels that meet at a 135° angle.

SPECIFICATIONS:

Material: Solid Brass

Available Finishes:

Junior Traditional Style:
Up to Eight Stock Finishes

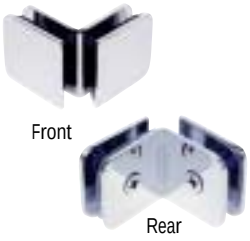
Junior Cathedral Style:
Up to Five Stock Finishes

Glass Thickness Range:
1/4" (6 mm) only

Hole Diameter Required:
5/8" (16 mm) or 3/4" (19 mm) each stud (except 180° models- see diagrams)

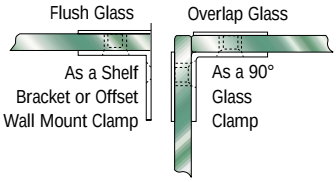
Includes: Gaskets and Mounting Screws

90° Glass Clamp



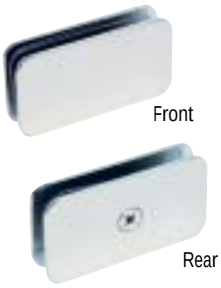
CAT. NO. GCB690

Size: 1-3/4" (44 mm) Wide x 1-3/4" (44 mm) High (each plate)



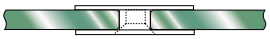
A truly versatile clamp that has two uses: as a 90° clamp for vertical fixed panels in glass shower enclosures; as a bracket for horizontal glass shelves within the enclosure.

180° Glass Clamp



CAT. NO. GCB680

Size: 3-1/4" (83 mm) Wide x 1-3/4" (44 mm) High



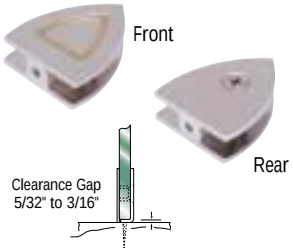
Stud will fit between panels with .394" gap

or you can notch the glass for a tighter gap

Solid Brass 180° Glass Clamps are ideal for fixed transom or inline panel installations in frameless shower enclosures.

CRL Junior Cathedral Style Glass Clamps for 1/4" (6 mm) Thick Glass Only (See Specifications Above)

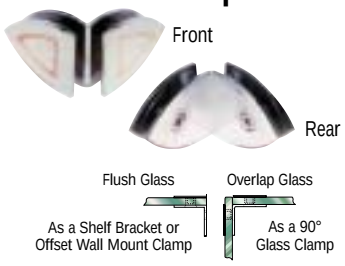
Fixed Panel Clamp



CAT. NO. GCB6279

Size: 1-3/4" (44 mm) Wide x 2-1/8" (54 mm) High

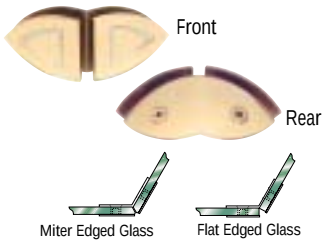
90° Glass Clamp



CAT. NO. GCB6290

Size: 2-1/8" (54 mm) Wide x 1-3/4" (44 mm) High (each plate)

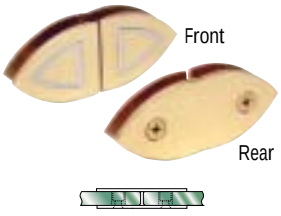
135° Glass Clamp



CAT. NO. GCB6235

Size: 2-1/8" (54 mm) Wide x 1-3/4" (44 mm) High (each plate)

180° Glass Clamp



180° Glass-to-Glass Application (See GCB680 above)

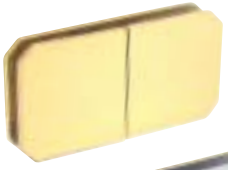
CAT. NO. GCB6280

Size: 4-5/16" (110 mm) Wide x 1-3/4" (44 mm) High

CRL Monaco Glass Clamps

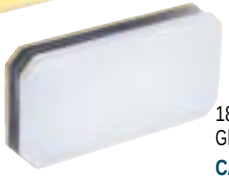
- For 1/4" (6mm) and 5/16" (8mm) Thick Glass
- Same Design as Our Monaco Hinge Series
- Available in Five Finishes
- Requires Holes in Glass

For complete details and specifications on all Glass Clamps, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**



180° Split Face Glass-to-Glass

CAT. NO. M0682

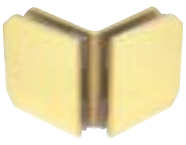


180° Double Stud Glass-to-Glass

CAT. NO. M0684

135° Glass-to-Glass

CAT. NO. M0635



90° Glass-to-Glass

CAT. NO. M0690

Fixed Panel U-Clamp

CAT. NO. M0638

CRL U-Channel

- **Profiles for Fixed Panels and Swinging Doors**
- **Now Available in Up to Eleven Finishes**

We offer three profiles of Aluminum U-Channels for shower door installations. The Fixed Panel Regular and Deep U-Channels are for securing fixed panels of glass to the wall, ceiling or floor. The U-Channel with Wipe is ideal for waterproofing the bottom of the door. Wipe is dual durometer translucent vinyl that can be trimmed for exact fit. Widths suitable for 3/8" (10 mm) or 1/2" (12 mm) glass are available in each style, and are individually wrapped to protect the finish. Use our 99AS Aquarium Silicone to secure glass in the channel.

Typical Installation of Fixed Panel U-Channel

Coming Soon!
U-Channel End Caps in Matching Finishes

SPECIFICATIONS:

Material: Extruded Aluminum

Finishes: Brite Anodized, Brite Gold Anodized, Anodized, Brushed Anodized, Polished Nickel, Brushed Nickel, Satin Brass, Antique Brass, Oil Rub Bronze, White and Black.

Note: Regular U-Channel and U-Channel with Wipe are only available in a limited number of finishes

Stock Length: 98" (2.5 meters)

Deep U-Channel

This 3/4" high profile Deep U-Channel can be used as the top channel in installations where the glass must be inserted into the top channel, then lowered into the Regular U-Channel.

SDCD38BA	Brite Anodized	3/8" (10 mm)
SDCD38BGA	Brite Gold Anodized	3/8" (10 mm)
SDCD38A	Anodized	3/8" (10 mm)
SDCD38AB	Brushed Anodized	3/8" (10 mm)
SDCD38PN	Polished Nickel	3/8" (10 mm)
SDCD38BN	Brushed Nickel	3/8" (10 mm)
SDCD38SB	Satin Brass	3/8" (10 mm)
SDCD38ABR	Antique Brass	3/8" (10 mm)
SDCD38ORB	Oil Rub Bronze	3/8" (10 mm)
SDCD38W	White	3/8" (10 mm)
SDCD38BL	Black	3/8" (10 mm)
SDCD12BA	Brite Anodized	1/2" (12 mm)
SDCD12BGA	Brite Gold Anodized	1/2" (12 mm)
SDCD12A	Anodized	1/2" (12 mm)
SDCD12AB	Brushed Anodized	1/2" (12 mm)
SDCD12PN	Polished Nickel	1/2" (12 mm)
SDCD12BN	Brushed Nickel	1/2" (12 mm)
SDCD12SB	Satin Brass	1/2" (12 mm)
SDCD12ABR	Antique Brass	1/2" (12 mm)
SDCD12ORB	Oil Rub Bronze	1/2" (12 mm)
SDCD12W	White	1/2" (12 mm)
SDCD12BL	Black	1/2" (12 mm)

Profiles and finishes can be combined for quantity pricing.

Regular U-Channel

Regular U-Channel has a low profile. The 3/8" height allows for maximum glass exposure. Most commonly used on the bottom and sides of fixed panels.

SDCR38BA	Brite Anodized	3/8" (10 mm)
SDCR38BGA	Brite Gold Anodized	3/8" (10 mm)
SDCR38BN	Brushed Nickel	3/8" (10 mm)
SDCR12BA	Brite Anodized	1/2" (12 mm)
SDCR12BGA	Brite Gold Anodized	1/2" (12 mm)
SDCR12BN	Brushed Nickel	1/2" (12 mm)

Profiles and finishes can be combined for quantity pricing.

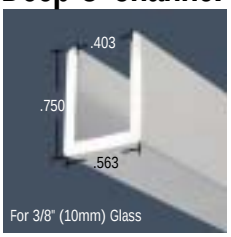
U-Channel with Wipe

This door bottom mounted U-Channel with Wipe has a 1/2" profile, which makes an even sight line when used next to a fixed panel glazed with Deep U-Channel on the bottom.

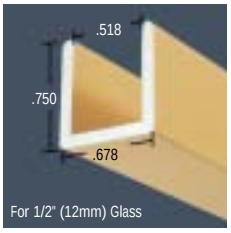
SDW38BA	Brite Anodized	3/8" (10 mm)
SDW38BGA	Brite Gold Anodized	3/8" (10 mm)
SDW38SC	Anodized	3/8" (10 mm)
SDW12BA	Brite Anodized	1/2" (12 mm)
SDW12BGA	Brite Gold Anodized	1/2" (12 mm)

Profiles and finishes can be combined for quantity pricing.

Fixed Panel Deep U-Channel

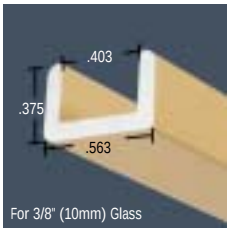


CAT. NO. SDCD38 — For 3/8" (10mm) Glass

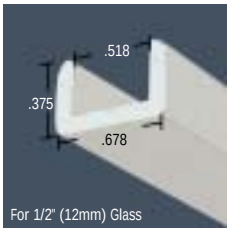


CAT. NO. SDCD12 — For 1/2" (12mm) Glass

Fixed Panel Regular U-Channel

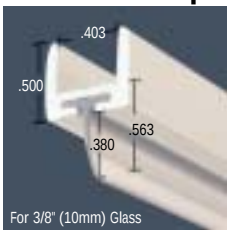


CAT. NO. SDCR38 — For 3/8" (10mm) Glass

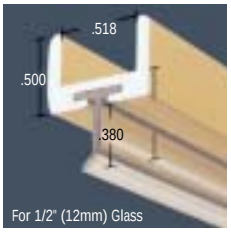


CAT. NO. SDCR12 — For 1/2" (12mm) Glass

Shower Door U-Channel with Wipe



CAT. NO. SDW38 — For 3/8" (10mm) Glass



CAT. NO. SDW12 — For 1/2" (12mm) Glass

CRL Deluxe Shower Door Header Kit

Fits 5/16" (8 mm), 3/8" (10 mm) and 1/2" (12 mm) Thick Glass

- Secures Shower Enclosure Not Going to Ceiling
- Snap-in Filler Insert for Door Pocket Included
- Available in Up to Eleven Finishes

The Deluxe Header Kit will provide additional support and a level of safety while securing glass panels not reaching the ceiling. Deluxe Header Kits are designed to allow installers to do in-house fabrication using a selection of component parts. Sold in 66", 98" or 144" lengths, the double profile extrusion has a narrow 1-1/4" face to minimize the visible sight line. A choice of facing edges (round or flat with mitered edges) is possible by simply reversing the extrusion. 90°, 135° or Adjustable Corners are sold separately. Also available is a special Adapter Block for use on pivot hinge installations. A 2-1/4" Blank Mounting Bracket is offered for installations when the Header does not meet the wall at 90°, and the standard Wall Mounting Brackets cannot be used. Header is constructed of Aluminum Alloy 6463. This Header Kit is adaptable to Senior Prima or Prima Hinges. Junior Prima Hinges should be used with the Junior Header Kit on next page.

New Finishes

98" DELUXE HEADER KITS

SDH980BA	Brite Anodized
SDH980BGA	Brite Gold Anodized
SDH980A	Anodized
SDH980AB	Brushed Anodized
SDH980PN	Polished Nickel
SDH980BN	Brushed Nickel
SDH980SB	Satin Brass
SDH980ABR	Antique Brass
SDH980ORB	Oil Rub Bronze
SDH980W	White
SDH980BL	Black

Sizes and Finishes can be combined for quantity pricing.

New Size

144" DELUXE HEADER KITS

SDH144BA	Brite Anodized
SDH144BGA	Brite Gold Anodized

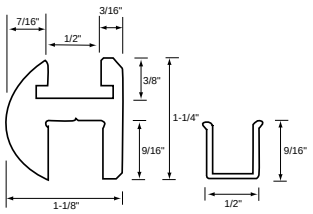
(Cannot ship via UPS)

66" DELUXE HEADER KITS

SDH660BA	Brite Anodized
SDH660BGA	Brite Gold Anodized
SDH660W	White
SDH660BL	Black

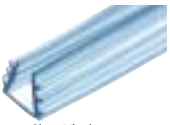
EACH KIT CONSISTS OF:

- 66", 98" or 144" Piece Header Extrusion (One Round Side, One Flat Side)
- 36" Piece Snap-In Filler for Door Pocket (Trim to Size)
- Vinyl for 5/16" and 3/8" Glass (Not Required for 1/2" Glass)
- One Set of SHB100 Aluminum Wall Mounting Brackets



Deluxe Header Extrusion

Snap-In Filler Insert (Fits in Header Above Door)



Clear Vinyl

Aluminum Wall Mounting Brackets Included in Kit. May Also Be Ordered Separately. (Two per Pack)

CRL Deluxe Header Kit Accessories (Sold Separately)

- Top and Bottom Pivot Hinges Require the Use of an Adapter Block

CAT. NO. SHB100
Aluminum Wall Mounting Brackets Included in Kit. May Also Be Ordered Separately. (Two per pack with screws)

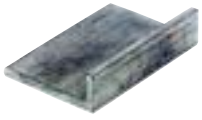
CAT. NO. HAB01
Adapter Block for Prima, Shell and Rondo Hinges (Screw Provided)

CAT. NO. SRHAB01
Senior Adapter Block for Senior Prima Hinges (Screw Provided)

CAT. NO. BWB2
Brass Wall Mounting Brackets (Two per pack with screws)

CAT. NO. BHC135
Brass 135° Header Corner (With Screws)

CAT. NO. BHC90
Brass 90° Header Corner (With Screws)



CAT. NO. SHB225
2-1/4" Aluminum Blank Mounting Bracket for Angled Applications Where Header Does Not Meet Wall at 90°

CAT. NO. CD395
135° Aluminum Fixed Corner (Screws Provided)

CAT. NO. CD390
90° Aluminum Fixed Corner (Screws Provided)

CAT. NO. CD373
Adjustable Aluminum Corner (Screws Provided)

BRASS HEADER CORNERS

BHC90	90°
BHC135	135°

ALUMINUM HEADER CORNERS

CD373	Adjustable
CD390	90°
CD395	135°

ALUMINUM WALL MOUNTING BRACKETS

SHB100	Standard Wall Mounting Brackets (2/pk)
SHB225	2-1/4" Blank Mounting Bracket (used when Header does not meet wall at 90°)

BRASS WALL MOUNTING BRACKETS

BWB2	Standard Wall Mounting Brackets (2/pk)

ADAPTER BLOCKS USED WITH PRIMA, RONDO OR SHELL HINGES

HAB01BA	Brite Anodized and Polished Nickel
HAB01BGA	Brite Gold Anodized and Satin Brass
HAB01SC	Anodized (Satin Chrome)
HAB01BSC	Brushed Anodized (Brushed Satin Chrome)
HAB01BN	Brushed Nickel
HAB01ORB	Oil Rub Bronze and Antique Brass
HAB01BL	Black
HAB01W	White

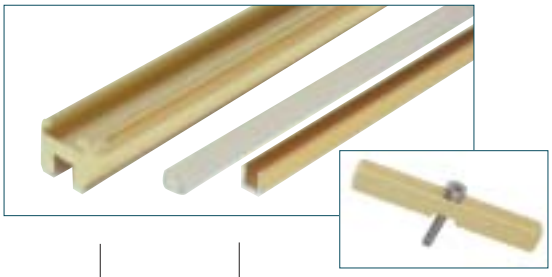
SENIOR ADAPTER BLOCKS USED WITH SENIOR PRIMA HINGES

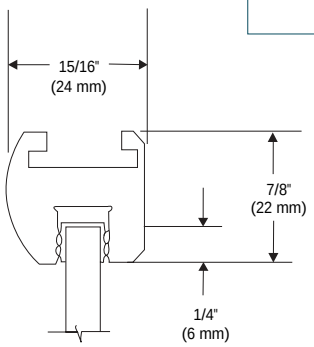
SRHAB01BA	Brite Anodized and Polished Nickel
SRHAB01BGA	Brite Gold, Oil Rub Bronze, Antique or Satin Brass
SRHAB01BN	Brushed Nickel
SRHAB01SC	Anodized and Brushed Anodized
SRHAB01BL	Black
SRHAB01W	White

CRL Junior Header Kit for 1/4" (6 mm) Thick Glass

- **Secures Enclosures Not Going to Ceiling**
- **98" Lengths in a Choice of Three Finishes**

The Junior Header Kit for 1/4" (6 mm) thick glass provides support to shower enclosures not going all the way to the ceiling. Installers can do in-house or jobsite fabrication using the components provided. The Kits contain all items needed for installation, except the JRHAB01 Adapter Block. This item must be purchased separately if using with Junior Prima Hinges. The Kit includes the Header, Metal Snap-in Filler Insert for door, Vinyl, Wall Brackets and Corners.





98" JUNIOR HEADER KIT

CAT. NO.	FINISH
HEADER06BR	Bright Gold Anodized
HEADER06CH	Bright Anodized
HEADER06W	White

Finishes can be combined for quantity pricing.

JUNIOR ADAPTER BLOCK

CAT. NO.	FINISH
JRHAB01BGA	Bright Gold Anodized
JRHAB01BA	Bright Anodized
JRHAB01W	White

EACH JUNIOR HEADER KIT CONTAINS:

- 98" Header Extrusion (One Round Side, One Flat Side)
- 36" Snap-In Filler for Door Pocket (Trim to Size)
- Vinyl for 1/4" Thick Glass
- One Set of Aluminum Wall Mounting Brackets
- Six Angle Corners (Two Adjustable, Two Fixed 90° and Two Fixed 135°)

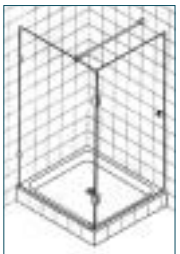
Ordered Separately:

- Junior Adapter Block (for use with Junior Prima Hinge only)

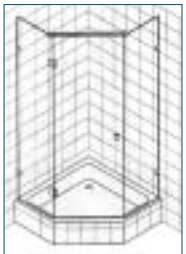
CRL Fixed Panel Support Bars

- **Provides Fixed Panel Support for Enclosures Not Going to Ceiling**
- **No Hole Drilling Required**

The Fixed Panel Support Bar will stabilize fixed panels of glass in enclosures that do not go all the way up to the ceiling. The Wall-to-Glass Bar has a bell-shaped clamping device on the wall side, and a solid brass end cap with a swiveling U-shaped receptacle to secure the fixed panel. The Glass-to-Glass Bar has a solid brass end cap with a U-shaped swiveling receptacle on both sides to secure each fixed panel. Nylon-tipped set screws secure the glass and prevent glass-to-metal contact. No holes or cut-outs required.



Typical Wall-to-Glass Installation



Typical Glass-to-Glass Installation

SPECIFICATIONS:

Material: 3/4" (19 mm) Diameter Tubular Brass Bar, Solid Brass End Caps

Finishes: Up to 12 Stock Finishes

Bar Length: 39" (1 meter); 51" (1.3 meter); (51" Bar Offered in Selected Models and Finishes)

Glass Thickness Range: 1/4" (6 mm) to 1/2" (12 mm)

Includes: All Required Mounting Hardware

Wall-to-Glass Bar

For 1/4" (6 mm) to 5/16" (8 mm) Glass

39" Length (1 meter)
CAT. NO. SUP06XX
(51" Custom Order Only)

For 3/8" (10 mm) to 1/2" (12 mm) Glass

39" Length (1 meter)
CAT. NO. SUP10XX

51" Length (1.3 meter)
CAT. NO. SUP10XX51

(xx = fill in finish desired)

Glass-to-Glass Bar

For 1/4" (6 mm) to 5/16" (8 mm) Glass

39" Length (1 meter)
CAT. NO. SUP26XX
(51" Custom Order Only)

For 3/8" (10 mm) to 1/2" (12 mm) Glass

39" Length (1 meter)
CAT. NO. SUP20XX

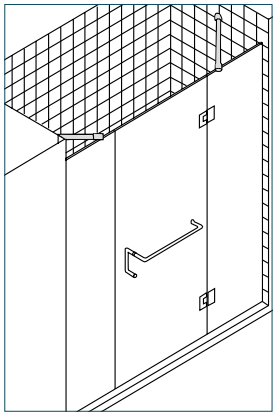
51" Length (1.3 meter)
CAT. NO. SUP20XX51

(xx= fill in finish desired)

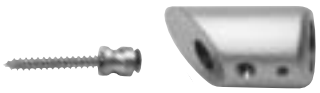
CRL Support Bar Accessories

The Mitered Support Bar Bracket is designed to attach to the wall by slipping over a screw mounted stud that is secured into the wall. Perfect for an inline panel needing to be secured to an adjacent wall for stability. The Bracket fits on any Fixed Panel Support Bar.

Other accessories offered include a 51" (1.3 meter) Bar and other various replacement attachments. (See photos at right).



Typical Application of Mitered Support Bar Bracket



Mitered Support Bar Bracket
CAT. NO. SBB45

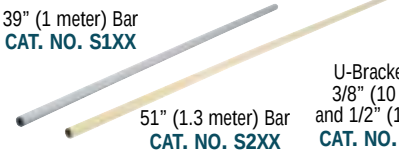
CAT. NO.	FINISH
SBB45BR	Brass
SBB45CH	Chrome
SBB45SB	Satin Brass
SBB45SC	Satin Chrome
SBB45GP	Gold Plated
SBB45PN	Polished Nickel
SBB45BN	Brushed Nickel
SBB45PW	Brushed Pewter
SBB45W	White
SBB45BL	Black
SBB45RD	Red

CAT. NO.	DESCRIPTION
S1XX	39" (1 meter) Bar Only
S2XX	51" (1.3 meter) Bar Only
S3XX	Standard Wall Bracket
S4XX	U-Bracket for 1/4" (6 mm) and 5/16" (8 mm) Glass
S5XX	U-Bracket for 3/8" (10 mm) and 1/2" (12 mm) Glass

XX= Fill in Finish Desired

Standard Wall Bracket
CAT. NO. S3XX

U-Bracket for 1/4" (6 mm) and 5/16" (8 mm)
CAT. NO. S4XX



39" (1 meter) Bar
CAT. NO. S1XX

51" (1.3 meter) Bar
CAT. NO. S2XX

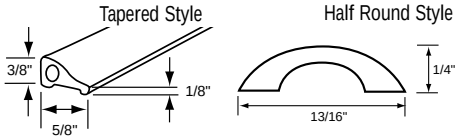
U-Bracket for 3/8" (10 mm) and 1/2" (12 mm)
CAT. NO. S5XX

CRL Shower Door Threshold

- Assists Watershed Back into Shower
- Perfect for Flat or Out-Sloping Curbs
- Available in Up to Four Finishes

CAT. NO. S1L001
Tapered Style

CAT. NO. SDT980
Half Round Style



The Shower Door Threshold is mounted directly below the shower door to let the water drain back into the shower stall. The rounded low contour of the Half Round Threshold will not harm feet. The Tapered Style Sill leaves a minimal sightline from the exterior of the shower. Thresholds may be used in conjunction with a bottom sweep. Use CRL Mildew Resistant Silicone Sealant to adhere to curb of shower stall. 98" stock lengths.

CRL 1/4" Deep Nose "J" Channel

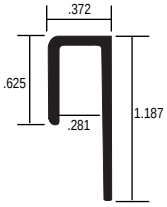
- 11 Finishes
- 12' Stock Lengths

NEW! BRUSHED NICKEL FINISH

See Page F220 for more information

CAT. NO.	FINISH
D645A	Satin Anodized
D645P	Polished
D645BA	Buffed Bright Anodized
D645DBA	Dipped Bright Anodized
D645GA	Satin Gold Anodized
D645BGA	Buffed Bright Gold Anodized
D645DBGA	Dipped Bright Gold Anodized
D645BL	Black Electro-Static Paint
D645BRZ	Bronze Electro-Static Paint
D645W	White Electro-Static Paint
D645BN	Brushed Nickel

Finishes can be combined for quantity pricing.



CRL 1/4" Standard "J" Channel

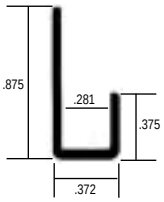
- 11 Finishes
- 12' Stock Lengths

NEW! BRUSHED NICKEL FINISH

See Page F220 for more information

CAT. NO.	FINISH
D636A	Satin Anodized
D636P	Polished
D636BA	Buffed Bright Anodized
D636DBA	Dipped Bright Anodized
D636GA	Satin Gold Anodized
D636BGA	Buffed Bright Gold Anodized
D636DBGA	Dipped Bright Gold Anodized
D636BL	Black Electro-Static Paint
D636BRZ	Bronze Electro-Static Paint
D636W	White Electro-Static Paint
D636BN	Brushed Nickel

Finishes can be combined for quantity pricing.



CRL Cleret Elite Squeegee

- Makes an Ideal Gift to Customer After Completing Installation

The Cleret Elite Bath Squeegee has decorative gold or chrome plated end caps on white or black wiping blades and handles. This upscale combination of function and design makes it easy to wipe water spots from shower doors, tile and marble surfaces. Dual 10" blades are held in an 8" handle.

CAT. NO.	HANDLE/BLADE COLOR	CAP COLOR
EWCW1	White	Chrome
EWGW1	White	Gold
EBCB1	Black	Chrome
EBGB1	Black	Gold

CRL Water Clear Silicone Sealant

- Clear Formulation for Sealing Glass-to-Glass, Glass-to-Tile and Glass-to-U Channel
- Available in Two Sizes

Water Clear Silicone Sealant will provide exceptional clarity, making it the ideal sealant to use in frameless shower enclosures, specialty glass assemblies and glass block installations. It is easily applied, and will cure in the presence of atmospheric moisture.

CAT. NO.	COLOR	CONTENTS
WCS1	Water Clear	10.3 Fl. Oz.
WCS5	Water Clear	5.0 Fl. Oz.

All Silicone Sealants can be combined for quantity pricing.

CRL Mildew Resistant Silicone Sealant

- Best Choice for Use in Shower Enclosures

Our Mildew Resistant Silicones come in clear and translucent white. This formulation makes them your best choice for use in tub and shower enclosures, and other bathroom installations. It cures rapidly with excellent adhesion to withstand the extreme conditions found in the typical bathroom to remain flexible, with no cracking or shrinking.

CAT. NO.	COLOR	CONTENTS
33SMRC	Clear	10.3 Fl. Oz.
33STW	Translucent White	10.3 Fl. Oz.

All Silicone Sealants can be combined for quantity pricing.

CRL Frameless Sliding Shower Door Kits and Frameless Hinged KD Door Kits

- An Assortment of Choices for 1/4" (6 mm) to 3/8" (10 mm) Thick Glass

CALL FOR DETAILS!

Extrusions and Kits for 1/4" (6 mm) and 3/8" (10 mm) Glass Sliding Shower Doors

Stock Kits include: Aluminum Extrusions, 24" Towel Bar, Knob, Hardware Package and Installation Instructions. (Glass Not Included). Custom sizes and finishes are available.

Hinged K.D. Door Kits for 1/4" (6 mm) Glass

Coming Soon! Frameless Hinged K.D. Door Kits for 3/8" (10 mm) Glass

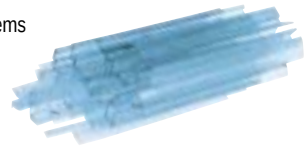
Stock Kits include: Hinge Jamb Assembly with Hinges and Fin Seal Attached, "Slip Over the Edge" Magnetic Latch Handle, Door Seals, and Hardware Package. (Glass Not Included). Custom sizes and finishes are available.

CRL Clear Polycarbonates, Vinyl Seals and Edge Wipes

- Over 20 Various Configurations
- All Varieties Can Ship Via UPS

Profile Set Contains 6" Pieces of All Items

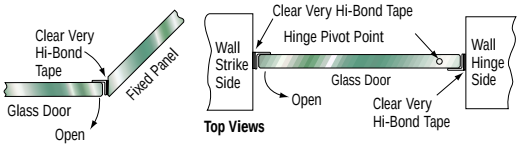
CAT. NO. PVPS95



Our Most Popular Styles

Multi-Purpose Polycarbonate Angle Jamb

This clear Polycarbonate Angle Jamb is used for both hinge and strike jambs. It can be adhered to the wall or a fixed panel using our Clear Very Hi-Bond Tape.

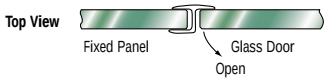


P12LJ	1/4" (6 mm) to 1/2" (12 mm)

98" Stock Length

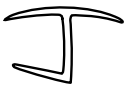
Polycarbonate "h" Jamb for 180°

This clear Polycarbonate "h" Jamb is for use on 180° inline glass-to-glass applications. Snap onto the fixed panel with the lip on the strike side, or onto the door with the lip on the hinge side.



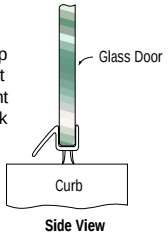
P140HJ	1/4" (6 mm)
P516HJ	5/16" (8 mm)
P380HJ	3/8" (10 mm)
P120HJ	1/2" (12 mm)

98" Stock Length



Co-Extruded Clear Bottom Wipe with Drip Rail

The Clear Bottom Wipe with Drip Rail snaps onto bottom of door. Soft wipes on bottom create a water tight seal. 45° Drip Rail sheds water back into the shower stall.

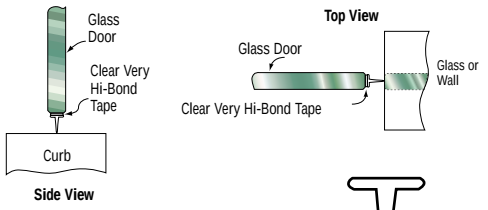


P914WS	1/4" (6 mm)
P956WS	5/16" (8 mm)
P990WS	3/8" (10 mm)
P912WS	1/2" (12 mm)

98" Stock Length

Translucent Vinyl Edge "T" Wipe

Translucent "T" shaped Edge Wipe can be used on inswing or outswing doors. Closes gaps up to 7/16" and can be trimmed for smaller gaps. Adhere 5/16" rigid base to glass edge or wall using our Clear Very Hi-Bond Tape.

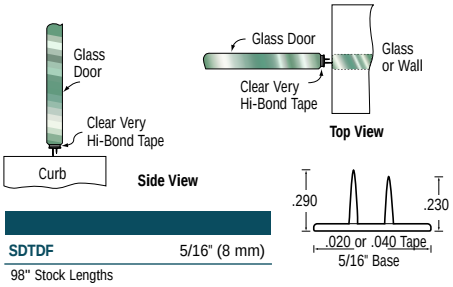


SDTW	7/16" (11 mm)

98" Stock Length

Translucent Vinyl "Double Fin" Seal

Translucent "Double Fin" Seal can be used for inswing or outswing doors. The two different size fins allow the installer a choice of seal lengths. Use as is, or simply trim the legs as necessary. Adhere 5/16" rigid base to glass edge or wall using our Clear Very Hi-Bond Tape.

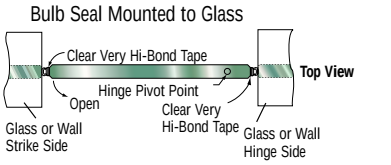


SDTDF	5/16" (8 mm)

98" Stock Lengths

Translucent Vinyl Bulb Seal

Translucent Vinyl Bulb Seal can be used on inswing or outswing doors. SDTB closes gaps from 5/32" to 7/32". SDTJ closes gaps from 1/8" to 5/32". Adhere rigid 1/4" flat base to glass edge or wall using our Clear Very Hi-Bond Tape.



SDTJ	5/32" (4 mm)
SDTB	7/32" (5.6 mm)

98" Stock Lengths

CRL Very Hi-Bond Double-Sided Acrylic Adhesive Tape

- Excellent for Use with Clear Polycarbonates, Seals and Wipes
- Instant Pressure Sensitive Bonding; Full Strength in 72 Hours
- Transparent Water Clear or Translucent Color Choice

Available in 36 Ft Mini Rolls

CRL Transparent Double-Sided Very Hi-Bond Acrylic Tape is used in adhesive applications involving glass or other clear materials, making it ideal for adhering Clear Polycarbonates, Edge Wipes and Seals used in frameless shower installations.

CRL Translucent Double-Sided Very Hi-Bond Acrylic Tape is designed for a variety of applications, including skin-to-frame assemblies, furniture, appliances and whenever a waterproof bond in a wide range of temperature conditions exist.

AT04014	1/4" (6 mm)	.040" (1 mm)	108 (33 m)	Transparent
AT0401436	1/4" (6 mm)	.040" (1 mm)	36 (11 m)	Transparent
AT04012	1/2" (12 mm)	.040" (1 mm)	108 (33 m)	Transparent
AT0401236	1/2" (12 mm)	.040" (1 mm)	36 (11 m)	Transparent
AT02014	1/4" (6 mm)	.020" (.5 mm)	216 (66 m)	Transparent
AT0201436	1/4" (6 mm)	.020" (.5 mm)	36 (11 m)	Transparent
AT04512	1/2" (12 mm)	.045" (1.1 mm)	108 (33 m)	Translucent
AT04534	3/4" (19 mm)	.045" (1.1 mm)	108 (33 m)	Translucent
AT0451	1" (25 mm)	.045" (1.1 mm)	108 (33 m)	Translucent
AT0452	2" (50 mm)	.045" (1.1 mm)	108 (33 m)	Translucent

CRL Transparent and Translucent Adhesive Tapes

- Instantly Adheres Wipes and Seals Evenly and Securely
- 3M™ VHB™ Tape Attains Full Strength Within 72 Hours

Transparent 3M™ VHB™ Double-Sided Tape (Used to adhere to Wipes and Seals)

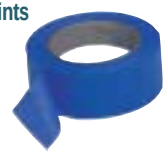
Transparent 3M™ Single-Sided Tape (Protects against glass-to-glass chipping)

CRL Translucent Double-Sided Tape (Used to adhere to Wipes and Seals)

491014	1/4" (6 mm)	.040" (1 mm)	108 (33 m)	Transparent Double-Sided
491012	1/2" (12 mm)	.040" (1 mm)	108 (33 m)	Transparent Double-Sided
490514	1/4" (6 mm)	.020" (.5 mm)	216 (66 m)	Transparent Double-Sided
867238	3/8" (10 mm)	.006" (.2 mm)	108 (33 m)	Transparent Single-Sided
SDT51660	5/16" (8 mm)	.005" (.2 mm)	108 (33 m)	Translucent Double-Sided

CRL Blue Joint Framing Tape

- Ideal for Framing Tooled Silicone Joints
- Three Widths to Choose From



BL9934	3/4" (19 mm)	180 (55 m)
BL991	1" (25 mm)	180 (55 m)
BL992	2" (51 mm)	180 (55 m)

This Blue Joint Framing Tape is a crepe paper tape with built-in U.V. resistance. Excellent for use as a masking tape around tooled silicone joints in frameless shower door applications.

CRL Standoff Display System

- **Infinite Design Options Including Signage, Furniture and Retail Display**
- **Can Be Used Indoors or Outdoors and Combined with CRL's New Edge Grips or Swivel Fittings to Create Unique Displays**

In display or furniture manufacturing, the innovative design achieves maximum exposure and attention. CRL is expanding its line of display hardware by introducing the new Standoff Display System. This modern concept provides the user with unlimited design potential for retail store, restaurant or commercial applications. By simply drilling holes in glass or wood panels, and polishing or finishing the edges, a completely new look can be achieved by creating a contemporary design. Available in: Brass, Chrome, Brushed Stainless, Polished Stainless and Satin Chrome finishes, the CRL Standoff Display System is high tech in both design and appearance. Standoff Base and Cap Assemblies are available in 1/2", 3/4" and 1-1/4" diameters, and come in incremental lengths from 1/4" to 6".

GRAPHIC ARTS

FURNITURE

DISPLAYS

SIGNAGE

FINISH LENGTH	BRASS CAT. NO.	CHROME CAT. NO.	SATIN CHROME CAT. NO.
3/4"	SOB3434BR	SOB3434CH	SOB3434SC
1"	SOB341BR	SOB341CH	SOB341SC
1-1/2"	SOB34112BR	SOB34112CH	SOB34112SC
2"	SOB342BR	SOB342CH	SOB342SC
4"	SOB344BR	SOB344CH	SOB344SC
6"	SOB346BR	SOB346CH	SOB346SC

Note: Maximum material thickness for use with 3/4" diameter Standoff Bases is 1/2". All Standoff Bases can be combined for quantity pricing.

3/4" Diameter Standoff Bases

The vast variety of finishes and lengths gives our 3/4" Standoff Base and Cap assemblies unlimited potential for medium weight glass displays or signage. Panels require 1/2" holes for assembly.

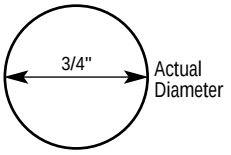
Cap Assemblies for 3/4" Standoffs

CAT. NO.	FINISH
CAP34BR	Brass
CAP34CH	Chrome
CAP34SC	Satin Chrome

All Standoff Cap Assemblies can be combined for quantity pricing.

3/4" CAP ASSEMBLIES CONSIST OF:
1 ea. Cap with Screw
2 ea. Washers
1 ea. Vinyl Sleeve

Brass Chrome Satin Chrome

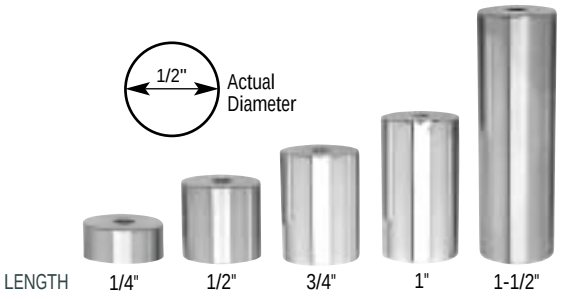


1/2" Diameter Standoff Bases

An assortment of lengths make our 1/2" Standoff Base and Cap assemblies the ideal solution for lighter weight glass displays or signage. Panels require 5/16" holes for assembly. Two Stainless finishes (Brushed and Polished) are available.

FINISH LENGTH	BRUSHED STAINLESS CAT. NO.	POLISHED STAINLESS CAT. NO.
1/4"	S0B1214BS	S0B1214PS
1/2"	S0B1212BS	S0B1212PS
3/4"	S0B1234BS	S0B1234PS
1"	S0B121BS	S0B121PS
1-1/2"	S0B12112BS	S0B12112PS

NOTE: Maximum material thickness for use with 1/2" diameter Standoff Bases is 1/4". All Standoff Bases can be combined for quantity pricing.



Cap Assemblies for 1/2" Standoffs

CAT. NO.	FINISH
CAP12BS	Brushed Stainless
CAP12PS	Polished Stainless

All Standoff Cap Assemblies can be combined for quantity pricing.

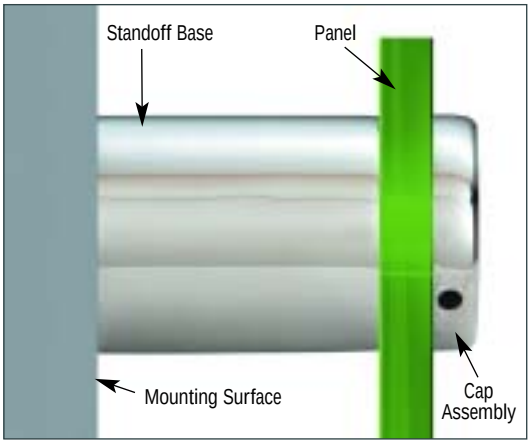
1/2" CAP ASSEMBLIES CONSIST OF:
1 ea. Cap
2 ea. Washers
1 ea. 1-1/2" Allen Screw

Brushed Polished

CRL now provides custom fabrication of 1/2", 3/4", 1-1/4" and 2" diameter Standoff Bases. Finishes available are: Polished Stainless, Brushed Stainless, Satin Chrome and Brass. Additional finishes are available by special quote. Custom Standoff Caps may also be ordered to match Standoff Bases.

Due to the diversified variety of applications, weight limitations for Standoff Systems are dependent upon wall or substrate anchoring.

How CRL Standoffs Work



Mounting Options

Concrete Anchors

Used when installing Standoffs into concrete or stone. The diameter of the hole must not exceed the diameter of the anchor barrel, and the hole length should not be longer than the barrel minus the projection at the end of the anchor. The Anchor is then inserted into the hole and tapped with a hammer. This causes the projection to expand the barrel and lock itself into the hole. The bolt is fully tightened and then removed. Standoffs can now be installed into the wall using Allen Screws or Threaded Rod.

Hanger Bolts

Can be used when installing Standoffs into wood surfaces. The threaded rod portion is first screwed into the Standoff Base, then the other end is installed into plywood or wood studs. Can also be used with plastic anchors.

Tee Nuts

Installations into plywood or drywall can utilize Tee Nuts if there is access to the back surface of the wall. Installed on the reverse side of the mounting surface, the Tee Nut is inserted into a drilled hole.The Allen Screw or Threaded Rod, already installed in the Standoff Base, is then screwed into the Tee Nut.

Allen Screws / Threaded Rods

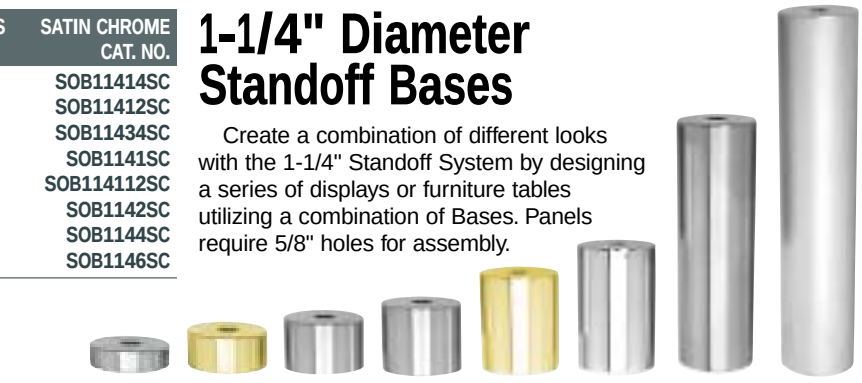
Depending on the type and thickness of the surface, either the Allen Screw or Threaded Rod may be the solution for installing Standoffs. Allen Screws are available in six different lengths, while Threaded Rod comes in lengths of 36 inches, which can be custom cut to any desired length. Allen Screws and Threaded Rod work with Concrete Anchors, Tee Nuts, Hex Nuts and Nylock Hex Nuts.

FINISH LENGTH	BRASS CAT. NO.	CHROME CAT. NO.	BRUSHED STAINLESS CAT. NO.	SATIN CHROME CAT. NO.
1/4"	SOB11414BR	SOB11414CH	SOB11414BS	SOB11414SC
1/2"	SOB11412BR	SOB11412CH	SOB11412BS	SOB11412SC
3/4"	SOB11434BR	SOB11434CH	SOB11434BS	SOB11434SC
1"	SOB1141BR	SOB1141CH	SOB1141BS	SOB1141SC
1-1/2"	SOB114112BR	SOB114112CH	SOB114112BS	SOB114112SC
2"	SOB1142BR	SOB1142CH	SOB1142BS	SOB1142SC
4"	SOB1144BR	SOB1144CH	SOB1144BS	SOB1144SC
6"	SOB1146BR	SOB1146CH	SOB1146BS	SOB1146SC

Note: Maximum material thickness for use with 1-1/4" diameter Standoff Bases is 1-3/8".
All Standoff Bases can be combined for quantity pricing.

1-1/4" Diameter Standoff Bases

Create a combination of different looks with the 1-1/4" Standoff System by designing a series of displays or furniture tables utilizing a combination of Bases. Panels require 5/8" holes for assembly.



Cap Assemblies for 1-1/4" Standoffs

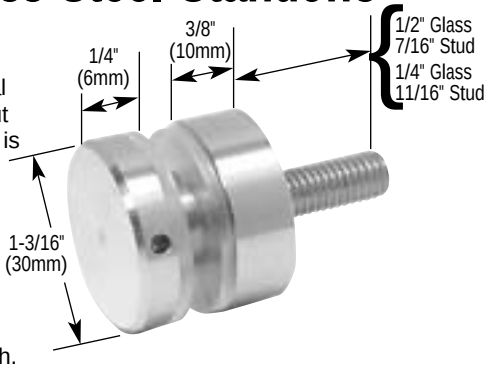
CAT. NO.	FINISH
CAP114BR	Brass
CAP114BS	Brushed Stainless
CAP114CH	Chrome
CAP114SC	Satin Chrome
CAPF114BS	Brushed Stainless (Flush Cap)

All Standoff Cap Assemblies can be combined for quantity pricing.

1-1/4" CAP ASSEMBLIES CONSIST OF:
1 ea. Cap
1 ea. 1" Allen Screw
2 ea. Washers
1 ea. Vinyl Sleeve

CRL Stainless Steel Standoffs

These Standoffs are used to secure a lite of glass to a threaded metal bracket or column without using a frame. The glass is fabricated with the required holes, tempered and secured with the Standoffs to create a frameless appearance. End Caps are secured with the Optional Spanner Wrench.



SPECIFICATIONS:

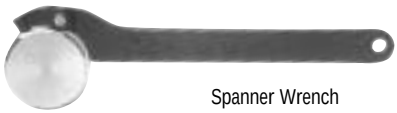
Glass Thickness Range:
1/4" (6mm) to 1/2" (12mm)

Maximum Weight:
55 lbs. (25kg) per attachment point

Maximum Glass Size:
Exterior: 1/2" (12mm) Glass 79" (2000mm) x 39" (1000mm);
Interior: Subject to strength of attaching substrate and glass deflection. To avoid glass bending use additional points.

Threaded Stud:
M8 Metric Thread

Fabrication Required:
5/8" (16mm) Diameter Hole


Spanner Wrench

CAT. NO.	DESCRIPTION
SS30	Stainless Steel Standoff
SW30	Spanner Wrench

Standoff System Accessories

Concrete Anchor

Hanger Bolt

Threaded Rod

Allen Screw

Nylon Hex Nuts may be used without Locking Washers for attachment to Allen Screws or Threaded Rod for 1/2", 3/4" or 1-1/4" Standoffs.

NYLOCK HEX NUTS

CAT. NO.	FINISH	STANDOFF	THREAD SIZE
NLN1024S	Stainless	1/2"	10-24
NLN1420S	Stainless	3/4"	1/4"-20
NLN1420Z	Zinc	3/4"	1/4"-20
NLN51618S	Stainless	1-1/4"	5/16"-18
NLN51618Z	Zinc	1-1/4"	5/16"-18

Hex Nuts are available in both stainless and zinc finishes, and are used with applicable Flat Washers and/or Lock Washers to attach Standoffs, or to reshape threads after cutting Threaded Rod or Allen Screws.

HEX NUTS

CAT. NO.	FINISH	STANDOFF	THREAD SIZE
HN1024S	Stainless	1/2"	10-24
HN1420S	Stainless	3/4"	1/4"-20
HN1420Z	Zinc	3/4"	1/4"-20
HN51618S	Stainless	1-1/4"	5/16"-18
HN51618Z	Zinc	1-1/4"	5/16"-18

Tee Nuts are mainly used in wood or plywood applications where it can be installed on the back side. Accepts Allen Screw or Threaded Rod.

TEE NUTS

CAT. NO.	FINISH	STANDOFF	THREAD SIZE
TN1024Z	Zinc	1/2"	10-24
TN1420Z	Zinc	3/4"	1/4"-20
TN51618Z	Zinc	1-1/4"	5/16"-18

Use Flat Washers with Hex Nuts when attaching Standoffs to panels or substrates. Available in stainless and zinc finishes.

FLAT WASHERS

CAT. NO.	FINISH	STANDOFF	THREAD SIZE
FW10S	Stainless	1/2"	10-24
FW14S	Stainless	3/4"	1/4"-20
FW14Z	Zinc	3/4"	1/4"-20
FW516S	Stainless	1-1/4"	5/16"-18
FW516Z	Zinc	1-1/4"	5/16"-18

Standoff Wrench

Lock Washer

Flat Washer

Nylock Hex Nut

Hex Nut

Tee Nut

LOCK WASHERS

CAT. NO.	FINISH	STANDOFF	THREAD SIZE
LW10S	Stainless	1/2"	10-24
LW14S	Stainless	3/4"	1/4"-20
LW14Z	Zinc	3/4"	1/4"-20
LW516S	Stainless	1-1/4"	5/16"-18
LW516Z	Zinc	1-1/4"	5/16"-18

Lock Washers, available in both stainless and zinc, may be used with Hex Nuts for mounting Standoff assemblies.

THREADED RODS

CAT. NO.	FINISH	STANDOFF	THREAD SIZE
TR1024X36S	Stainless	1/2"	10-24
TR1420X36S	Stainless	3/4"	1/4"-20
TR1420X36Z	Zinc	3/4"	1/4"-20
TR51618X36S	Stainless	1-1/4"	5/16"-18
TR51618X36Z	Zinc	1-1/4"	5/16"-18

Full 36" lengths of stainless or zinc Threaded Rod will permit you to cut Rod to desired length.

HANGER BOLTS

CAT. NO.	FINISH	STANDOFF	SIZE
HB10241Z	Zinc	1/2"	10-24 x 1"
HB1024112Z	Zinc	1/2"	10-24 x 1-1/2"
HB10242Z	Zinc	1/2"	10-24 x 2"
HB1024212Z	Zinc	1/2"	10-24 x 2-1/2"
HB14112S	Stainless	3/4"	1/4"-20 x 1-1/2"
HB14112Z	Zinc	3/4"	1/4"-20 x 1-1/2"
HB14212S	Stainless	3/4"	1/4"-20 x 2-1/2"
HB14212Z	Zinc	3/4"	1/4"-20 x 2-1/2"
HB516112S	Stainless	1-1/4"	5/16"-18 x 1-1/2"
HB516112Z	Zinc	1-1/4"	5/16"-18 x 1-1/2"
HB516212S	Stainless	1-1/4"	5/16"-18 x 2-1/2"
HB516212Z	Zinc	1-1/4"	5/16"-18 x 2-1/2"

Hanger Bolts are available in both stainless and zinc, and can be used in wood, or with plastic anchors.

ALLEN SCREWS

CAT. NO.	STANDOFF	SIZE
AS102434	1/2"	10-24 x 3/4"
AS10241	1/2"	10-24 x 1"
AS1434	3/4"	1/4"-20 x 3/4"
AS141	3/4"	1/4"-20 x 1"
AS14114	3/4"	1/4"-20 x 1-1/4"
AS14112	3/4"	1/4"-20 x 1-1/2"
AS14134	3/4"	1/4"-20 x 1-3/4"
AS142	3/4"	1/4"-20 x 2"
AS51634	1-1/4"	5/16"-18 x 3/4"
AS5161	1-1/4"	5/16"-18 x 1"
AS516114	1-1/4"	5/16"-18 x 1-1/4"
AS516112	1-1/4"	5/16"-18 x 1-1/2"
AS516134	1-1/4"	5/16"-18 x 1-3/4"
AS5162	1-1/4"	5/16"-18 x 2"

Stainless Steel Allen Screws are available in incremental lengths from 3/4" to 1-1/2" for 1/2" diameter Standoffs, and 3/4" to 2" for 3/4" and 1-1/4" diameter Standoffs.

Use the Concrete Anchor when securing the Standoff Base to a cement or stone wall.

CONCRETE ANCHORS

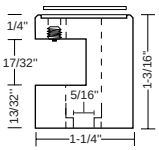
CAT. NO.	STANDOFF	THREAD SIZE
CA1420	3/4"	1/4"-20
CA51618	1-1/4"	5/16"-18

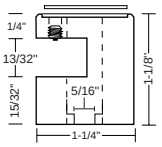
The Standoff Wrench allows a quick and efficient method for tightening and loosening the Cap Assembly of 3/4" and 1-1/4" diameter Standoffs.

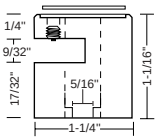
STANDOFF WRENCH

CAT. NO.	FINISH	LENGTH
SOW	Zinc	4-1/2"

CRL Edge Grip Display System







for 1/2" Thick Panels

for 3/8" Thick Panels

for 1/4" Thick Panels

CRL's Edge Grips provide additional flexibility in attaching decorative panels or signage to walls or substrates. The Edge Grip allows material to be held to the wall without drilling holes in the face material. This allows for quick installation or adjustment of panels mounted in Edge Grips. 1-1/4" diameter Edge Grips are available in Chrome, Satin Chrome and Brass Finishes, and are compatible with CRL Standoffs. We recommend CRL Edge Grips be used at the top, bottom and sides of heavier panels for maximum support.

- **Designed to Hold Glass, Acrylic, Metal or Wood Panels in Thicknesses of 1/4", 3/8" and 1/2"**
- **No Drilling Required in Glass or Panel Materials**

FINISH LENGTH	CHROME CAT. NO.	BRASS CAT. NO.	SATIN CHROME CAT. NO.
1/4"	EG14CH	EG14BR	EG14SC
3/8"	EG38CH	EG38BR	EG38SC
1/2"	EG12CH	EG12BR	EG12SC
Disk*	EGD1SKCH	EGD1SKBR	EGD1SKSC

* One Cover Disk comes with each Edge Grip. Additional Cover Disks may be ordered separately. All Edge Grips can be combined for quantity pricing.

Edge Grips shown in use on display columns commonly found in museums, at trade shows, etc.

CRL Swivel Fittings Display System

- **Ideal for Mounting Shelves for Display Purposes, or Connecting Panels for Furniture Applications**
- **Finished in Brushed Satin, Swivel Fittings are Both Contemporary and High Tech in Design and Appearance**
- **Optional Links are Available to Provide Flexibility of Design and Function**

CRL's new Stainless Steel Swivel Fittings provide a unique solution for connecting glass-to-glass, or glass-to-wall. Swivel Fittings are fully adjustable to any angle, and provide the perfect method of connecting panels to floor, ceiling or wall. Pivot-to-Pivot measurement is 2". Panels require 3/4" holes for assembly, and 1-1/2" countersink to desired depth.

Glass-to-Wall Fitting

This Swivel Fitting can connect to the wall or substrate at one end, and attach a glass panel or shelf to the other end. Maximum panel thickness is 1".

Glass-to-Wall
CAT.NO.SGF52GW

Glass-to-Glass Fitting

Dual Swivel Fitting designed for glass-to-glass applications. Maximum panel thickness is 1".

Glass-to-Glass
CAT.NO.SGF52GG

Optional Swivel Links

Optional links provide flexibility when extra length is required between ends of Swivel Fittings.

102mm (4") Link
CAT.NO.SGL102

72mm (2-13/16") Link
CAT.NO.SGL72

Flush End Cap Assembly

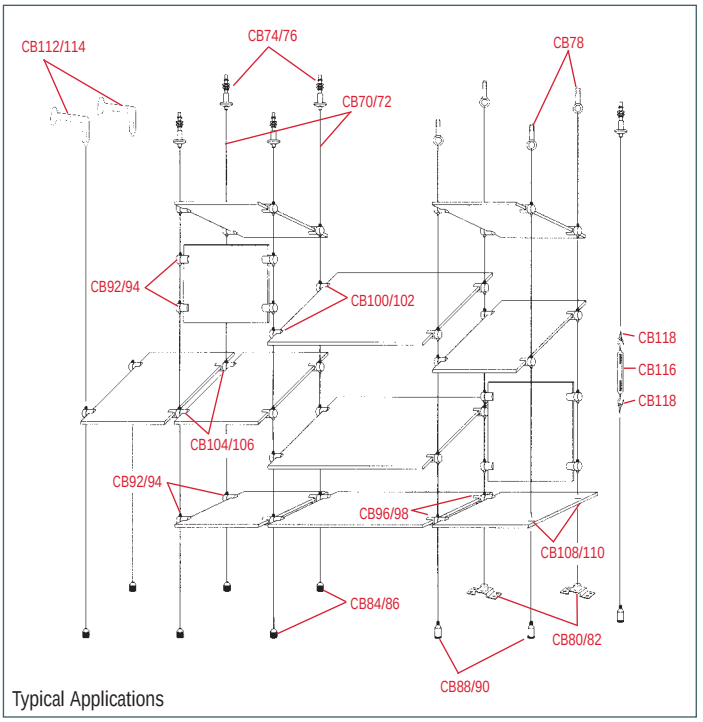
Flush End Cap with 5/16 "-18 thread and 22mm socket with washers. Cap measures 1-1/8" in diameter. 1-3/8" Screw is used in place of 13/16" screw for thicker materials.

1-3/8" Screw
CAT.NO. CAP35S

Flush Cap
CAT.NO.CAPF114BS

Note: Fabrication Requirements for Flush Cap: 3/4" Diameter Hole; 1-1/2" Countersink (to desired depth)

CRL Cable Display System



Typical Applications

- **Frameless Look Highlights Displayed Objects Without Distractions**
- **Wide Variety of Components Allow Limitless Design Choices**
- **Accepts 1/4" to 5/16" (6mm to 8mm) Thick Materials**

CRL's Cable Display System is an ideal option for high-tech retail displays or residential interiors. We have all of the components needed to install the Cable Display of your own design into ceilings, floors, wood bases or concrete walls. Create dramatic effects with 1/4" to 5/16" (6mm to 8mm) glass shelves, or use other materials of equal thickness - it's up to you. Shelf Brackets are available in either fixed or adjustable positions, providing the flexibility to display merchandise on horizontal surfaces, or signage/graphic arts in a vertical position. Brackets are quickly and easily repositioned so you can change the look and function of the display as often as you like. Components are available in chrome, nickel plated or gold plated finishes, and you can order them individually to get exactly what you need to complete your design.

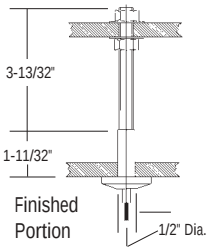
WEIGHT LIMITATIONS:
When properly installed, each column (four cables) can bear a total weight of up to 80 pounds (36kg). Each shelf can bear a total weight of 20 pounds (9kg) when used with CB74, CB76 and CB78 Ceiling Mount Fittings. If CB112 and CB114 Hanger Pipe Base Fittings are properly anchored and used as ceiling attachments, each column (four cables) can bear a total weight of 40 pounds (18kg).

2mm Stainless Steel Cable

- **One Length per Pack**

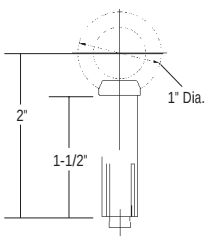
CAT. NO.	LENGTH
CB70	118 Inches
CB72	196 Inches

Ceiling Mount Fittings



CAT. NO.	FINISH	QTY./PK.
CB74	Chrome	1
CB76	Gold Plated	1

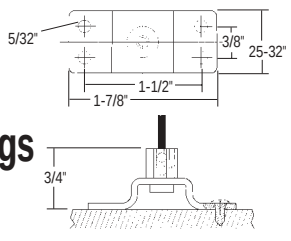
Ringed Anchor Fitting



CAT. NO.	FINISH	QTY./PK.
CB78	Nickel Plated	1

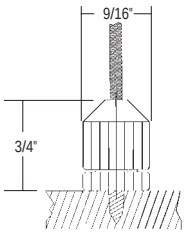
All Cable Display components can be combined for quantity pricing.

Fixed Base Floor Fittings



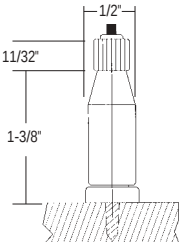
CAT. NO.	FINISH	QTY./PK.
CB80	Chrome	1
CB82	Gold Plated	1

Short, Round Floor Base Fittings



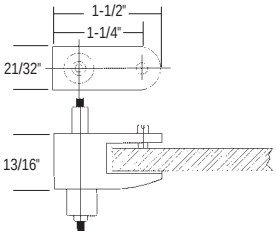
CAT. NO.	FINISH	QTY./PK.
CB84	Chrome	1
CB86	Gold Plated	1

Long, Round Floor Base Fittings



CAT. NO.	FINISH	QTY./PK.
CB88	Chrome	1
CB90	Gold Plated	1

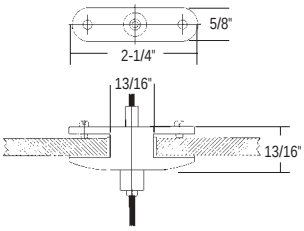
Fixed Single Shelf Brackets



For 1/4" and 5/16" Glass

CAT. NO.	FINISH	QTY./PK.
CB92	Chrome	1
CB94	Gold Plated	1

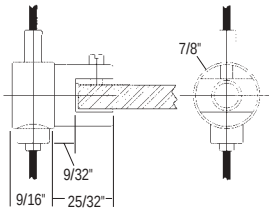
Fixed Double Shelf Brackets



For 1/4" and 5/16" Glass

CAT. NO.	FINISH	QTY./PK.
CB96	Chrome	1
CB98	Gold Plated	1

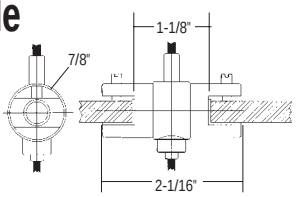
Adjustable Single Shelf Brackets



For 1/4" and 5/16" Glass

CAT. NO.	FINISH	QTY./PK.
CB100	Chrome	1
CB102	Gold Plated	1

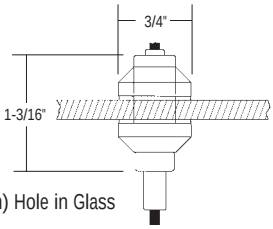
Adjustable Double Shelf Brackets



For 1/4" and 5/16" Glass

CAT. NO.	FINISH	QTY./PK.
CB104	Chrome	1
CB106	Gold Plated	1

Drilled Glass Shelf Brackets

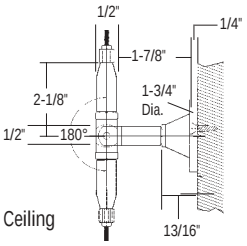


Requires 1/2" (12mm) Hole in Glass

For 1/4" and 5/16" Glass

CAT. NO.	FINISH	QTY./PK.
CB108	Chrome	1
CB110	Gold Plated	1

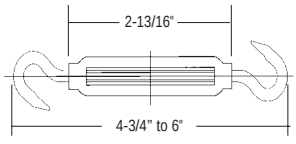
Hanger Pipe Base Fittings



Mounts on Wall or Ceiling

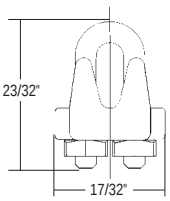
CAT. NO.	FINISH	QTY./PK.
CB112	Chrome	1
CB114	Gold Plated	1

Cable Turnbuckle



CAT. NO.	FINISH	QTY./PK.
CB116	Nickel Plated	1

Cable Loop Securing Clamp



CAT. NO.	FINISH	QTY./PK.
CB118	Nickel Plated	1

CRL Cable Display System for 3/8" (10mm) Glass

- **Elegant and Impressive System Uses 3/8" (10mm) Glass Shelves That Can Be Quickly and Easily Reconfigured**
- **Stainless Steel Cable and Nickel Plated Brass Components**

NEW

CRL's Cable Display System for 3/8" (10mm) Glass is an elegant way to display crystal, jewelry or collectables. Through the use of stainless steel and nickel plated components with 3/8" (10mm) tempered glass shelves (not included) you can create these elegantly impressive, yet easy to assemble displays for stores, museums, offices, and even the home. The Posilock Shelf Connectors allow you to rotate the shelves from horizontal to vertical, or tilted positions for signage or the display of graphic arts. You can adjust their heights in seconds any time you want to change the display. Individual Floor-to-Ceiling Cable Kits allow you to enlarge or change the display at will. It's Cable Display technology in its finest form.

This Display Required:
6 Cat. No.Y0001CR Floor-to Ceiling Cable Kits,
20 Cat. No.Y01CR Single-Sided Connectors,
2 Cat. No.Y02CR Double-Sided Connectors,
12 Cat. No.Y0010 Dual Threaded Screws.

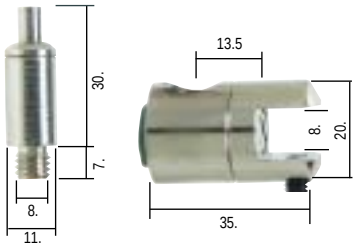
Floor-to-Ceiling Cable Kit

Contains all of the basic Cable components between the ceiling and floor or base: 20 foot length of Cable, Tensioner, Adapter, Two Cable Holders and Two Cover Disks. Dual Threaded Screws or Threaded Studs for ceiling or floor attachment must be ordered separately. Shelf Connectors must be ordered separately.

CAT. NO. Y0001CR

Single-Sided Shelf Connector

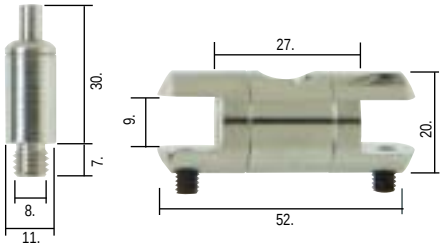
Used in single shelf installations. Built-in Tensioner allows you to rotate shelf from horizontal to vertical or anywhere in between, and holds it securely in place on the Cable.



CAT. NO. Y01CR

Double-Sided Shelf Connector

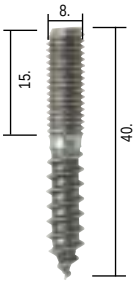
Used where side-by-side shelves are required. You can independently rotate each side to the desired angle. Tensioner allows connector to be easily repositioned on the Cable.



CAT. NO. Y02CR

Dual Threaded Screw

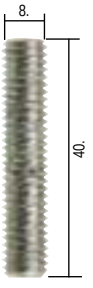
Used when installing the Cable Kit into a wood or laminate base or a ceiling support. The threaded rod portion is attached to the Cover Disk and Adapter. M8 x 40mm thread size.



CAT. NO. Y0010

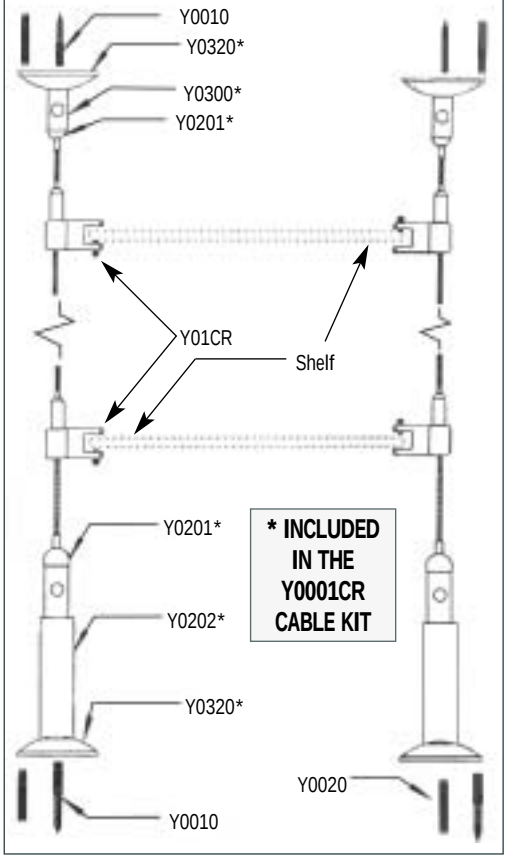
Threaded Stud

Used when installing the Cable Kit to metal. Half of Stud is threaded into the ceiling or floor metal support, the other half is attached to the Cover Disk and Adapter. M8 x 40mm thread size.



CAT. NO. Y0020

How It Works



Note: All measurements on this page are shown in millimeters.

CRL Rod Display System

NEW

Typical Rod Display Unit (Display Lights Not Included)

- **Open Space Concept Display with Beautiful Chrome Finish Components**
- **Adjustable Levels and Positions for Shelves**
- **For 1/4" to 5/16" (6mm to 8mm) Thick Material**

Our new Rod Display System makes the most of available cabinet top space because of its built-in design flexibility. This “open-space” concept display system consists of just five components, so assembly and changes are quick and simple. You can add or remove shelves, change shelf sizes, change the space between shelves, even change the shelf materials because the adjustable shelf supports will hold glass, acrylic or wood from 1/4” to 5/16" (6mm to 8mm) thick. It’s the perfect display system for retail businesses wanting to make the most out of limited space.

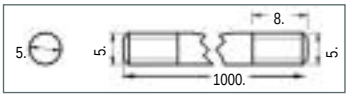
Note: All measurements on this page are shown in millimeters.

COMPONENTS NEEDED FOR ROD DISPLAY SHOWN ABOVE

CAT. NO.	DESCRIPTION	QUANTITY NEEDED
RD4301CH	Finishing Nut	10
RD4302CH	1000mm Stainless Steel Rod	10
RD4303CH	Rod Base	10
RD4304CH	2-Way Glass Support	10
RD4305CH	1-Way Glass Support	28

Rod Display Components are available individually so you can design and construct the Rod Display that best suits your needs. Each is individually packaged to protect its chrome finish. For additional assistance, contact CRL Technical Sales at (800) 422-6144, Ext. 777, or e-mail **techsales@crlaurence.com.**

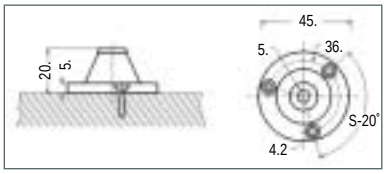
Stainless Steel Rod



Stainless Steel Rod measures 39-3/8” (1000mm), and is threaded to accept RD4303CH Rod Base and RD4301CH Finishing Nut.

CAT. NO. RD4302CH

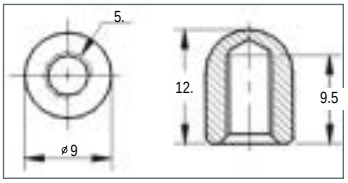
Rod Base



Zinc alloy Rod Base mounts to a cabinet top with three screws. Threaded to accept RD4302CH Stainless Steel Rods.

CAT. NO. RD4303CH

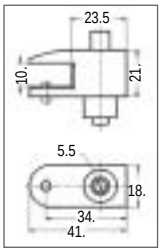
Finishing Nut



Chrome Plated Brass Finishing Nut is threaded to fit tops of RD4302CH Stainless Steel Rods.

CAT. NO. RD4301CH

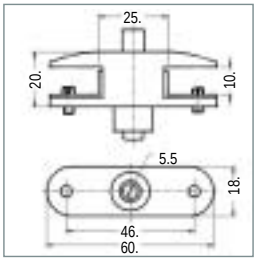
1-Way Glass Support



Zinc alloy 1-Way Support for a single shelf from 1/4” to 5/16” thick. Shelf is secured by tightening one set screw.

CAT. NO. RD4305CH

2-Way Glass Support



Zinc alloy 2-Way Support for adjoining shelves from 1/4” to 5/16” thick. Each shelf is secured by tightening one set screw.

CAT. NO. RD4304CH

CRL Custom Glass Showcases

NEW

- **You Can Create Beautiful Custom Designs to Develop New Business Opportunities**
- **Technical Assistance to Help You Expand Your Capabilities**

CRL has all the necessary components to help you develop custom glass showcases. All that's required is your creativity and glass fabrication skills. The showcases pictured on this page were constructed using CRL Hinges, Extrusions and Shelf Supports. Choose from CRL's tremendous selection of matching finishes on hinges and extrusions to create contemporary designs in cabinetry. Brass, chrome, antique brass, black or nickel finishes are all available. Mill finish extrusion can also be powder coated to create a special look. We encourage you to talk to CRL's Technical Sales Team to assist in your selection of components to create your own unique design. Call (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.

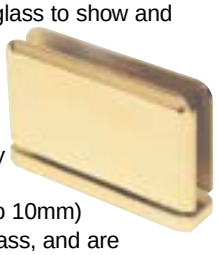
Photos Courtesy of
Artistry in Glass of Naples, Florida

These beautiful showcases utilize CRL's Prima Hinges, Deluxe Header and Deep U-Channel.

Contact CRL Technical Sales for your free copy of our SD03 Frameless Shower Door Catalog

CRL Prima Hinges

Prima Hinges are designed to allow more glass to show and carry the majority of the weight on the bottom. They use 5/16" to 3/8" (8mm to 10mm) tempered glass, and are adaptable to CRL's Deluxe Header.



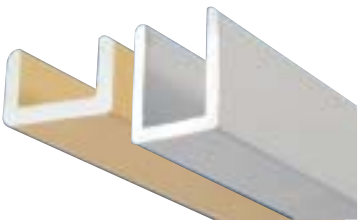
See page F155 for details on Prima Hinges.

CRL Deluxe Header

The Deluxe Header will provide support and security for glass panels not reaching the ceiling. The Header has a narrow face to minimize the visible sight line. The extrusion is rounded on one side and flat on the other, so different looks can be achieved. Available in 11 finishes.

See page F182 for details on Deluxe Headers.

CRL U-Channel



Both our Regular and Deep U-Channels are most commonly used to secure fixed side panels, or to secure the panels to pedestal bases. Available in 12 finishes.

See page F181 for details on U-Channels.

CRL Glass Shelf Rests

Beautifully finished in your choice of Brass or Chrome, Glass Shelf Rests will accommodate 1/4" to 1/2" (6mm to 12mm) glass. They require a 1/4" (6mm) hole in glass to install.

CAT. NO.	FINISH
GSR600BR	Brass
GSR600CH	Chrome

CRL Semi-Assembled Showcase Kits

NEW

- Ships Semi-Assembled with Sliding Track, Shelf Brackets and Standards, and Masonite Doors
- Beautiful Satin Anodized Aluminum Frame
- Available in 4, 5 and 6 Foot Sizes

Our Semi-Assembled Showcase Kits are furnished with a satin anodized aluminum frame and quality components. The kit arrives with the bottom part of the frame attached to the base, so your assembly time is substantially reduced. The base is constructed of 3/4" thick black finish melamine with a white finish deck that gives a better background for displayed items. The front of the finished case has a visible opening of 30" top to bottom.

Kits are available in three popular lengths: 4, 5 and 6 feet. You supply the 1/4" (6mm) glass. All kits are shipped with steel shelf brackets and pre-punched steel standards. You can also use the KV 180A Series Shelf Brackets found on page 228 of our Big Red Master Catalog. Each kit comes with 1/4" thick masonite doors that slip easily into the pre-installed aluminum track with rollers for smooth, quiet and long-lasting operation.

CAT. NO.	DIMENSIONS	SHELF HARDWARE FOR	APPROX. SHIP WEIGHT
HW148SA	48" W x 20" D x 38" H	One 8" Shelf; One 10" Shelf	68 lbs.
HW160SA	60" W x 20" D x 38" H	Two 8" Shelves; Two 10" Shelves	80 lbs.
HW172SA	72" W x 20" D x 38" H	Two 8" Shelves; Two 10" Shelves	90 lbs.

All Showcase Kits ship F.O.B CRL Warehouses, and are too large to ship via U.P.S.

CRL Tempered Glass Display Systems

- Displays Ship Complete with Base, 3/16" Tempered Glass with Pencil Polished Edges, Chrome Finish Connectors, Plus Quick and Easy Assembly Instructions

- 16 Display Areas
- Rotates Manually for Easy Access

STYLE BB1101

CAT.NO.	BASE COLOR	DIMENSIONS
BB1101W	White	30" Diameter,
BB1101BL	Black	62" High

- 24 Display Areas
- Hidden Casters

STYLE BB1104

CAT. NO.	BASE COLOR	DIMENSIONS
BB1104W	White	39" Wide,
BB1104BL	Black	27" Deep, 55" High

- 12 Display Areas
- Hidden Casters

STYLE BB1103

CAT. NO.	BASE COLOR	DIMENSIONS
BB1103W	White	40" Wide,
BB1103BL	Black	14" Deep, 50" High

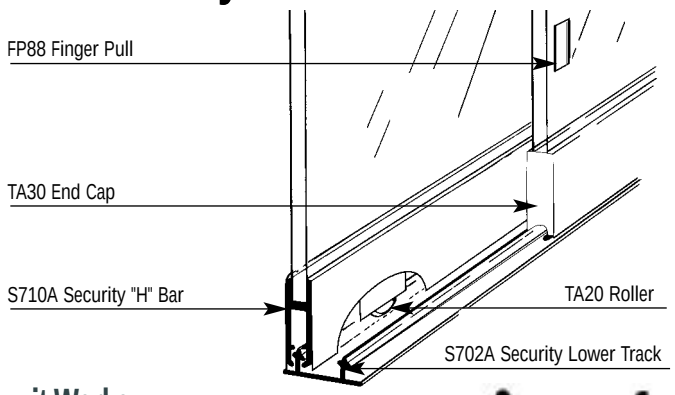
- Four Adjustable Shelves
- Lockable Sliding Doors
- Light Kit Included

STYLE BB1107

CAT. NO.	BASE COLOR	DIMENSIONS
BB1107W	White	36" Wide,
BB1107BL	Black	16" Deep, 84" High

Displays ship F.O.B. CRL warehouses, except BB1107 Style. Contact CRL Technical Services for complete details.

CRL Security Anti-Lift Showcase Track Assembly

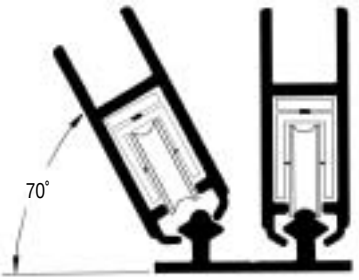


- **A CRL Exclusive**
- **Anti-Lift "H" Bar and Lower Track Provide an Extra Measure of Security**

C.R. Laurence introduces two New Aluminum Extrusions for the fabrication of Sliding Track Assemblies used in display and showcases. They incorporate an "Anti-Lift" design that provides an extra measure of security when used with typical Upper Channel and Ratchet-type or Push-Button Locks normally used with such assemblies. You can use them with 3/16" to 1/4" (5mm to 6mm) thick glass, and they are no more difficult to install than normal, less secure track assemblies.

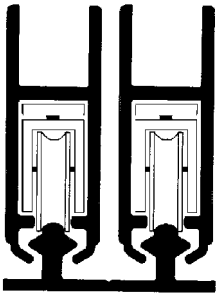
How it Works:

The Security "H" Bar can only be installed on the Security Lower Track by tilting the panels at a 70-degree angle, fitting the Ball Bearing Rollers on the rail, then pushing the panel to a full 90-degrees vertical. This is done before you mount the Upper Channel permanently in the opening.



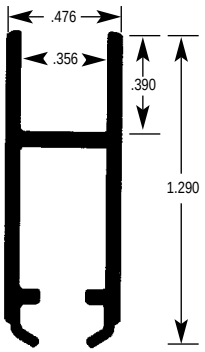
The Result:

The bottom of the Security "H" Bar is shaped so that it cannot be lifted off the Lower Track's especially designed rails and into the Upper Channel once it has been permanently mounted. This it the basis of this simple, yet effective design.



Security "H" Bar

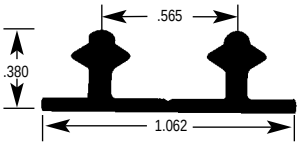
Security "H" Bar comes in 12' stock lengths packed 40 per case, only in a Satin Anodized finish. Minimum order is one stock length, which can be cut for shipment via U.P.S.



CAT. NO. S710A

Security Lower Track

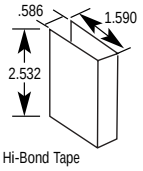
Security Lower Track is packed 40 12' stock lengths per case, only in a Satin Anodized finish. Minimum order is one stock length, which can be cut for shipment via U.P.S.

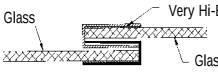


CAT. NO. S702A

Interlocking Panel Retainer Clips

Interlocking Panel Retainer Clips are secured to the glass edge with a supplied piece of our Very Hi-Bond Tape that you apply to the glass before installing the clip. Once the clips interlock with each other they prevent the glass panels from being "jimmied" apart. Satin Anodized finish matches the track extrusions. Two clips per pack.





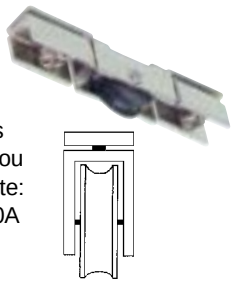
CAT. NO. TA40

Keyed Lock for Security "H" Bar

Plunger-style Lock fits into cut end of the Security "H" Bar to secure the bypassing panels. No drilling of the glass required. Comes with two keys. Note: For use only with S710A Security "H" Bar.

CAT. NO.	DESCRIPTION
TA10	Randomly Keyed Lock
TA10KA	Keyed Alike Lock

Ball Bearing Roller for Security "H" Bar



Ball Bearing Roller slips into cut end of Security "H" Bar and is held into place when you tighten two screws. Note: For use only with S710A Security "H" Bar.

CAT. NO. TA20

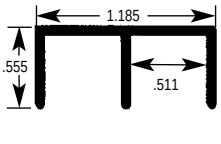
End Cap for Security "H" Bar

End Cap to conceal cut ends of Security "H" Bar is held in place when you tighten one screw. Note: For use only with S710A Security "H" Bar, but not necessary when you use TA10 Keyed Lock.

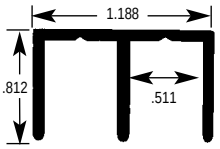
CAT. NO. TA30

Popular Upper Channels for Track Assemblies

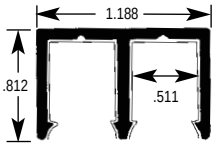
Security "H" Bar and Lower Track can be used with these popular Upper Channels.



CAT. NO. D603A
STANDARD



CAT. NO. D613A
DEEP

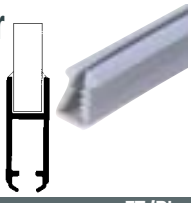


CAT. NO. D614A
PLASTIC LINED

All Stock Lengths are 12 feet long, and can be combined with Security "H" Bar and Lower Track for quantity pricing.

Glazing Vinyl for Security "H" Bar

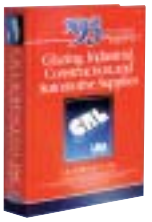
Our gray color SDV732 Vinyl fits perfectly into S710A Security "H" Bar to hold 7/32" to 1/4" thick glass.



CAT. NO.	FT./RL.
SDV732C	100
SDV732M	1000

More Sliding Track Assemblies

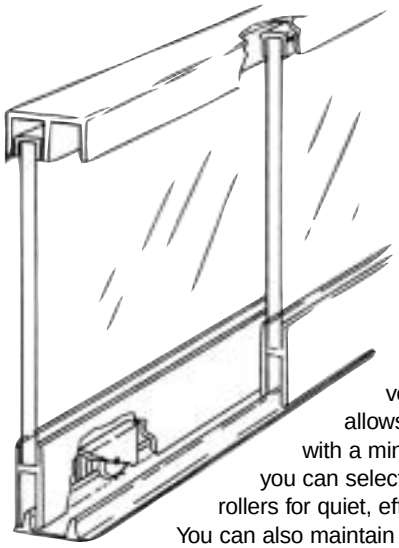
See the complete selection of CRL Sliding Track on pages 250-265 of our Big Red Master Catalog.



CRL Aluminum Rolling Track Assembly Components in Flat Black Finish

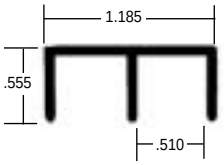
NEW

- Due to Customer Demand CRL Now Offers Our Popular Aluminum Rolling Track Assemblies in a Flat Black Finish
- Ideal for Display Cases or Interior Pass-Thru Windows



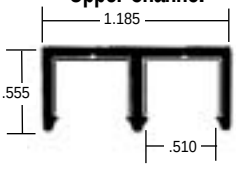
These Aluminum Extrusion come in 12 foot stock lengths that can be cut to ship U.P.S. CRL Aluminum Rolling Track Assemblies have always been a popular way to fabricate 3/16" to 1/4" thick sliding glass doors for show cases and interior pass-thru windows. Now, due to repeated customer demand, components are available in a flat black finish. The versatility of the components allows for a variety of installations with a minimum of stock required, and you can select either nylon or ball bearing rollers for quiet, effortless opening and closing. You can also maintain security with the addition of our KV963 Sliding Glass Door Lock (see next page). For more information on Aluminum Rolling Track Assemblies, see pages 256-260 of our Big Red Master Catalog.

Upper Channel



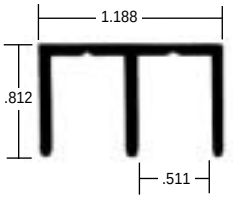
CAT. NO. D603BL

Plastic Lined Upper Channel



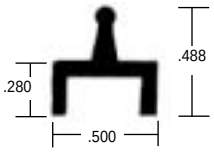
CAT. NO. D609BL

Deep Upper Channel



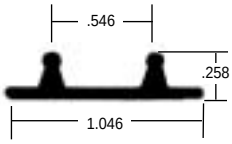
CAT. NO. D613BL

Single Bottom Rail



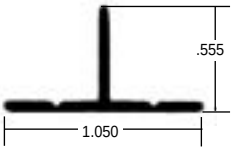
CAT. NO. D601BL

Lower Channel



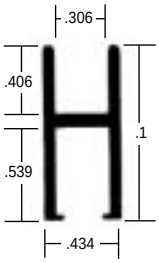
CAT. NO. D602BL

"T" Bar Lower Channel



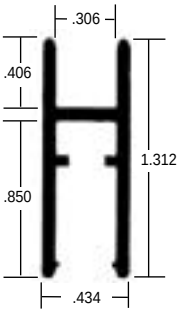
CAT. NO. D608BL

D610 "H" Bar



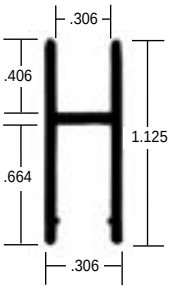
CAT. NO. D610BL

LK610 "H" Bar



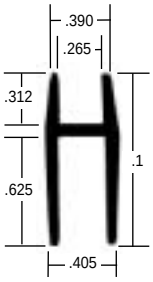
CAT. NO. LK610BL

MC610 "H" Bar



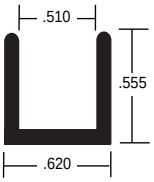
CAT. NO. MC610BL

D5610 "H" Bar



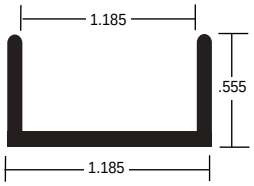
CAT. NO. D5610BL

1/2" Single Channel



CAT. NO. D609BL

1" Single Channel



CAT. NO. D600BL

End Caps

End Cap for D610BL "H" Bar

CAT. NO. D332BL

End Cap for LK610BL "H" Bar

CAT. NO. D334BL

Wheel Assembly

Standard nylon and heavy-duty ball bearing rollers used with our D610BL, LK610BL and MC610BL "H" Bars.

CAT. NO. D650

CAT. NO.	WHEEL
D649	Ball Bearing
D650	Nylon

Types can be combined for quantity pricing.

Top Guides

Just press fit these Top Guides on top of 3/16" or 1/4" glass doors to 'center' glass in the channel and prevent ratting.

CAT. NO. D655

CAT. NO. D652

CAT. NO.	TYPE
D655	Translucent Plastic
D652	Gray Nylon

Types can be combined for quantity pricing.

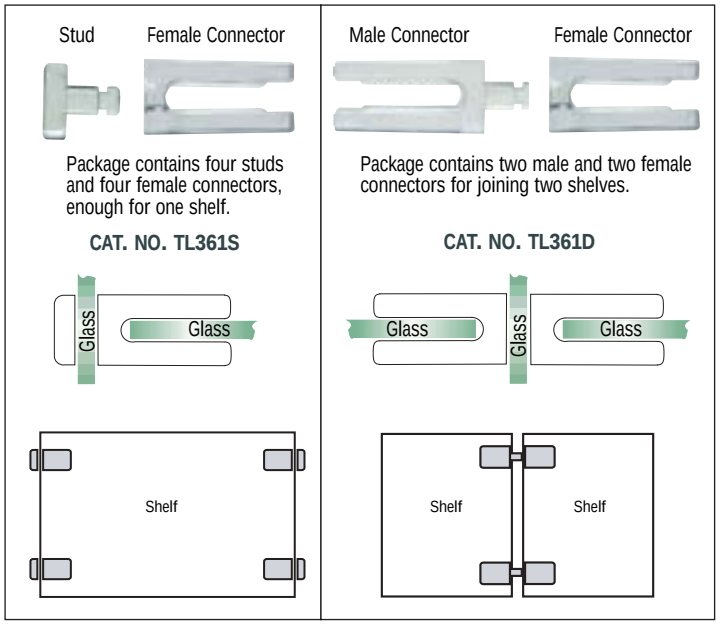
CRL Sliding Glass Door Lock

- Fits 1/4" (6mm) Glass
- Easy to Use and Install
- Anti-Spread Housing
- Removable Cylinder for Re-Keying

Our KV963 Sliding Glass Door Lock has an improved design that includes a housing that prevents spreading of glass doors. Fits any sliding all-glass door, many wood and metal doors, too. They're easily attached without tools. Durable construction, finished in rustproof chrome, they're completely tamperproof, and the bar fits snugly on the door. Ratchet bar ensures close adjustment of lock position. For overlaps of 3/4" to 3-3/8". Bar width is 5/8". Comes with two keys.

CAT. NO.	FINISH	MAX. GLASS THICKNESS
KV963	Chrome	1/4"

CRL Twist-Lock Shelf Connectors



- Crystal Clear Polycarbonate Connectors for Use with 3/16" (5mm) Glass

NEW

- Shelves Can Be Adjusted Up, Down or Even Slanted

Our Twist-Lock Connectors are ideal for "All glass" displays using drilled hole side panels up to 3/16" (5mm) thick. The single post that interlocks them lets you re-position them quickly and easily, and acts as a pivot so you can even tilt shelves to vertical position to serve as a divider within the display case.

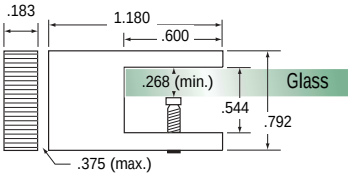
CAT. NO.	CONTENTS
TL361S	Four Studs and Four Female Connectors
TL361D	Two Male and Two Female Connectors

CRL Shelf Connectors

NEW

- Connects Glass, Acrylic or Wood Shelves to Side Panel
- Available in Chrome or Black Finishes

Designed for use with 1/4" to 1/2" (6 to 12 mm) shelving material, these attractively designed Shelf Connectors can be used with either glass or wood, and require a 1/4" (6mm) drilled hole for installation. A set screw in the connector barrel holds the shelf firmly in place. Includes two round and one "L" shaped vinyl gaskets.

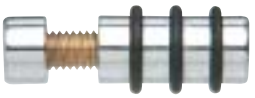


CAT. NO.	FINISH
3106CH	Chrome
3106BL	Black

Finishes can be combined for quantity pricing.

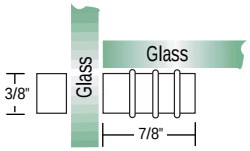
CRL Single Glass Shelf Supports

NEW



- Available in Chrome, Black and Gold Plated Finishes
- Rubber Rings Cushion Glass Shelves

This well designed Glass Shelf Support is easy to install and keeps either glass, acrylic or wood shelves firmly in place with three rubber cushion rings that also prevent scratching or chipping of glass. The Single Glass Shelf Support requires a 1/4" (6mm) drilled hole in the side panel, and works with glass thicknesses from 3/16" to 3/8" (5 to 10 mm).

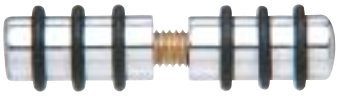


CAT. NO.	FINISH
3110CH	Chrome
3110BL	Black
3110GP	Gold Plated

Finishes can be combined for quantity pricing.

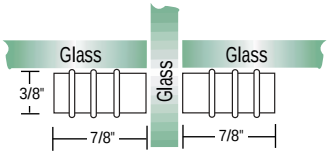
CRL Double Glass Shelf Supports

NEW



- For Adjoining Glass Shelves
- Available in Chrome, Black and Gold Plated Finishes

Our Double Glass Shelf Supports are ideal for use in cabinets or displays that have adjoining glass, acrylic or wood shelves. Two 7/8" (22mm) supports are connected by a threaded stud which requires a 1/4" (6mm) drilled hole in the center panel. Rubber cushion rings surrounding the support keep the shelves firmly in place and prevent slippage. Works with glass thicknesses from 3/16" to 3/8" (5 to 10mm).

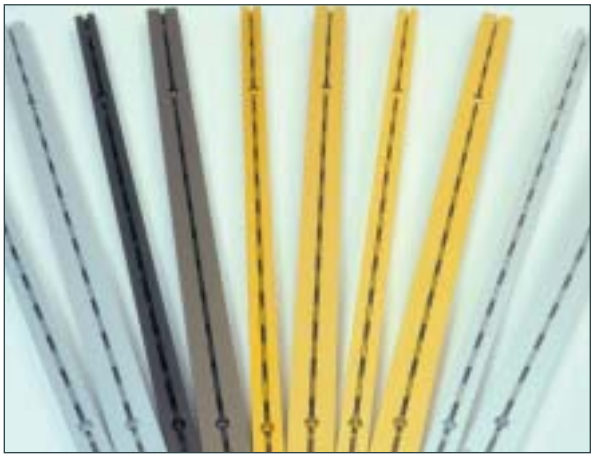


CAT. NO.	FINISH
3109CH	Chrome
3109BL	Black
3109GP	Gold Plated

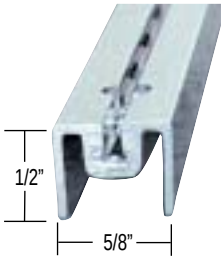
Finishes can be combined for quantity pricing.

CRL Aluminum Mirror and Wall Standards

- **Proudly Manufactured by C.R. Laurence Co., Inc.**
- **Available in Three Standard Lengths: 36", 48" and 72"**
- **"Discreet" Narrow Bracket Holes**



Series 322 Aluminum Wall Standard

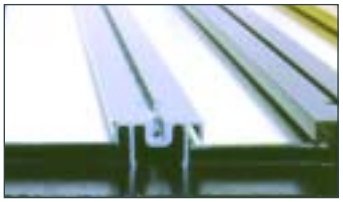


If you need to add shelves and brackets to your dressing room, bedroom, office, retail display or mirror wall installation, and you want that custom look, then you should use our Aluminum Standards. They are available in 36", 48" and 72" lengths. Both styles are now made in five popular finishes: Aluminum, Gold, Bright Anodized, Bright Gold Anodized, and Bronze.

Our Series 22 Aluminum Mirror Standard is manufactured to complement your mirror installation by overlapping the edges of the mirror to hide the edges. Twelve per carton.

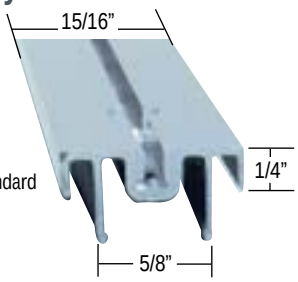
Our Series 322 Aluminum Wall Standards are for installations where a high quality finish is needed, but where you will not need to have flanges to cover up a mirror's edges. Ten per carton.

- **Now Available in Five High Quality Finishes**



Flanges Hide Mirror Edges

Series 22 Aluminum Mirror Standard



SERIES 22 MIRROR STANDARD	LENGTH	FINISH	SERIES 322 WALL STANDARD
22A36	36"	Aluminum	322A36
22A48	48"	Aluminum	322A48
22A72	72"	Aluminum	322A72
22B36	36"	Gold	322B36
22B48	48"	Gold	322B48
22B72	72"	Gold	322B72
22BA36	36"	Bright Anodized	322BA36
22BA48	48"	Bright Anodized	322BA48
22BA72	72"	Bright Anodized	322BA72
22BGA36	36"	Bright Gold	322BGA36
22BGA48	48"	Bright Gold	322BGA48
22BGA72	72"	Bright Gold	322BGA72
22DU36	36"	Bronze	322DU36
22DU48	48"	Bronze	322DU48
22DU72	72"	Bronze	322DU72

All Aluminum Standards can be combined for quantity pricing.

CRL Aluminum Brackets

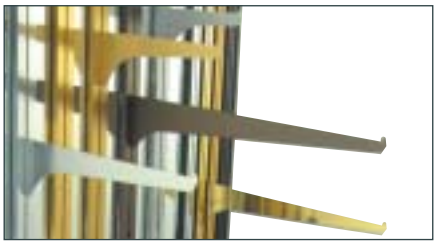
- **Proudly Manufactured by C.R. Laurence Co., Inc.**
- **Fit Our Series 22 and 322 Aluminum Standards**
- **Available in Five Lengths: 4", 6", 8", 10" and 12"**

These CRL Aluminum Brackets will go nicely with any job that is in need of quality shelving.They come in five popular sizes, and in finishes to match our Series 22 Aluminum Mirror Standards and Series 322 Aluminum Wall Standards.

Brackets have a flange free design so that they fit into hidden slots inside of Standards. Simply insert the bracket into the recessed slot and tap it down for a secure fit.

Note: These Aluminum Brackets are not interchangeable with competitive Steel Standards and Brackets shown in the CRL Big Red Catalog.

Brackets Match Our Mirror and Wall Standards Perfectly



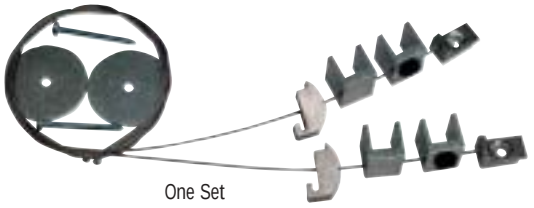
- **Now Available in Five High Quality Finishes**

BRACKET LENGTH	ALUMINUM CATALOG NUMBER	GOLD CATALOG NUMBER	BRIGHT ANODIZED CATALOG NUMBER	BRIGHT GOLD CATALOG NUMBER	BRONZE CATALOG NUMBER
4"	122A4	122B4	122BA4	122BGA4	122DU4
6"	122A6	122B6	122BA6	122BGA6	122DU6
8"	122A8	122B8	122BA8	122BGA8	122DU8
10"	122A10	122B10	122BA10	122BGA10	122DU10
12"	122A12	122B12	122BA12	122BGA12	122DU12

All Aluminum Brackets are packaged 25 per carton. Sizes and finishes can be combined for quantity pricing.

CRL Cable Shelf Brackets

- Put Up a Shelf with Only Two Screws
- Works on Any Shelf Up to 16" Deep
- Strong; Holds Up to 150 Pounds
- Two Sizes and Finishes to Choose From



One Set

CRL's Cable Shelf Bracket will help provide low-cost, high-style storage. They can hold any shelving material including wood, glass and marble. They can also be used for utility shelving. The brackets come in natural aluminum or anodized black finish and are available for 3/8" to 1/2" and 5/8" to 3/4" thick shelves. Constructed of stainless steel cable and aluminum fittings which help to hold up to 150 pounds. The design supports the front and rear of the shelf in suspension. Includes a pair of brackets, round back plates, two screws, plastic tabs and instructions.

CAT. NO.	SHELF THICKNESS	COLOR
CSB5	3/8" - 1/2"	Aluminum
CSB5B	3/8" - 1/2"	Black
CSB75	5/8" - 3/4"	Aluminum
CSB75B	5/8" - 3/4"	Black

Sizes can be combined for quantity pricing.

CRL Shower Interior Shelf Clamps

- Fit 5/16" to 3/8" Glass
- Available in Brass and Chrome

Size: 1-15/16" Wide x 1-1/16" High
Cat. No. EH124 (Chrome)
Cat. No. EH126 (Brass)

Size: 1-9/16" Wide x 1-3/16" High
Cat. No. EH132 (Chrome)
Cat. No. EH134 (Brass)

Size: 3-15/16" Wide x 1-3/16" High
Cat. No. EH128 (Chrome)
Cat. No. EH130 (Brass)

Shower Interior Shelf Clamps can be used to construct a decorative and functional glass shelf in the interior of the shower. Available in brass and chrome finishes, these clamps will secure a shelf for shampoo bottles or other small shower articles. Clamps should be secured with screws (not included) in studs, or with Molly-type anchors. Nylon tip brass tension screws secure glass. Maximum 5" glass protrusion from wall is suggested. Fits 5/16" to 3/8" glass.

CRL Clear Brochure Holders

- Crystal Clear Acrylic Counter Displays for Sales Flyers and Catalogs

Crystal Clear Acrylic Brochure Holders are for freestanding display of promotional flyers, catalogs, ad sheets, etc. Customers can get a full view of literature in holder without having to handle it first. Available in two sizes for small leaflets or full 8-1/2"x11" sheets.

CAT. NO.	HOLDS
CPS200	4" x 9"
CPS232	8-1/2" x 11"

Sizes can be combined for quantity pricing.

CPS200
Holds 4"x9"
Literature

CPS232
Holds 8-1/2"x11"
Literature

CRL Raised Lip Finger Pulls

- Recessed Design for Easy Usage
- Stick-On Application

End View

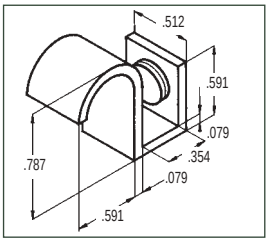
Raised Lip Finger Pulls were developed to provide a recessed area for fingernails to slide under at the edge, and a recessed center section for pushing with your thumb. No holes to drill, simply peel off protective backing paper and apply directly to the surface of the glass. The 1" wide x 2-1/2" long x 1/8" thick pull allows plenty of room for by-passing doors.

CAT. NO.	COLOR
FP46	Silver
FP47	Gold
FP48	Clear
FP49	Black
FP50	Bronze

Colors can be combined for quantity pricing.

CRL Set Screw Pulls

- Available in Two Finishes
- Fits 3/16" and 1/4" Glass



Installs in seconds to give you a reliable finger pull for glass showcase or track assembly panels. Simply tighten set screw to secure to glass from 3/16" to 1/4" thick.

CAT. NO.	QTY/PK.	FINISH
EH228	2	Chrome
EH230	2	Brass

Finishes can be combined for quantity pricing.

CRL 1" White Star Rosette

- White Plastic Rosettes Have Multiple Uses

These 1" White Star Rosettes are ideal for mechanically fastening mirrors to the wall. They are also widely used in the motor home and trailer industry to fasten ceiling panels.

Cat. No. F120W

CRL Shelf Clips

- **Three Beautiful Finishes for 3/8" to 1/2" and 5/8" to 3/4" Thick Shelves**
- **Easily Installed with Two Screws**
- **Works on Any Shelf Up to 12" Wide**
- **Holds Up to 90 Pounds**

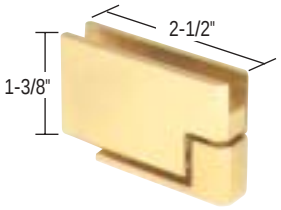
These attractive and easy to install Shelf Clips can be used anywhere extra display or storage space is needed. The chrome, black and white finishes will go with any décor, and can be installed in retail businesses, offices, kitchens, baths, laundry or bedrooms. Shelf Clips will accommodate glass or wood shelves up to 1/2" and 3/4" thick. The design of the clip provides support on the top edge and underneath, and will hold up to 90 pounds. Each pack contains two clips, mounting tape, spacer tabs, screws and installation instructions.

CAT. NO.	FINISH	SHELF THICKNESS	QTY./PKG.
SC5CH	Chrome	3/8" to 1/2"	2
SC5BL	Black	3/8" to 1/2"	2
SC5W	White	3/8" to 1/2"	2
SC75CH	Chrome	5/8" to 3/4"	2
SC75BL	Black	5/8" to 3/4"	2
SC75W	White	5/8" to 3/4"	2

Finishes and sizes can be combined for quantity pricing.

CRL Surface Mount Cabinet Pivot Hinge

- **For 1/4" to 5/16" Thick Glass**
- **Solid Brass Construction**



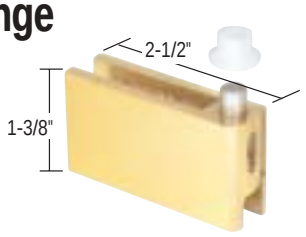
The Surface Mount Cabinet Pivot Hinge can be used with 1/4" or 5/16" glass. 24" maximum door width; recommended maximum door weight: 50 lbs. Required glass fabrication is one hole, one cut-out. Two per pack. Minimum clearance required is 1/4" top and 1/4" bottom (1/2" total).

CAT.NO.	FINISH
FA50BR	Brass
FA50CH	Chrome
FA50SC	Satin Chrome

Can be combined for quantity pricing.

CRL Flush Mount Cabinet Pivot Hinge

- **For 1/4" to 5/16" Thick Glass**
- **Solid Brass Construction**



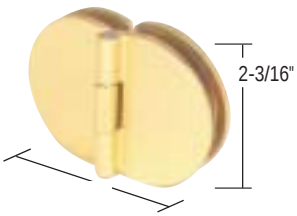
The Flush Mount Cabinet Pivot Hinge can be used with 1/4" or 5/16" glass. 24" maximum door width; recommended maximum door weight: 50 lbs. Required glass fabrication is one hole, one cut-out. Two per pack. Minimum clearance required is 1/8" top and 1/8" bottom (1/4" total).

CAT.NO.	FINISH
FA55BR	Brass
FA55CH	Chrome
FA55SC	Satin Chrome

Can be combined for quantity pricing.

CRL 180° Glass-to-Glass Cabinet Hinge

- **For 1/4" to 5/16" Thick Glass**
- **Solid Brass Construction**

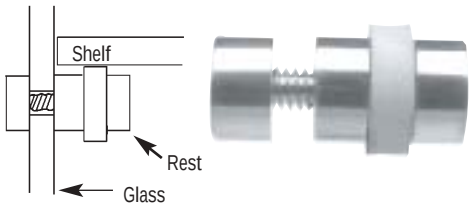


The CRL 180° Glass-to-Glass Cabinet Hinge can be used with 1/4" or 5/16" glass. 24" maximum door width; 50 Pounds is the recommended maximum door weight using two hinges; 75 pounds using three hinges. Two per pack. Required glass fabrication is two holes.

CAT.NO.	FINISH
FA180BR	Brass
FA180CH	Chrome
FA180SC	Satin Chrome

Can be combined for quantity pricing.

CRL Glass Shelf Rests



- **Designed for "All Glass" Cases**
- **For 1/4" to 1/2" Thick Glass**

Our Glass Shelf Rests replace metal shelf standards and brackets in glass showcases. Note: Glass must be drilled with 1/4" hole to accept threaded section. Size: 1-1/4" long by 9/16" diameter. One per package.

CAT.NO.	FINISH
GSR600BR	Brass
GSR600CH	Chrome

Can be combined for quantity pricing.

CRL Glass Hinge Brackets

- **For 3/8" to 1/2" Thick Glass**
- **Use to Make Elegant "All Glass" Partitions or Fireplace Screens**

Glass Hinge Brackets for fabrication of "all glass" partitions or fireplace screens made of 3/8" to 1/2" thick glass. The highly polished chrome or brass finish complements most modern décors. Concealed set screws secure the glass. Measures 9/16" thick by 1-7/8" when open at 180°. One per package.

CAT.NO.	FINISH
GHB100BR	Brass
GHB100CH	Chrome

Can be combined for quantity pricing.

CRL Showcase Corner Connectors

MH2441 Two-Way

MH2442 Three-Way

- **Bright Nickel Finish**
- **For Glass Up to 1/4" Thick**

Our Showcase Corner Connectors can be used to fabricate a multitude of creative designs. Just drill 1/4" holes and assemble. Only a low-profile turnbutton remains on the showcase's exterior. Connectors hold up to 1/4" thick glass without adhesive. Can be used over and over again. One per package.

CAT.NO.	FINISH
MH2441	Two-Way Connector
MH2442	Three-Way Connector

Can be combined for quantity pricing.

CRL Cabinet Door Hardware for 3/16" Thick Glass

Standard Mount Hinges

Standard Mount Hinges are mounted in drilled holes in cabinet frame. Set screws secure glass in hinge openings. Includes nylon bushings for drilled holes. Use GDH5J1G Drill Jig for quick, easy installation.

CAT. NO.	COLOR	QTY./PKG
GDH5BL	Black	1 Pair
GDH5BR	Brass	1 Pair
GDH5CH	Chrome	1 Pair

Recess Mount Hinges

Recess Mount Hinges are for doors that are to be inset into cabinet opening. Mount through cabinet side walls. Mounting Screws not included (see below).

CAT. NO.	COLOR	QTY./PKG
GDH86BL	Black	1 Pair
GDH86BR	Brass	1 Pair
GDH86CH	Chrome	1 Pair

Surface Mount Hinges

Surface Mount Hinges are for use when doors are to be mounted on front surface of cabinet. Installed through side walls of cabinet. Mounting Screws not included (see below).

CAT. NO.	COLOR	QTY./PKG
GDH96BL	Black	1 Pair
GDH96BR	Brass	1 Pair
GDH96CH	Chrome	1 Pair

General Glass Cutting Dimensions for CRL Stereo Cabinet Hinges

GDH5 STANDARD MOUNT HINGES

Glass Height: Opening Minus 3/8"
Single Door Width: Opening Minus 3/32"
Double Door Width: Opening Divided by 2, Minus 5/64"

GDH86 RECESS MOUNT HINGES

Glass Height: Opening Minus 1/2"
Single Door Width: Opening Minus 3/32"
Double Door Width: Opening Divided by 2, Minus 5/64"

GDH96 SURFACE MOUNT HINGES

Glass Height: Opening Plus 5/16"
Single Door Width: Opening Plus 3/4"
Double Door Width: Opening Divided by 2, Plus 11/32"

The dimensions shown above are merely guidelines that should be satisfactory in most cases. For a very tight fit you should calculate your own dimensions.

Mounting Screws for Hinges and Magnetic Glass Door Latches

These Mounting Screws are available in finishes to match our Recess Mount and Surface Mount Hinges. Black screws are also for use with our Magnetic Door Latches.

50 PER PACKAGE

CAT. NO.	COLOR
GDHSCBL	Black
GDHSCBR	Brass
GDHSCCH	Chrome

CRL Drill Jig

Special flexible Drill Jig makes it easy to install GDH5 Standard Mount Hinges in cabinet frames.

CAT. NO.	DESCRIPTION	HOLE
GDH5J1G	Drill Jig	.334"

Magnetic Glass Door Latches

Mounting Screws not included. See chart on left for Mounting Screws.

SINGLE LATCHES:

Magnetic Latch for single glass cabinet doors. Use with one Strike Plate.

1 PER PACKAGE

CAT. NO.	COLOR
GDH11BL	Black

DOUBLE LATCHES:

Magnetic Latch for paired glass cabinet doors. Use with two Strike Plates.

1 PER PACKAGE

CAT. NO.	COLOR
GDH22BL	Black

Rectangular Strike Plate

Standard Rectangular Strike Plate for 3/16" to 1/4" glass. Mates with Magnetic Latches to keep doors closed. Slips over top or bottom edge of door to mount. Three finishes to match Glass Door Hinges. Measures 1-9/16" by 31/32".

1 PER PACKAGE

CAT. NO.	COLOR
GDH7BL	Black
GDH7BR	Brass
GDH7CH	Chrome

Rounded Strike Plate

Strike Plate with rounded edge slips over side of 3/16" to 1/4" glass to mate with Magnetic Latches. Available in finishes to match our Glass Door Hinges. Measures 1-9/16" by 29/32".

1 PER PACKAGE

CAT. NO.	COLOR
GDH90BL	Black
GDH90BR	Brass
GDH90CH	Chrome

Strike Plate with Finger Grip

This Strike Plate has a finger grip to make it easier to use with our Magnetic Latches. Installs over top edge of 3/16" to 1/4" glass door. Three finishes to match our Glass Door Hinges. Measures 1-9/16" by 29/32", with 11/32" grip.

1 PER PACKAGE

CAT. NO.	COLOR
GDH60BL	Black
GDH60BR	Brass
GDH60CH	Chrome

All glass hardware on this page can be combined for quantity pricing.

CRL European Style Glass Door Hinge

- For 3/16" to 1/4" Glass
- Opens a Full 90 Degrees

Our European Style Hinges for surface or flush mounting of glass cabinet doors open a full 90 degrees to allow full frontal access to the interior. Accommodating 3/16" to 1/4" thick glass, they require a 26mm hole for installation. Common mounting plate and hinge cover plate fit either Overlay or Inset Type Hinges. Two glass cover plate finishes fit either hinge. The entire system is designed for easy installation, and minor adjustments for a precise fit can be made without moving the entire hinge.

Overlay Hinge

Overlay Hinge allows glass to overlap opening of cabinet. Mounts to EH122 Plate (below).

CAT. NO.	DESCRIPTION	QTY./PKG.
EH202	Overlay Hinge	1

Inset and Overlay Hinges can be combined for quantity pricing.

Inset Hinge

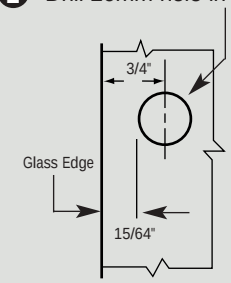
Inset Hinge allows for flush mounting of glass in cabinet opening. Mounts to EH122 Plate (below).

CAT. NO.	DESCRIPTION	QTY./PKG.
EH204	Inset Hinge	1

Inset and Overlay Hinges can be combined for quantity pricing.

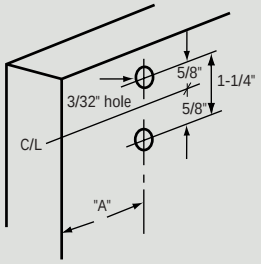
Installation Instructions

1. Drill 26mm hole in glass



use Cat. No. EDD26MM Diamond Drill

2. Drill cabinet for EH122 Mounting Plate



"A" INSET

Overlay Hinge = 1-29/64"
Inset Hinge = 1-29/64" Plus Glass Thickness

Mounting Plate

Mounting Plate to secure European Style Overlay or Inset Hinge to cabinet wall.

1 PER PACKAGE

CAT. NO.	DESCRIPTION
EH122	Mounting Plate

Glass Cover Plates

Glass Cover Plates hide thru-glass portion of Overlay or Inset Hinges.

1 PER PACKAGE

CAT. NO.	DESCRIPTION
EH156	Chrome Cover Plate
EH158	Brass Cover Plate

Colors can be combined for quantity pricing.

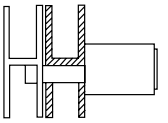
Hinge Cover Plate

Black plastic Hinge Cover Plate snaps on to mounting arm of Overlay or Inset Hinges.

1 PER PACKAGE

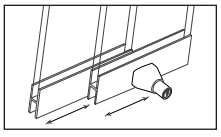
CAT. NO.	DESCRIPTION
EH120	Hinge Cover Plate

CRL Sliding Door Locks

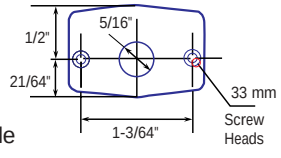


- No Drilling Through Cross Web
- 5/16" Plunger Fits All "Shoe" Type Extrusions

CRL's Sliding Door Lock, with its 9/32" diameter plunger, allows for drilling a 5/16" hole under the cross web of the shoe extrusion. Lock is secured by two screws from the backside of the shoe.



Easy to install without notching the glass. Available in black and satin chrome finishes. Blank Keys also available to match existing keys.



LOCK FINISH	RANDOM KEYS CAT. NO.	KEYED ALIKE CAT. NO.
Black Chrome	0911BC	0911BCKA
Satin Chrome	0911SC	0911SCKA

Finishes can be combined for quantity pricing.

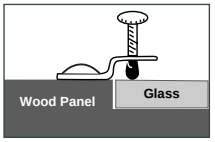
BLANK KEY

CAT. NO. BKEY

CRL Glass Retainer Clip

- Secures Glass Panels in Wood Frame Doors
- Thumbscrew Allows Adjustment and Removal for Cleaning
- Protective Plastic Tip Included

The Glass Retainer Clip firmly holds glass panels in wood frame doors. Thumbscrew adjusts to various door and glass thicknesses and allows quick removal for cleaning. Simply surface mount on the inside of the door. Black finish clip includes mounting screw and a protective plastic tip.



CAT. NO.	DESCRIPTION	QTY./PKG.
GRC8351	Glass Retainer Clip	100

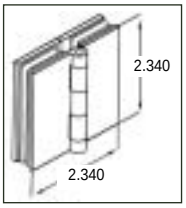
Minimum order: 100 each.

CRL Hinges

All EH Series Hinges can be combined for quantity pricing.

Double Glass-to-Glass Inline Hinge

- For 1/4" to 5/16" Glass
- 1/2" Holes Required

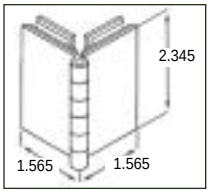


Forged brass construction. Clear vinyl pad inserts protect glass. Polished brass with lacquered finish or chrome plated.

CAT. NO.	FINISH	QTY/PKG.
EH240	Polished Brass	2
EH242	Chrome Plated	2

Double Glass-to-Glass 90° Return Hinge

- For 1/4" to 5/16" Glass
- 1/2" Holes Required

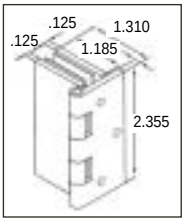


Forged brass construction. Clear vinyl pad inserts protect glass. Polished brass with lacquered finish or chrome plated.

CAT. NO.	FINISH	QTY/PKG.
EH252	Polished Brass	2
EH254	Chrome Plated	2

Double Wall-to-Glass Hinge

- For 1/4" to 5/16" Glass
- 1/2" Holes Required

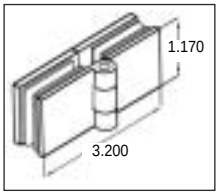


Forged brass construction. Clear vinyl pad inserts protect glass. Polished brass with lacquered finish or chrome plated.

CAT. NO.	FINISH	QTY/PKG.
EH244	Polished Brass	2
EH246	Chrome Plated	2

Glass-to-Glass Inline Hinge

- For 1/4" to 5/16" Glass
- 1/2" Holes Required

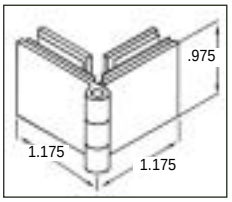


Forged brass construction. Clear vinyl pad inserts protect glass. Polished brass with lacquered finish or chrome plated.

CAT. NO.	FINISH	QTY/PKG.
EH248	Polished Brass	2
EH250	Chrome Plated	2

Glass-to-Glass 90° Return Hinge

- For 1/4" to 5/16" Glass
- 1/2" Holes Required

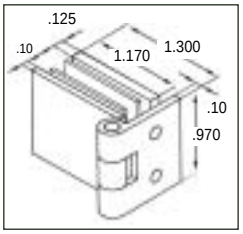


Forged brass construction. Clear vinyl pad inserts protect glass. Polished brass with lacquered finish or chrome plated.

CAT. NO.	FINISH	QTY/PKG.
EH256	Polished Brass	2
EH258	Chrome Plated	2

Single Wall-to-Glass Hinge

- For 1/4" to 5/16" Glass
- 1/2" Holes Required

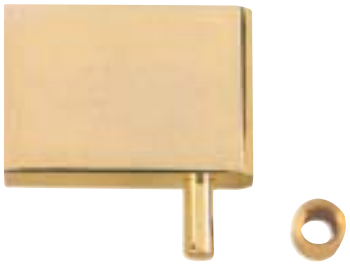


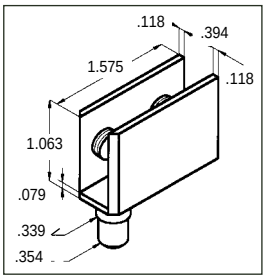
Forged brass construction. Clear vinyl pad inserts protect glass. Polished brass with lacquered finish or chrome plated.

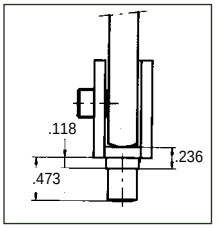
CAT. NO.	FINISH	QTY/PKG.
EH260	Polished Brass	2
EH262	Chrome Plated	2

CRL Glass Door Pivot Hinges

- Available in Two Finishes
- Fits 1/4" and 5/16" Glass







Installs in seconds. Simply tighten set screws to secure to glass from 1/4" to 5/16" thick.

CAT. NO.	FINISH	QTY/PKG.
EH224	Chrome	1 Set
EH226	Brass	1 Set

CRL Showcase Pivot Hinges

- Fits 3/16" and 1/4" Glass

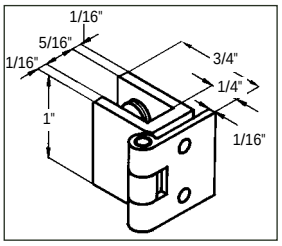
Our CRL Showcase Pivot Hinges can be used on 3/16" and 1/4" glass. Each package contains one complete set consisting of: one upper hinge, one lower hinge, two screws, one "L" plastic gasket and one flat plastic gasket. When doors are closed, a positive positioning keeper maintains them at a true 90˚.

CAT. NO.	FINISH	GLASS SIZE
EH232	Chrome	3/16"
EH234	Brass	3/16"
EH236	Chrome	1/4"
EH238	Brass	1/4"

CRL Hinges

Wall Mount Set Screw Hinge

• For 3/16" to 1/4" Glass

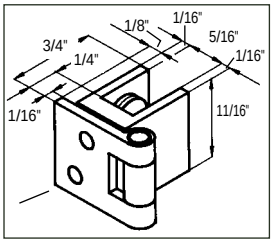


These hinges were designed for glass-to-wall installations. The glass is secured with plastic tipped set screws.

CAT. NO.	FINISH	QTY/PKG.
EH172	Chrome	2
EH174	Brass	2

Wall Mount Set Screw Hinge

• For 3/16" to 1/4" Glass

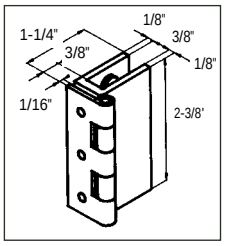


These hinges were designed for glass-to-wall installations. The glass is secured with plastic tipped set screws.

CAT. NO.	FINISH	QTY/PKG.
EH176	Chrome	2
EH178	Brass	2

Wall Mount Set Screw Hinge

• For 1/4" to 5/16" Glass

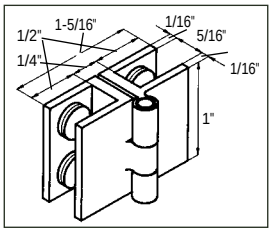


These hinges were designed for glass-to-wall installations. The glass is secured with plastic tipped set screws.

CAT. NO.	FINISH	QTY/PKG.
EH168	Chrome	2
EH170	Brass	2

180˚ Glass-to-Glass Set Screw Hinge

• For 3/16" to 1/4" Glass

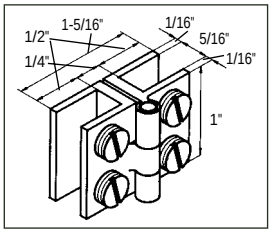


These hinges were designed for use in glass-to-glass applications when the glass runs in a 180˚ plane. The glass is secured with plastic tipped set screws.

CAT. NO.	FINISH	QTY/PKG.
EH188	Chrome	2
EH190	Brass	2

180˚ Glass-to-Glass Set Screw Hinge

• For 3/16" to 1/4" Glass

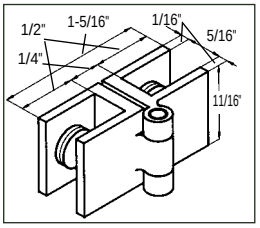


These hinges were designed for use in glass-to-glass applications when the glass runs in a 180˚ plane. The glass is secured with plastic tipped set screws.

CAT. NO.	FINISH	QTY/PKG.
EH180	Chrome	2
EH182	Brass	2

180˚ Glass-to-Glass Set Screw Hinge

• For 3/16" to 1/4" Glass

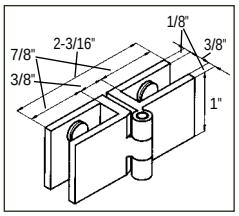


These hinges were designed for use in glass-to-glass applications when the glass runs in a 180˚ plane. The glass is secured with plastic tipped set screws.

CAT. NO.	FINISH	QTY/PKG.
EH196	Chrome	2
EH198	Brass	2

180˚ Glass-to-Glass Set Screw Hinge

• For 3/16" to 5/16" Glass

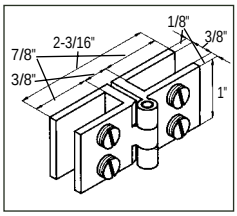


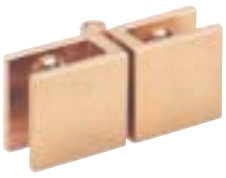
These hinges were designed for use in glass-to-glass applications when the glass runs in a 180˚ plane. The glass is secured with plastic tipped set screws.

CAT. NO.	FINISH	QTY/PKG.
EH160	Chrome	2
EH162	Brass	2

180˚ Glass-to-Glass Set Screw Hinge

• For 3/16" to 5/16" Glass



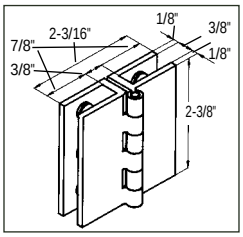


These hinges were designed for use in glass-to-glass applications when the glass runs in a 180˚ plane. The glass is secured with plastic tipped set screws.

CAT. NO.	FINISH	QTY/PKG.
EH164	Chrome	2
EH166	Brass	2

180˚ Glass-to-Glass Set Screw Hinge

• For 3/16" to 5/16" Glass

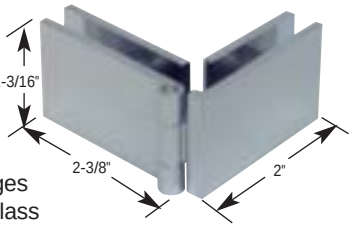


These hinges were designed for use in glass-to-glass applications when the glass runs in a 180˚ plane. The glass is secured with plastic tipped set screws.

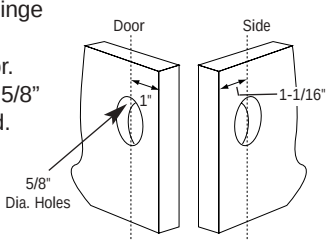
CAT. NO.	FINISH	QTY/PKG.
EH192	Chrome	2
EH194	Brass	2

CRL 90° Glass-to-Glass Hinge

- For 1/4" Glass
- Ideal for Small "All Glass" Showcases Requiring a Hinged Front Door



These solid brass constructed hinges are designed for use with 1/4" thick glass panels that meet at 90°. The overlapping lip on the side of the hinge prevents any rotation and assures a secure fit. This hinge is perfect for small "all glass" showcases requiring a hinged front door. Hinges are through-bolted, and require 5/8" holes in the glass. Gaskets are included.

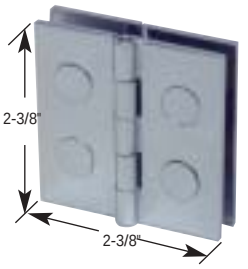


CAT. NO.	FINISH
EH136	Chrome
EH138	Brass

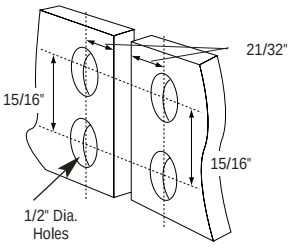
Finishes can be combined for quantity pricing.

CRL 180° Glass-to-Glass Hinge

- For 1/4" Glass
- Has Many Applications Including Frameless Showcases



These solid brass constructed hinges are designed for use with 1/4" thick glass panels that are inline at 180°. Hinge has a full length barrel along with a full open space between the hinge plates to allow for tight tolerances, and a small gap between the glass (without notching). Has many applications including frameless showcases. Hinges are through-bolted and require 1/2" holes in the glass. Gaskets are included.

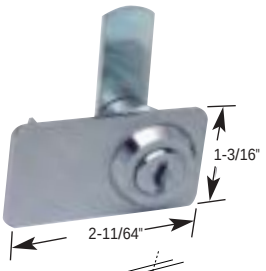


CAT. NO.	FINISH
EH140	Chrome
EH142	Brass

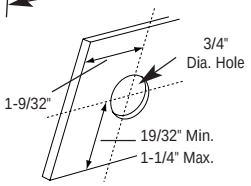
Finishes can be combined for quantity pricing.

CRL Double Door Cam Lock

- For 3/16" or 1/4" Glass
- Overlapping Lip Secures the Second Door



The Double Door Cam Lock is for double swinging doors, and has a protruding overlapping lip that serves to secure the second door (for maximum efficiency both doors should have a stop). Case, cylinder and plate are zinc diecast. This lock will fit 3/16" or 1/4" thick glass.



LOCK FINISH	RANDOM KEYS CAT. NO.	KEYED ALIKE CAT. NO.
Chrome	0916CH	0916CHKA
Black Chrome	0916BC	0916BCKA
Brass	0916BR	0916BRKA

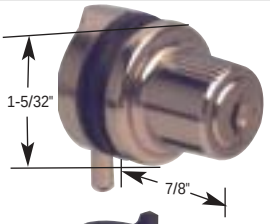
Gaskets and hole drilling template are included.
Can be combined with other Showcase Locks for quantity pricing.

BLANK KEY FOR 0910 AND 0916 LOCKS

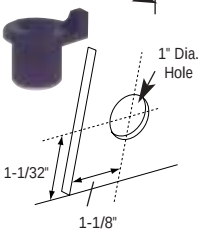
CAT. NO. BKEY

CRL Through-Glass Plunger Lock

- For 3/16" or 1/4" Glass
- For Use with Swinging Doors



The Through-Glass Plunger Lock will work on swinging doors, and accommodate 3/16" or 1/4" thick glass. A black plastic "press-in pivot" is included, and acts as a glass stop and pin receptacle. The lock's case and cylinder are zinc diecast. Gaskets and hole drilling template are included.



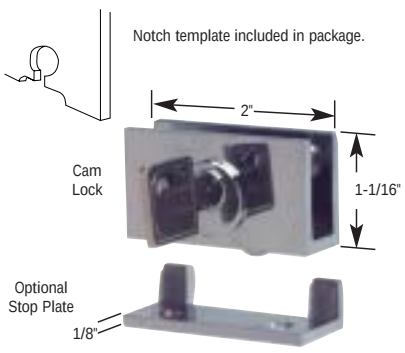
LOCK FINISH	RANDOM KEYS CAT. NO.	KEYED ALIKE CAT. NO.
Chrome	0910CH	0910CHKA
Black Chrome	0910BC	0910BCKA
Brass	0910BR	0910BRKA

Can be combined with other Showcase Locks for quantity pricing.

CRL Cam Lock

- For 1/4" or 3/8" Glass
- An Excellent Showcase Lock

This Cam Lock is suitable for 1/4" or 3/8" thick glass. Tightening is done by means of two plastic tipped screws. The key can be removed only in the locked position. Lock is supplied with gaskets and template. An optional Stop Plate is offered to match lock of choice.

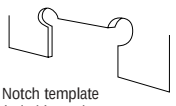


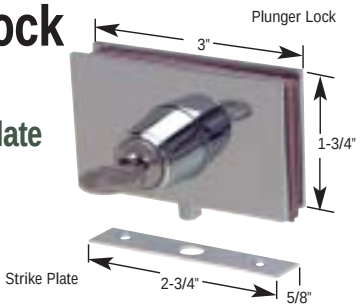
CAT. NO.	FINISH	DESCRIPTION
EH96	Brass	Cam Lock
EH98	Chrome	Cam Lock
EH106	Brass	Optional Stop Plate
EH108	Chrome	Optional Stop Plate

All "EH" Series Locks can be combined for quantity pricing.

CRL Plunger Lock

- For 1/4" or 3/8" Glass
- Supplied with Strike Plate





This Plunger Lock will fit 1/4" or 3/8" thick glass. Tightening is by means of a counterplate (included). The key can be removed in the open and locked positions. Lock is supplied with gaskets, templates and strike plate.

CAT. NO.	FINISH
EH100	Brass
EH102	Chrome

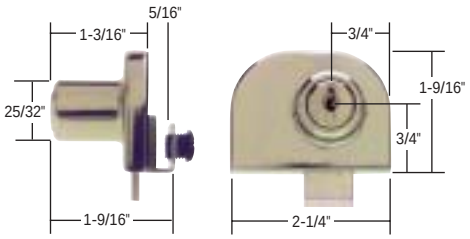
All "EH" Series Locks can be combined for quantity pricing.

CRL No-Drill Glass Door Locks

- **For Single or Double Doors Up to 1/4" Thick**
- **No Drilling Required • Three Elegant Finishes**

CRL's No-Drill Glass Door Locks for glass cabinet doors up to 1/4" thick can be instantly installed without drilling. Set screws and a cushioned lining hold them securely to the glass. Three elegant finishes (Chrome, Black Chrome, Brass) are available to accent the decor of wood or laminate cabinets. You can order Single and Double Door Locks randomly keyed, or keyed alike (KA) for convenience.

Double Glass Door Lock

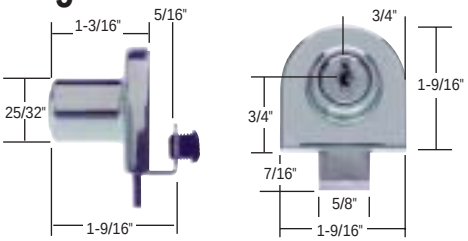


This No-Drill Lock works with double glass doors that meet in the middle. An offset 1/2" overlap allows one lock to hold both doors. The bolt has a 3/8" throw to secure it in the jamb-mounted strike plate. Each lock includes one jamb-mounted strike plate and two keys.

LOCK FINISH	RANDOM KEYS CAT. NO.	KEYED ALIKE CAT. NO.
Chrome	**EH212**	**EH212KA**
Black Chrome	**EH214**	**EH214KA**
Brass	**EH216**	**EH216KA**

No-Drill Locks can be combined for quantity pricing.

Single Glass Door Lock



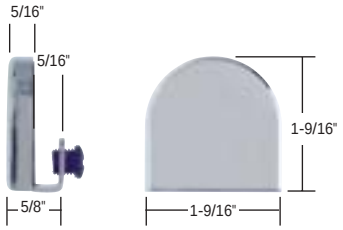
You can mount the Single Door No-Drill Lock on the top or bottom edges of the glass door if used with the jamb-mounted strike plate, or the vertical meeting edge of double glass doors if used with the matching Strike Plate shown at right. Each lock comes with one jamb-mounted strike plate and two keys.

LOCK FINISH	RANDOM KEYS CAT. NO.	KEYED ALIKE CAT. NO.
Chrome	**EH206**	**EH206KA**
Black Chrome	**EH208**	**EH208KA**
Brass	**EH210**	**EH210KA**

No-Drill Locks can be combined for quantity pricing.

Blank Keys also available to match existing keys.

Door Mounted Strike Plate



Use the Door Mounted Strike Plate in tandem with the Single Door No-Drill Lock to secure double glass doors in the middle. Size and finish match the Single Door Lock, creating an attractive locking system that can be mounted in seconds anywhere along the vertical meeting edges of the doors.

STRIKE FINISH	CAT. NO.
Chrome	**EH218**
Black Chrome	**EH220**
Brass	**EH222**

Strike Plates can be combined for quantity pricing.

CRL Slideguard Lock (Original Type)

- **Glue-on Keyed Lock for Sliding Doors and Windows**

The receiver portion of this Keyed Lock bonds permanently to glass or metal with supplied adhesive. The locking stop plate slides on and is removed with a key. Large 90° stop secures sliding doors and windows.

CAT. NO.	FINISH
SLG014	Stainless Steel

Slideguard and Patio-Guard Locks can be combined for quantity pricing.

CRL Slideguard Lock ("Z" Type)

- **Glue-on Keyed Lock for Showcases**

This Lock operates the same as the Original Type Slideguard Lock. The stop is bent over to a "Z" configuration to prevent spreading of the glass doors on showcase installations.

CAT. NO.	FINISH
SLGZ14	Stainless Steel

Slideguard and Patio-Guard Locks can be combined for quantity pricing.

CRL Slideguard Lock (Thumbturn Type)

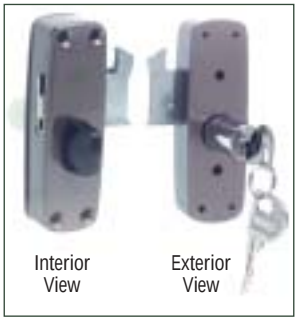
- **Glue-on Thumbturn Lock for Doors and Windows**

The receiver portion of this Thumbturn lock bonds permanently to glass or metal with supplied adhesive. The stop plate slides on and is removable by rotating the thumbturn. Large 90° stop secures sliding doors and windows.

CAT. NO.	FINISH
SLGT14	Stainless Steel

Slideguard and Patio-Guard Locks can be combined for quantity pricing.

CRL Patio-Guard Lock (Outside Key Lock Entry)



- **Outside Keyed Lock for Sliding Glass Doors and Swinging Doors**

This Lock can be used as a dead bolt, hook latch, or swinging door lock. For 3/4" to 1-3/8" thick doors. Supplied in aluminum or bronze finish with two keys.

CAT. NO.	FINISH
NDS10B	Bronze
NDS32D	Aluminum

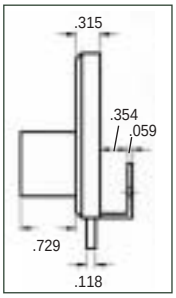
Slideguard and Patio-Guard Locks can be combined for quantity pricing.

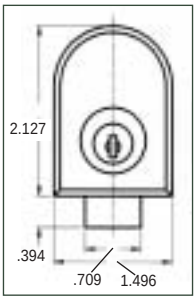
CRL Locks

All Glass Door Locks Can Be Combined For Quantity Pricing.

Cabinet Sliding Glass Door Push Lock

- No Need to Drill a Hole
- Fits Up to 1/4" Glass



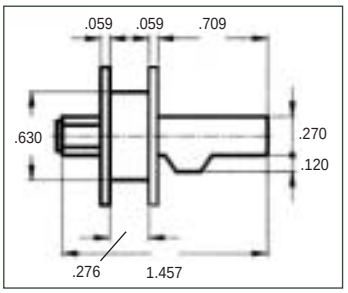


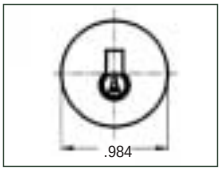
Accessories: Two Brass Keys, Strike Plate, Mounting Plate and Two Screws

CAT. NO.	DESCRIPTION
LK10	Chrome Plated Lock
LK10KA	Keyed Alike Chrome Plated Lock
LK12	Black Plated Lock
LK12KA	Keyed Alike Black Plated Lock
LK14	Gold Plated Lock
LK14KA	Keyed Alike Gold Plated Lock

Cabinet Sliding Glass Door Lock

- Requires Drilling 11/16" Hole in Glass
- Fits Up to 1/4" Glass



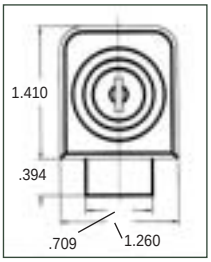


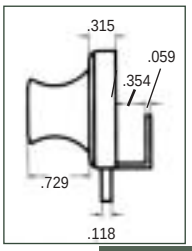
Accessories: Two Brass Keys, Plug Locking Case, Two Washers and Two Screws

CAT. NO.	DESCRIPTION
LK16	Chrome Plated Lock
LK16KA	Keyed Alike Chrome Plated Lock

Cabinet Glass Door Lock for Single Door

- No Need to Drill a Hole
- Fits Up to 1/4" Glass



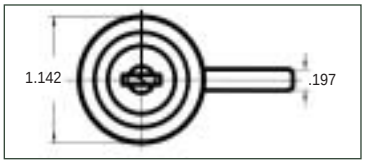


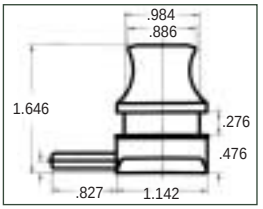
Accessories: Two Brass Keys, Strike Plate and Two Screws

CAT. NO.	DESCRIPTION
LK42	Chrome Plated Lock
LK42KA	Keyed Alike Chrome Plated Lock
LK44	Gold Plated Lock
LK44KA	Keyed Alike Gold Plated Lock

Glass Door Cylinder Lock with Keeper

- Requires Drilling 1" Hole in Glass
- Fits Up to 1/4" Glass



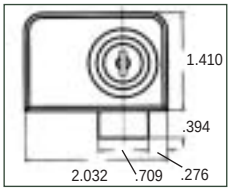


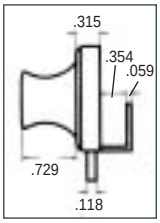
Accessories: Two Brass Keys, Four Washers, Keeper and Two Screws

CAT. NO.	DESCRIPTION
LK38	Chrome Plated Lock
LK38KA	Keyed Alike Chrome Plated Lock
LK40	Gold Plated Lock
LK40KA	Keyed Alike Gold Plated Lock

Cabinet Glass Door Lock for Double Doors

- No Need to Drill a Hole
- Fits Up to 1/4" Glass

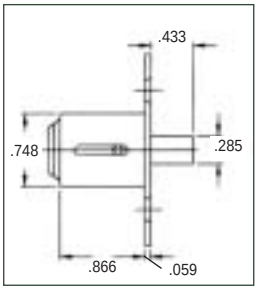


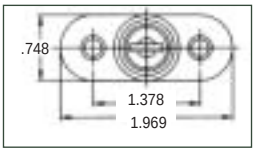


Accessories: Two Brass Keys, Strike Plate and Two Screws

CAT. NO.	DESCRIPTION
LK46	Chrome Plated Lock
LK46KA	Keyed Alike Chrome Plated Lock
LK48	Gold Plated Lock
LK48KA	Keyed Alike Gold Plated Lock

Plunger Lock for Sliding Track





- No Need to Drill a Hole in Glass

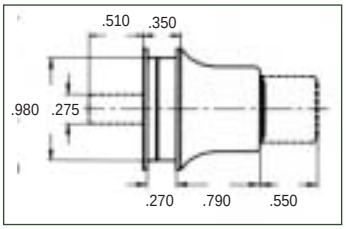
Accessories: Two Brass Keys, Trim Washer

CAT. NO.	DESCRIPTION
LK54	Nickel Plated Lock
LK54KA	Keyed Alike Nickel Plated Lock

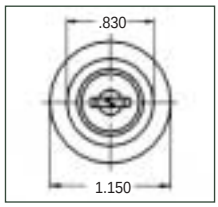
CRL Locks

Cabinet Glass Door Lock

- Fits Up to 1/4" Glass
- For Bypassing Cabinet Doors



- Requires Drilling 1" Hole in Glass

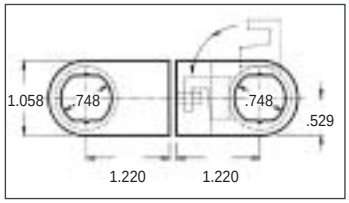


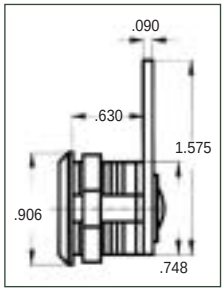
Accessories: Two Brass Keys, Two Washers

CAT. NO.	DESCRIPTION
LK50	Chrome Plated Lock
LK50KA	Keyed Alike Chrome Plated Lock
LK52	Brass Plated Lock
LK52KA	Keyed Alike Brass Plated Lock

Swinging Glass Door Lock

- For 1/4" Glass Double Doors





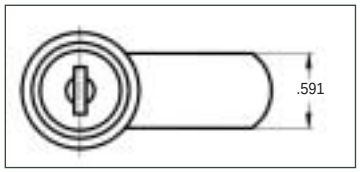
- Requires Drilling 3/4" Holes in Glass

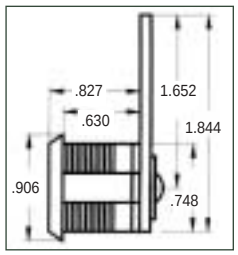
Accessories: Two Brass Keys, Offset Hook Cam, Two Front Plates, Two Washers and Two Hex Nuts

CAT. NO.	DESCRIPTION
LK26	Chrome Plated Lock
LK26KA	Keyed Alike Chrome Plated Lock
LK28	Brass Plated Lock
LK28KA	Keyed Alike Brass Plated Lock

Cabinet Swinging Glass Door Lock

- For Double Doors
- Requires Drilling 3/4" Hole in Glass



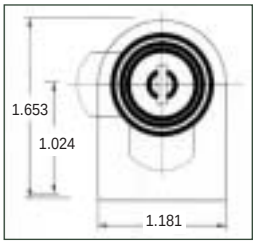


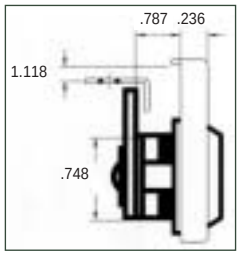
Accessories: Two Brass Keys, Front Plate, Strike Plate, Straight Cam, Washer, Hex Nut and Two Screws

CAT. NO.	DESCRIPTION
LK30	Chrome Plated Lock
LK30KA	Keyed Alike Chrome Plated Lock
LK32	Brass Plated Lock
LK32KA	Keyed Alike Brass Plated Lock

Cabinet Swinging Glass Door Lock

- 3/4" Diameter Cylinder





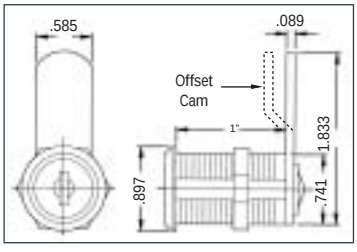
- Requires Drilling 3/4" Hole in Glass

Accessories: Two Brass Keys, Front Plate, Strike Plate, Straight Cam, Washer, Hex Nut and Two Screws

CAT. NO.	DESCRIPTION
LK34	Chrome Plated Lock
LK34KA	Keyed Alike Chrome Plated Lock
LK36	Brass Plated Lock
LK36KA	Keyed Alike Brass Plated Lock

Cam Lock for Wood Door

- For 3/4" Wood Doors



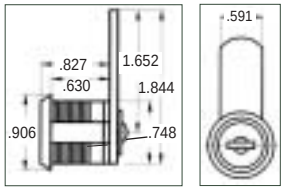
- Requires Drilling 3/4" Hole
- 1" Long, 3/4" Diameter Cylinder

Accessories: Two Cams, Washer, Nut, Two Keys

CAT. NO.	DESCRIPTION
LK56	Nickel Plated Cam Lock
LK56KA	Keyed Alike Nickel Plated Cam Lock

Cabinet Swinging Glass Door Lock

Accessories: Two Brass Keys, Front Plate, Strike Plate, Straight Cam, Washer, Hex Nut and Two Screws



- For Single Doors
- Requires Drilling 3/4" Hole in Glass

CAT. NO.	DESCRIPTION
LK18	LH Chrome Plated Lock
LK18KA	LH Chrome Plated Lock Keyed Alike
LK20	LH Brass Plated Lock
LK20KA	LH Brass Plated Lock Keyed Alike

CAT. NO.	DESCRIPTION
LK22	RH Chrome Plated Lock
LK22KA	RH Chrome Plated Lock Keyed Alike
LK24	RH Brass Plated Lock
LK24KA	RH Brass Plated Lock Keyed Alike

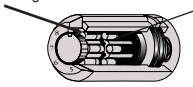
CRL Keymatic Locks

Keymatic Locks combine high security with the ability to select eight different keys to operate each lock. The Master Combination Key allows you to change the lock to accept any one of the eight keying combinations you choose. This lets you change combinations between shift changes, or in cases where a key might have become lost or stolen. The quick combination change maintains security with no lost time for lock replacements. Keymatic Locks feature "captive operation" that assures the key can only be removed in the locked position. Each Keymatic Lock comes with a Master Combination Change Key (Cat. No. KMKM), and two No. 1 Combination Keys (Cat. No. KMK1) for basic lock functions. You may change cylinder combinations with the gold colored Master Combination Key to use any of the other seven Combination Keys (Cat. Nos. KMK2-KMK8). There are four Keymatic Lock varieties, and they all use the exclusive Keymatic Cylinder for superior security and wear resistance. All Keymatic Locks have a U.S.14 bright polished nickel finish. Optional finishes are satin nickel and bright polished brass (available on special order).

Keymatic Cylinder

Circular keyway provides superior security. Precise angles resist lock picking.

16 pin tumblers of stainless steel to resist wear and rounding (eight in the front and eight in the rear).



Captive Keys

Captive keying assures the key can only be removed in the locked position.

Key Options for Keymatic Locks

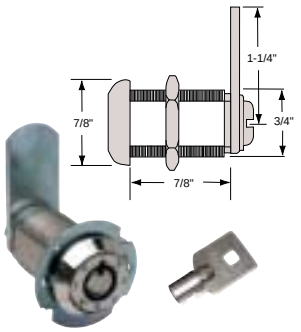
With Keymatic you can change the combination to use up to eight different keys to operate the lock, but only one at a time. Note: Master Combination Key will not perform lock functions. It will only change lock combinations.

Keys for All Keymatic Locks

CAT. NO.	DESCRIPTION
KMKM*	Master Combination Change Key
KMK1	No. 1 Combination Key
KMK2	No. 2 Combination Key
KMK3	No. 3 Combination Key
KMK4	No. 4 Combination Key
KMK5	No. 5 Combination Key
KMK6	No. 6 Combination Key
KMK7	No. 7 Combination Key
KMK8	No. 8 Combination Key

*To reset combination to match available keys, simply insert the Master Combination Change Key in each number position until it frees movement back to the available key positions.

Drawer/Door Cam Lock



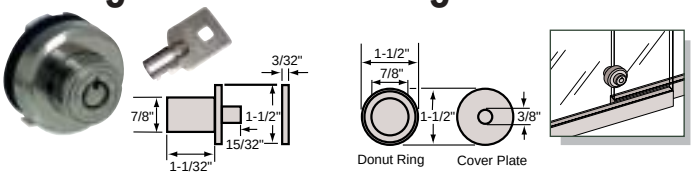
- **Keymatic Cylinder Allows Instant Combination Changes**
- **Fits Drawers and Doors Up to 5/8" Thick**

The Keymatic Cam Lock for doors and drawers up to 5/8" thick uses the Keymatic Multi-Combination Cylinder. Polished nickel finish lock comes with spur washer for mounting in wood doors and drawers, two No. 1 Combination Keys (Cat. No. KMK1), and one Master Combination Change Key. Keys for other combinations (Cat. No. KMK2-KMK8) must be ordered separately.

CAT. NO.	DESCRIPTION	BARREL LENGTH	MAX. THICKNESS	CAM LENGTH
KML13	Drawer/Door Cam Lock	7/8"	5/8"	1-1/4"

All Keymatic Locks can be combined for quantity pricing.

Sliding Glass Door Plunger Lock



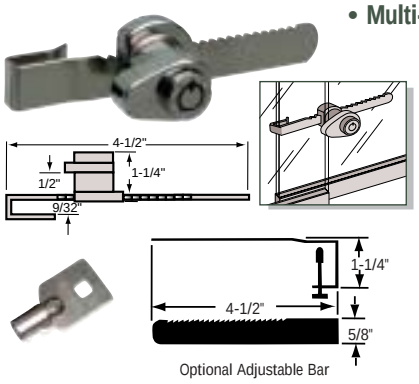
- **Installs Directly Onto Glass Up to 1/2" Thick Through 1-3/16" Hole**

Excellent for any sliding glass door, the Keymatic Plunger Lock is installed directly onto glass with plunger resting against edge of back sliding door. A 1-3/16" hole must be drilled in front sliding door to accept lock. Will work in doors up to 1/2" thick. Captive operation system allows key to be removed only in locked position. Accessories include glass cover plate and donut rings, plastic insert washers and screws.

CAT. NO.	DESCRIPTION	MAX. DOOR THICKNESS
KML41GL	Glass Door Plunger Lock	1/2"

All Keymatic Locks can be combined for quantity pricing.

Sliding Door Ratchet Lock



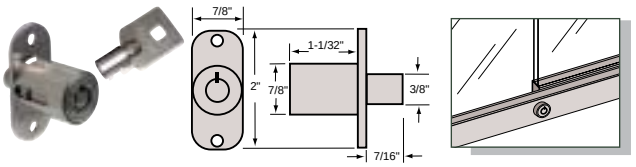
- **Multi-Combination Cylinder**

Specifically designed as a top security lock for sliding cabinet doors. Exclusive Keymatic cylinder allows combination change using Master Combination Key. Up to eight different keys may be used to operate lock. Captive design assures key can only be removed in locked position. Installs with only a screwdriver. Maximum door thickness is 1/4" with standard bar. Optional Adjustable Bar allows use on doors up to 1" thick. Front shoulder on barrel prevents spreading of glass panels to bypass the lock.

CAT. NO.	DESCRIPTION	MAX. DOOR THICKNESS
KML48	Standard Ratchet Lock	1/4"
KML48AB	Optional Adjustable Bar	1"

All Keymatic Locks can be combined for quantity pricing.

Sliding Door Plunger Lock



- **Fits Doors Up to 1-1/32" Thick**

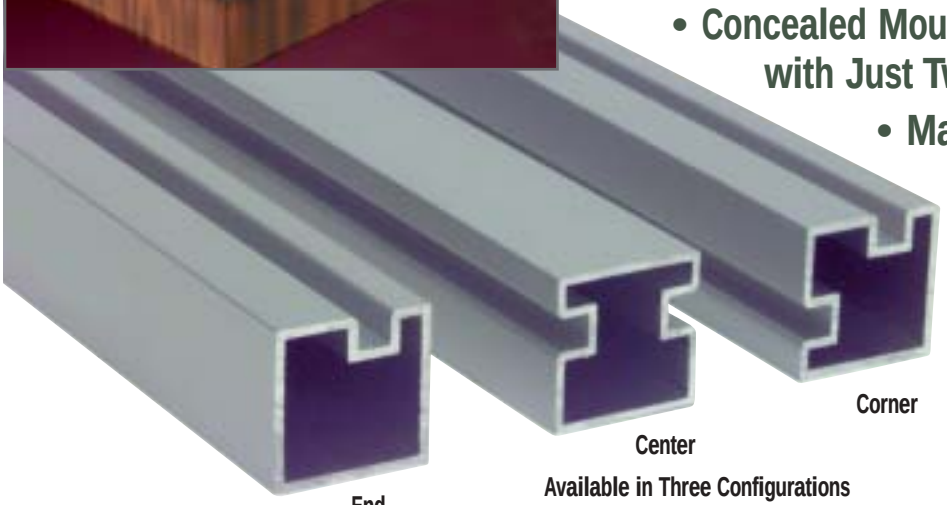
The Keymatic Sliding Door Plunger Lock can be installed to engage either by pushing into a drilled hole, or resting against the edge of the back sliding door. Excellent for any sliding door application other than glass doors, for which we have the KML41GL Sliding Glass Door Plunger Lock. Key can only be removed in locked position. Fits doors up to 1-1/32" thick. Requires a 7/8" hole for installation.

CAT. NO.	DESCRIPTION	MAX. DOOR THICKNESS
KML41	Sliding Door Plunger Lock	1-1/32"

All Keymatic Locks can be combined for quantity pricing.

CRL Counter Posts

- Extruded Aluminum Posts for 7/32” or 1/4” Glass
- Satin Anodized, Buffed Bright Anodized and Bronze Finishes
- Standard Heights of 12", 18" and 24" with Cap and Mounting Base
- Concealed Mounting Base Installs with Just Two Screws
- Make Your Own Custom Size Posts from Our 72” or 146” Extrusions



Corner

Center

End

Available in Three Configurations

Posts measure 1-5/16" square;
Posts caps measure 1-3/8" square;
Posts caps add 1/4" to height of post;
Recessed glass pockets are 9/32" deep.

CRL Counter Posts are so versatile because you can arrange the three styles in any pattern required to complete an efficient and attractive counter post installation. Made of heavy-duty extruded aluminum, these posts have recessed channels that will accept 7/32” to 1/4” plate or patterned glass. They're available in Satin Anodized, Buffed Bright Anodized and Bronze Finishes. You can install them in wood, marble or vitreous counter tops using an ingenious yet simple concealed Mounting Base that requires only two screws to secure it. A black plastic, pyramid-shaped Post Cap snaps in on top to complete the installation. A minimum of inventory is required to fabricate posts of any height because you need only three extrusions, mounting bases and caps to handle any counter post job. CRL Counter Posts are also stocked in standard 12, 18 and 24 inch heights. What could be more convenient?

CRL COUNTER POSTS

POST FINISHES		SATIN ANODIZED	DURANODIC BRONZE	BUFFED BRIGHT ANODIZED	
DESCRIPTION		CAT.NO.	CAT.NO.	CAT.NO.	
12"	Corner Post Kit	6406312	6407312	6408312	CORNER
18"	Corner Post Kit	6406318	6407318	6408318	
24"	Corner Post Kit	6406324	6407324	6408324	
72"	Corner Post Extrusion*	6421000	6421010	6421020	
146"	Corner Post Extrusion*#	6431000	6431010	6431020	
12"	Center Post Kit	6406412	6407412	6408412	CENTER
18"	Center Post Kit	6406418	6407418	6408418	
24"	Center Post Kit	6406424	6407424	6408424	
72"	Center Post Extrusion*	6422000	6422010	6422020	
146"	Center Post Extrusion*#	6432000	6432010	6432020	
12"	End Post Kit	6406512	6407512	6408512	END
18"	End Post Kit	6406518	6407518	6408518	
24"	End Post Kit	6406524	6407524	6408524	
72"	End Post Extrusion*	6423000	6423010	6423020	
146"	End Post Extrusion*#	6433000	6433010	6433020	
146"	Base Extrusion*#	6435000			

All Post Kits can be combined for quantity pricing. Post Kits include post, cap, mounting base and screws.
*Post Extrusions can be combined for quantity pricing. #146" Extrusions must ship common carrier, unless you specify we cut them for U.P.S.

CRL Post Cap

Black plastic Post Cap snaps into all three post extrusions. Measures 1-3/8” square with 1/4" pyramid apex. Cap is included with all Standard Height Post Kits.

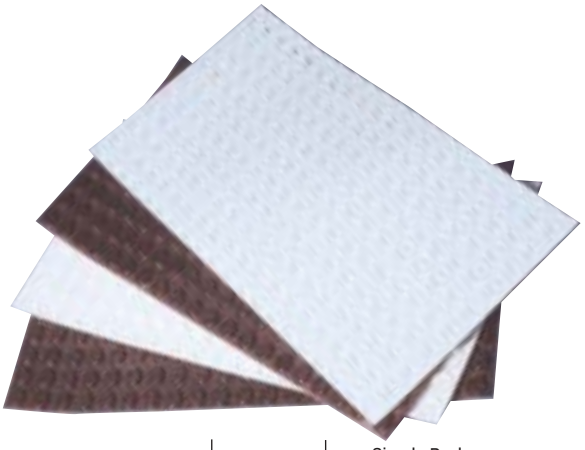
Cat.No. 6406001

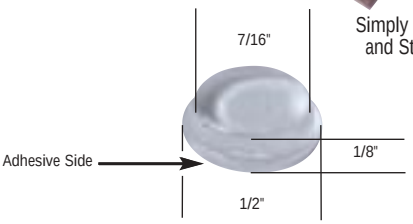
CRL Post Mounting Base

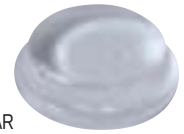
Post Mounting Bases are 1-1/8” square with ribbed sides. Use included 3” screws for mounting into any surface, then complete installation by press-fitting post to conceal base. Base is included with all Standard Height Post Kits.

Cat.No. 6406002

CRL Protective Bumpads






CLEAR

WHITE

BROWN

- **Excellent Protection Against Shock and Vibration**
- **Use on Cabinet Doors, Desk Tops and Glass Table Tops**

Bumpads provide a cushion wherever slamming, scratching, nicking, scuffing, sliding, or vibration could present a problem. Serving a multitude of purposes, they can be used as spacers for cabinet doors, lids and drawers. Bumpads can also be used as feet on the bottom of desk top calculators, typewriters, telephones, clocks, speakers, or even computers. They also are excellent padding and cushioning for stacking glass or metal sheets. To use, simply peel and stick. Bumpads are packaged for economy and convenience in packs of 1,000, and are also available in bulk cartons of 5,000.

CONVENIENCE PACKS

CAT. NO.	COLOR	QTY./PKG.
CB1PK	Clear	1000
WB1PK	White	1000
BRB1PK	Brown	1000

Packages of Bumpads can be combined for quantity pricing.

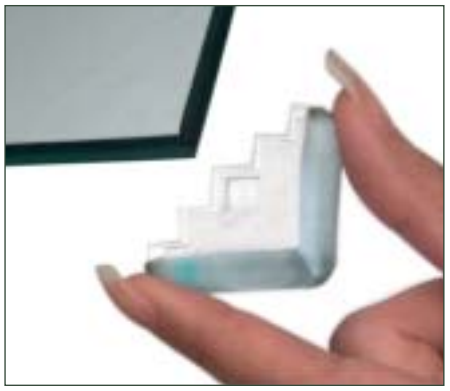
BULK CARTONS

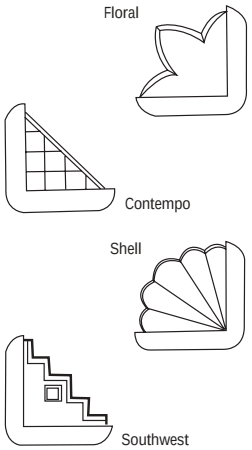
CAT. NO.	COLOR	QTY./CTN.
CB1	Clear	5000
WB1	White	5000
BRB1	Brown	5000

Bulk Cartons of Bumpads can be combined for quantity pricing.

CRL Cushy Corners

- **Four Designs To Choose From**





- **Can Be Used on 1/4" to 3/4" Thick Glass**
- **Decorative Protection for Glass Table Tops**
- **Protects Against Bumps and Bruises**
- **Easy to Apply** • **Removable and Reusable**

Cushy Corners offer protection against bumps and bruises from sharp corners of glass table tops, desk tops, cabinet corners, etc. The soft cushioned styles of Cushy Corners come in four designs in packages of four corners. These decorative corners are especially helpful in homes with toddlers, and will not damage furniture surfaces. Easy to apply with concealed adhesive transfer strips. Can be removed for cleaning. Transparent light blue tint.

CAT. NO.	STYLE	QTY./PKG.
C6050	Shell	4
C6060	Floral	4
C6070	Southwest	4
C6080	Contempo	4

Styles can be combined for quantity pricing.

NOTE: For 1/4", 3/8" and 1/2" thick glass, use one Cushy Corner on the top of the corner. For 3/4" glass, "sandwich" the glass with one Cushy Corner on the top and one on the bottom of the corner.

CRL Align-It Leveling Clips

- **Makes Aligning Mirrors a Snap**
- **For Vertical and Horizontal Joints**
- **Excellent for Shower and Storefront Work**

Invented by a glass tradesman, CRL Align-It Clips align your mirrors and glass panels to provide even reflections while viewing. Align-It Clips maintain mirror and glass position while the mastic or sealant cures. By placing two or more Align-It Clips between panels during installation, and tensioning the alignment plates, both panels will position themselves into a straight line with very little effort. Clips can also be used when butt-glazing plate and insulating glass!

CAT. NO.	QTY./PKG.
A1LC	12

Set first mirror into place.

Apply mastic to back of A1LC Clip.

Position behind mirror.

Tighten plate into position until mastic has firmed, then remove and cut strap.

CRL 3M™ V-Groove and Edge Bevel Tape

- **Instantly Changes Glass From Ordinary to Elegant**
- **Can Be Used on Most Any Smooth Glass or Mirror**
- **Three V-Groove and Four Edge Bevel Widths**

V-Groove Tape

Edge Bevel Tape

With 3M™ V-Groove and Edge Bevel Tapes you can give ordinary glass and mirror that expensive "cut glass" look without the high price, long lead times, and all the extra work. Our selection of three V-Groove and four Edge Bevel widths will give you many design alternatives because these tapes completely change the appearance of glass by creating the illusion of a V-Groove or Bevel. Use them to change ordinary looking cabinet doors into elegant cabinet doors. Give the illusion of depth by applying it to the edges of 1/8" glass or mirrors. It can even serve as a "floating" indicator of the presence of large glass partitions in offices or retail stores. Edge Bevel and V-Groove Styles can be combined to produce designs that would be impossible to fabricate by machine. They are really amazing to see, and add value wherever applied.

V-Groove and Edge Bevel Tapes have tremendous adhesion when properly applied to clean, smooth glass surfaces (especially float glass), will resist edge-lifting and yellowing, and have excellent long-term aging properties. NOTE: Tapes must be applied at room temperature or higher, and are not intended for outdoor exposure. For maximum efficiency, use the CRL Precision Cutter and Flat Seam Roller Tool.

CAT. NO.	WIDTH	LENGTH	DESCRIPTION
3MB20012	1/2"	60 Feet	V-Groove Tape
3MB20034	3/4"	60 Feet	V-Groove Tape
3MB2001	1"	60 Feet	V-Groove Tape
3MB10012	1/2"	60 Feet	Edge Bevel Tape
3MB10034	3/4"	60 Feet	Edge Bevel Tape
3MB1001	1"	60 Feet	Edge Bevel Tape
3MB100114	1-1/4"	60 Feet	Edge Bevel Tape

Types and sizes can be combined for quantity pricing.

CRL Flat Seam Roller Tool

- **For Use with V-Groove and Edge Bevel Tapes**

Our Flat Seam Roller Tool is the perfect way to squeeze out moisture and bubbles from under V-Groove or Edge Bevel Tape during installation. The 1-1/4" roller will not harm the tape or glass surfaces.

Cat.No. 4911R

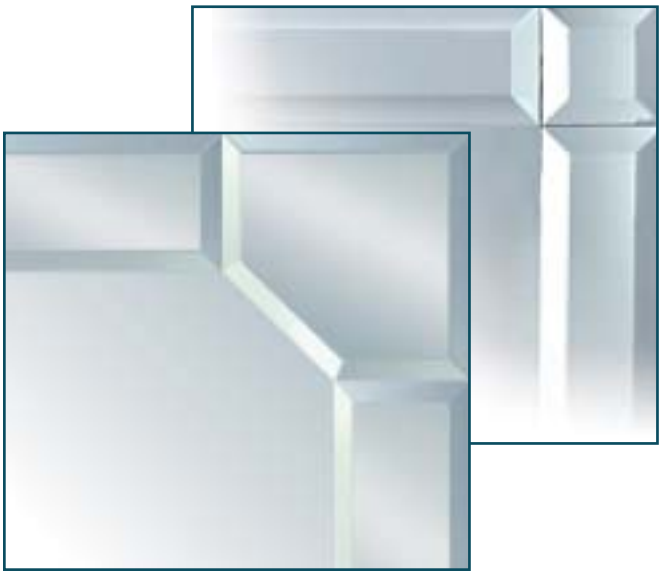
CRL Precision Cutter

The Precision Tape Cutter makes it easy to cut 3M™ V-Groove and Edge Bevel Tapes to specific angles and lengths for virtually seamless intersection of pieces. The unique design adjusts to cut through the tape without cutting through the tape's liner, making application easier, while limiting exposure of the adhesive to dust and fingerprints during handing.

Cat. No. 3MM45

CRL Fully Beveled Mirror Parts

- 2", 3" and 4" Sizes
- 1/2" Bevel On All Sides

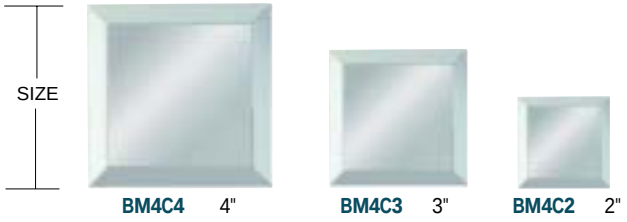


Our New Beveled Mirror Parts let you make decorative custom mirrors out of ordinary glass mirrors. Each Fully Beveled Mirror Part is made of 1/4" thick clear plate glass mirror, and has a full 1/2" bevel on all sides. There are four different shapes and three sizes (2", 3" and 4"), plus Fully Beveled Mirror Strips in lengths up to 56". Fully Beveled Mirror Parts are individually carded for resale, and include easy-to-follow instructions. We suggest the use of CRL423212 Black Foam Mounting Tape to secure Mirror Parts and Strips to the base mirror. All Beveled Mirror Parts can be combined for quantity pricing.

NOTE: Mirror Parts are shipped F.O.B. all CRL locations. Mirror Strips are available only at CRL Will Call. CRL Mirror Parts are hand beveled, and have a dimensional tolerance of ±1/32".

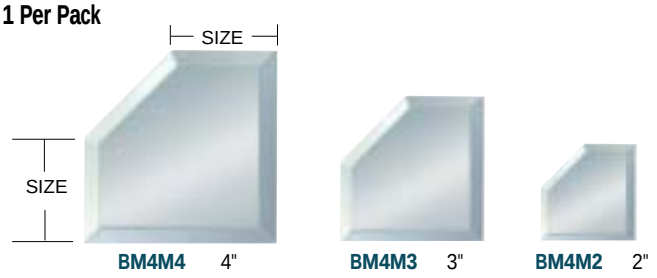
Mirror Squares Beveled On All 4 Sides

1 Per Pack



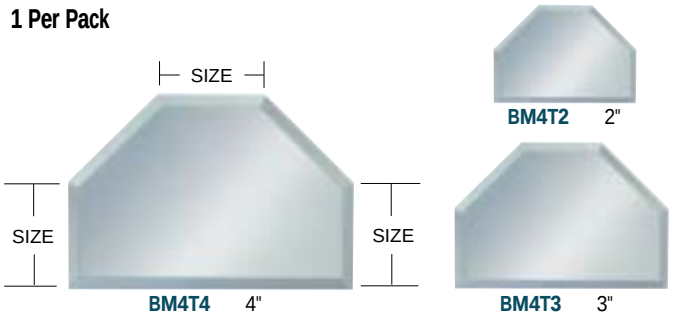
Mitered Mirror Corners Beveled On All 5 Sides

1 Per Pack



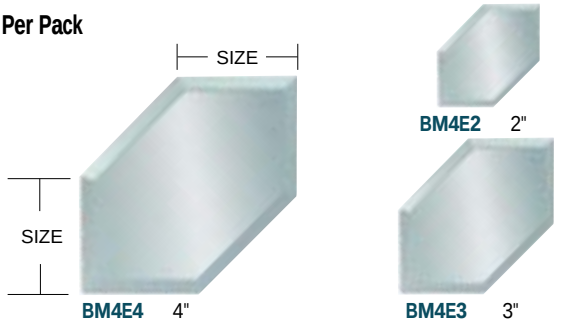
Mirror T-Connectors Beveled On All 6 Sides

1 Per Pack



Mirror Emerald Corners Beveled On All 6 Sides

1 Per Pack



Mirror Strips Beveled On All 4 Sides

4 Per Pack

NOTE: Mirror Strips are available only at CRL Will Call locations. Packs of Beveled Mirror Strips can be combined for quantity pricing.

2" WIDE STRIPS

CAT. NO.	WIDTH X LENGTH
BM4S2X20	2" X 20"
BM4S2X32	2" X 32"
BM4S2X38	2" X 38"
BM4S2X44	2" X 44"
BM4S2X56	2" X 56"

3" WIDE STRIPS

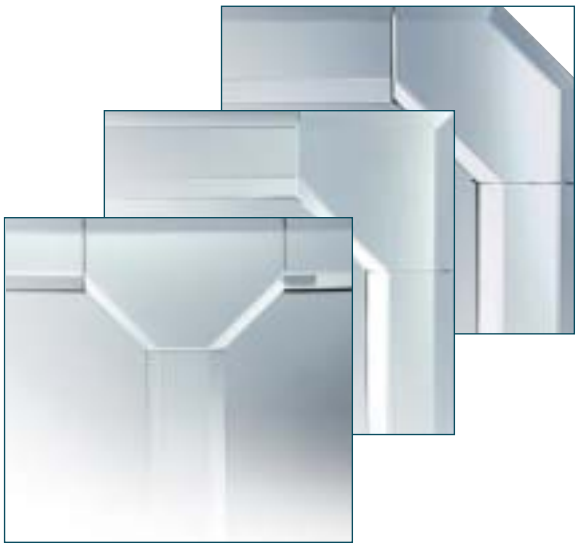
CAT. NO.	WIDTH X LENGTH
BM4S3X18	3" X 18"
BM4S3X30	3" X 30"
BM4S3X36	3" X 36"
BM4S3X42	3" X 42"
BM4S3X54	3" X 54"

4" WIDE STRIPS

CAT. NO.	WIDTH X LENGTH
BM4S4X16	4" X 16"
BM4S4X28	4" X 28"
BM4S4X34	4" X 34"
BM4S4X40	4" X 40"
BM4S4X52	4" X 52"

CRL Beveled Mirror Parts

- **2", 3" and 4" Sizes**
- **1/2" Bevel On Some Sides**



These New Beveled Mirror Parts are decorative and easy-to-install accents for ordinary glass mirrors. We make each Mirror Part from 1/4" thick clear plate glass mirror with a 1/2" bevel on some sides. You can match the unbeveled or "cut" edges together with other Mirror Parts or Strips to form a continuous design. There are four different shapes and three sizes (2", 3" and 4"), and Beveled Mirror Strips with cut ends in lengths up to 56". We individually card Beveled Mirror Parts for resale, and include easy-to-follow mounting instructions. We suggest the use of CRL423212 Black Foam Tape to secure Mirror Parts and Strips to the base mirror.

NOTE: Mirror Parts are shipped F.O.B. all CRL locations. Mirror Strips are available only at CRL Will Call. CRL Mirror Parts are hand beveled, and have a dimensional tolerance of ±1/32".

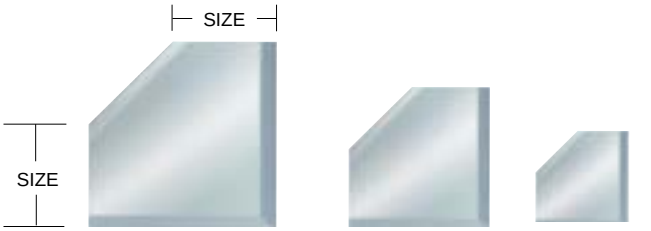
Mirror Squares Beveled On 2 Sides

1 Per Pack

BM2C4 4" **BM2C3** 3" **BM2C2** 2"

Mitered Mirror Corners Beveled On 3 Sides

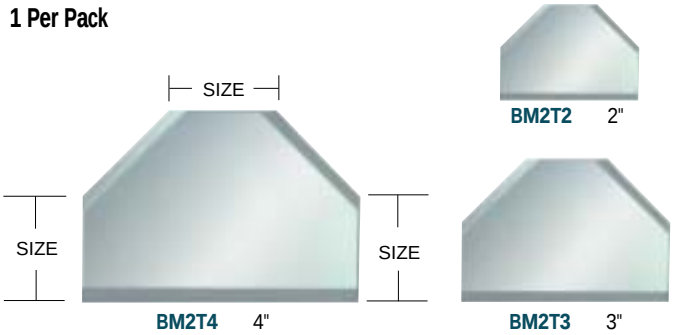
1 Per Pack



BM2M4 4" **BM2M3** 3" **BM2M2** 2"

Mirror T-Connectors Beveled On 3 Sides

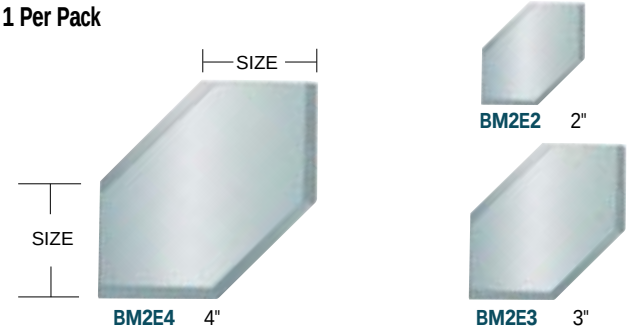
1 Per Pack



BM2T4 4" **BM2T3** 3" **BM2T2** 2"

Mirror Emerald Corners Beveled On 4 Sides

1 Per Pack



BM2E4 4" **BM2E3** 3" **BM2E2** 2"

Mirror Strips Beveled Only On 2 Long Sides

4 Per Pack

NOTE: Mirror Strips are available only at CRL Will Call locations. Packs of Beveled Mirror Strips can be combined for quantity pricing.

2" WIDE STRIPS

CAT. NO.	WIDTH X LENGTH
BM2S2X20	2" X 20"
BM2S2X32	2" X 32"
BM2S2X38	2" X 38"
BM2S2X44	2" X 44"
BM2S2X56	2" X 56"

3" WIDE STRIPS

CAT. NO.	WIDTH X LENGTH
BM2S3X18	3" X 18"
BM2S3X30	3" X 30"
BM2S3X36	3" X 36"
BM2S3X42	3" X 42"
BM2S3X54	3" X 54"

4" WIDE STRIPS

CAT. NO.	WIDTH X LENGTH
BM2S4X16	4" X 16"
BM2S4X28	4" X 28"
BM2S4X34	4" X 34"
BM2S4X40	4" X 40"
BM2S4X52	4" X 52"

CRL Glass Mirror Plates

Our Glass Mirror Plates have polished beveled edges and are cut from quality 3/16" plate glass. There are 14 different styles of single gang plates, each available in 4 colors: clear, bronze, gray and peach. All plates are individually blister carded in an attractive retail package. Mounting screws are included. Plate size is 3-1/2" x 5-1/4".

CAT. NO.	COLOR
GMP1C	Clear
GMP1B	Bronze
GMP1G	Gray
GMP1P	Peach
GMP2C	Clear
GMP2B	Bronze
GMP2G	Gray
GMP2P	Peach
GMP3C	Clear
GMP3B	Bronze
GMP3G	Gray
GMP3P	Peach
GMP4C	Clear
GMP4B	Bronze
GMP4G	Gray
GMP4P	Peach
GMP5C	Clear
GMP5B	Bronze
GMP5G	Gray
GMP5P	Peach
GMP12C	Clear
GMP12B	Bronze
GMP12G	Gray
GMP12P	Peach
GMP104C	Clear
GMP104B	Bronze
GMP104G	Gray
GMP104P	Peach

CAT. NO.	COLOR
GMP106C	Clear
GMP106B	Bronze
GMP106G	Gray
GMP106P	Peach
GMP107C	Clear
GMP107B	Bronze
GMP107G	Gray
GMP107P	Peach
GMP108C	Clear
GMP108B	Bronze
GMP108G	Gray
GMP108P	Peach
GMP111C	Clear
GMP111B	Bronze
GMP111G	Gray
GMP111P	Peach
GMP112C	Clear
GMP112B	Bronze
GMP112G	Gray
GMP112P	Peach
GMP113C	Clear
GMP113B	Bronze
GMP113G	Gray
GMP113P	Peach
GMP115C	Clear
GMP115B	Bronze
GMP115G	Gray
GMP115P	Peach

Single Gang Plates in 14 Styles

THE LARGEST SELECTION

- **Blister Carded for Retail Display**
- **All Sizes and Designs are Available in Clear, Bronze, Gray and Peach Colors**

GMP1*
Single Plug
1-3/8" Hole

GMP2
Duplex Plug

GMP3*
Toggle Switch

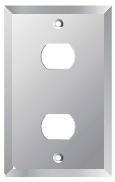
GMP4▲
Cable TV
3/8" Hole

GMP5▲
Blank

GMP12#
Decora

GMP104*
Dimmer Switch
1/2" Hole

GMP106#
Despard



GMP107#
2 x Despard

GMP108#
3 x Despard

* 2-3/8" cc Switch Hole Spacing
▲ 3-1/4" cc Box Hole Spacing
3-13/16" cc Decora Hole Spacing

GMP111▲
Offset Cable TV
3/8" Hole

GMP112*
1-1/4" Square
Telephone

GMP113▲
Small Telephone
5/8" Hole

GMP115
Modular Phone
(Jack Included)

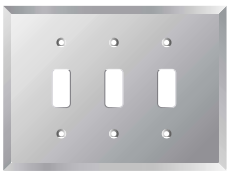
CAT. NO.	COLOR
GMP9C	Clear
GMP9B	Bronze
GMP9G	Gray
GMP9P	Peach
GMP10C	Clear
GMP10B	Bronze
GMP10G	Gray
GMP10P	Peach
GMP15C	Clear
GMP15B	Bronze
GMP15G	Gray
GMP15P	Peach
GMP16C	Clear
GMP16B	Bronze

CAT. NO.	COLOR
GMP16G	Gray
GMP16P	Peach
GMP303C	Clear
GMP303B	Bronze
GMP303G	Gray
GMP303P	Peach
GMP305C	Clear
GMP305B	Bronze
GMP305G	Gray
GMP305P	Peach
GMP310C	Clear
GMP310B	Bronze
GMP310G	Gray
GMP310P	Peach

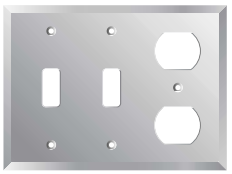
Triple Gang Plates in 7 Styles

Triple Gang Plates are made from 3/16" plate glass. Plates have polished beveled edges. Plate size is 7-1/4" x 5-1/4".

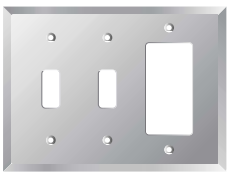
- **All Triple Gang Plates are Available in Clear, Bronze, Gray and Peach Colors**



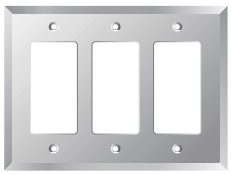
GMP9
3 x Toggle



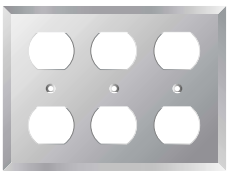
GMP10
2 x Toggle
Duplex



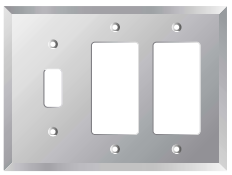
GMP15
2 x Toggle
Decora



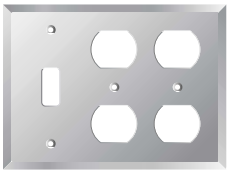
GMP16
3 x Decora



GMP303
3 x Duplex



GMP305
Toggle
2 x Decora



GMP310
Toggle
2 x Duplex

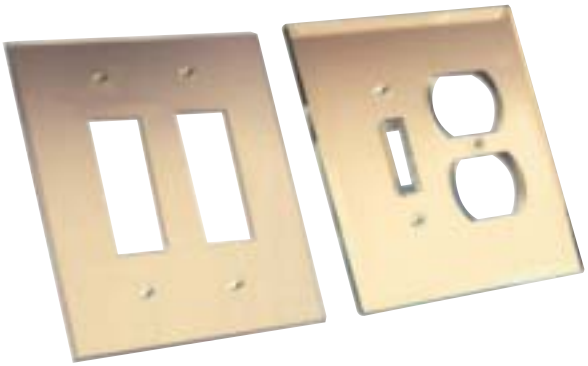
All Glass Mirror Plates can be combined for quantity pricing.

CRL Glass Mirror Plates

Double Gang Plates in 10 Styles

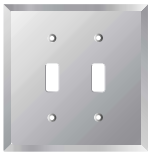
- **Available in Clear, Bronze, Gray and Peach Colors**

Double Gang Mirror Plates come in 10 distinct styles. Each is cut from 3/16" glass with polished beveled edges. All styles are retail blister carded with accessory screws. Plate size is 5-1/4" x 5-1/4".



GMP6
2 x Duplex

GMP7*
Duplex and Toggle Combo



GMP8*
2 x Toggle

GMP13#
2 x Decora

GMP14#*
Decora Toggle Combo

GMP18#
Decora Duplex Combo

GMP207*
2 x Dimmer 1/2" Holes

GMP208▲
Blank

GMP209#
4 x Despard

GMP210#
6 x Despard

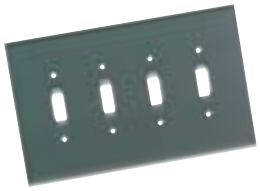
CAT. NO.	COLOR
GMP6C	Clear
GMP6B	Bronze
GMP6G	Gray
GMP6P	Peach
GMP7C	Clear
GMP7B	Bronze
GMP7G	Gray
GMP7P	Peach
GMP8C	Clear
GMP8B	Bronze
GMP8G	Gray
GMP8P	Peach
GMP13C	Clear
GMP13B	Bronze
GMP13G	Gray
GMP13P	Peach
GMP14C	Clear
GMP14B	Bronze
GMP14G	Gray
GMP14P	Peach

CAT. NO.	COLOR
GMP18C	Clear
GMP18B	Bronze
GMP18G	Gray
GMP18P	Peach
GMP207C	Clear
GMP207B	Bronze
GMP207G	Gray
GMP207P	Peach
GMP208C	Clear
GMP208B	Bronze
GMP208G	Gray
GMP208P	Peach
GMP209C	Clear
GMP209B	Bronze
GMP209G	Gray
GMP209P	Peach
GMP210C	Clear
GMP210B	Bronze
GMP210G	Gray
GMP210P	Peach

* 2-3/8" cc Switch Hole Spacing
▲ 3-1/4" cc Box Hole Spacing
3-13/16" cc Decora Hole Spacing

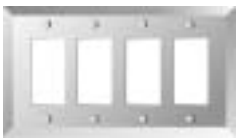
Four Gang Plates

Four Gang Glass Mirror Plates come in clear, bronze, gray and peach colors. 3/16" plates have polished beveled edges and measure 9" x 5-1/4".



CAT. NO.	COLOR
GMP11C	Clear
GMP11B	Bronze
GMP11G	Gray
GMP11P	Peach
GMP17C	Clear
GMP17B	Bronze
GMP17G	Gray
GMP17P	Peach
GMP19C	Clear
GMP20C	Clear

GMP11* - 4 x Toggle



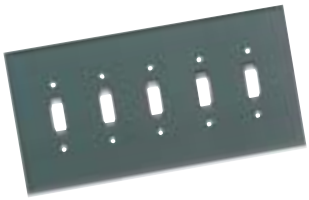
GMP17# - 4 x Decora

GMP19C - Decora 3 x Toggle

GMP20C - Duplex 3 x Toggle

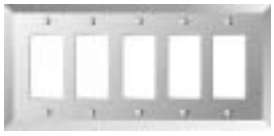
Five Gang Plates

Five Gang Plates are 3/16" thick, have polished beveled edges, and come in four colors. Plate size is 10-3/4" x 5-1/4".



CAT. NO.	COLOR
GMP501C	Clear
GMP501B	Bronze
GMP501G	Gray
GMP501P	Peach
GMP502C	Clear
GMP502B	Bronze
GMP502G	Gray
GMP502P	Peach

GMP501*
5 x Toggle

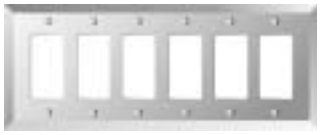


GMP502#
5 x Decora

Six Gang Plates

Six Gang Plates are our largest standard size offering, and come in all Toggle, or all Decora styles. 12-5/8" x 5-1/4" plates have polished beveled edges, and are 3/16" thick.

GMP601*
6 x Toggle



GMP602#
6 x Decora

CAT. NO.	COLOR
GMP601C	Clear
GMP601B	Bronze
GMP601G	Gray
GMP601P	Peach
GMP602C	Clear
GMP602B	Bronze
GMP602G	Gray
GMP602P	Peach

CRL Mirror Hole Nibbler

This tool will "nibble" a hole in an installed mirror if it is slightly off center to allow for exact mirror plate installation.

CAT. NO. MN1750

CRL Glass Mirror Plates in Bulk Packs

- **Full Factory Cartons of Our Most Popular Plates**
- **12 Styles in Clear Glass Mirror**
- **Other Colors and Styles Available on Special Order**

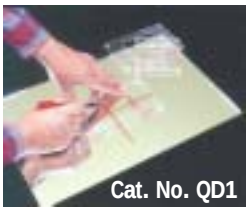
Our most popular Clear Mirror Plates are available in money saving bulk packs. These are the same blister carded GMP Series Mirror Plates shown on pages F216 and F217. Bulk packs are ideal if you use lots of a particular style plate, or for restocking the retail Glass Mirror Plate Display (Cat. No. GMP95D). Minimum order is bulk pack quantity.

CAT. NO.	DESCRIPTION	PACK QTY.
B2C	Single Duplex Plug	100
B3C	Single Toggle Switch	100
B4C	Single 3/8" Cable TV Hole	100
B6C	Double Duplex Plug	60
B7C	Duplex Plug/Toggle Switch	60
B8C	Double Toggle Switch	60

CAT. NO.	DESCRIPTION	PACK QTY.
B9C	Triple Toggle Switch	50
B12C	Single Decora Outlet	100
B13C	Double Decora Outlet	60
B14C	Decora Outlet /Toggle Switch	60
B16C	Triple Decora Outlet	50
B18C	Decora Outlet/Duplex Plug	60

CRL Quick-Draw Templates

The easy way to make mirror wall switch and outlet cut outs.



See Glazier's Tools Section Page F290

CRL Glass Mirror Plate Blanks

- **Clear, Bronze, Gray and Peach Colors in All Six Sizes**
- **5/16" Beveled Edges**
- **Single Through Six Gang Styles**

Mirror Plate Blanks are offered to conceal holes in mirror walls where outlets are no longer needed. Also use them as the base plate for custom cut or special design outlet plates. See information below on custom cut mirror plates available from CRL.

CAT. NO.	COLOR
BMP1GC	Clear
BMP1GB	Bronze
BMP1GG	Gray
BMP1GP	Peach
BMP2GC	Clear
BMP2GB	Bronze
BMP2GG	Gray
BMP2GP	Peach

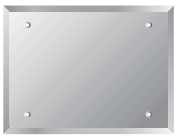
CAT. NO.	COLOR
BMP3GC	Clear
BMP3GB	Bronze
BMP3GG	Gray
BMP3GP	Peach
BMP4GC	Clear
BMP4GB	Bronze
BMP4GG	Gray
BMP4GP	Peach

CAT. NO.	COLOR
BMP5GC	Clear
BMP5GB	Bronze
BMP5GG	Gray
BMP5GP	Peach
BMP6GC	Clear
BMP6GB	Bronze
BMP6GG	Gray
BMP6GP	Peach

Mirror Plate Blanks can be combined with Glass Mirror Plates for quantity pricing.

BMP1
3-1/2" x 5-1/4"

BMP2
5-1/4" x 5-1/4"



BMP3
7-1/4" x 5-1/4"

BMP4
9" x 5-1/4"

BMP5
10-3/4" x 5-1/4"

BMP6
12-5/8" x 5-1/4"

CRL Glass Mirror Plate Display

Our Glass Mirror Plate Display includes 43 individually carded Clear Glass Mirror Plates in the most popular styles. Attractive chrome stand holds plates and two cans of glass cleaner. It's a real profit opportunity for your business

Cat. No. GMP95D

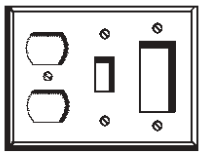
EACH DISPLAY KIT CONTAINS:

6 EA. GMP2C
6 EA. GMP3C
3 EA. GMP4C
3 EA. GMP6C
3 EA. GMP7C
3 EA. GMP8C
2 EA. GMP9C
6 EA. GMP12C
3 EA. GMP13C
3 EA. GMP14C
2 EA. GMP16C
3 EA. GMP18C

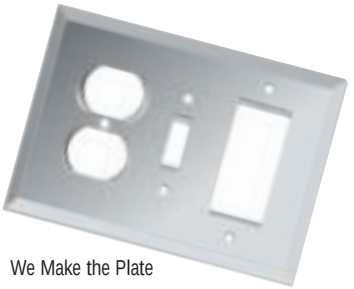
Custom Cut Glass Mirror Plates

- **Available in Single Thru Six Gang Styles in Clear, Bronze, Gray and Peach Colors**
- **Quick 10 Day Turnaround**

Custom Cut Glass Mirror Plates can be shipped from our Los Angeles warehouse in as little as ten working days. Ordering Custom Cut Plates is easy, just call CRL Customer Service for details.



You Submit the Drawing



We Make the Plate

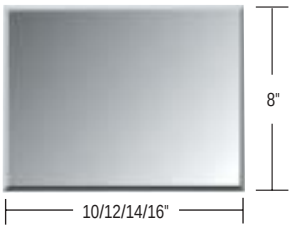
CRL Mirror Grille Blanks

- **Quality 3/16" Plate Glass with Polished Beveled Edges**
- **Conceals Larger Openings**

Glass Mirror Grille Blanks are used to conceal larger cut-outs in mirror walls, or as a base for custom grilles cut per your specifications. Grille Blanks install with your two-sided foam mounting tape, so no drilling is necessary. Four widths are available in clear mirror. Standard height is 8 inches. Other sizes and/or colors may be available. Call CRL Customer Service for more information.

CAT. NO.	COLOR	SIZE
BMG810C	Clear	8"H x 10"W
BMG812C	Clear	8"H x 12"W
BMG814C	Clear	8"H x 14"W
BMG816C	Clear	8"H x 16"W

Mirror Grille Blanks can be combined with Glass Mirror Plates for quantity pricing.



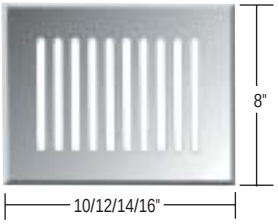
CRL Glass Mirror Grilles

- **Pre-Cut Grilles are 3/16" Plate Glass with Polished Beveled Edges**
- **Installs Easily with Your Foam Mounting Tape**

Glass Mirror Grilles replace metal air conditioning registers in mirror walls. Their polished beveled edges accent the decor of the mirror wall. Cut-outs allow air to pass freely from duct work. Grilles install with your two-sided foam mounting tape, so no drilling is necessary. Glass Mirror Grilles are available in widths to 16". Other sizes and/or colors may be available. Call CRL Customer Service for more information.

CAT. NO.	COLOR	SIZE
GMG810C	Clear	8"H x 10"W
GMG812C	Clear	8"H x 12"W
GMG814C	Clear	8"H x 14"W
GMG816C	Clear	8"H x 16"W

Glass Mirror Grilles can be combined for quantity pricing.



CRL Mirror Dimmer Knobs

- **Clear Acrylic Mirror with Beveled Edges**
- **Includes Inserts to Fit Most Dimmer Switches**

Clear Acrylic Mirror Dimmer Knobs for dimmer switches are the perfect complement to acrylic dimmer-style mirror plates. Each Dimmer Knob comes with inserts to fit most dimmer switches. One knob per package.

CAT. NO.	DESCRIPTION
DKR112	Clear Mirror Dimmer Knob

CRL Crystal Knobs

- **24% Lead Crystal Knob Virtually "Disappears" Into Glass for a Clear, See-Through Appearance**
- **Simply Glues On with Ultraviolet Adhesive; No Holes to Drill**

Made of 24% lead crystal, these knobs are easy to install, with no hole drilling required. Simply glue onto the door using our water clear UV349 Ultraviolet Adhesive to secure the knob in place. Crystal Knobs are sold individually, so two would be required for a back-to-back installation.

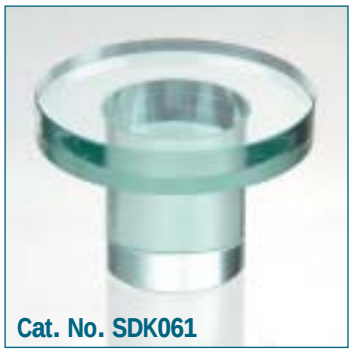
CAT NO.	DESCRIPTION
SDK400CR	Traditional Style Knob
SDK406CR	Contemporary Style Knob
UV349	UV Clear Adhesive - 50 ml

Crystal Knobs can be combined for quantity pricing.

Traditional Style Knob
1-15/16" W X 1-13/16" H

Contemporary Style Knob
1-15/16" W X 2-1/16" H

CRL Solid Glass Door Knob



- **Transparent and Elegant**
- **Easy to Install; No Holes to Drill**

SPECIFICATIONS:
Large Diameter: 2.36" (60 mm)
Small Diameter: 1.18" (30 mm)
Height: 1.5" (38 mm)

This European styled, all clear Solid Glass Door Knob has many different application possibilities. Use as knob on a glass door, a foot on a glass table base, or a wardrobe hook on a glass panel mirror. Simply secure into place using CRL's water clear UV349 Ultraviolet Adhesive. This beautifully styled knob will give décor an individual touch that will last for years.

CRL Plastic Lined Mirror Mounting Clips

- **Polished Chrome Finish**

Plastic Lined Mirror Mounting Clips are designed to allow air circulation behind the mirror and accommodate uneven wall surfaces. The upper clips are spring loaded to expand over the mirror's top edge as you set it against the wall, then return to position to hold the mirror snugly. The lower clips are fixed to support the weight of the mirror. A plastic liner inside each clip protects and cushions the mirror.

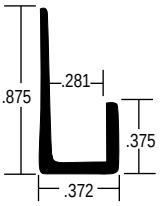
CAT. NO.	CONTENTS
655KE	4 Clips Per Set

CRL 1/4" Standard "J" Channel

- 11 Finishes
- 12' Stock Lengths
- 50 Per Case

NEW BRUSHED NICKEL FINISH!

Standard "J" Channels furnished in the shop pack are individually polywrapped to prevent scratching, plus the back leg is punched and slotted for easier installation. Standard "J" Channel is normally used on the bottom in mirror installations.



Actual Size

1/4" STANDARD "J" CHANNEL

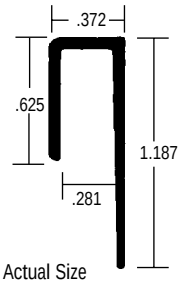
CAT. NO.	FINISH
D636A	Satin Anodized
D636P	Polished
D636BA	Buffed Bright Anodized
D636DBA	Dipped Bright Anodized
D636GA	Satin Gold Anodized
D636BGA	Buffed Bright Gold Anodized
D636DBGA	Dipped Bright Gold Anodized
D636BL	Black Electro-Static Paint
D636BRZ	Bronze Electro-Static Paint
D636W	White Electro-Static Paint
D636BN	Brushed Nickel

CRL 1/4" Deep Nose "J" Channel

- 11 Finishes
- 12' Stock Lengths
- 40 Per Case

NEW BRUSHED NICKEL FINISH!

Deep Nose "J" Channels furnished in the shop pack are individually polywrapped to prevent scratching, plus the back leg is punched and slotted for easier installation. Deep Nose "J" Channel is normally used on the top in mirror installations.



Actual Size

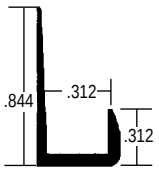
1/4" DEEP NOSE "J" CHANNEL

CAT. NO.	FINISH
D645A	Satin Anodized
D645P	Polished
D645BA	Buffed Bright Anodized
D645DBA	Dipped Bright Anodized
D645GA	Satin Gold Anodized
D645BGA	Buffed Bright Gold Anodized
D645DBGA	Dipped Bright Gold Anodized
D645BL	Black Electro-Static Paint
D645BRZ	Bronze Electro-Static Paint
D645W	White Electro-Static Paint
D645BN	Brushed Nickel

CRL 5/16" Standard "J" Channel

- 3 Finishes
- 12' Stock Lengths
- 50 Per Case

5/16" Standard "J" Channel allows for irregular wall surfaces. It provides extra room for application of light bodied mirror mastics or foam mirror mounting tapes. Stock lengths are individually polywrapped.



Actual Size

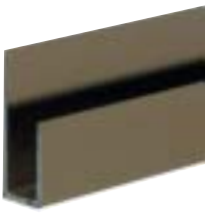
5/16" STANDARD "J" CHANNEL

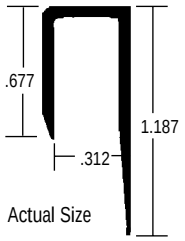
CAT. NO.	FINISH
D516A	Satin Anodized
D516BA	Buffed Bright Anodized
D516BGA	Buffed Bright Gold Anodized

CRL 5/16" Deep Nose "J" Channel

- 3 Finishes
- 12' Stock Lengths
- 40 Per Case

5/16" Deep Nose "J" Channel allows for irregular wall surfaces. It provides extra room for application of light bodied mirror mastics or foam mirror mounting tapes. Stock lengths are individually polywrapped.





Actual Size

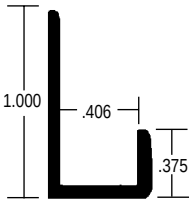
5/16" DEEP NOSE "J" CHANNEL

CAT. NO.	FINISH
D58A	Satin Anodized
D58BA	Buffed Bright Anodized
D58BGA	Buffed Bright Gold Anodized

CRL 3/8" Standard "J" Channel

- 3 Finishes
- 12' Stock Lengths
- 40 Per Case

3/8" Standard "J" Channel allows for irregular wall surfaces and provides room behind the mirror for pats of heavy bodied mirror mastic. Each stock length is individually polywrapped.



Actual Size

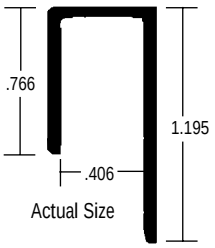
3/8" STANDARD "J" CHANNEL

CAT. NO.	FINISH
D738A	Satin Anodized
D738BA	Buffed Bright Anodized
D738BGA	Buffed Bright Gold Anodized

CRL 3/8" Deep Nose "J" Channel

- 3 Finishes
- 12' Stock Lengths
- 30 Per Case

3/8" Deep Nose "J" Channel allows for irregular wall surfaces and provides room behind the mirror for pats of heavy bodied mirror mastic. Each stock length is individually polywrapped.



Actual Size

3/8" DEEP NOSE "J" CHANNEL

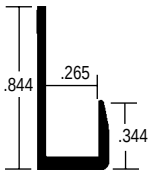
CAT. NO.	FINISH
D838A	Satin Anodized
D838BA	Buffed Bright Anodized
D838BGA	Buffed Bright Gold Anodized

All extrusions can be combined for quantity pricing. 12' stock lengths must ship common carrier, unless you specify we cut them for U.P.S.

CRL Low Profile "J" Channel

- 3 Finishes
- 12' Stock Lengths
- 50 Per Case

This "J" Channel has a slightly shorter front lip than our Standard "J" Channel. Each piece is individually polywrapped.



Actual Size

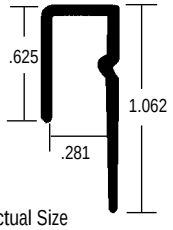
LOW PROFILE "J" CHANNEL

CAT. NO.	FINISH
D514A	Satin Anodized
D514BA	Buffed Bright Anodized
D514BGA	Buffed Bright Gold Anodized

CRL Deep Indented Back "J" Channel

- 2 Finishes
- 12' Stock Lengths
- 40 Per Case

Deep Indented Back "J" Channel allows air to circulate behind mirror to prevent potentially damaging moisture buildup. Each piece is individually polywrapped.



Actual Size

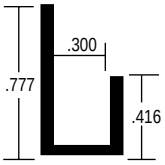
DEEP NOSE "J" CHANNEL

CAT. NO.	FINISH
D932BA	Buffed Bright Anodized
D932BGA	Buffed Bright Gold Anodized

CRL Standard Wood Grain "J" Channel

- Oak Wood Grain Finish
- 12' Stock Lengths
- 50 Per Case

Standard Wood Grain "J" Channel is a roll formed aluminum channel covered on three sides with oak wood grain vinyl to match today's popular wood decors. Each stock length is individually polywrapped.



Actual Size

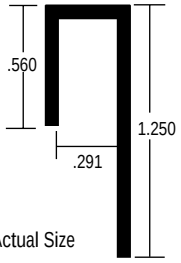
STANDARD WOOD GRAIN "J" CHANNEL

CAT. NO.	FINISH
D736WG	Oak Wood Grain

CRL Deep Nose Wood Grain "J" Channel

- Oak Wood Grain Finish
- 12' Stock Lengths
- 40 Per Case

Deep Nose Wood Grain "J" Channel is a roll formed aluminum channel covered on three sides with oak wood grain vinyl to match today's popular wood decors. Each stock length is individually polywrapped.



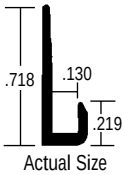
Actual Size

DEEP NOSE WOOD GRAIN "J" CHANNEL

CAT. NO.	FINISH
D745WG	Oak Wood Grain

CRL 1/8" "J" Channel

- Satin Anodized
- 12' Stock Lengths
- 50 Per Case



Actual Size

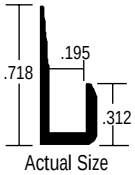
1/8" "J" Channel is used for double strength mirror or thin laminates. Each stock length is individually polywrapped.

1/8" "J" CHANNEL

CAT. NO.	FINISH
D18A	Satin Anodized

CRL 3/16" "J" Channel

- Satin Anodized
- 12' Stock Lengths
- 50 Per Case



Actual Size

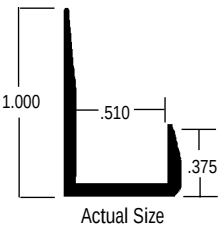
3/16" "J" Channel is used for 3/16" thick mirrors and other materials. Each stock length is individually polywrapped.

3/16" "J" CHANNEL

CAT. NO.	FINISH
D3316A	Satin Anodized

CRL 1/2" "J" Channel

- Satin Anodized
- 12' Stock Lengths
- 30 Per Case



Actual Size

1/2" "J" Channel is available for 7/16" and 1/2" thick materials. Each stock length is individually polywrapped.

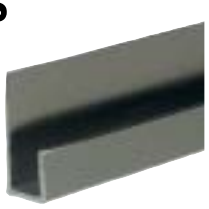
1/2" "J" CHANNEL

CAT. NO.	FINISH
D12A	Satin Anodized

All extrusions can be combined for quantity pricing. 12' stock lengths must ship common carrier, unless you specify we cut them for U.P.S.

CRL Standard 1/4" "J" Channel in Economy Shop Packs

- 6 Finishes
- 12' Stock Lengths
- 50 Per Case

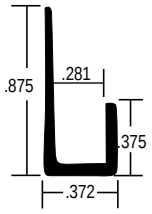


Standard "J" Channels furnished in the economy shop pack are protected by paper inner wrapping. The back leg of the economy channel is not punched or slotted. Six finishes are available in unbroken cases of 50 lengths.

ECONOMY SHOP PACK STANDARD "J" CHANNEL

CAT. NO.	FINISH
EP636A	Satin Anodized
EP636P	Polished
EP636BA	Buffed Bright Anodized
EP636DBA	Dipped Bright Anodized
EP636BGA	Buffed Bright Gold Anodized
EP636DBGA	Dipped Bright Gold Anodized

Sold only in full, unbroken case lots. Cases can be combined for quantity pricing.



Actual Size

CRL Deep Nose 1/4" "J" Channel in Economy Shop Packs

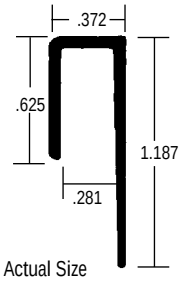
- 6 Finishes
- 12' Stock Lengths
- 40 Per Case

Deep Nose "J" Channels furnished in the economy shop pack are protected by paper inner wrapping. The back leg of the economy pack channel is not punched or slotted. Six finishes are available in unbroken cases of 40 lengths.

ECONOMY SHOP PACK DEEP NOSE "J" CHANNEL

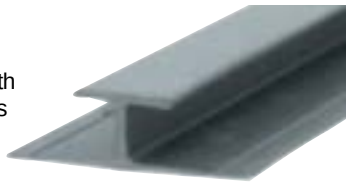
CAT. NO.	FINISH
EP645A	Satin Anodized
EP645P	Polished
EP645BA	Buffed Bright Anodized
EP645DBA	Dipped Bright Anodized
EP645BGA	Buffed Bright Gold Anodized
EP645DBGA	Dipped Bright Gold Anodized

Sold only in full, unbroken case lots. Cases can be combined for quantity pricing.



Actual Size

CRL Divider Bar



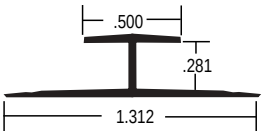
Divider Bar is used in conjunction with our Mirror "J" Channel to hide butt joints of adjoining mirror panels. It is available in six popular finishes to match our "J" Channel. Punched and slotted to make installation simple.

DIVIDER BAR

CAT. NO.	FINISH
D901A	Satin Anodized
D901P	Polished
D901BA	Bright Anodized
D901BGA	Bright Gold Anodized
D901GA	Satin Gold Anodized
D901BRZ	Bronze

All extrusions can be combined for quantity pricing. Stock lengths must ship common carrier unless you specify we cut them for U.P.S.

- 6 Finishes
- 12' Stock Lengths
- 40 Per Case



Actual Size

CRL 1/4" "L" Bar Extrusion

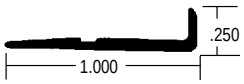
"L" Bar is an all purpose extrusion. Use it as an edge protector on complete mirror door installations, or on wall mirrors where a lower lip is not required. Also good as an edge protector for glass tops. 1/4" lip is available in six popular finishes.

"L" BAR

CAT. NO.	FINISH
L902A	Satin Anodized
L902P	Polished
L902BA	Bright Anodized
L902BGA	Bright Gold Anodized
L902GA	Satin Gold Anodized
L902BRZ	Bronze

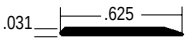
All extrusions can be combined for quantity pricing. Stock lengths must ship common carrier unless you specify we cut them for U.P.S.

- 6 Finishes
- 12' Stock Lengths
- 50 Per Case



Actual Size

CRL 5/8" Flat Face Mirror Edge Molding



Actual Size

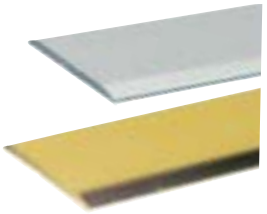
- 2 Finishes
- 12' Stock Lengths
- 50 Per Case

Highly polished Flat Face Mirror Edge Molding may be used in place of the upper "J" Channel in mirror installations to provide an even sight line at top. Adheres easily with CRL 33SC Silicone, or with CRL423212 1/32" x 1/2" Black Foam Mounting Tape.

5/8" FLAT FACE MIRROR EDGE MOLDING

CAT. NO.	FINISH
S625BA	Bright Anodized
S625BGA	Bright Gold Anodized

All extrusions can be combined for quantity pricing. Stock lengths must ship common carrier unless you specify we cut them for U.P.S.



CRL Touch-Up Markers

Our Touch-Up Markers have a high gloss finish that will cover scratches on metal beautifully, and can be a real time saver to the glazier. They replace paint brushes or standard black felt tip markers. Use them for thin scratches, to touch up cut ends of extrusions, or for covering screw heads. Vary the hand pressure of the point and you can adjust the width of the stroke. Positive-seal cap prevents the marker from drying out.

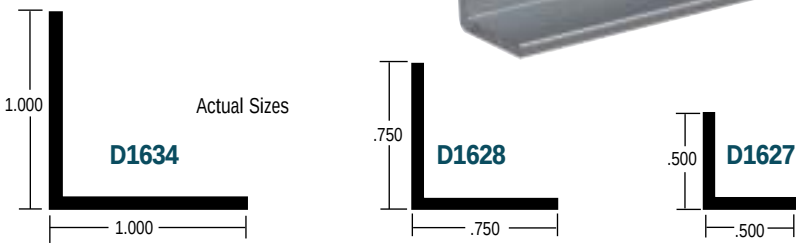
- Covers Up Scratches and Cut Ends

CAT. NO.	COLOR
TUM8	Bronze
TUM9	Black

Colors can be combined for quantity pricing.

CRL Angle Extrusions

- Finished Inside and Out
- 12' Stock Lengths
- 5 Finishes



Angle Extrusions designed for mirror wall installations and other applications. Can be used for inside and outside corners.

ANGLE EXTRUSIONS

CAT. NO	FINISH	SIZE (HXW)	QTY./CS.
D1627A	Satin Anodized	1/2" x 1/2"	50
D1627BA	Buffed Bright Anodized	1/2" x 1/2"	50
D1627BGA	Buffed Bright Gold Anodized	1/2" x 1/2"	50
D1627BRZ	Bronze Electro-Static Paint	1/2" x 1/2"	50
D1627GA	Gold Anodized	1/2" x 1/2"	50
D1628A	Satin Anodized	3/4" x 3/4"	50
D1628BA	Buffed Bright Anodized	3/4" x 3/4"	50
D1628BGA	Buffed Bright Gold Anodized	3/4" x 3/4"	50
D1628BRZ	Bronze Electro-Static Paint	3/4" x 3/4"	50
D1628GA	Gold Anodized	3/4" x 3/4"	50
D1634A	Satin Anodized	1" x 1"	40
D1634BA	Buffed Bright Anodized	1" x 1"	40
D1634BGA	Buffed Bright Gold Anodized	1" x 1"	40
D1634BRZ	Bronze Electro-Static Paint	1" x 1"	40

All extrusions can be combined for quantity pricing.12' stock lengths must ship common carrier, unless you specify we cut them for U.P.S.

CRL Inside Corner Extrusion

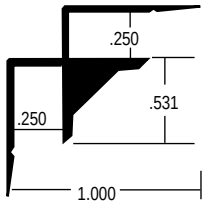
- 2 Finishes • 12' Stock Lengths
- 20 Per Case

Our Inside Corner Extrusion accepts up to 1/4" mirror. Use it to protect and trim rough cut edges. Will add a clean, neat appearance to the installation.

INSIDE CORNER

CAT. NO.	FINISH
DA1022BA	Buffed Bright Anodized
DA1022BGA	Buffed Bright Gold Anodized

All extrusions can be combined for quantity pricing. 12' stock lengths must ship common carrier, unless you specify we cut them for U.P.S.



Actual Size

CRL Outside Corner Extrusion

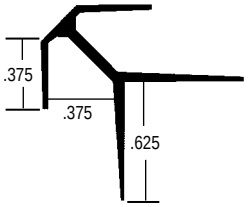
- 2 Finishes • 12' Stock Lengths
- 20 Per Case

Our Outside Corner Extrusion accepts mirror up to 1/4" thick. This allows room for application of mastic or foam tape on the rear.

OUTSIDE CORNER

CAT. NO.	FINISH
DA1023BA	Buffed Bright Anodized
DA1023BGA	Buffed Bright Gold Anodized

All extrusions can be combined for quantity pricing. 12' stock lengths must ship common carrier, unless you specify we cut them for U.P.S.



Actual Size

CRL "Rounded Face" Angle Extrusion

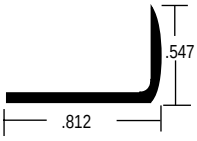
- 3 Finishes • 12' Stock Lengths
- 40 Per Case

"Rounded Face" Angle Extrusion is available in three popular finishes to match Mirror "J" Channel. It is primarily used as a top or bottom door cap.

"ROUNDED FACE" ANGLE

CAT. NO.	FINISH
DA326A	Satin Anodized
DA326BA	Buffed Bright Anodized
DA326BGA	Buffed Bright Gold Anodized

All extrusions can be combined for quantity pricing. 12' stock lengths must ship common carrier, unless you specify we cut them for U.P.S.



Actual Size

CRL "L" Bar Extrusion

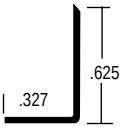
- 5 Finishes • 12' Stock Lengths
- 50 Per Case

This versatile extrusion can be used as an "L" Bar or "J" Channel face. The 5/8" face height matches our Deep Nose "J" Channel.

"L" BAR

CAT. NO.	FINISH
L502A	Satin Anodized
L502P	Polished
L502BA	Buffed Bright Anodized
L502BGA	Buffed Bright Gold Anodized
L502BRZ	Bronze Electro-Static Paint

All extrusions can be combined for quantity pricing. 12' stock lengths must ship common carrier, unless you specify we cut them for U.P.S.



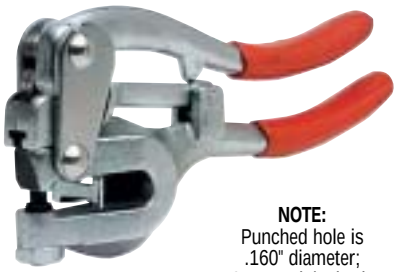
Actual Size

CRL "J" Channel Punch and Countersink Tool

Our powerful "J" Channel Punch cuts a clean screw hole in the "J" Channel back leg and countersinks at the same time. A side gauge permits accurate throat depth adjustment. The Punch Stand has bolt holes for fixed station use, but holds the punch firmly even when sitting free on a table or the floor. Stand and extra dies may be purchased separately.

CAT. NO.	DESCRIPTION
JPC	Punch with Die Set
JPD	Extra Die Set
JPS	Punch Stand

Shown with JPS Stand



CAT. NO. JPC

NOTE: Punched hole is .160" diameter; Countersink size is .284" diameter.

CRL Palmer Mirro-Mastic

- The Industry Standard for High Quality, Superior Adhesives
- Permanent and Trouble-Free

Palmer Mirro-Mastic is a high quality adhesive mastic formulated for adhering plate glass mirror and acrylic mirror to various substrates, such as drywall, wood, glass, metal or tile. NOTE: Use Mirro-Mastic Bond to seal porous substrates. Mirro-Mastic is ideal for large mirrored walls, columns and vanities. Mirro-Mastic does not become hard or brittle with age. It absorbs normal vibration and movement due to normal thermal changes. It has a two-year shelf life from the date on an unopened can.

CAT. NO.	CONTENTS	QTY./CASE
PM205	5 Gallon	1
PM201GL	1 Gallon	4
PM204QT	1 Quart	6

CRL Palmer QwikSet Mirro-Mastic

- Fast Cure Time
- Ideal for Overlays and Beveled Strips

Palmer QwikSet Mirro-Mastic is a fast curing adhesive mastic formulated for adhering plate glass mirror to various substrates, such as drywall, wood, glass, metal, or tile. (Do not use on acrylic mirror, safety tapes or backings. NOTE: Use sealer or primer on porous substrates.) QwikSet is ideal for mirror-to-mirror overlays, beveled strips and mirrored furniture. At room temperature (72˚F, 22˚C), QwikSet will cure to 80 percent strength in 48 hours. It has a one-year shelf life from the date on the end of the cartridge.

CAT. NO.	CONTENTS	QTY./CASE
PM711N	11 Fl. Oz.	24

CRL Palmer Mirro-Mastic in Cartridges

- Cures to a Strong, Permanent Bond
- Does Not Become Hard or Brittle with Age

Palmer Mirro-Mastic in cartridges is the same high quality adhesive mastic that is in the can, but with the convenience of a cartridge. It is formulated for adhering plate glass mirror and acrylic mirror to various substrates, such as drywall, wood, glass, metal or tile. NOTE: Use Mirro-Mastic Bond to seal porous substrates. Mirro-Mastic is ideal for large mirrored walls, columns and vanities. It has a one-year shelf life from the date on the end of cartridge.

CAT. NO.	CONTENTS	QTY./CASE
PM601T	11 Fl. Oz.	24
PM601QT	29 Fl. Oz.	12

CRL Palmer Electric Mastic Applicator

CAT. NO. 1234PA

Heated bowl scoops a uniform size pat of mastic directly from the can. Apply either to the substrate or mirror panel. Applicator's heat actually helps to begin the curing process as it applies the mastic. Requires 115V AC.

CRL Palmer Mirro-Mastic Bond

- Specifically Made for Sealing Wall Surfaces Prior to Application of Mirro-Mastic
- Apply with a Brush or Roller

Palmer Mirro-Mastic Bond is made specifically to seal porous wall surfaces prior to application of regular CRL Palmer Mirro-Mastic. Use it to prime walls of wood, concrete, cement, concrete block or brick before you apply Mirro-Mastic. Apply with a brush or roller. It penetrates and seals walls, giving the best possible surface for mirror installations. NOTE: Mirro-Mastic Bond is not required for glazed porcelain or tile surfaces, nor for mirror-to-mirror installations. Use only with regular Palmer Mirro-Mastic. Never use Mirro-Mastic Bond with Palmer QwikSet. Coverage: approximately 100 square feet per quart, 400 square feet per gallon.

CAT. NO.	CONTENTS	QTY./CASE
PMB401QT	1 Quart	6
PMB401GL	1 Gallon	4

CRL Gunther Premier™ Mirror Mastic

NEW

- Bonds to Porous and Non-Porous, Primed and Unprimed Surfaces
- Fast Permanent Bond, Yet Remains Very Flexible

Gunther Premier™ Mirror Mastic is a high quality urethane based adhesive formulated to provide a strong, permanent bond between electro-copper-plated glass mirror or acrylic mirror and various substrates.

A very versatile product that is ideal for high traffic areas, such as gyms, dance studios and commercial projects. It holds firm, yet absorbs movement, vibrations, and allows for thermal expansion and contraction.

It can be built out to 2" for large mirrors or uneven wall jobs, or compressed to 1/16" for mirror installations requiring close tolerances, such as overlays, mirrored furniture and medicine cabinets.

CAT. NO.	COLOR	CONTENTS	QTY./CASE
GN104A	Gray	10.3 Fl. Oz.	12

CRL Gunther Prime-N-Seal Primer

- Enhances Adhesion of Mastics

Gunther Prime-N-Seal is a superior, quick drying acrylic primer and sealer designed to help eliminate mirror installation failure. It enhances adhesion of mastics while protecting the mirror from substrate contaminates. Prime-N-Seal promotes exceptional adhesion to drywall, greenboard, cement, plaster, plywood, brick and other substrates. It does not become brittle with age, is non-flammable, and does not contain environmentally damaging ingredients. Easy to apply by brush, roller or spray. Flat white appearance when dry.

CAT. NO.	CONTENTS	QTY./CASE
GN6	32 Fl. Oz.	6

CRL Palmer Mastic Stik™

- Applicator and Remover for Palmer Mirro-Mastic
- Lightweight, Yet Extremely Durable

CAT. NO. MS97

Mastic Stik makes it easy to apply or remove mastic

The new Mastic Stik has a scoop end with a chiseled tip, making it the ideal tool for the application or removal of Palmer Mirro-Mastic. Scoop end is just the right size for recommended "pats" or "gobs" of mastic, and its chiseled edge lets you remove mastic without scratching mirror backing. Made of lightweight and durable PVC, the Mastic Stik measures 16-1/2" long. Chiseled scoop edge is 1-1/2" wide.

CRL Gunther Mirror Mastic

- Two High Strength Formulas
- Adheres to a Wide Variety of Substrates

Gunther Ultra/Bond and Gunther Extra/Build Mirror Mastics are high quality adhesives formulated to provide a strong, permanent bond between electro-copper-plated glass mirror and various substrates. Both have been field and laboratory tested for compatibility with silver, copper and mirror paint backing.

Gunther Ultra/Bond's viscosity provides for a build out of 3/4", and can be compressed to 1/32" for mirror installations requiring close tolerances such as overlays, mirrored furniture, and medicine cabinets.

Gunther Extra/Build's viscosity provides for a build out of 2-1/2" without sag for custom mirrored walls or vanities, where construction is such that there are gaps of over 3/4" between the mirror and the substrate.

Gunther Ultra/Bond at 72°F(22°C) achieves approximately 30% strength in 24 hours, full cure up to 605 psi in 30 days. Gunther Extra/Build at 72°F(22°C) achieves approximately 20% strength in 48 hours, full cure up to 300 psi in 30 days. Easy working consistency year round. Will adhere to a wide variety of substrates including drywall, wood, metal, glass, marble and tile.

Note: Not for use on acrylic mirror. Use Gunther Prime-N-Seal Primer on all porous substrates. Specification Data Sheet available on request.

10.6 FL. OZ. CARTRIDGES

CAT. NO.	TYPE	COLOR	QTY./CASE
GN100A	Ultra/Bond	Cream	24
GN200A	Extra/Build	Black	24

Cartridges can be combined for quantity pricing.

ONE GALLON CANS

CAT. NO.	TYPE	COLOR	QTY./CASE
GN101B	Ultra/Bond	Cream	4
GN201B	Extra/Build	Black	4

Gallons can be combined for quantity pricing.

CRL Gunther Seal-Kwik Mirror Edge Sealer

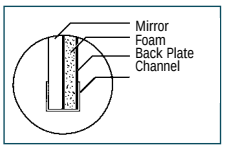
Gunther Seal-Kwik has a safe, proven formula for protecting mirror edges from "black edge". Seal-Kwik goes on fast and easy with a sponge-dauber top, with no running, spilling or wasteful overspray. Seal-Kwik dries clear, and will not yellow or crack with age.

CAT. NO.	CONTENTS	QTY./CASE
GN4	4 Fl. Oz.	6

CRL Standard Channel Framed Mirrors

100 SERIES

- Available in Four Popular Sizes
- Easy to Install Mounting Bracket Included



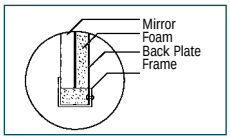
100 Series Mirrors are fabricated from first quality float glass and a 22 gauge, bright polished 1/2" x 1/2" x 1/2" stainless steel frame. Galvanized back plates and mounting brackets are furnished with an internal locking system for vandal resistant installation. Individually boxed.

CAT. NO.	NOMINAL SIZE	OVERALL SIZE
1001824	18"W x 24"H	18-1/4"W x 24-1/4"H
1001830	18"W x 30"H	18-1/4"W x 30-1/4"H
1001836	18"W x 36"H	18-1/4"W x 36-1/4"H
1002436	24"W x 36"H	24-1/4"W x 36-1/4"H

CRL Deluxe Angle Framed Mirrors

900 SERIES

- Available in Four Popular Sizes
- Easy to Install Mounting Bracket Included



900 Series Mirrors are fabricated from first quality float glass, and an 18 gauge, Type 304, 3/4" x 3/4" x 3/8" stainless steel frame. Frame is carefully mitered, welded and polished to a #4 Satin finish. Galvanized back plates and mounting brackets are furnished with an internal locking system for vandal resistant installation. Individually boxed.

CAT. NO.	NOMINAL SIZE	OVERALL SIZE
9001824	18"W x 24"H	18-7/8"W x 24-7/8"H
9001830	18"W x 30"H	18-7/8"W x 30-7/8"H
9001836	18"W x 36"H	18-7/8"W x 36-7/8"H
9002436	24"W x 36"H	24-7/8"W x 36-7/8"H

CRL Adjustable "Tilt" Mirror

190T SERIES

- Full Visibility for Wheelchair Use
- Tilt Angle is Adjustable
- High Quality Float Mirror

190T Series Tilt Mirrors are fabricated from first quality float glass and a 22 gauge, bright polished 1/2" x 1/2" x 1/2" stainless steel frame. Top of mirror can be tilted forward up to 7" from wall by two elbow hinges to provide full visibility for wheelchair use. Bottom of mirror mounts to wall with stainless steel piano hinge. Individually boxed.

NOTE: This Mirror cannot be shipped via U.P.S. or other small parcel carrier.

CAT. NO.	NOMINAL SIZE	OVERALL SIZE
190T1824	18"W x 24"H	18-1/4"W x 24-1/4"H

CRL Fixed "Tilt" Mirror

990 SERIES

- Full Visibility for Wheelchair Use
- Tilt Angle is Fixed
- High Quality Float Mirror

990 Series Mirrors offer a permanent forward tilt to provide full visibility for wheelchair use. Frame is carefully mitered, welded and polished to a #4 satin finish out of 18 gauge, Type 304 stainless steel. Mirror extends 4" from wall at top, and tapers to 1" at bottom. Individually boxed.

NOTE: This Mirror cannot be shipped via U.P.S. or other small parcel carrier.

CAT. NO.	NOMINAL SIZE	OVERALL SIZE
9901824	18"W x 24"H	18-1/4"W x 24-1/4"H

CRL 100, 190T, 900 and 990 Series Mirrors can be combined for quantity pricing.

CRL Custom Size Stainless Steel Frame Mirrors

- Can Be Glazed with Six Different Reflective Surfaces
- Available in Any of the Above Four Frame Styles in Sizes Up to 72" X 120"
- Maximum Size for 190T Series Mirrors is 24" x 36"

QUICK-FAB CRL's Quick-Fab Program offers you quick turnaround for your custom size framed mirror requirements. Only seven working days needed to ship Series 100 and 190T Mirrors; Only ten working days are needed for Series 900 and 990 Welded Angle Framed Mirrors. F.O.B. our Los Angeles warehouse.

CRL offers all of our Stainless Steel Mirror Frames in custom sizes. Series 100 and 900 Frames can be supplied with 5" stainless steel shelves if desired. The same quality construction of our stock size mirrors is featured in all our custom size mirror frames.

Large inventories of bulk material and state-of-the-art equipment at our manufacturing facility allows us to offer prompt delivery on custom size mirror frames. Our Technical Sales staff will gladly assist you with information or quotations on all of your framed mirror needs.

CRL Magnifying Mirrors

C.R. Laurence has expanded your choices of Magnifying Mirrors with this beautiful collection of wall mount, pedestal, suction cup and countertop models.

Made in the U.S.A. with the finest materials and latest technology available, CRL Magnifying Mirrors will complement and complete your bathroom décor with designer styling.

- **Designer Styling with Optical Glass Quality**

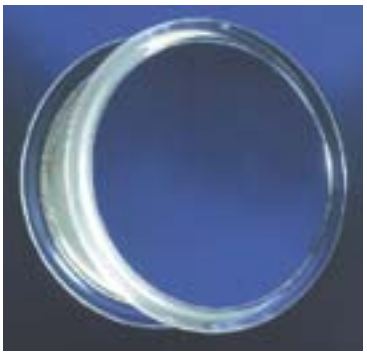
Our Magnifying Mirrors are available in lighted and non-lighted types, each with optical glass that is precision ground for distortion-free images of unparalleled sharpness and powerful magnification. Display a few styles in your showroom and you'll create a new profit center for your business!

CRL 5x and 7x Power Suction Cup Mirrors

- **Adheres to Any Smooth Non-Porous Surface** NEW

CRL Suction Cup Mirrors feature a specially developed and patented vinyl cup for long term adhesion to mirror and tile surfaces. The large 7" diameter viewing area and your choice of a 5X or 7X magnification power makes it an ideal makeup mirror.

CRL's Suction Cup Mirrors are made to be break and scratch resistant. The clear acrylic surround frame blends in with any background surface. Great quality at a very affordable price.



- **Choice of 5X or 7X Magnification**

CAT. NO.	DIAMETER	MAGNIFICATION
ZZSO6	7"	5X
ZFC27	7"	7X

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL 5x and 7x Power Swivel Mirrors

- **Choose from the Two Most Popular Sizes** NEW

Portable and attractive, CRL Swivel Magnifying Mirrors feature a 2-1/2" X 3-1/2" base with bumper pads to protect furniture surfaces. Their distortion free images are available with 5X magnification in 6-1/4" and 9" diameters, and 7X magnification in a 6-1/4" diameter. The reverse side of each is a 1X flat mirror.

- **Choice of 5X or 7X Magnification**

CAT. NO.	DIAMETER	MAGNIFICATION
ZZV06	6-1/4"	5X and 1X
ZZV08	9"	5X and 1X
ZFS27	6-1/4"	7X and 1X

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL 5x and 7x Power Adjustable Stand Vanity Mirrors

- **Easy to Use Twist Lock Adjustment**
- **Height Adjusts Up to 22"** NEW

Our CRL Vanity Mirrors can be adjusted to as high as 22 inches to accommodate a wide variety of chair and counter levels. These optical quality glass mirrors feature bright metal finished bases to complement most décor. Choose from the most popular 5X and 7X magnification powers. They are an excellent choice for department store cosmetic counters and similar applications.

CAT. NO.	BASE FINISH	DIAMETER	MAGNIFICATION
ZZ9V5	Chrome	9"	5X
ZFA37	Chrome	9-1/4"	7X
ZFA57	Brass	9-1/4"	7X

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL 5x and 7x Power Wall Mount Dual Arm Mirrors

- **Elegant Styling and Crystal Clear Optics** NEW
- **Dual Arms Extend to 14"**

Solid, smooth swinging action can be expected when you position a CRL Wall Mount Dual Arm Mirror. You'll be impressed with the heavy chrome and brass finishes that will match your other quality bath and shower fixtures. The large 9" diameter mirror offers a sharp image, and stores neatly against the wall when not in use.

CAT. NO.	BASE FINISH	DIAMETER	MAGNIFICATION
ZZ9W5	Chrome	9"	5X
ZFW37	Chrome	9"	7X
ZZ9WG	Brass	9"	5X
ZFW57	Brass	9"	7X

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL Surround Light™ Magnifying Mirrors NEW

CRL 9" Surround Light™ Swivel Mirrors

- Surround Light™ Illumination with "Any Angle" Positioning

CRL's big 9" diameter Swivel Mirror with the patented Surround Light™ system brings new thin fluorescent technology to our expanding vanity mirror selection. The clear acrylic base matches virtually any counter color, and the chrome or brass accent swivels let you easily adjust your viewing angle. The 5X magnifying mirror will bring true distortion-free, glare-free, and shadow-free viewing.

CAT. NO.	COLOR	DIAMETER	MAGNIFICATION
ZSS35	Clear Frame w/Chrome Accents	9"	5X
ZSS55	Clear Frame w/Brass Accents	9"	5X

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL 9" Surround Light™ Dual Arm Mirrors

- Both 5X and 7X Magnifying Powers in Four Beautiful Finishes

The Surround Light™ System of these Dual Arm Wall Mount Mirrors amplifies light both across the mirror surface, and outward to illuminate the face at any angle of viewing. We've selected four high quality finishes for the mounting plate and swing arms to match the most popular bath hardware accessories. As with all Surround Light™ Mirrors, they will give your customers fog-free optics. Instant on/off switch has cord or direct wire connection capability.

CHROME CAT. NO.	SATIN NICKEL CAT. NO.	BRASS CAT. NO.	SATIN BRASS CAT. NO.	DIAMETER	MAGNIFICATION
ZSW35	ZSW45	ZSW55	ZSW65	9"	5X
ZSW37	ZSW47	ZSW57	ZSW67	9"	7X

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL 9" Surround Light™ Adjustable Pedestal Vanity Mirrors

- Surround Light™ Mirror Uses Less Energy, Gives Off Less Heat and More Light

NEW

Inspired by the brillance of polished metal finishes, CRL Surround Light™ Adjustable Pedestal Vanity Mirrors are available in chrome, brass and upscale satin brass and satin nickel. The 9" 5X and 7X magnification power mirrors with Surround Light™ provide simply the best and brightest clear images. As with all of our Surround Light™ Mirrors, your customers will benefit from the low heat fluorescent technology with 100 watt output using only 22 watts of energy. The bulbs are replaceable and rated with a 10,000 hour work life.

CHROME CAT. NO.	SATIN NICKEL CAT. NO.	BRASS CAT. NO.	SATIN BRASS CAT. NO.	DIAMETER	MAGNIFICATION
ZSA35	ZSA45	ZSA55	ZSA65	9"	5X
ZSA37	ZSA47	ZSA57	ZSA67	9"	7X

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL Fogless Magnifying Mirrors NEW

6" 1x to 5x Magnification Designer Mirror

- Permanent Fogless Mirrors with Break and Scratch Resistant Optical Quality
- "Adjusts to Your Eyes" Magnification Feature

CRL Fogless Mirrors are the best ever! With just a few rotations of the attractive 6" chrome finish frame, you can change the magnification power of our fogless mirrors from 1X to 5X. Double razor holder built into the frame. Attaches to any smooth, non-porous surface with double suction cups.

Cat. No. ZZ50C

All CRL Magnifying Mirrors can be combined for quantity pricing.

8" 1x to 5x Magnification Designer Mirror with Shelf

- "Adjusts to Your Eyes" Magnification Feature

Our Deluxe Model Fogless Mirror has a big 8" mirror that uses a special magnifying power adjustment to let you view from 1X through 5X imagery. There's a convenient accessory shelf and dual razor holders so you can keep things in quick reach. The mirror itself is permanently fogless, and is break and scratch resistant. Attaches to any smooth, non-porous surface with double suction cups.

Cat. No. ZZ58C

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL Multi-Mag™ Close-Up Full Image Mirrors

CRL Multi-Mag™ 9" Adjustable Pedestal Vanity Mirror

- **Powerful 2X and 7X Magnifications in One Mirror**

CRL's new and unique Multi-Mag™ Vanity Mirror allows you to switch views easily and precisely during use. The quick adjusting pedestal stand is available in four beautiful finishes to match the most popular bath hardware accessories. Your customers will be able to position the mirror as high as 28" from the counter surface. There's plenty of viewing area with the 6" diameter 7X mirror and the 9" diameter 2X mirror. Made in the U.S.A. and priced right for your counter sales.

NEW

CAT. NO.	DIAMETERS	FINISH
ZMA37	6" & 9"	Polished Chrome
ZMA47	6" & 9"	Satin Nickel
ZMA57	6" & 9"	Polished Brass
ZMA67	6" & 9"	Satin Brass

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL Multi-Mag™ 9" Wall Mount Dual Arm Mirror

NEW

- **Features the Patented Multi-Mag™ 2X and 7X Mirror System for Simultaneous Viewing**

The CRL Multi-Mag™ Dual Arm Mirror extends 15" from the mounting surface for easy viewing. The heavy chrome finish shows the quality of the craftmanship put into every CRL Magnifying Mirror. The 2X mirror area is a big 9-1/4" in diameter, and the very powerful 7X mirror has a 6" diameter.

CAT. NO.	DIAMETERS	FINISH
ZMW37	6" & 9-1/4"	Polished Chrome

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL Multi-Mag™ 9" Adjustable Pedestal Vanity Mirror with Surround Light™

- **Multi-Mag™ Mirrors in Four Beautiful Finishes**

NEW

You'll get all the best features available in a vanity mirror when you order the CRL Multi-Mag™ Adjustable Pedestal Vanity Mirrors with Surround Light™. The 7X magnification mirror is 6" in diameter. The 2X mirror is a big 9-1/4", and has the Surround Light™ system for illumination at its best. With four attractive finishes to choose from, plus an adjustable pedestal for a total height of 29", these CRL Vanity Mirrors will fit your customer's highest requirements.

CAT. NO.	DIAMETERS	FINISH
ZMSA37	6" & 9-1/4"	Polished Chrome
ZMSA47	6" & 9-1/4"	Satin Nickel
ZMSA57	6" & 9-1/4"	Polished Brass
ZMSA67	6" & 9-1/4"	Satin Brass

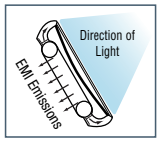
All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL Multi-Mag™ 9" Wall Mount Dual Arm Mirror with Surround Light™

NEW

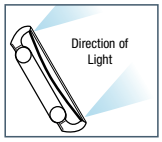
- **The Ultimate Wall Mount Magnifying Mirror**

This one has it all! A 9-1/4" 5X Magnification Mirror with Surround Light™, and a 7X high power, 6" diameter mirror that swings into position with just a touch. Available in four finishes so your customers can match their other bath accessories. Mount one in your showroom. It's sure to draw attention.



Surround Light™

Surround Light™ amplifies light across the mirror surface, outward-illuminating the face at any angle or distance from the mirror.



Traditional Lighted Mirror

A traditional lighted mirror only amplifies light outward, producing glare, distortion, reduced sharpness and shadows.

CAT. NO.	DIAMETERS	FINISH
ZMSW37	6" & 9-1/4"	Polished Chrome
ZMSW47	6" & 9-1/4"	Satin Nickel
ZMSW57	6" & 9-1/4"	Polished Brass
ZMSW67	6" & 9-1/4"	Satin Brass

All CRL Magnifying Mirrors can be combined for quantity pricing.

CRL 9" Surround Light™ Tilt-Swivel Mirror

- Perfect Illuminated Viewing
- Convenient Thumb Screw Adjustment

CRL's fluorescent lighted Tilt-Swivel Mirror has a beautiful two-tone chrome and brass metal finish that will blend with any bathroom décor. This optically correct 9" diameter mirror is illuminated with an 8,000 hour 50-watt bulb that is brighter than ordinary incandescent bulbs.

Cat. No. ZLP05

CRL 9" Surround Light™ Swivel Mirror

- Two-Tone Metal Finish
- Energy Efficient Illumination

This new Swivel Mirror is ideal for any dressing room or bathroom. Compact in size, this mirror is extremely versatile, and can be adjusted to any viewing angle. The two-tone Swivel Mirror has an 8,000 watt fluorescent bulb that uses only 9 watts of energy.

Cat. No. ZLS05

CRL 9" Surround Light™ Single Arm Mirror

- Perfect for Makeup or Shaving
- Single Arm Design

CRL's new Single Arm Wall Mount Mirror has a beautiful two-tone chrome and brass finish. This fully adjustable mirror does not take valuable bathroom counter space, and is illuminated by an 8,000 watt fluorescent bulb that provides better and more efficient lighting than regular incandescent bulbs.

Cat. No. ZLW05

CRL Anti-Fog Spray

- Eliminates Fog from Any Glass Surface

CRL's Anti-Fog Spray and Cleaner can be used on bathroom mirrors, auto, boat, RV windshields, sunglasses, safety or ski goggles. The spray is effective until the glass or mirror surface needs to be cleaned, at which time Anti-Fog Spray Cleaner is reapplied with the easy to use pump spray bottle. 8 fluid ounces.

Cat. No. ZSP1

CRL Mirror Pivots

- Hold 1/8" to 1/4" Mirror
- Simple to Install

CRL Mirror Pivots are available in four beautiful styles that will enhance any bathroom or bedroom. Your customer can install these Pivots anywhere wall space is available and, within minutes, have a useful accessory that will last for years. Mirror Pivots will accommodate 1/8" to 1/4" thick mirror of just about any configuration, and will hold up to 30 pounds. Full length vanity mirrors can be mounted and tilted to view any height. Pivots are made of heavy plated cast brass, and beautifully finished in brass, chrome and brass/chrome combinations. Mounting hardware is included. Sold only by the pair.

- Four Beautiful Styles and Finishes

Cat. No. MP3308
Brass Victorian

Cat. No. MP6408
Chrome Victorian

Cat. No. MP6008
Brass/Chrome Deco

Cat. No. MP9008
Brass/Chrome Contempo

CRL Swing-N-Vue Double-Hinged Mirrors

- Comes Complete with Glass Mirror
- Polished Brass or Chrome Finishes

The remarkable Swing-N-Vue is a double-hinged mirror designed for installation in residential and hotel bathrooms or dressing areas. It gives the user full back and side views, leaving hands free for hair styling. Almost infinitely adjustable, Swing-N-Vue provides the benefits of tri-view mirror cabinets without the usual space requirement or cost. The Swing-N-Vue Mirror is available with polished brass or chrome frames in two sizes. Mounting instructions and hardware are included with each Swing-N-Vue, making installation simple for do-it-yourselfers.

CAT. NO.	SIZE (WXH)	FINISH
SN1119CH	11" x 11"	Polished Chrome
SN1119BR	11" x 11"	Polished Brass
SN1422CH	14" x 22"	Polished Chrome
SN1422BR	14" x 22"	Polished Brass

Swing-N-Vue Mirrors can be combined for quantity pricing.

11" x 11" 14" x 22"

CRL Clear View™ Electric Bathroom Mirror Defogger

• Peels and sticks to mirror back

• Connected to light bar junction box for automatic operation

• Will Not Harm Mirror Backing

Clear View™ is a thin, flexible surface warming pad designed to peel and stick to the back surface of any standard flush mounted bathroom mirror. It has been conceptually designed to defog the vision area (30-1/2" by 21-3/4"), and therefore is suitable for any mirror with a minimum surface area of 36" by 24". Supplied with 78" of cable to be routed sub-wall, it is permanently connected to a power source.

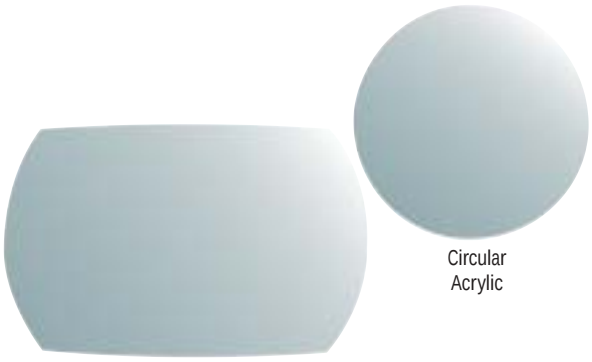
In a retro-fit installation, one of the most accessible power sources will be the overmirror light fixture junction box, rendering the bathroom light switch as the controller. In new construction, optional power sources can be from the bathroom fan circuit or an independent wall switch. Installation instructions are included, along with a one year unconditional product warranty.

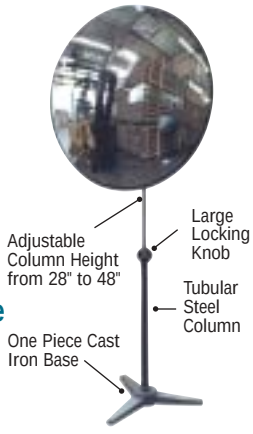
CAT. NO.	VOLTAGE	DESCRIPTION
EMD1	115V AC .85 amps	Electric Mirror Defogger

CRL Convex Mirrors for Safety and Security

• Improve Sightlines at Blind Intersections
• Assists Surveillance in Retail Stores

SEE PAGES 204-205 OF OUR BIG RED CATALOG FOR OUR COMPLETE SELECTION OF SECURITY MIRRORS





• Sets Up Anywhere Needed
• Points in Any Direction
• Made for Indoor or Outdoor Use
• Heavy Duty Acrylic Mirror

CRL Acrylic Mirrors for Indoor Use Only

Acrylic Convex Mirrors are economically priced and come in two shapes: circular, and rounded rectangular, a shape particularly suited to low ceilings in parking garages or elevators. All Acrylic Convex Mirrors meet OSHA requirements for safety mirrors in the workplace, schools, public facilities, etc.

CIRCULAR / ROUNDED RECTANGULAR ACRYLIC MIRRORS

CAT. NO.	DIAMETER/DIMENSIONS	SHIP U.P.S.
TPLX13	13" Circular	Yes
TPLX18	18" Circular	Yes
TPLX26	26" Circular	Yes
TPLX30	30" Circular	Yes
TPLX36	36" Circular	No
TPLX1626	16" H x 26" W	Yes
TPLX2030	20" H x 30" W	Yes

All convex mirrors can be combined for quantity pricing.

CRL Pedestal Mount Acrylic Convex Mirrors

The Pedestal Mount Convex Mirror is a heavy duty acrylic mirror mounted to a tubular steel column with a cast iron base. Height is adjustable from 28" to 48" (center point). Set it up anywhere and point it in any direction. Complete unit assembles and adjusts in seconds.

CIRCULAR PEDESTAL MOUNT ACRYLIC MIRRORS

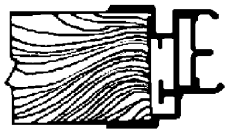
CAT. NO.	DIAMETER	SHIP U.P.S.
PED018	18"	Yes
PED026	26"	Yes

All convex mirrors can be combined for quantity pricing.

CRL Bel-Air "Plaza" Combination Door Units

- All Aluminum Combination Door Units for Manufacturing Flush Combination Doors or to Replace Worn Units
- Also Popular for Converting Slab Doors Into Ventilating Doors
- Safety Glazed with Tempered Glass and Ready to Install Right Out of the Carton
- Large Variety of Stock Sizes with Clear or Obscure Glass in Mill or Bronze Finish Frames

U.S.A. Made in our Vernon, California Plant



- Completed Unit Installs from the Exterior, and is Held in Place with an Interior Trim Ring

Bel-Air "Plaza" Combination Door Units are built to replace worn or broken door units found in many homes, or for use in the fabrication or conversion of slab doors. "Plaza" Combination Door Units allow for controlled ventilation and illumination, turning a regular slab door into a ventilating door. Just right for back or side doors, utility rooms, etc.

The "Plaza" Combination Door Unit has a streamlined, all aluminum design that makes it virtually maintenance free and rust resistant, saving on extensive detail painting. It's glazed with marine grade vinyl to cushion the effect of repeated door slamming. Tempered glass is used in accordance with 16CFR1201 safety standards for architectural glazing materials. Installation into a prepared opening requires nothing more than a screwdriver. Available for 1-3/8" or 1-3/4" thick doors.

"Plaza" Combination Door Units come in seven stock sizes: Five for new door fabrication or replacement of older "Plaza" Combination Door Units, and two for the replacement of competitive old fashioned combination door units found in many regions of the country. All come with clear tempered safety glass and mill finish frames. Tempered obscure glass and/or bronze finish frames are also available in all standard "Plaza" sizes. Custom size "Plaza" units are quoted on request in any quantity you need.

Plaza Combination Door Units are packed one per carton. All sizes can ship economically via U.P.S. or other small parcel carriers.

FABRICATORS and other large volume users can save money by ordering their Bel-Air units in bulk cartons or crates. Call CRL Customer Service for details.

STANDARD BEL-AIR "PLAZA" UNITS WITH CLEAR TEMPERED GLASS AND MILL FRAME FOR SLAB DOORS

CAT. NO. 1-3/4" DOORS	CAT. NO. 1-3/8" DOORS	DOOR SIZE	INNER FRAME SIZE WIDTH X HEIGHT	OVER-ALL OPENING SIZE (INCL. 1/8" CLEARANCE)
BAP204	BAP208	2-0 (24")	14-5/8" x 30"	14-3/4" x 30-1/8"
BAP244	BAP248	2-4 (28")	18-5/8" x 30"	18-3/4" x 30-1/8"
BAP264	BAP268	2-6 (30")	20-5/8" x 30"	20-3/4" x 30-1/8"
BAP284	BAP288	2-8 (32")	22-5/8" x 30"	22-3/4" x 30-1/8"
BAP304	BAP308	3-0 (36")	24-5/8" x 30"	24-3/4" x 30-1/8"

"PLAZA" REPLACEMENT UNITS WITH CLEAR TEMPERED GLASS AND MILL FRAME FOR COMPETITIVE OLD FASHIONED COMBINATION DOOR

CAT. NO. 1-3/4" DOORS	CAT. NO. 1-3/8" DOORS	DOOR SIZE	INNER FRAME SIZE WIDTH X HEIGHT	OVER-ALL OPENING SIZE (INCL. 1/8" CLEARANCE)
BACP264	BACP268	2-6 (30")	20-3/4" x 38-3/4"	20-7/8" x 38-7/8"
BACP284	BACP288	2-8 (32")	22-3/4" x 38-3/4"	22-7/8" x 38-7/8"

All Bel-Air Plaza units can be combined in lots of five for quantity pricing. F.O.B. CRL Warehouses.

CRL Half-Sash for Bel-Air and Other "Plaza" Style Units

- **Clear Tempered Glass is Standard**
- **Obscure Glass and/or Bronze Frames, Plus Custom Sizes Available on Special Order**
- **Sizes to Fit Virtually All "Plaza" Style Units**

With the handy Bel-Air Half-Sash, there is no need to replace an entire window when only one sash panel is broken. Our Half-Sash Units are available in a variety of sizes to fit CRL Bel-Air and competitive "Plaza" Style units. Completely assembled and ready for immediate and easy installation, our Half-Sash Units come standard with mill finish frames and clear tempered glass for safety. Units with bronze frames and/or obscure glass are available on special order, as are custom size units to meet your requirements. Keep CRL Half-Sash units on hand for your customers who need a quick fix for broken units.

HALF-SASH UNITS FOR COMPETITIVE "PLAZA" STYLE UNITS

CAT. NO.	FITS PLAZA UNITS	HALF-SASH SIZE (WXH)
BAHS1919	BACP264/BACP268	19-3/8" x 19-1/2"
BAHS2119	BACP284/BACP288	21-3/8" x 19-1/2"

All Half-Sash units can be combined in lots of five for quantity pricing.

HALF-SASH UNITS FOR STANDARD BEL-AIR "PLAZA" UNITS

CAT. NO.	FITS "PLAZA" UNITS	HALF-SASH SIZE (WXH)
BAHS1315	BAP204/208	13-1/4" x 15-1/8"
BAHS1715	BAP244/248	17-1/4" x 15-1/8"
BAHS1915	BAP264/268	19-1/4" x 15-1/8"
BAHS2115	BAP284/288	21-1/4" x 15-1/8"
BAHS2315	BAP304/308	23-1/4" x 15-1/8"

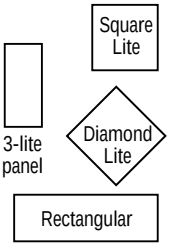
HALF-SASH UNITS FOR BEL-AIR PANEL AND "COUNTRY" COMBINATION DOORS

CAT. NO.	DOOR SIZE	HALF-SASH SIZE (WXH)
BAHS1920	2-0 (24")	19-1/4" X 20-5/8"
BAHS2020	2-4 (28")	20-1/4" X 20-5/8"
BAHS2120	2-6 (30")	21-1/4" X 20-5/8"
BAHS2320	2-8 (32")	23-1/4" X 20-5/8"
BAHS2720	3-0 (36")	27-1/4" X 20-5/8"

All Half-Sash units can be combined in lots of five for quantity pricing.

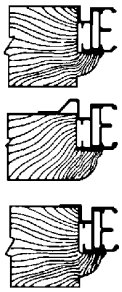
CRL Bel-Air Units Are Available in a Variety of Styles

Look-Out Door Lites



Bel-Air Look-Out Door Lites have a single pane of clear tempered glass surrounded by a mill finish frame. Perfect for cases where sliding sash panels are not required. Look-Out Door Lites come in standard sizes and designs, but may also be custom made to your specifications. Tempered obscure glass and/or bronze finish frames will be quoted upon request. Call us with your requirements.

Drop-In and E-Z Install Door Units



Sturdy "Drop-in" or "E-Z Install" units turn sash doors into modern Bel-Air Combination doors. Just drop the unit in against oval "O" stops and screw tight. You now have a functional combination screen and sash door. No trim is needed. Call us with your requirements.

Mo-Bel-Air Units for Campers, Trailers and Motor Home Doors

- **Tempered Glazing Complies with Highway Regulations**

Mo-Bel-Air is designed for campers, buses, trailers and mobile home units that require durability during open road traveling. Tempered glazing materials are standard and comply with California Highway Law U.S.A.S. Code Z26. 1, 1-1966 Safety Glazing Materials for campers and trailers. Mo-Bel-Air offers the total engineering and design you should insist upon. Call us with your requirements.

CRL Bel-Air Units Made to Your Exact Specifications

- **You Specify the Size, Finish and Glass Type, We Do All the Work, You Receive Ready-to-Install Units**
- **Unit Style: Plaza, Drop-In, E-Z Install or Mo-Bel-Air**
- **Frame Finishes: Mill or Bronze**
- **Glass Types: Clear or Obscure**

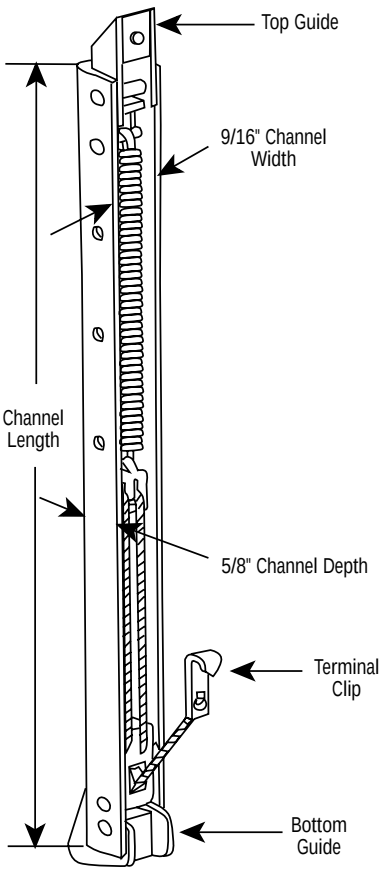
FABRICATORS:

All Bel-Air units are available in custom sizes to meet your exact specifications. Whatever your need, we can fill it with a Bel-Air Combination Door Unit. For more information, including price and delivery requests, contact CRL Technical Sales at (800) 421-6144, Ext. 777, or email to **techsales@crlaurence.com.**

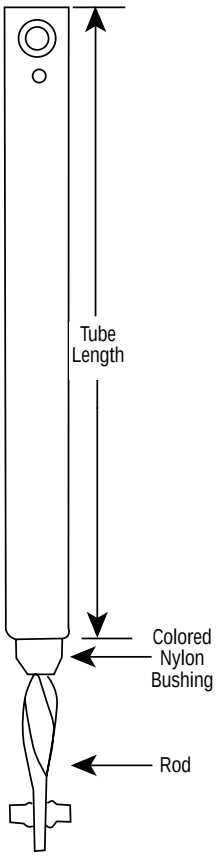
CRL Window Sash Balances

- **A Complete Program for the Repair or Fabrication of Windows Using Sash Balances**
- **Sizes and Types to Replace a Majority of Broken or Worn Balances in Aluminum, Vinyl or Wood Single or Double Hung Windows**
- **Choose to Have the Guides Factory-Installed, or Save Money by Doing it Yourself**
- **A Complete Assortment of Accessory Components Available Individually or in Economical Bulk Packs**
- **Extremely Competitive Pricing**
- **Expert Technical and Ordering Assistance**

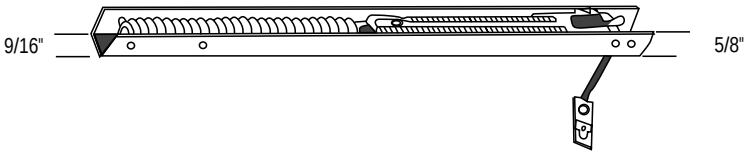
WINDOW CHANNEL OR "BLOCK AND TACKLE" BALANCES



SPIRAL OR TUBULAR "TENSION ROD" BALANCES



OVERHEAD CHANNEL BALANCES



CRL's Window Sash Balance Program offers you a complete selection of Window Channel (Block and Tackle), Overhead, and Spiral or Tubular (Tension Rod) Balances for single or double hung aluminum, vinyl or wood windows. Our expanded program includes accessory components in individual kits for single repairs, and in economical bulk packages for large projects or fabrication. Large orders (10 or more) of Window Sash Balances can be ordered with factory installed top and bottom guides, or end clips.

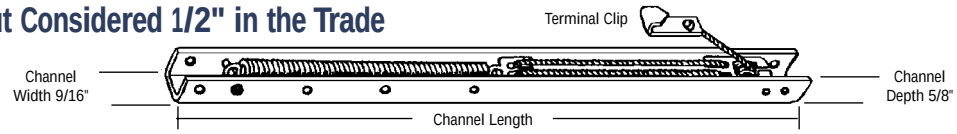
On the following pages we will show you how easy ordering and replacing Window Sash Balances can be. As shown in the the diagram above there are two basic types of Window Sash Balances: Channel and Spiral. Overhead Balances are a channel type of balance located in the overhead channel of the window. Only one is required per window. While all Window Channel and Spiral Balances are sold individually, we recommend that you purchase balances in pairs for each window to be repaired. This will restore the sash to a near new condition, and prolong the life of the window.

We also recommend that whenever you replace Window Sash Balances be sure to check the guides, take-out clips, sash cams and terminal clips, as age and weathering can make plastic and nylon parts brittle and worn. Even metal parts will show fatigue and wear with constant use, so be sure to inspect them as well.

CRL carries a complete selection of accessories and tools for Window Sash Balances. On the following pages you will find all you need to replace or repair a Window Sash Balance, as well as ordering information and helpful installation tips. Along with our wide selection, we also offer expert in-house technical and ordering assistance. If you don't see what you need, simply send us a sample of what you need and we'll search our extensive sources to find the appropriate part for you. See opposite page for where to send your samples.

CRL 1/2" Window Channel Balances

• Actually 5/8" but Considered 1/2" in the Trade



How to Order Window Channel Balances:

Shown above is a 1/2" Window Channel Balance. On the chart below you will find the channel you need to replace a broken or defective window balance. Also listed below are instructions on how to place an order and some helpful hints to make ordering easier. Information on top and bottom guide selection can be found on pages F236 and F237.

1. After removing the channel to be replaced, measure the metal portion only. All channel measurements listed in the charts below are for the metal portion only. The majority of balances will measure to the full inch, however, some are cut to half inch increments. (These are available only on special order).
2. Check the back side of the channel and locate the number stamped into the metal. This number will either be four numbers or two numbers and a letter. For example: 2720 or 27B.
3. Taking the measurement and the stamped number, refer to the chart below and locate the CRL Cat. No. If you have an 18" channel length and the number stamped on the channel to be replaced is 1720, the CRL Cat. No. is FA1720. A 15" channel with a stamped number of 14A would require CRL Cat. No. FA1410. Also check the vent weight (in pounds) listed for the channel to help assure proper channel selection.
4. All channels are packaged with two replacement rivets, and are sold individually.
5. If top and bottom guides need to be replaced, you will find a complete list on the following pages. Note: Channels and guides are ordered separately.
6. For more information about ordering options of CRL Window Channel Balances, refer to the Window Channel Balance Ordering Tips located to the right.

Window Channel Balance Ordering Tips:

A. If you're replacing only a few Window Channel Balances:

1. If the top and bottom guides on the balance you are replacing are in good working order, they can be reused and only the channel needs to be replaced. Instructions for guide removal and replacement can be found on page F238.
2. If the guides on the original balance are damaged, replacement kits containing top and bottom guides, rivets and take-out clips are available. These kits are shown on the following page.
3. All guide installations require a rivet setting tool; CRL Cat. No. H3740. See page F237.

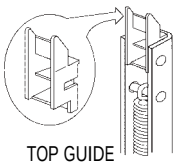
B. If you're replacing 10 or more Window Channel Balances, the following options are available to you:

1. You can order your Window Channel Balances with factory installed guides. Simply select the correct channel balance, choose the required guides from the chart on page F237 and order. Your Window Channel Balances will be shipped to you completely assembled and ready for immediate installation.
2. Order the channels and guides separately. Top and bottom guides, rivets, take-out clips and other accessories are sold separately in bulk packs. Bulk pack and accessory information can be found on pages F236 and F237. A Rivet Setting Tool, Cat. No. H3740, is required for installation.

C. When in doubt....send samples! That's the best way to assure you get the correct Window Channel Balance.

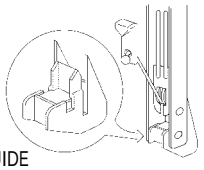
1. Send samples to the CRL Technical Sales Department, 2503 E. Vernon Avenue, Los Angeles, CA 90058. Be sure to include your telephone number in the package.

	Standard Duty			Standard Duty			Standard Duty			Heavy Duty		
Channel Length	Number Stamped in Balance	Vent Weight	CAT. NO.	Number Stamped in Balance	Vent Weight	CAT. NO.	Number Stamped in Balance	Vent Weight	CAT. NO.	Number Stamped in Balance	Vent Weight	CAT. NO.
13"	1210 or 12A	3-6	FA1210	1220 or 12B	6-9	FA1220	1230 or 12C	9-11	FA1230	1240 or 12D	11-12	FA1240
14"	1310 or 13A	3-6	FA1310	1320 or 13B	6-9	FA1320	1330 or 13C	9-11	FA1330	1340 or 13D	11-12	FA1340
15"	1410 or 14A	4-6	FA1410	1420 or 14B	6-10	FA1420	1430 or 14C	10-12	FA1430	1440 or 14D	12-13	FA1440
16"	1510 or 15A	4-6	FA1510	1520 or 15B	6-10	FA1520	1530 or 15C	10-12	FA1530	1540 or 15D	12-13	FA1540
17"	1610 or 16A	5-8	FA1610	1620 or 16B	8-12	FA1620	1630 or 16C	12-14	FA1630	1640 or 16D	14-19	FA1640
18"	1710 or 17A	5-8	FA1710	1720 or 17B	8-12	FA1720	1730 or 17C	12-14	FA1730	1740 or 17D	14-17	FA1740
19"	1810 or 18A	5-8	FA1810	1820 or 18B	8-12	FA1820	1830 or 18C	12-14	FA1830	1840 or 18D	14-17	FA1840
20"	1910 or 19A	5-8	FA1910	1920 or 19B	8-12	FA1920	1930 or 19C	12-14	FA1930	1940 or 19D	14-17	FA1940
21"	2010 or 20A	5-8	FA2010	2020 or 20B	8-12	FA2020	2030 or 20C	12-15	FA2030	2040 or 20D	15-23	FA2040
22"	2110 or 21A	5-8	FA2110	2120 or 21B	8-12	FA2120	2130 or 21C	12-15	FA2130	2140 or 21D	15-23	FA2140
23"	2210 or 22A	5-8	FA2210	2220 or 22B	8-12	FA2220	2230 or 22C	12-19	FA2230	2240 or 22D	19-23	FA2240
24"	2310 or 23A	5-9	FA2310	2320 or 23B	9-15	FA2320	2330 or 23C	15-18	FA2330	2340 or 23D	18-28	FA2340
25"	2410 or 24A	5-9	FA2410	2420 or 24B	9-15	FA2420	2430 or 24C	15-18	FA2430	2440 or 24D	19-24	FA2440
26"	2510 or 25A	5-9	FA2510	2520 or 25B	9-15	FA2520	2530 or 25C	15-19	FA2530	2540 or 25D	19-25	FA2540
27"	2610 or 26A	5-9	FA2610	2620 or 26B	9-15	FA2620	2630 or 26C	13-19	FA2630	2640 or 26D	19-26	FA2640
28"	2710 or 27A	5-9	FA2710	2720 or 27B	9-15	FA2720	2730 or 27C	13-19	FA2730	2740 or 27D	19-26	FA2740
29"	2810 or 28A	7-12	FA2810	2820 or 28B	12-16	FA2820	2830 or 28C	16-23	FA2830	2840 or 28D	23-28	FA2840
30"	2910 or 29A	7-12	FA2910	2920 or 29B	12-16	FA2920	2930 or 29C	16-23	FA2930	2940 or 29D	23-28	FA2940
31"	3010 or 30A	7-12	FA3010	3020 or 30B	12-16	FA3020	3030 or 30C	16-23	FA3030	3040 or 30D	23-28	FA3040
32"	3110 or 31A	7-12	FA3110	3120 or 31B	12-16	FA3120	3130 or 31C	16-23	FA3130	3140 or 31D	23-28	FA3140
33"	3210 or 32A	8-13	FA3210	3220 or 32B	13-18	FA3220	3230 or 32C	18-23	FA3230	3240 or 32D	23-28	FA3240
34"	3310 or 33A	8-13	FA3310	3320 or 33B	13-18	FA3320	3330 or 33C	18-23	FA3330	3340 or 33D	23-28	FA3340
35"	3410 or 34A	8-13	FA3410	3420 or 34B	13-18	FA3420	3430 or 34C	18-23	FA3430	3440 or 34D	23-30	FA3440
36"	3510 or 35A	8-13	FA3510	3520 or 35B	13-18	FA3520	3530 or 35C	18-23	FA3530	3540 or 35D	23-30	FA3540
37"	3610 or 36A	8-13	FA3610	3620 or 36B	13-18	FA3620	3630 or 36C	18-23	FA3630	3640 or 36D	23-30	FA3640
38"	3710 or 37A	8-13	FA3710	3720 or 37B	13-18	FA3720	3730 or 37C	18-23	FA3730	3740 or 37D	23-30	FA3740
39"	3810 or 38A	9-14	FA3810	3820 or 38B	14-19	FA3820	3830 or 38C	19-24	FA3830	3840 or 38D	24-30	FA3840
40"	3910 or 39A	9-14	FA3910	3920 or 39B	14-19	FA3920	3930 or 39C	19-24	FA3930	3940 or 39D	24-30	FA3940
41"	4010 or 40A	9-14	FA4010	4020 or 40B	14-19	FA4020	4030 or 40C	19-24	FA4030	4040 or 40D	24-30	FA4040
42"	4110 or 41A	9-14	FA4110	4120 or 41B	14-19	FA4120	4130 or 41C	19-24	FA4130	4140 or 41D	24-30	FA4140
43"	4210 or 42A	9-14	FA4210	4220 or 42B	14-19	FA4220	4230 or 42C	19-24	FA4230	4240 or 42D	24-30	FA4240


TOP GUIDE

CRL Window Channel Balance Repair Kits

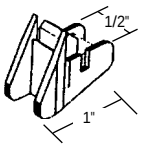
- Conveniently Packaged Kits for Single Repair
- 10 Guide Combinations to Choose From

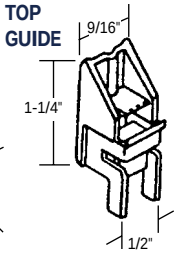

BOTTOM GUIDE

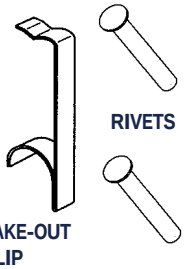
As previously mentioned in Window Channel Balance Ordering Tips, single replacements can be easily handled by ordering the channels and guides separately. Shown below are ten of the most common top and bottom guide combinations found in the field today. Simply take the top and bottom guide from the window channel balance being replaced and match them with the guides listed below. Each kit gives you a top and bottom guide, as well as two rivets and a take-out clip. The Repair Kit, along with the channel, gives you everything you need for the replacement. Remember, to set the rivets you will need a Cat. No. H3740 Rivet Installation Tool shown on opposite page.

Kit Includes:
1 ea. FS100 Top Guide
1 ea. FS150 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS290B

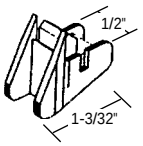


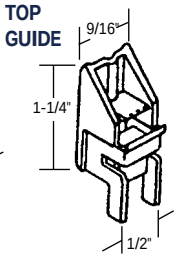


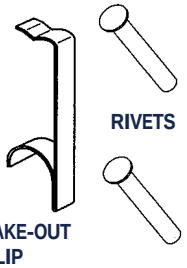


Kit Includes:
1 ea. FS100 Top Guide
1 ea. FS151 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS291B

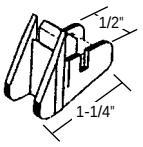


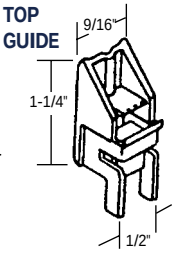


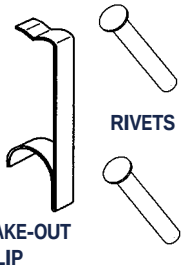


Kit Includes:
1 ea. FS100 Top Guide
1 ea. FS152 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS292B

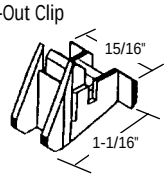


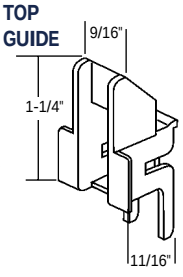


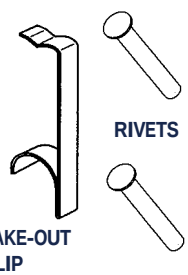


Kit Includes:
1 ea. FS101 Top Guide
1 ea. FS153 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS293B

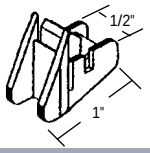


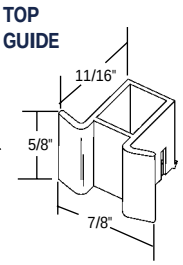


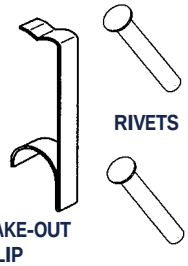


Kit Includes:
1 ea. FS102 Top Guide
1 ea. FS150 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS294B

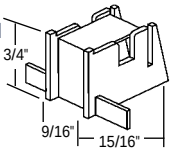


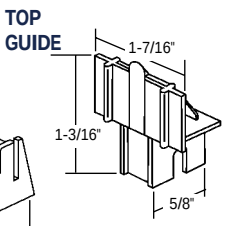


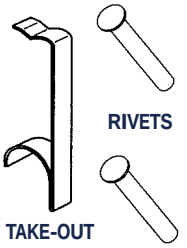


Kit Includes:
1 ea. FS103 Top Guide
1 ea. FS154 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS295B

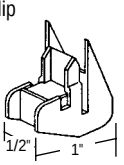


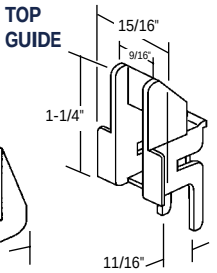


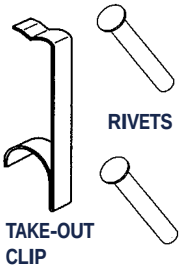


Kit Includes:
1 ea. FS101 Top Guide
1 ea. FS150 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS296B

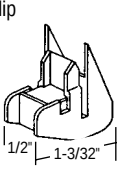


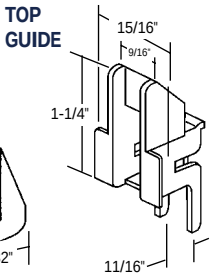


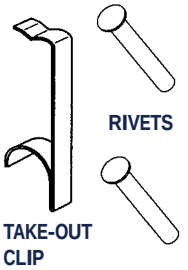


Kit Includes:
1 ea. FS101 Top Guide
1 ea. FS151 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS297B

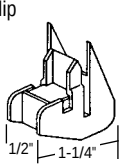


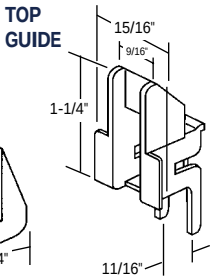


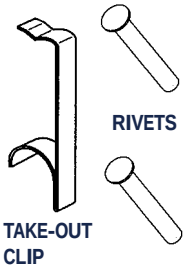


Kit Includes:
1 ea. FS101 Top Guide
1 ea. FS152 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS298B

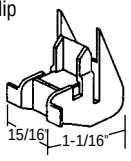


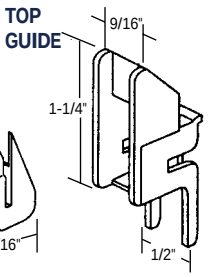


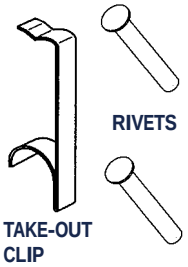


Kit Includes:
1 ea. FS100 Top Guide
1 ea. FS153 Bottom Guide
2 ea. FS261 Rivets
1 ea. FS260 Take-Out Clip

CAT. NO. FS299B

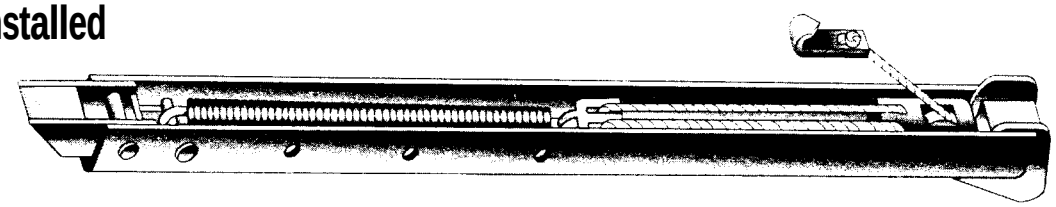






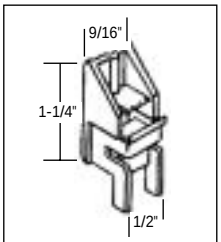
CRL Factory Fabricated Window Channel Balances with Guides Installed

- Quick, Easy, Convenient
- Guides Installed At Factory

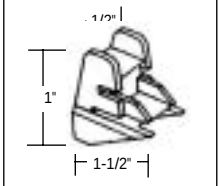


For large orders of 10 or more balances, you have the option of ordering Window Channel Balances with the top and bottom guides installed at the factory. All you need to do is pick out the Window Channel Balance you need from the chart on page F235, plus the Window Channel Balance Guides from the chart below and call our Technical Sales Department for a price quote and delivery. Upon arrival, your Window Channel Balances will be ready for installation.

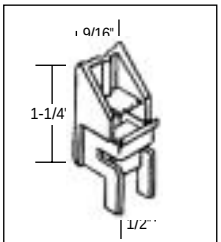
CRL Bulk Window Channel Balance Guides



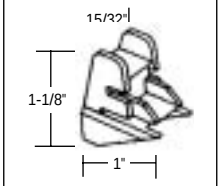
Cat.No.FS100B 50/Pack



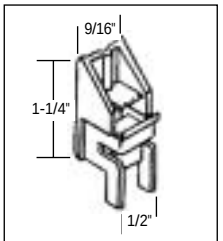
Cat.No.FS150B 50/Pack



Cat.No.FS100B 50/Pack



Cat.No.FS151B 50/Pack



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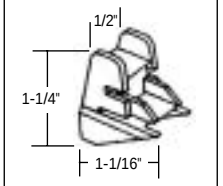
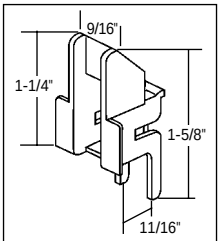
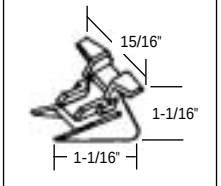


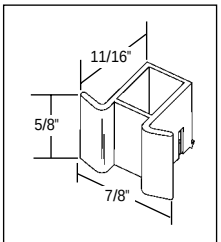
Cat.No.FS152B 50/Pack



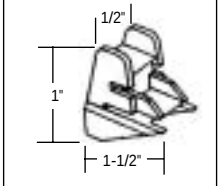
Cat.No.FS101B 50/Pack



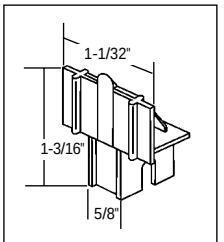
Cat.No.FS153B 50/Pack



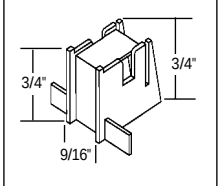
Cat.No.FS102B 50/Pack



Cat.No.FS150B 50/Pack



Cat.No.FS103B 50/Pack



Cat.No.FS154B 50/Pack

Shown above are six popular combinations of individual top and bottom guides for installation in CRL Window Channel Balances. Each of these can also be ordered in bulk packages containing 50 guides. As mentioned in the Window Channel Balance Ordering Tips, this is an economical way to handle big jobs, or if you have a particular balance in your area which is popular, you can make sure you've always got them on hand.

CRL Window Channel Balance Accessories

CRL Rivet Installation Tool

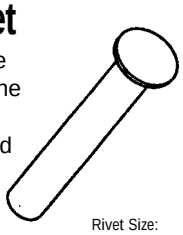
Use this tool for replacement of rivets on the top and bottom guides of Window Channel Balances.

CAT.NO. H3740

CRL Guide Rivet

These are the same rivets packaged with the Balance Repair Kits. Conveniently packaged for bulk use.

CAT.NO.	QTY./PK
FS261	100
FS261B	1000

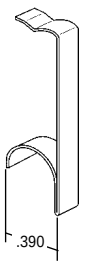


Rivet Size: 5/8" x 3/32"

CRL Take-Out Clips

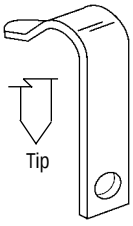
Metal Take-Out Clips are used for vent removal when replacing Window Channel Balances.

CAT.NO.	QTY./PKG.
FS260B	100



CRL Terminal Clips

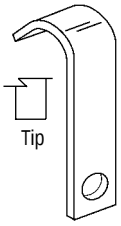
CRL Terminal Clips are made of stainless steel and should be used when replacing Window Channel Balances.



CAT.NO.	QTY./PKG.
FS250B	100

CRL Terminal Clips

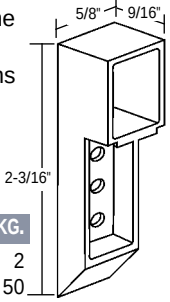
CRL Terminal Clips are made of stainless steel and should be used when replacing Window Channel Balances.



CAT.NO.	QTY./PKG.
FS251B	100

CRL Sash Cams

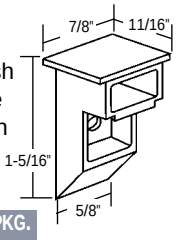
Located at the top of the sash, CRL Sash Cams keep the sash lined up in the vent track.



CAT.NO.	QTY./PKG.
H3837	2
H3837B	50

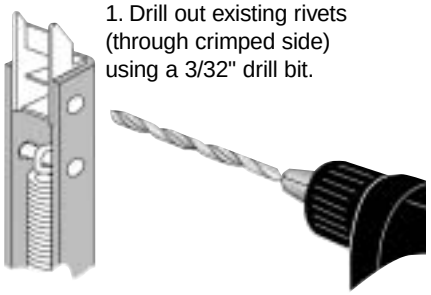
CRL Sash Cams

Located at the top of the sash, CRL Sash Cams keep the sash lined up in the vent track.



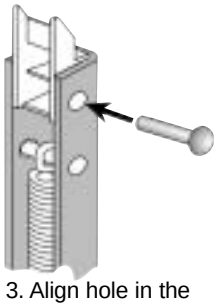
CAT.NO.	QTY./PKG.
H3838	2
H3838B	50

Top Guide Replacement



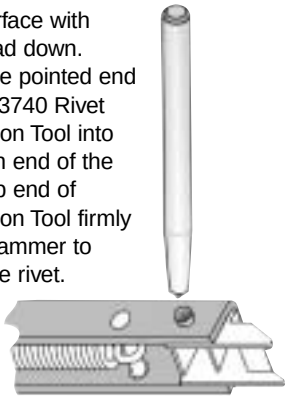
1. Drill out existing rivets (through crimped side) using a 3/32" drill bit.

2. Align and insert the new top guide into the top end of the balance.

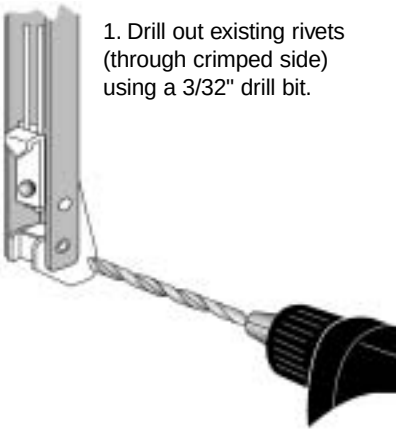


3. Align hole in the guide and balance and insert new rivet through the drilled out hole in the balance.

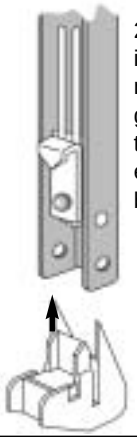
4. Place balance on solid surface with rivet head down. Place the pointed end of the H3740 Rivet Installation Tool into the open end of the rivet. Tap end of Installation Tool firmly with a hammer to crimp the rivet.



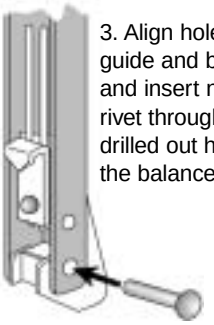
Bottom Guide Replacement



1. Drill out existing rivets (through crimped side) using a 3/32" drill bit.

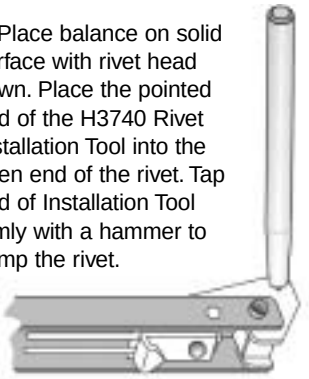


2. Align and insert the new bottom guide into the bottom end of the balance.

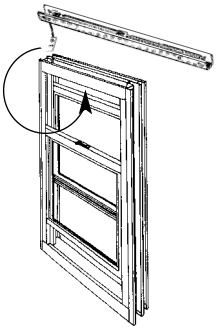


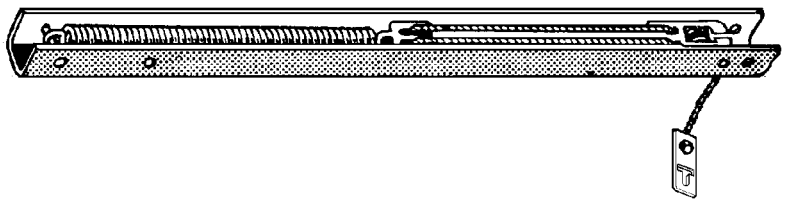
3. Align hole in the guide and balance and insert new rivet through the drilled out hole in the balance.

4. Place balance on solid surface with rivet head down. Place the pointed end of the H3740 Rivet Installation Tool into the open end of the rivet. Tap end of Installation Tool firmly with a hammer to crimp the rivet.



CRL Overhead Channel Balances





- **Industry Standard 9/16" Size**
- **Nylon Guides Not Required**
- **Simple to Install**

CRL Overhead Channel Balances will replace 9/16" balances used in aluminum windows made by *Premiere, International, A1 Aluminum, Marshall, Guaranteed Products* and others most commonly found on the west coast. Nylon guides are not required, making Overhead Balances simple to install. If your windows use a Lift Hook, see Cat. No. H3904 at right.

Series "FC"

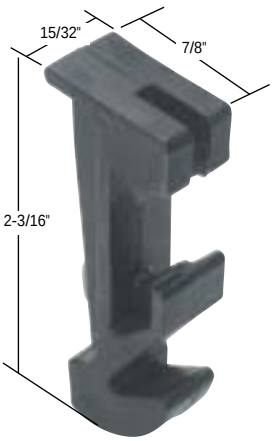
CAT. NO.	CHANNEL LENGTH	NO. STAMPED IN BALANCE	VENT WEIGHT
FC111	12-3/4"	111	4-7 Lbs.
FC112	12-3/4"	112	7-11 Lbs.
FC121	15-1/4"	121	4-8 Lbs.
FC122	15-1/4"	122	8-12 Lbs.
FC151	19-1/4"	151	5-9 Lbs.
FC152	19-1/4"	152	9-13 Lbs.
FC153	19-1/4"	153	13-16 Lbs.
FC162	23-1/4"	162	9-14 Lbs.
FC163	23-1/4"	163	14-20 Lbs.
FC183	27-1/4"	183	17-22 Lbs.

How To Order Overhead Channel Balances:

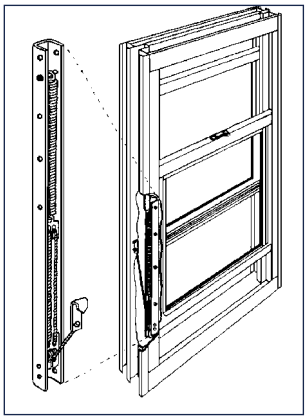
1. Measure the metal channel length only.
2. Check the stamped number on the metal channel to be replaced.
3. Determine vent weight.
4. Match channel length, stamped number and vent weight to CRL catalog number in chart at left.
5. Order the quantity required for each balance by the CRL catalog number.

Overhead Balance Lift Hook

Replacement Lift Hook for use with Overhead Channel Balances; black nylon.



CAT. NO.	QTY./PKG.
H3904	2



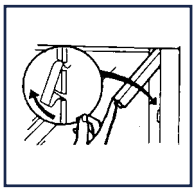
Window Channel Balance Removal and Installation Guidelines

- Easy Steps to Service Vertical Sliding Windows
- Tips for Identifying and Locating Parts for Replacement
- Instructions on Tuning Windows for Operation

Side Load Sash Removal and Replacement for Non-Tilt Windows

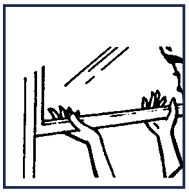
Removal Step 1

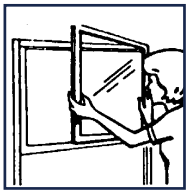
Remove sash stop from top of frame jamb. This will expose the formed tabs or take-out clips, which may be pivoted outward as shown in circle.



Removal Step 2

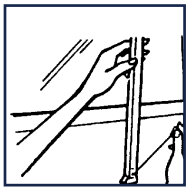
Raise vent until top guide engages take-out clip. Lift slightly and move right or left as far as possible. Removal is then accomplished by swinging the opposite side of the vent inward.

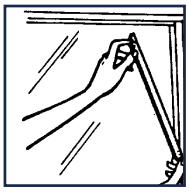




Removal Step 3

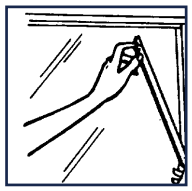
Push down on channel balance until top guide is clear of take-out clip. Hold firmly and slowly lift up and away from jamb. Remove terminal clip from square hole in frame jamb.

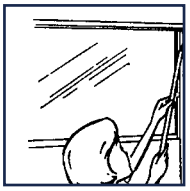




Replacement Step 1

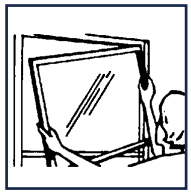
Install new balance assembly by reversing the removal procedure. Insert terminal clip in square hole located in frame jamb. Secure the top guide under the take-out clip. Repeat on other side of window.

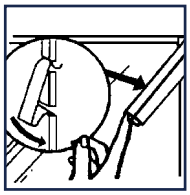




Replacement Step 2

Position right or left side of vent into jamb, above top balance. Swing opposite side into alignment with frame. Lower vent to engage balance. Snap take-out clips back into jamb and re-install sash stops.





Tips For Replacing Channel Balances

Correct Weights

Use our chart on page F235 to confirm the correct balance was used in the window that is in need of repair. Simply weigh the vent and select the appropriate balances.

Confusing Numbers

Channel Balances are referred to in various ways and numbers. Even though the standard Channel Balances are ordered as 1/2" balances, they are 9/16" by 5/8" in dimension. Lengths also create confusion. A 24" balance is referred to as a 2310, 2320, 2330, etc.

When in doubt.....send samples!

That is the best way we can help you get the right balance.

CRL Tubular Spiral Window Balances

Tilt Window Type

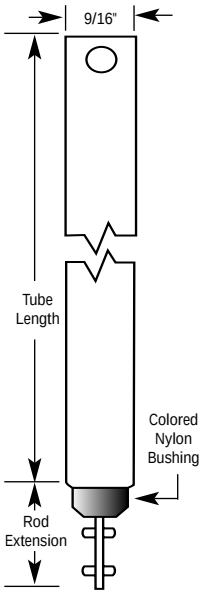
- **Standard Duty and Heavy Duty Metal Tube Balances in Diameters of 9/16" or 3/8"**

Our line of Tubular Spiral Window Balances for Tilt Type Windows covers a range of lengths and two diameters: 3/8" and 9/16" (Note: the 9/16" size is commonly referred to as 5/8" in the industry). All will replace either metal or plastic tube balances, and come in Standard Duty and Heavy Duty models. Most Spiral Balances have colored nylon bushings to indicate the load capacity of the balance: White for sash loads up to 12 pounds; Red for sash loads up to 25 pounds; Blue for sash loads up to 35 pounds. Our Standard Duty Balances replace balances with White or Red nylon bushings, while our Heavy Duty Balances replace balances with Blue nylon bushings.

ORDERING INFORMATION

1. To select the proper Tubular Spiral Balance, check diameter of the metal or plastic tube on the old balance: 9/16" is Series "FH"; 3/8" is Series "FL".
2. Measure Tube Length only; do not include Rod Length.
3. Check color of Nylon Bushing. If White or Red, select a Standard Duty Balance; If Blue, select a Heavy Duty Balance.
4. Verify if rod extension protruding from the Nylon Bushing matches an illustration for Tilt Type Balances.
5 Order quantity required of each new balance by the CRL Catalog Number.

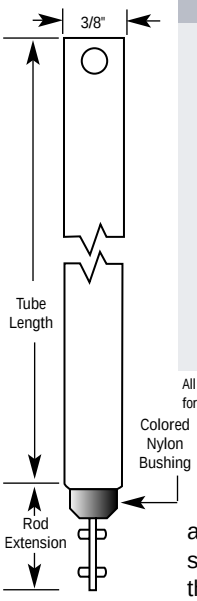
TILT SERIES "FH" 9/16" DIAMETER



BALANCE TUBE LENGTHS	STD. DUTY RED BUSHING CAT. NO.	HEAVY DUTY BLUE BUSHING CAT. NO.
17"	FH1720	FH1730
18"	FH1820	FH1830
19"	FH1920	FH1930
20"	FH2020	FH2030
21"	FH2120	FH2130
22"	FH2220	FH2230
23"	FH2320	FH2330
24"	FH2420	FH2430
25"	FH2520	FH2530
26"	FH2620	FH2630
27"	FH2720	FH2730
28"	FH2820	FH2830
29"	FH2920	FH2930
30"	FH3020	FH3030
31"	FH3120	FH3130
32"	FH3220	FH3230
33"	FH3320	N/A
34"	FH3420	N/A
35"	FH3520	N/A
36"	FH3620	N/A
37"	FH3720	N/A
38"	FH3820	N/A

All sash balances are sold individually (not by the pair), and can be combined for quantity pricing.

TILT SERIES "FL" 3/8" DIAMETER



BALANCE TUBE LENGTHS	STD. DUTY RED BUSHING CAT. NO.	HEAVY DUTY BLUE BUSHING CAT. NO.
18"	FL1820	FL1830
19"	FL1920	FL1930
20"	FL2020	FL2030
21"	FL2120	FL2130
22"	FL2220	FL2230
23"	FL2320	FL2330
24"	FL2420	FL2430
25"	FL2520	FL2530
26"	FL2620	N/A
27"	FL2720	N/A
28"	FL2820	N/A
29"	FL2920	N/A
30"	FL3020	N/A

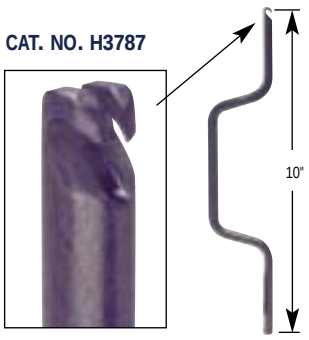
All sash balances are sold individually (not by the pair), and can be combined for quantity pricing.

While all Tubular Spiral Balances for Tilt and Non-Tilt Windows are packaged and sold individually, it is our recommendation that both balances in the window be replaced at the same time.

Tilt Balance Tensioning Tool

This Tilt Balance Tensioning Tool is specially notched to grasp the spiral rod end while you turn it to increase or decrease the opening strength of Tubular Spiral Window Balances. Overall tool length is 10 inches.

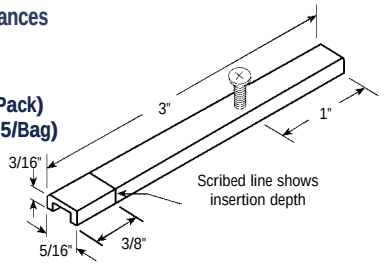
CAT. NO. H3787



Tilt Window Spiral Balance Accessories

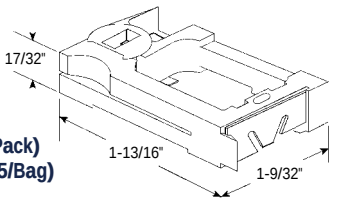
Pivot Bar for 9/16" Tilt Window Spiral Balances

CAT. NO.
H3758 (2/Pack)
H3758B (25/Bag)



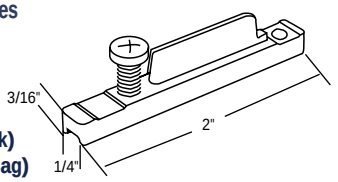
Lock Shoe for 9/16" Tilt Window Spiral Balances

CAT. NO.
H3785 (2/Pack)
H3785B (25/Bag)



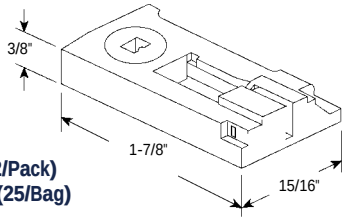
Pivot Bar for 3/8" Tilt Window Spiral Balances

CAT. NO.
H3897 (2/Pack)
H3897B (25/Bag)



Lock Shoe for 3/8" Tilt Window Spiral Balances

CAT. NO.
H3786 (2/Pack)
H3786B (25/Bag)



CRL Tubular Spiral Window Balances

Non-Tilt Window Type

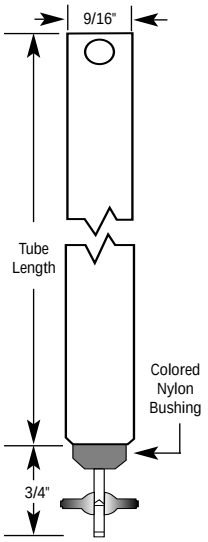
- **Standard Duty and Heavy Duty Metal Tube Balances in Diameters of 9/16" or 3/8"**

CRL Tubular Spiral Window Balances for Non-Tilt Type Windows come in the most commonly used lengths and diameters: 3/8" and 9/16" (Note: the 9/16" size is frequently referred to as 5/8" in the industry). All will replace either metal or plastic tube balances, and come in Standard Duty and Heavy Duty models. Most Spiral Balances have colored nylon bushings to indicate the load capacity of the balance: White for sash loads up to 12 pounds; Red for sash loads up to 25 pounds; Blue for sash loads up to 35 pounds. Our Standard Duty Balances replace balances with White or Red nylon bushings, while our Heavy Duty Balances replace balances with Blue nylon bushings. While all Tubular Spiral Balances for Tilt and Non-Tilt Windows are packaged and sold individually, it is our recommendation that both balances in the window be replaced at the same time.

ORDERING INFORMATION

1. To select the proper Tubular Spiral Balance, check diameter of the metal or plastic tube on the old balance: 9/16" is Series "FJ"; 3/8" is Series "FM" or "FR", depending on the fitting at the end of the rod.
2. Measure Tube Length only; do not include Rod Length.
3. Check color of Nylon Bushing. If White or Red, select a Standard Duty Balance; If Blue, select a Heavy Duty Balance.
4. Verify if fitting on rod protruding from the Nylon Bushing matches an illustration for Non-Tilt Type Balances. Select the appropriate series ("FM" or "FR") if balance diameter is 3/8".
5 Order quantity required of each new balance by the CRL Catalog Number.

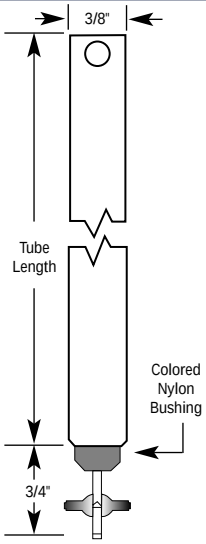
NON-TILT SERIES "FJ" 9/16" DIAMETER



BALANCE TUBE LENGTHS	STD. DUTY RED BUSHING CAT. NO.	HEAVY DUTY BLUE BUSHING CAT. NO.
17"	FJ1720	FJ1730
18"	FJ1820	FJ1830
19"	FJ1920	FJ1930
20"	FJ2020	FJ2030
21"	FJ2120	FJ2130
22"	FJ2220	FJ2230
23"	FJ2320	FJ2330
24"	FJ2420	FJ2430
25"	FJ2520	FJ2530
26"	FJ2620	FJ2630
27"	FJ2720	FJ2730
28"	FJ2820	FJ2830
29"	FJ2920	FJ2930
30"	FJ3020	FJ3030
31"	FJ3120	FJ3130
32"	FJ3220	FJ3230
33"	FJ3320	N/A
34"	FJ3420	N/A
35"	FJ3520	N/A
36"	FJ3620	N/A
37"	FJ3720	N/A
38"	FJ3820	N/A

All sash balances are sold individually (not by the pair), and can be combined for quantity pricing.

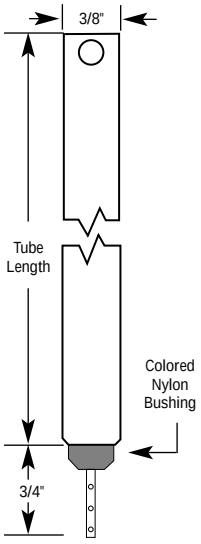
NON-TILT SERIES "FM" 3/8" DIAMETER



BALANCE TUBE LENGTHS	STD. DUTY RED BUSHING CAT. NO.	HEAVY DUTY BLUE BUSHING CAT. NO.
18"	FM1820	FM1830
19"	FM1920	FM1930
20"	FM2020	FM2030
21"	FM2120	FM2130
22"	FM2220	FM2230
23"	FM2320	FM2330
24"	FM2420	FM2430
25"	FM2520	FM2530
26"	FM2620	N/A
27"	FM2720	N/A
28"	FM2820	N/A
29"	FM2920	N/A
30"	FM3020	N/A

All sash balances are sold individually (not by the pair), and can be combined for quantity pricing.

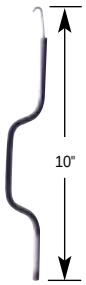
NON-TILT SERIES "FR" 3/8" DIAMETER



BALANCE TUBE LENGTHS	STD. DUTY RED BUSHING CAT. NO.	HEAVY DUTY BLUE BUSHING CAT. NO.
18"	FR1820	FR1830
19"	FR1920	FR1930
20"	FR2020	FR2030
21"	FR2120	FR2130
22"	FR2220	FR2230
23"	FR2320	FR2330
24"	FR2420	FR2430
25"	FR2520	FR2530
26"	FR2620	N/A
27"	FR2720	N/A
28"	FR2820	N/A
29"	FR2920	N/A
30"	FR3020	N/A

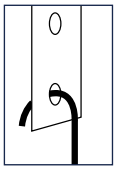
Note: Series "FR" Balances require factory installed end clips. The End Clips for "FR" Balances are shown below.

Non-Tilt Balance Tensioning Tool

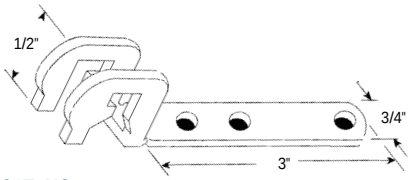


The Non-Tilt Balance Tensioning Tool has a hook that fits in the hole in the end of the spiral rod. Use it to turn the rod to increase or decrease the opening strength of Tubular Spiral Window Balances. Overall tool length is 10 inches.

CAT. NO. H3788

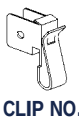


Sash Carrier for Non-Tilt Windows

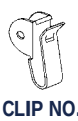


CAT. NO.
H3759 (2/Pack)
H3759B (25/Bag)

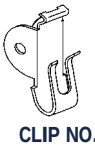
Factory Installed End Clips for Series "FR" Balances



CLIP NO. FS340



CLIP NO. FS341

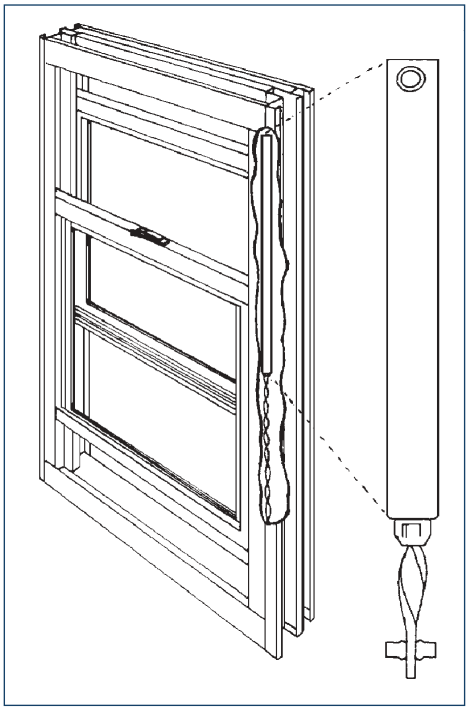


CLIP NO. FS342

CLIP NO. FS343

If you are ordering Series "FR" Balances, you must select the End Clip from those shown here. The End Clips must be factory-installed before shipment.

Spiral Window Balances Removal and Installation Guidelines



Spiral Window Balances are easy to replace if you follow these simple removal and installation guidelines. You must take care not to damage the accessory parts (tilt mechanisms, sash carriers or spiral bar clips), and always use the appropriate Tensioning Tool when adjusting the spiral rods. If you notice any of the accessory parts are worn or damaged when you remove the sash, we recommend you replace them at the same time you replace the window balance. This will save you from possibly having to remove the sash again to replace the accessories. If your window has different accessories than shown on these pages, contact our Technical Sales Department at (800) 421-6144, Ext. 777, and we will locate the right part for your particular need.

Step 1
Tilt Window Sash Removal

A. Raise the sash and tilt it inward by retracting the tilt latches.
B. Press down on the side of the sash. This will allow for sash removal from the frame.
C. Gently remove sash stops and vinyl balance covers when necessary .

Step 2
Tilt Window Balance Removal

TILT WINDOW SASH REMOVAL
The spiral rod is retained by the tilt mechanism (lock shoe).

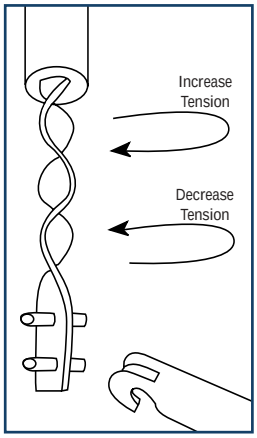
SIDE LOAD BALANCE REMOVAL FOR NON-TILT WINDOWS
The spiral rod is retained by the sash carrier.

A. Grasp spiral rod with the appropriate Tensioning Tool. (See page F240)
B. Release the tension of the spiral rod.
C. Allow the spiral rod to unwind slowly, releasing the tension.
D. Remove the screws at the top of each balance.

Step 3
Balance Installation

BALANCE INSTALLATION

A. Attach the new balance to the jamb with a #8 or #10 x 1-1/2" sheet metal screw through the top hole in the balance.
B. Grasp the spiral rod with the appropriate Tensioning Tool (See page F240).
C. Turn clockwise approximately six full turns. Replace spiral rod into the tilt mechanism or retainer clip.
D. Replace sash and check operation.



NOTE: If sash will not stay in raised position, use the Tensioning Tool and increase the number of clockwise turns of the spiral rod.
If sash will not stay in closed position, use the Tensioning Tool and reduce tension with counter-clockwise turns of the spiral rod.

CRL Aluminum Screen Wire

- Industry Standard 18 x 16 Mesh in Widths from 18" to 72"
- Available in Three Colors: Bright Aluminum, Charcoal and Glossy Black
- The Standard for Service Life and Dependability

WIDTH	BRIGHT ALUMINUM CAT. NO.	CHARCOAL CAT. NO.	GLOSSY BLACK CAT. NO.
18"	AS18	CA18	BA18
20"	AS20	CA20	BA20
22"	AS22	CA22	BA22
24"	AS24	CA24	BA24
26"	AS26	CA26	BA26
28"	AS28	CA28	BA28
30"	AS30	CA30	BA30
32"	AS32	CA32	BA32
34"	AS34	CA34	BA34
36"	AS36	CA36	BA36
38"	AS38	CA38	BA38
40"	AS40	CA40	BA40
42"	AS42	CA42	BA42
48"	AS48	CA48	BA48
54"	AS54	CA54	BA54
60"	AS60	CA60	BA60
72"	AS72	CA72	BA72

For our complete selection of screen wire, see pages 705-707 of our Big Red Catalog.

Bright Aluminum Charcoal Glossy Black

CRL Aluminum Screen Wire sets the standard for service life and durability. The strong 18 x 16 strand mesh is available in three colors: Bright Aluminum, Charcoal and Glossy Black. 17 widths from 18 to 72 inches are all individually boxed in 100 linear foot rolls that will ship U.P.S. Because CRL Aluminum Screen Wire is so durable, its cost per square foot makes it more economical than fiberglass screen over the long run. Fabricators and repair shops agree that CRL Aluminum Screen Wire gives good service at a good price.

CRL Fiberglass Screen Wire

- A Lightweight, Durable Screen Wire That Won't Dent or Bend Out of Shape
- Available in Two Colors - Gray and Charcoal
- Rust and Corrosion Proof
- 17 Widths to Choose From
- 100 or 600 Foot Long Rolls
- All Sizes Can Ship Via U.P.S.

CRL's Fiberglass Screen Wire is a premium quality product that is lightweight, yet tough enough to hold up in a variety of conditions. It's a woven 18 x 16 mesh that is available in 17 widths from 18 to 72 inches in 100 linear foot rolls. This screen material won't rust, corrode, shrink or bend out of shape. It will remain attractive for years, and is excellent for use in patio door, window or porch screens.

We also offer this popular screen wire in economical bulk rolls containing 600 linear feet. It is available in gray and charcoal in three widths; 24, 36 and 48 inches. Like the 100 foot rolls, they can be shipped via U.P.S. If you are a fabricator, or just do lots of screens in these sizes, buying bulk rolls will save you money and insure that you'll always have it in stock.

100 FOOT ROLLS 18X16 MESH

WIDTH	GRAY CAT. NO.	CHARCOAL CAT. NO.
18"	FG18	CF18
20"	FG20	CF20
22"	FG22	CF22
24"	FG24	CF24
26"	FG26	CF26
28"	FG28	CF28
30"	FG30	CF30
32"	FG32	CF32
34"	FG34	CF34
36"	FG36	CF36
38"	FG38	CF38
40"	FG40	CF40
42"	FG42	CF42
48"	FG48	CF48
54"	FG54	CF54
60"	FG60	CF60
72"	FG72	CF72

BULK 600 FOOT ROLLS 18X16 MESH

WIDTH	GRAY CAT. NO.	CHARCOAL CAT. NO.
24"	FG24600	CF24600
36"	FG36600	CF36600
48"	FG48600	CF48600

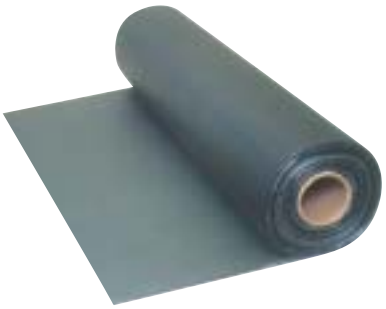
CRL Paw-Proof Pet Screen

- Ultra-Strong Coated Polyester Screening
- Charcoal Color

100 FOOT ROLLS

CAT. NO.	WIDTH	COLOR
PWS36	36"	Charcoal
PWS48	48"	Charcoal

CRL Paw-Proof Pet Screen is an ultra-strong, pet resistant screening made from vinyl coated polyester. This charcoal color wire has a 16 x 11 mesh size, and its .013 diameter allows excellent outward visibility. 100 lineal feet per roll.



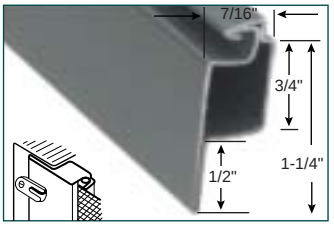
CRL Specialty Screen Frame

- **Available in Three Finishes: Gray, Bronze and White**

1/2" Lip Frame

The 1/2" facing lip allows installation where no backing is available for a box type frame, or for recessed mounting. The .025 mil thickness frame uses corner WSC111, spline size SS175.

- **70 Lengths per Case**
- **12'2" Stock Lengths**

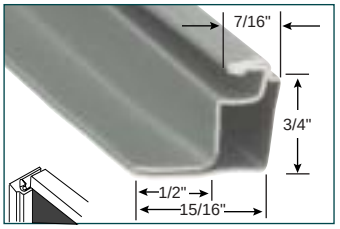


CAT. NO.	FINISH
WSFL1PGRY	Gray
WSFL1PBRZ	Bronze
WSFL1PW	White

1/2" Standoff Frame

This 1/2" standoff leg allows screen installation in windows where a screen wicket is used. The .025 mil thickness frame uses corner WSC111, spline size SS175.

- **90 Lengths per Case**
- **12'2" Stock Lengths**

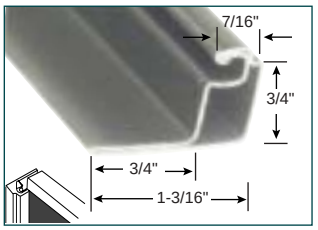


CAT. NO.	FINISH
WSFS12GRY	Gray
WSFS12BRZ	Bronze
WSFS12W	White

3/4" Standoff Frame

This 3/4" standoff leg allows screen installation in windows where a screen wicket is used. The .025 mil thickness frame uses corner WSC111, spline size SS175.

- **90 Lengths per Case**
- **12'2" Stock Lengths**

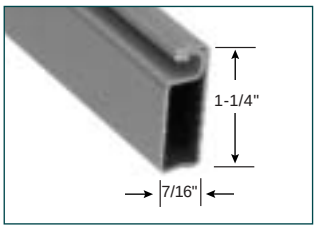


CAT. NO.	FINISH
WSFS34GRY	Gray
WSFS34BRZ	Bronze
WSFS34W	White

1-1/4" x 7/16" Frame

Box-type roll-formed .040 mil thickness frame uses corner WSC114, spline size SS175.

- **65 Lengths per Case**
- **12'2" Stock Lengths**



CAT. NO.	FINISH
WSF1257M	Mill
WSF1257BRZ	Bronze

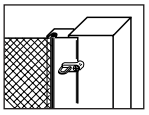
All Screen Frames can be combined for quantity pricing. Because of tolerance in coil stock and stretch in the roll-forming process, stock thickness can range from the advertised thickness, plus or minus .002".

CRL Screen Hardware

- **New Sizes and Finishes**

Die Cast Screen Clips

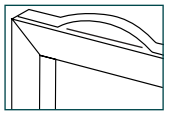
Secures screens to wood or metal frames; turns for easy removal. Made of Zamac alloy metal that will not rust or corrode. Available in bulk packages (100), or carded (12 with screws).



BULK- 100 per Container				CARDED- 12 per Pack		
ZINC CAT. NO.	BLACK CAT. NO.	WHITE CAT. NO.	SIZE	ZINC CAT. NO.	BLACK CAT. NO.	WHITE CAT. NO.
WSC310	WSC310BL	WSC310W	Flush	L5500	L5583	L5608
WSC311	WSC311BL	WSC311W	1/16"	L5501	L5584	L5609
WSC312	WSC312BL	WSC312W	1/8"	L5502	L5585	L5610
WSC313	WSC313BL	WSC313W	3/16"	L5549	L5586	L5611
WSC314	WSC314BL	WSC314W	1/4"	L5550	L5587	L5612
WSC315	WSC315BL	WSC315W	5/16"	L5503	L5588	L5613
WSC316	WSC316BL	WSC316W	3/8"	L5504	L5589	L5614
WSC317	WSC317BL	WSC317W	7/16"	L5505	L5590	L5615
WSC318	WSC318BL	WSC318W	1-3/16	L5606	L5607	L5616

Flat Springs

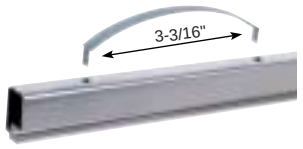
Flat Springs slide into square or mitered corner joint of all CRL Screen Frame.



CAT. NO.	SIZE	QTY./PKG.
WSC410N	1/4"	100
WSC411N	3/16"	100
L5577	1/4"	6
L5605	3/16"	6

Flat Springs

Drill two 3/16" holes, or use WST930 Screen Frame Punch (shown below) to install WSC410 on edge of 5/16" and 3/8" Screen Frame.

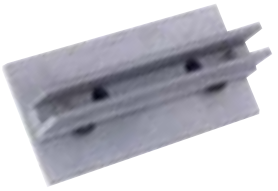


CAT. NO.	QTY./PKG.
WSC410	100
L5527	6

CRL Screen Frame Punch

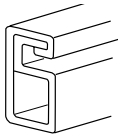
- **The Quick Way to Install WSC410 Flat Springs**

The CRL Screen Frame Punch makes screen fabrication faster and easier. Punches both holes for the WSC410 Springs in one operation. Just push to punch. Works on 5/16" and 3/8" Screen Frames.

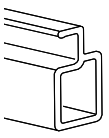


Cat. No. WST930

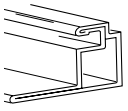
CRL Has a Complete Selection of Quality Screen Frame



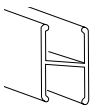
TYPICAL BOX TYPE ROLL-FORMED FRAME



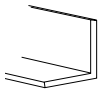
EXTRUDED FRAME



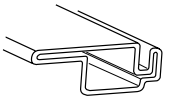
STANDOFF FRAME



SPLICING H-BAR



ANGLE STOP



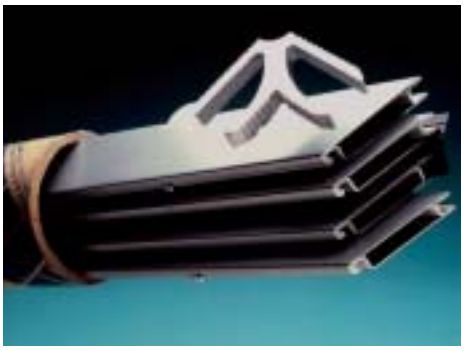
LIP FRAME

See pages 708-711 of our Big Red Catalog.

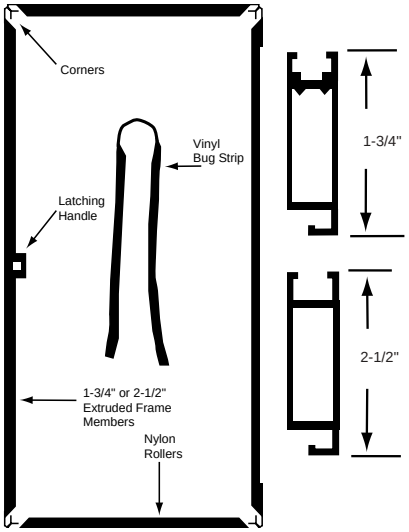
CRL Heavy-Duty Extruded K.D. Sliding Screen Door Kits

- **Ideal for Use in Commercial Applications Such as in Hotels and Motels**
- **Available in Gray, Bronze and White**

Give your customers the option of a really tough screen door with our Heavy-Duty or Super Heavy-Duty K.D. Screen Door Kits. Both have extruded aluminum frame members that will withstand lots of use. Locking latches and steel ball bearing roller assemblies are top quality, and add to the durability of these fine doors. All are individually packaged with everything you need except the screen wire and .185 size retainer spline. All sizes can ship economically via U.P.S. Replacement parts are available. Rolled-formed K.D. Sliding Door Kits are also available. See page 723 of our Big Red Catalog, or visit our web site at **www.crlaurence.com.**



Fully assembled Replace-All Screen Doors also available. See page 722 of our Big Red Catalog



HEAVY-DUTY 1-3/4" EXTRUDED FRAMES

CAT. NO.	FINISH	SIZE (WxH)	FIT DOORS
KDEX13430	Gray	31" X 81"	30"
KDEX13436	Gray	37" X 81"	36"
KDEX13448	Gray	49" X 81"	48"
KDEX13460	Gray	61" X 81"	60"
KDEX13430BRZ	Bronze	31" X 81"	30"
KDEX13436BRZ	Bronze	37" X 81"	36"
KDEX13448BRZ	Bronze	49" X 81"	48"
KDEX13460BRZ	Bronze	61" X 81"	60"
KDEX13430W	White	31" X 81"	30"
KDEX13436W	White	37" X 81"	36"
KDEX13448W	White	49" X 81"	48"
KDEX13460W	White	61" X 81"	60"

96" Heavy-Duty Kits available on special order.

SUPER HEAVY-DUTY 2-1/2" EXTRUDED FRAMES

CAT. NO.	FINISH	SIZE (WxH)	FIT DOORS
KDEX21236	Gray	37" X 81"	36"
KDEX21248	Gray	49" X 81"	48"
KDEX21236BRZ	Bronze	37" X 81"	36"
KDEX21248BRZ	Bronze	49" X 81"	48"

All K.D. Screen Door Kits (Heavy-Duty or Super Heavy-Duty) can be combined for quantity pricing.

CRL Deluxe K.D. Screen Door Kits for Sliding Patio Doors

- **Super Heavy-Duty Extruded Frame for Years of All-Weather Durability**
- **Gray, Bronze and White Painted Finishes**
- **Easy to Assemble and Install**

Our Deluxe K.D. Screen Door Kits for sliding patio doors offer the utmost in durability and utility in all weather conditions. Their extruded aluminum frame members measure an overall 2" wide x 1" thick for extra strength, and are miter cut for the corners that come with each kit. You have the choice of three painted finishes: Gray, Bronze and White, in two standard widths: 36 and 48 inches. The flush mounted latch assembly, spring loaded nylon rollers and retainer T-spline are included. Just add the screen wire of your choice. Each Deluxe K.D. Screen Door Kit is individually packed to ship via U.P.S. If you want to offer your customer the best sliding screen door, choose our New Deluxe K.D. Screen Door Kits.

DELUXE K.D. SCREEN DOOR KITS

CAT. NO.	FINISH	SIZE (WxH)	FIT DOORS
KDDLX36	Gray	37" X 81"	36"
KDDLX36BRZ	Bronze	37" X 81"	36"
KDDLX36W	White	37" X 81"	36"
KDDLX48	Gray	49" X 81"	48"
KDDLX48BRZ	Bronze	49" X 81"	48"
KDDLX48W	White	49" X 81"	48"

All sizes and finishes can be combined for quantity pricing.

CRL Screen Table Kit

- **Boltless Metal Framing Locks Into Place with the Tap of a Mallet**
- **Comfortable 36" Working Height**
- **Adjustable Shelving for Storing Screen Supplies**
- **Designed for Use with 3/4" Particleboard or Plywood (Not Included)**
- **Ships U.P.S. in One Carton**

You always wanted a table that would not just allow you to do your screening, but would also allow for storage of screen wire and other materials needed. You've seen them in other shops, but have put it off, thinking that you don't want to pay the freight on a fabricated table, or put up the the hassle of sending drawings and specs to a manufacturer to have one custom built.

Now with one call to us, we can ship our new Screen Table Kit to you via U.P.S. The CRL Screen Table Kit, when assembled, will provide you with a table surface of 32 square feet, and 64 square feet of storage area. Upon arrival all you have to do is tap the framework together, and add 48 x 96 inch pieces of particleboard or plywood, which you provide.

Cat. No. P8060R

CRL Screen Table Tower Kit

- **Easy to Install on Our P8060R Screen Table Kit**
- **Conveniently Stores Most Commonly Used Screen Wire and Retainer Spline**
- **Painted Steel Uprights and Top Brace, Supplied with 8 Eye Bolts and End Caps to Accommodate 3/4" Spindles**
- **Ships U.P.S. in One Carton**

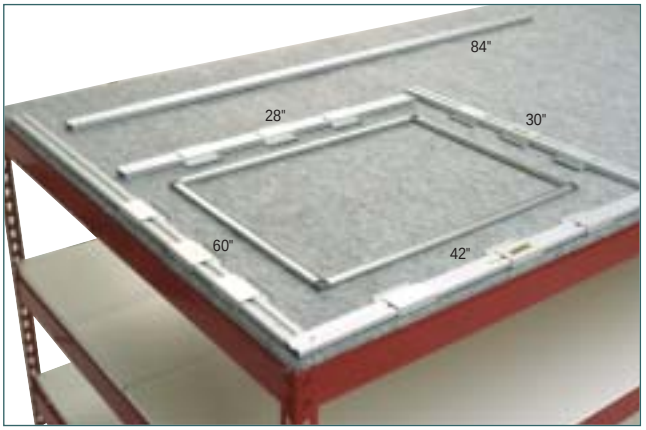
A perfect addition to your new Screen Table is the CRL Screen Table Tower Kit. Keeps screen wire (up to 48" wide) and spline right at your fingertips. This easily installed kit ships in one carton which can be sent to you via U.P.S.

Note: Spindles are not included in the kit.
(3/4" Electrical conduit stock works best).

Big Red Catalog has hundreds of fabrication, installation and repair items for window screens and screen doors. It's the most complete selection in the industry.

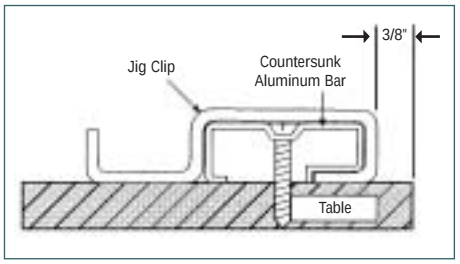
CRL Screen Table Jig Set

- **Allows the Screen Frame to be Held Firmly and Squarely in Place While Installing Screen Wire**
- **Includes Five Extruded Aluminum Bars and 12 Jig Clips for 3/4" Screen Frame**



The CRL Screen Table Jig Set makes fabricating window screens easier because it keeps the screen frame square and in proper alignment while you roll in the screen wire and retainer spline. It can be used on any shop table, and sets up quickly and easily. The set has five extruded aluminum Jig Bars in lengths from 28 to 84 inches. The bars are drilled should you want to permanently mount the two longer bars on the corner of the table. The other bars remain unmounted so you can move them to accommodate screens of any size. The set also includes 12 extruded aluminum Jig Clips that slip over the bars along the four sides of the screen.

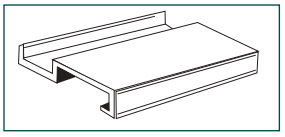
These clips secure your screen frame to the bars while you first roll in the screen wire, then the retainer spline. They are infinitely adjustable so you can change between screen sizes in just seconds. Additional Jig Clips for 3/4" or 1" frame are available in sets of four. Best yet, the whole set ships economically via U.P.S. There's no reason why you shouldn't have one of these time and labor saving Jig Sets for your screen table.



SCREEN TABLE JIG SET

CAT. NO.	DESCRIPTION
P7924	Screen Jig Table Set
P7932	Set of Four 3/4" Clips
P7933	Set of Four 1" Clips

Additional Jig Clips are Available for 3/4" or 1" Screen Frame



CRL Plunger Bolt Jig

- **Produces Clean Straight Holes Every Time**
- **Full Handle Allows for Steady Grip of Frame and Jig**
- **Nylon Jig Will Not Scratch Colored Screen Frame**

The CRL Plunger Bolt Jig ensures that you get a perfect Plunger Bolt hole every time. Simply place over the screen frame, tighten the set screw to lock into place, and use your step drill (Cat. No. WST905, sold separately) to make the hole.

CAT. NO.	DESCRIPTION
WST920	Plunger Bolt Jig
WST905	Plunger Bolt Step Drill

CRL Screen Door Hardware Display

- **New Selection Features 36 of Our Most Popular Screen Door Repair Items**

Our Screen Door Hardware Display contains three cards each of 36 different screen repair items. That's a total of 108 retail packed parts that will prove to be a profit center for your shop. Pegboard hooks, retail sign and planogram included. Replacement hardware to re-stock your display is available from all CRL warehouses.

Cat. No. PLDB5

CRL Sliding Screen Door Grills

- **Very Attractive and Easy to Install**
- **Available in Gray, Bronze or White**
- **Constructed From Heavy-Duty Steel**

CRL Sliding Screen Door Grills are made from heavy-duty steel with long-life finishes. Screen grills have rattle-free, interlock construction (no screws or rivets to work loose). Beautiful florentine pattern will not mar the view or air flow. Three sizes fit any sliding screen door from 29 to 49 inches wide. Easy installation takes only minutes.

SLIDING SCREEN DOOR GRILLS

CAT. NO.	FINISH	SIZE	WIDTH RANGE
PG26	Gray	30"	29" to 31"
PG26BRZ	Bronze	30"	29" to 31"
PG26W	White	30"	29" to 31"
PG30	Gray	36"	35" to 37"
PG30BRZ	Bronze	36"	35" to 37"
PG30W	White	36"	35" to 37"
PG40	Gray	48"	47" to 49"
PG40BRZ	Bronze	48"	47" to 49"
PG40W	White	48"	47" to 49"

Sizes and finishes can be combined for quantity pricing. Minmum order for shipment is 6 grills. Individual grills are only available at CRL Will Call locations.

CRL Adjustable Window Screens

- **Width Adjusts to Window Size**
- **Installs in Seconds Without Clips**

Our Adjustable Window Screens are easy to install in seconds, without tools or fasteners, in wood, metal or vinyl double hung windows. Adjustable Window Screens have 5/16" mill finish frame with gray square cut corners, charcoal fiberglass wire, and black retainer spline. They come in four heights from 8 to 20 inches, with adjustable widths from 20 to 48 inches.

ADJUSTABLE WINDOW SCREENS

CAT NO.	HEIGHT	WIDTH RANGE
AWS08M	8"	20" to 37"
AWS13M	13"	20" to 37"
AWS18M	18"	20" to 37"
AWS20M	20"	25" to 48"

Sizes can be combined for quantity pricing.

CRL Screen Tight System

- **Vinyl Screening System for Professionals and Do-It-Yourselfers**
- **Low Maintenance — Never Needs Painting**
- **No Rusty Nails, Staples or Loose Screens**
- **Accepts Standard Fiberglass Screen Wire and Serrated Retainer Spline**

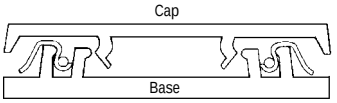
U.S. Patent #4899797

FREE SAMPLE AVAILABLE
Call or fax our Customer Service Department for your free sample of Screen Tight™. Ask for sample number 1838STS.

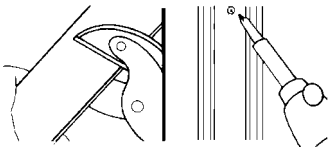
Finally, a common sense approach to screening or rescreening a porch area. Screen Tight Vinyl Screen Frame has been designed with the home builder in mind. With Screen Tight the screen is rolled into place similarly to normal screen fabrication methods. The external Cap snaps into the Base component and evenly tightens the screen. When rescreening, the Cap temporarily pops off, allowing quick and efficient replacement.

Screen Tight's unique system is easily adaptable to most screen porches. The Base attaches to existing 2 x 4 or 4 x 4 framing with wood screws, roof tacks or staples. Prepunched holes on 8 inch centers result in a quick and consistent attachment. Once the Base is attached, the screen is rolled into place with a standard screen spline roller. The excess screen is cut and removed. The Cap snaps into the Base, completing the installation.

Screen Tight is durable and weather resistant. It is low maintenance because it won't corrode, rust or rot, and never needs painting.

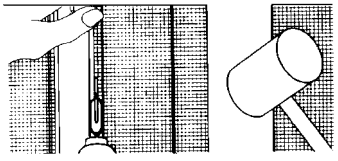


A. Base attaches to 2x4 or 4x4 wooden frame.
B. Screen and spline rolls into the spline groove.
C. Cap snaps onto base.



Four Easy Installation Steps:

1. Base component is easily cut to fit with CRL PTS89 Trimming Snips.
2. Attach base to existing wooden frame with screws or roofing tacks.



3. Secure screen to base with screen spline by rolling spline into groove.
4. Trim excess screen and snap cap into base.

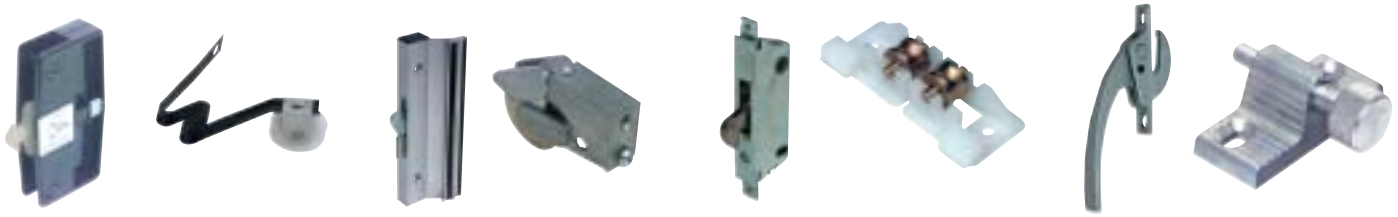
SCREEN TIGHT COMPONENTS

DESCRIPTION		CAT.NO.	COLOR	LENGTH	PCS/CTN.
1-1/2" Wide Cap		**CAP18BE8**	Beige	96"	20
		CAP18W8	White	96"	20
1-1/2" Wide Base		**BAS188**	Black	96"	20
3-1/2" Wide Cap		**CAP38BE8**	Beige	96"	20
		CAP38W8	White	96"	20
3-1/2" Wide Base		**BAS388**	Black	96"	20

Minimum order is 5 lengths of one size and color. Colors can be combined for quantity pricing.

CRL Replacement Hardware

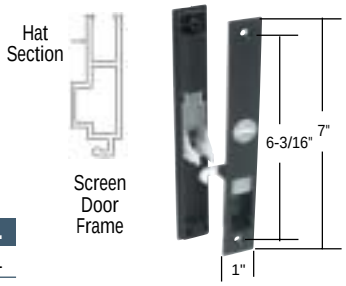
Pages of New Products Plus an Expanded Selection of Our Most Popular Items



Screen Door Latches | Screen Doors Rollers | Patio Door Handles | Patio Door Rollers | Glass Door Locks | Window Rollers | Window Handles | Patio Door Locks

Sliding Screen Door Flush Latch

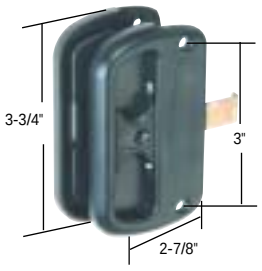
Mortise installation; non-handed; used on hat section *Columbia Mfg.* screen doors.



CAT. NO.	COLOR	QTY./PKG.
A179	Black	1

Sliding Screen Door Latch and Pull

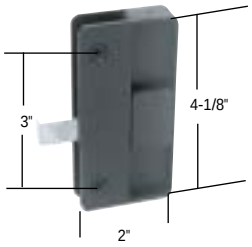
Non-handed; mortise installation; used on standard 1/2" thick screen doors.



CAT. NO.	COLOR	QTY./PKG.
A186	Black	1

Sliding Screen Door Latch and Pull

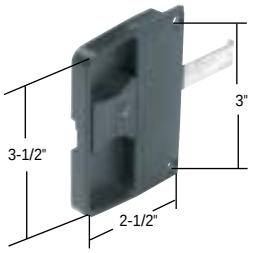
Non-handed; mortise installation; used by *Columbia Mfg.*



CAT. NO.	COLOR	QTY./PKG.
A177	Black	1

Sliding Screen Door Latch and Pull

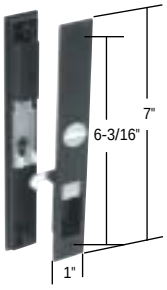
Non-handed; mortise installation; used on hat section doors by several manufacturers.



CAT. NO.	COLOR	QTY./PKG.
A187	Black	1

Sliding Screen Door Flush Latch

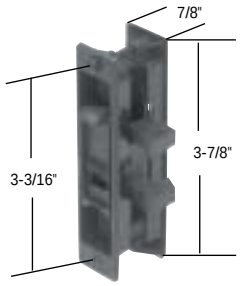
Non-handed; mortise installation; used with 1/2" thick *Columbia Mfg.* screen doors.



CAT. NO.	COLOR	QTY./PKG.
A178	Black	1

Sliding Screen Door Latch and Pull

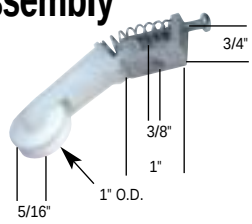
Non-handed; mortise installation; inside latch has security locking feature; designed for *Peachtree* doors.



CAT. NO.	COLOR	QTY./PKG.
A189	Black	1

Sliding Screen Door Roller Assembly

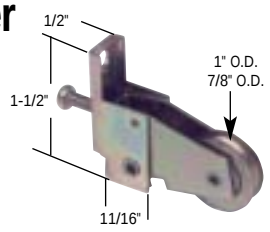
1" dia. nylon roller with center groove; built-in screw adjustment.



CAT. NO.	ROLLER	QTY./PKG.
B582	Nylon	1

Sliding Screen Door Roller

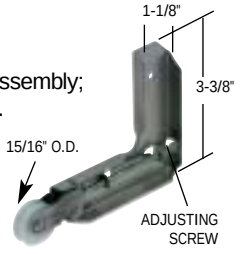
Steel housing with center groove ball bearing roller.



CAT. NO.	ROLLER	QTY./PKG.
B605	Nylon B.B. 1"	2
B669	Steel B.B. 7/8"	2

Sliding Screen Door Corner Insert with Roller

Stamped aluminum corner with built-in roller assembly; with adjusting screw; used on *Jim Walters* Doors.

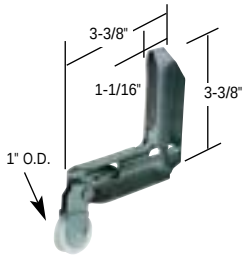


CAT. NO.	ROLLER	QTY./PKG.
B604	Nylon	1
B604B	Nylon	20
B725	Steel	1

All packages of Replacement Hardware can be combined for quantity pricing.

Sliding Screen Door Corner Insert with Roller

Stamped steel corner with steel wheel housing supporting 1" dia. nylon wheel with wide center groove; spring loaded; complete with adjusting screw; used by *Metal Industries.*

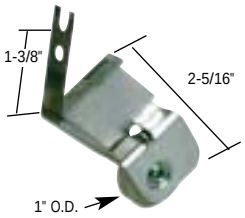


CAT. NO.	ROLLER	QTY./PKG.
B607	Nylon	1
B607B	Nylon	20
B727	Steel	1

New Products and Expanded Selection

Sliding Screen Door Roller

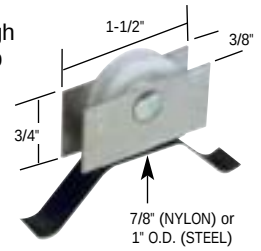
1" dia. roller with center groove; stamped aluminum housing; used as top and bottom roller on *International Series 900, 925 and 950* screen doors.



CAT. NO.	ROLLER	QTY./PKG.
B634	Nylon	2
B690	Steel B.B	2

Sliding Screen Door Roller

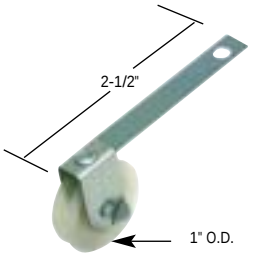
Roller with center groove; heat treated, high tension steel spring; can be used as both top and bottom roller on *Keller* screen doors.



CAT. NO.	ROLLER	QTY./PKG.
B503	Nylon 7/8"	2
B503B	Nylon 7/8"	50
B678	Steel B.B. 1"	2

Sliding Screen Door Roller

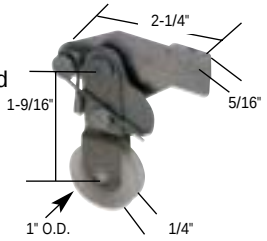
1" dia. roller with center groove; heat treated high tension steel spring with angle stop plates; used on many screen doors.



CAT. NO.	ROLLER	QTY./PKG.
B635	Nylon	2
B666	Steel B.B	2

Sliding Screen Door Roller

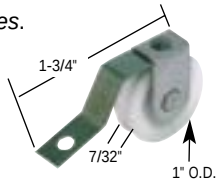
1" dia. roller; center groove; spring loaded; aluminum housing with adjustment screw and sleeve.



CAT. NO.	ROLLER	QTY./PKG.
B641	Nylon	1
B641B	Nylon	15
B679	Steel B.B.	1

Sliding Screen Door Roller

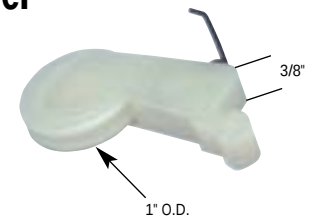
1" dia. roller with center groove; heat treated high tension steel spring; used by *Metal Industries*.



CAT. NO.	ROLLER	QTY./PKG.
B638	Nylon	2
B638B	Nylon	50
B639	Steel B.B.	2
B639B	Steel B.B.	30
B687	Nylon B.B.	2

Sliding Screen Door Roller

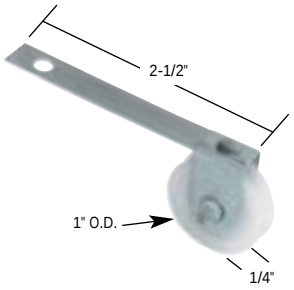
Nylon housing; steel spring with 1" dia. center groove roller.



CAT. NO.	ROLLER	QTY./PKG.
B692	Nylon	2

Sliding Screen Door Roller

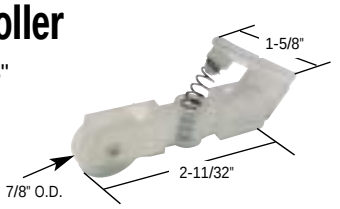
1" dia. roller with center groove; 2-1/2" heat treated, high tension steel spring.



CAT. NO.	ROLLER	QTY./PKG.
B521	Nylon 1"	2
B521B	Nylon 1"	50
B522	Steel B.B. 1"	2
B522B	Steel B.B. 1"	50
B685N	Nylon B.B. 1"	2

Sliding Screen Door Roller

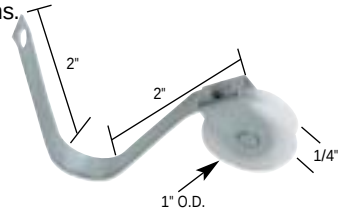
Spring loaded nylon housing; 7/8" dia. nylon center groove roller; used on *Chrysler* screen doors.



CAT. NO.	ROLLER	QTY./PKG.
B694	Nylon	2

Sliding Screen Door Roller

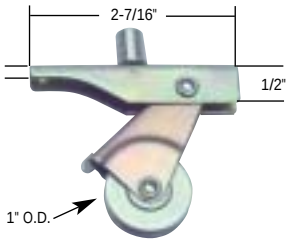
1" dia. roller with center groove; heat treated high tension steel spring; universal design will fit most applications.



CAT. NO.	ROLLER	QTY./PKG.
B570	Nylon 1"	2
B570B	Nylon 1"	50
B571	Steel B.B. 1"	2
B571B	Steel B.B. 1"	50
B688N	Nylon B.B. 1"	2

Sliding Screen Door Roller

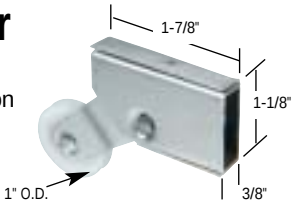
Spring loaded steel housing with 1" dia. center groove roller. Complete with adjustment sleeve and screw.



CAT. NO.	ROLLER	QTY./PKG.
B702	Steel B.B.	2

Sliding Screen Door Roller

1" dia. nylon roller with center groove; spring loaded aluminum housing; used on *Multi-Fit* doors.



CAT. NO.	ROLLER	QTY./PKG.
B734	Nylon	2

All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

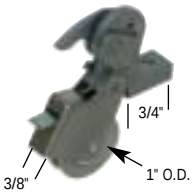
Sliding Screen Door Roller

All nylon roller assembly; 1" dia. center groove roller; adjustable; used on *Peachtree* doors.

CAT. NO.	ROLLER	QTY./PKG.
B645	Nylon	2
B645B	Nylon	30
B683	Steel B.B.	2

Sliding Screen Door Roller

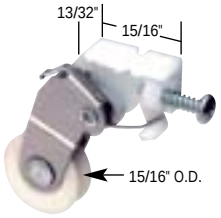
1" dia. steel ball bearing roller; diecast adjustable mounting bracket with stamped steel wheel housing; 1 LH and 1 RH per package.



CAT. NO.	ROLLER	QTY./PKG.
B663	Steel B.B.	2

Sliding Screen Door Roller

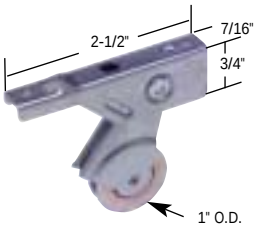
15/16" dia. nylon roller with center groove; nylon housing with aluminum yoke.



CAT. NO.	ROLLER	QTY./PKG.
B647	Nylon	2
B682	Steel B.B.	2

Sliding Screen Door Roller

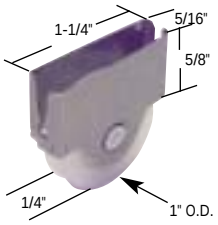
Stainless steel housing with 1" dia. center groove steel ball bearing roller.



CAT. NO.	ROLLER	QTY./PKG.
B665	Steel B.B.	2

Sliding Screen Door Roller

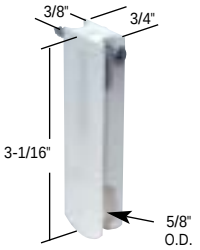
Stainless steel housing with 1" dia. center groove roller; designed by *Columbia Mfg.*



CAT. NO.	ROLLER	QTY./PKG.
B652	Nylon	2
B696	Steel B.B.	2

Sliding Screen Door Roller

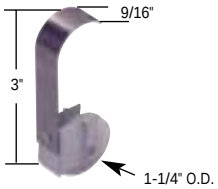
Nylon housing with 5/8" dia. flat nylon roller; used by *Weathershield Mfg.*



CAT. NO.	ROLLER	QTY./PKG.
B668	Nylon	2

Sliding Screen Door Roller

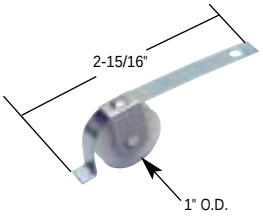
Flat steel spring with extruded aluminum housing; 1-1/4" dia. center groove roller.



CAT. NO.	ROLLER	QTY./PKG.
B659	Nylon	2

Sliding Screen Door Roller

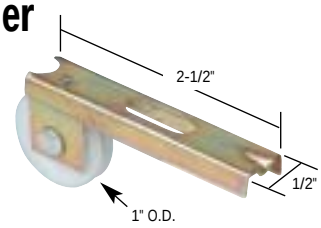
1" dia. center groove roller with flat, heat-treated, hign tension spring.



CAT. NO.	ROLLER	QTY./PKG.
B681	Nylon	2

Sliding Screen Door Roller

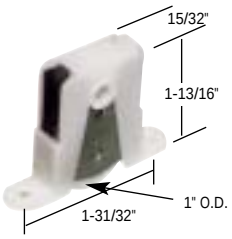
1" dia. nylon concave roller with center groove; steel mounting spring; used by *Thermo-Tech.*



CAT. NO.	ROLLER	QTY./PKG.
B728	Nylon	1

Sliding Screen Door Roller

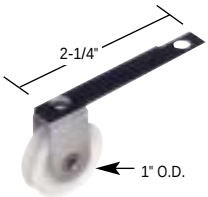
Nylon housing with 1" dia. center groove nylon roller; aluminum inner housing with adjustment cam.



CAT. NO.	ROLLER	QTY./PKG.
B684	Nylon	2

Sliding Screen Door Triple Spring Roller

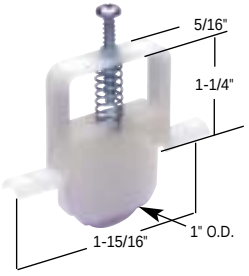
1" dia. nylon roller with center groove; 2-1/4" heat-treated, high tension spring steel; triple springs to increase tension, used by *Academy Mfg. Co.*



CAT. NO.	ROLLER	QTY./PKG.
B662	Nylon	2

Sliding Screen Door Roller

Nylon housing with 1" dia. center groove roller; used on *Columbia* screen doors.



CAT. NO.	ROLLER	QTY./PKG.
B691	Nylon	2
B695	Steel B.B.	2

All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

CRL "Kelly Klozer" Sliding Screen Door Closer

- Automatically Closes Most Sizes of Sliding Screen Doors
- Fully Adjustable Closing Speed
- Satin Anodized, Bronze and White Painted Finishes
- Complete with Ball Bearing Bottom Rollers and Top Roller Guides

The "Kelly Klozer" for sliding screen doors will operate on right or left closing doors up to 60" wide. A durable spring and pneumatic mechanism allows door to open fully and easily on supplied ball bearing bottom rollers and top roller guides. Closing speed is controlled by means of a spring-tensioned adjustment valve. Installation requires two screws on the closer unit and two screws for the universal bracket. Closer can be mounted horizontally above the door, vertically adjacent to the jamb, or on the door itself. Constructed of 1" diameter aluminum tube that may be painted to match exterior. Entire unit weighs approximately two pounds.

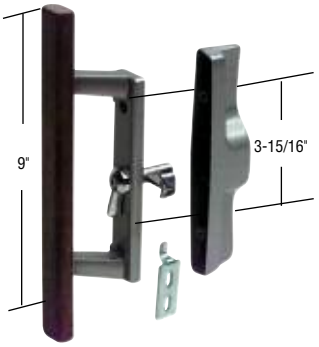
CAT. NO.	FINISH	QTY./PKG.
PL15535	Satin Anodized	1
PL15536	Bronze (Powder Coated)	1
PL15537	White (Powder Coated)	1

Finishes can be combined for quantity pricing.

Sliding Glass Door Handle

Internal latching glass door handle with wood pull; easy to install and reversible; available with or without keyed lock; 3-15/16" hole centers.

Contents: 1 inside pull; 1 outside pull; 1 strike; installation screws.

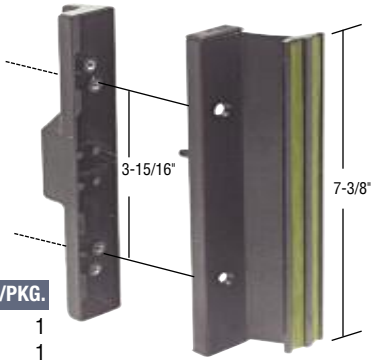


CAT. NO.	FINISH	KEYED	QTY./PKG.
C1018	Gray	No	1
C1107	Black	No	1
C1064	Gray	Yes	1
C1132	Black	Yes	1

Sliding Glass Door Handle

Standard handle set for mortise locks; aluminum inside pull; die-cast outside pull; designed for use with latching units E2008, E2009, E2014, E2079; non-handed; surface mount; 3-15/16" hole centers.

Contents: 1 inside pull; 1 outside pull; installation screws.

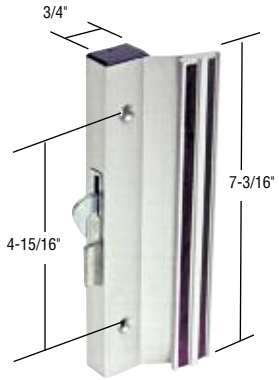


CAT. NO.	FINISH	QTY./PKG.
C1058	Black	1
C1111	White	1

Sliding Glass Door Handle

Universal application; both inside and outside sliding doors; aluminum inside pull with wood grain feature strip; flush outside pull; 4-15/16" hole centers.

Contents: 1 inside pull; 1 outside pull; keeper; installation screws.

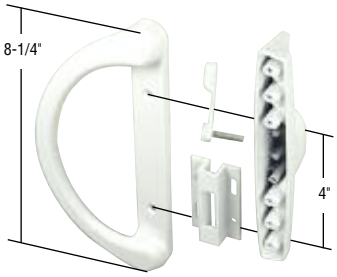


CAT. NO.	FINISH	QTY./PKG.
C1000	Aluminum	1
C1001	Black	1
C1185	Bronze	1

Sliding Glass Door Handle

Low profile, mortise style handle set; one-piece die-cast body; thumbturn operated mortise latch; mortise latch sold separately; use E2012, E2013 or E2014; 4" hole centers.

Contents: 1 inside pull; 1 outside pull;1 keeper; installation screws.



CAT. NO.	FINISH	QTY./PKG.
C1224	Black	1
C1225	White	1

Sliding Glass Door Handle

High security surface mount clamp style handle set; comes with two clamps which can be interchanged to fit most door applications; die-cast inside and outside pulls; 5" hole centers.

Contents: 1 inside pull; 1 outside pull; 2 clamps; installation screws.

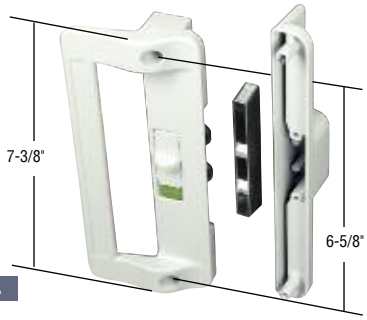
CAT. NO.	FINISH	QTY./PKG.
C1222	Black	1
C1223	White	1

All packages of Replacement Hardware can be combined for quantity pricing.

Sliding Glass Door Handle

Low profile, hook style handle set; die-cast body and keeper; twin latching hooks; slide lock mechanism; 6-5/8" hole centers.

Contents: 1 inside pull; 1 outside pull; 1 keeper; installation screws.



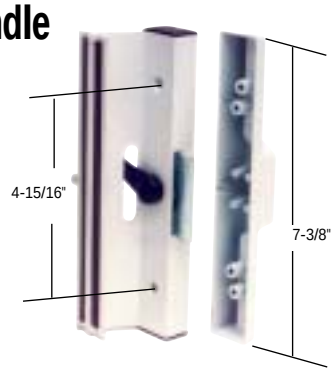
CAT. NO.	FINISH	QTY./PKG.
C1221	White	1

New Products and Expanded Selection

Sliding Glass Door Handle

Aluminum inside pull with clam type latch; die-cast outside pull has knock-out for converting to keyed cylinder lock;
4-15/16" hole centers.

Contents: 1 inside pull; 1 outside pull; installation screws.

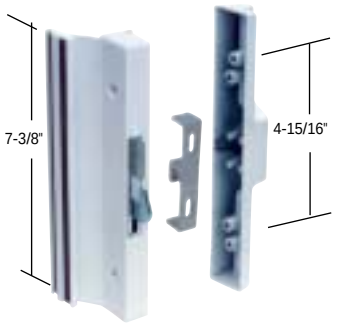


CAT. NO.	FINISH	QTY./PKG.
C1116	White	1

Sliding Glass Door Handle

Aluminum inside pull with easily reversible hook latch and anti-lift bar; die-cast outside pull; extruded aluminum keeper; 4-15/16" hole centers.

Contents: 1 inside pull and latch assembly; 1 outside pull; 1 keeper; installation screws.

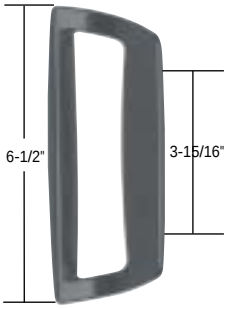


CAT. NO.	FINISH	QTY./PKG.
C1118	White	1

Sliding Glass Door Outside Pull

Black finish die-cast pull; often used with C1127 Inside Handle; 3-15/16" hole centers.

Contents: 1 outside pull.

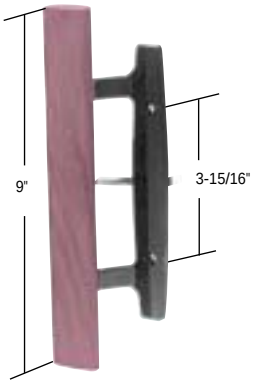


CAT. NO.	FINISH	QTY./PKG.
C1122	Black	1

Sliding Glass Door Inside Handle

Black finish, die-cast body and clear stained hardwood pull; thumb lever with 3/4" actuator; often used with C1122 outside pull;
3-15/16" hole centers.

Contents: 1 inside pull; installation screws.

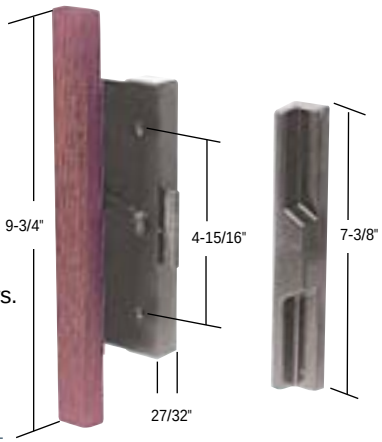


CAT. NO.	FINISH	QTY./PKG.
C1127	Black	1

Sliding Glass Door Handle

Aluminum inside handle in either black or white finish with stained hardwood pull; die-cast outside pull; clam type latch;
4-15/16" hole centers.

Contents: 1 inside pull;
1 outside pull; installation screws.

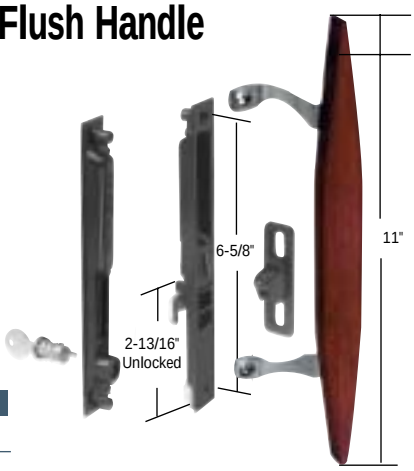


CAT. NO.	FINISH	QTY./PKG.
C1126	Black	1
C1181	White	1

Sliding Glass Door Flush Handle with Keyed Lock

Black finish, die-cast flush handle with key cylinder; similar to other flush handles except for mid-body hook position; inside wood handle; 6-5/8" hole centers.

Contents: 1 outside pull;
1 inside pull; strike; 1 locking cylinder; installation screws.

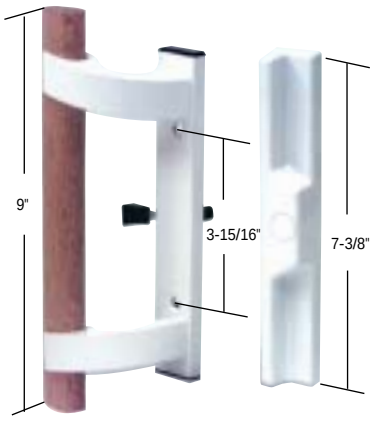


CAT. NO.	FINISH	QTY./PKG.
C1124	Black	1

Sliding Glass Door Handle

White finish, die-cast body and outside pull with hardwood pull handle; thumb lever actuator; inside profile height is 2-3/8";
3-15/16" hole centers.

Contents: 1 inside pull;
1 outside pull;
installation screws.



CAT. NO.	FINISH	QTY./PKG.
C1128	White	1

Sliding Glass Door Flush Handle

Black finish, die-cast flush handle with 1/8" thick spacer ring; designed to adapt to *Croft Metals Series 701* 7/8" thick door stile;
6-5/8" hole centers.

Contents: 1 outside pull;
1 inside pull; spacer; strike;
4 hook assortment;
installation screws.

CAT. NO.	FINISH	QTY./PKG.
C1130	Black	1

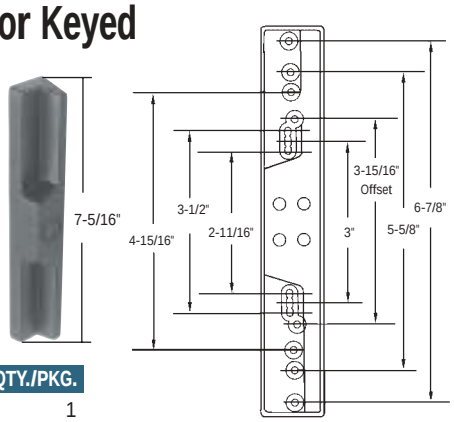
All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

Sliding Glass Door Keyed Locking Unit

Multi-mounting hole outside pull; quick knock-out plug for optional key cylinder.

Contents: 1 outside pull; 1 locking cylinder; installation screws.

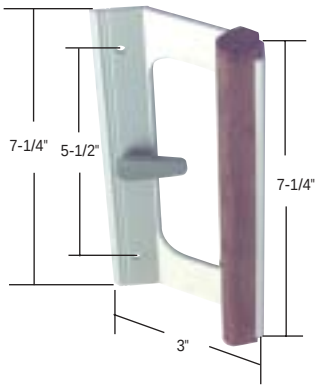


CAT. NO.	FINISH	QTY./PKG.
C1139	Black	1

Sliding Glass Door Handle

Extruded aluminum handle with wood pull, thumbturn and 1" long mortise latch actuator tongue; 5-1/2" hole centers.

Contents: 1 inside pull; thumb lock; installation screws.

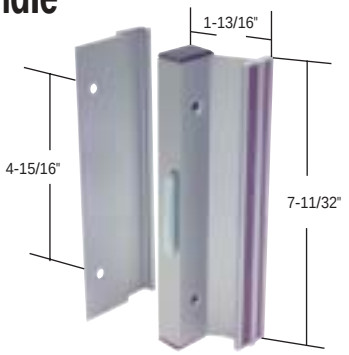


CAT. NO.	FINISH	QTY./PKG.
C1155	Aluminum	1

Sliding Glass Door Handle

Spring loaded clamp latch with black plastic vertical slide actuator; used by several door manufacturers; 4-15/16" hole centers.

Contents: 1 inside pull; 1 outside pull; installation screws.

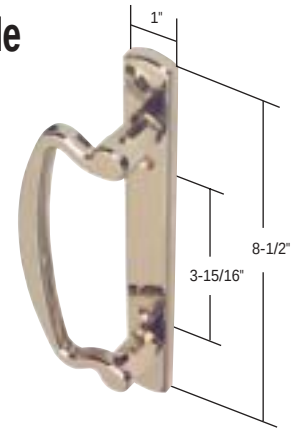


CAT. NO.	FINISH	QTY./PKG.
C1162	Aluminum	1
C1163	Bronze	1

Sliding Glass Door Handle

High profile die-cast handle set for mortise locks; non-handed; outside pull can be keyed using E2144 Key Cylinder Adapter Kit; 1-11/16" handle height; 3-15/16" hole centers.

Contents: 1 inside pull; 1 outside pull; installation screws.

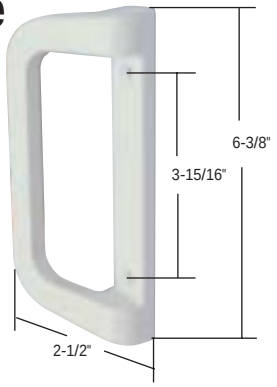


CAT. NO.	FINISH	QTY./PKG.
C1174	Bright Brass	1
C1176	White	1

Sliding Glass Door Handle

Low profile 1-3/8" handle height, die-cast handle set for mortise locks; non-handed; outside pull (not shown) can be keyed using E2144 Key Cylinder Adapter Kit; complete with thumb lever; 3-15/16" hole centers.

Contents: 1 inside pull; 1 outside pull; installation screws.



CAT. NO.	FINISH	QTY./PKG.
C1177	White	1

Sliding Glass Door Handle

Low profile 1-1/2" handle height, long base, die-cast handle set complete with thumb lever for mortise locks; non-handed; outside pull (not shown) can be keyed using E2144 Key Cylinder Adapter Kit; 3-15/16" hole centers.

Contents: 1 inside pull; 1 outside pull; installation screws.

CAT. NO.	FINISH	QTY./PKG.
C1178	White	1

Sliding Glass Door Handle

Die-cast handle set for mortise locks; new design allows placement of key cylinder away from handle pull area; 1-3/16" handle height; 3-15/16" hole centers.

Contents: 1 inside pull; 1 outside pull; installation screws.

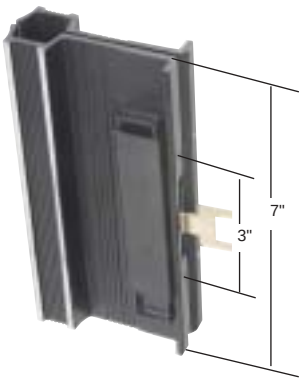
CAT. NO.	FINISH	QTY./PKG.
C1179	White	1

All packages of Replacement Hardware can be combined for quantity pricing.

Sliding Glass Door Handle

Black finish, extruded aluminum inside pull with plastic latch assembly and steel lock; black finish, extruded aluminum outside pull; designed for Guaranteed patio doors; 3" hole centers.

Contents: 1 inside pull; 1 outside pull; complete set of attaching hardware.



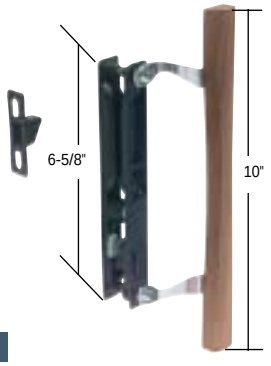
CAT. NO.	FINISH	KEYED	QTY./PKG.
C1028	Black	No	1
C1029	Black	Yes	1

New Products and Expanded Selection

Sliding Glass Door Handle

Designed to replace most flush mount locks now in use; complete with a key cylinder and a standard handle; key cylinder locks unit from outside; thumb latch locks from inside; reversible; 6-5/8" hole centers.

Contents: 1 inside latch with pull; 1 outside pull; locking cylinder with 2 keys; 4 hook assortment; keeper; installation screws.

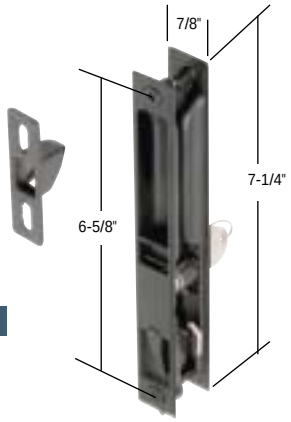


CAT. NO.	FINISH	KEYED	QTY./PKG.
C1032	Black	Yes	1
C1149	Chrome	Yes	1
C1197	White	Yes	1

Sliding Glass Door Handle

Die-cast universal flush handle; 4 hooks to accommodate different door widths; reversible handing; 6-5/8" hole centers.

Contents: 1 inside pull; 1 outside pull; strike; 4 hooks; installation screws.

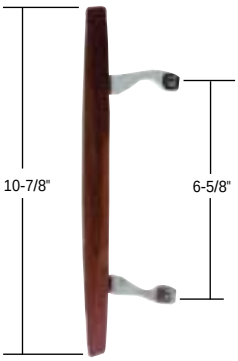


CAT. NO.	FINISH	KEYED	QTY./PKG.
C1033	Black	Yes	1
C1043	Black	No	1
C1076	Chrome	Yes	1
C1045	Chrome	No	1
C1129	White	Yes	1
C1226	White	No	1

Wood Handle for Flush Mount Locks

Wood handle on chrome struts; used on any door needing a handle with 6-5/8" hole centers.

Contents: 1 pull; installation screws.

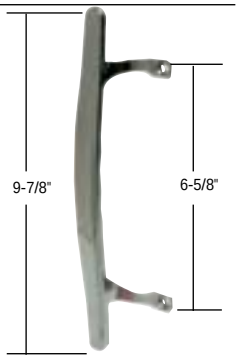


CAT. NO.	FINISH	QTY./PKG.
C1069	Wood	1
C1069B	Wood	5

Chrome Handle for Flush Mount Locks

Chrome finish metal handle on chrome struts; used on any door needing a handle with 6-5/8" hole centers.

Contents: 1 pull; installation screws.

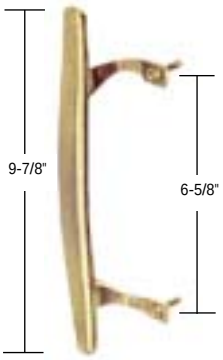


CAT. NO.	FINISH	QTY./PKG.
C1067	Chrome	1
C1067B	Chrome	5

Brass Handle for Flush Mount Locks

Brass plated metal handle; used on any door needing a handle with 6-5/8" hole centers.

Contents: 1 pull; installation screws.



CAT. NO.	FINISH	QTY./PKG.
C1161	Brass	1

White Handle for Flush Mount Locks

White metal handle; used on any door needing a handle with 6-5/8" hole centers.

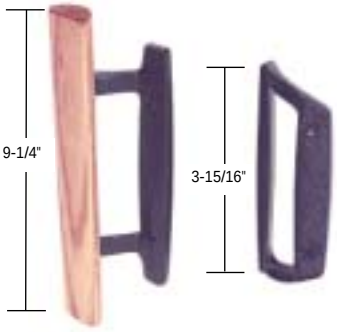
Contents: 1 pull; installation screws.

CAT. NO.	FINISH	QTY./PKG.
C1196	White	1

Sliding Glass Door Handle

Die-cast inside pull with wood handle; die-cast thumbturn and steel latch activator; die-cast outside pull; 3-15/16" hole centers.

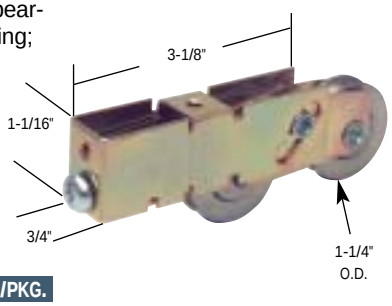
Contents: 1 inside pull; 1 outside pull; installation screws.



CAT. NO.	FINISH	QTY./PKG.
C1131	Black	1
C1204	White	1

Sliding Glass Door Roller Assembly

Tandem 1-1/4" dia. steel ball bearing rollers; adjustable steel housing; used by several Canadian glass door manufacturers.



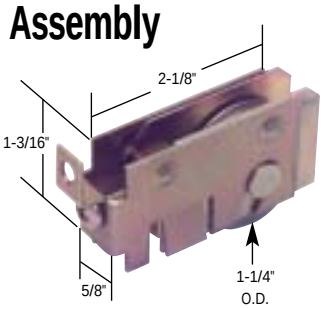
CAT. NO.	ROLLER	QTY./PKG.
D1808	Steel B.B.	1

All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

Sliding Glass Door Roller Assembly

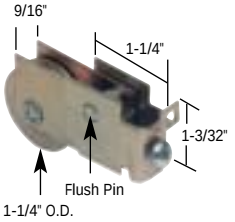
1-1/4" dia. steel ball bearing roller; adjustable steel housing assembly.



CAT. NO.	ROLLER	QTY./PKG.
D1856	Steel B.B.	1

Sliding Glass Door Roller Assembly

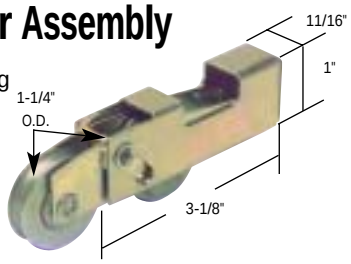
1-1/4" dia. steel ball bearing roller assembly; adjustable steel housing; inner and outer housings held together with a flush pin (not a rivet); smooth sides, no flares; used by *Superlite Mfg.*



CAT. NO.	ROLLER	QTY./PKG.
D1773	Steel B.B.	1

Sliding Glass Door Roller Assembly

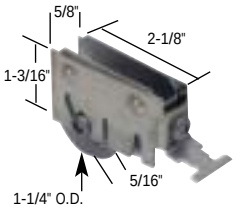
Tandem 1-1/4" dia. steel ball bearing rollers; adjustable steel housing.



CAT. NO.	ROLLER	QTY./PKG.
D1858	Steel B.B.	1

Sliding Glass Door Roller Assembly

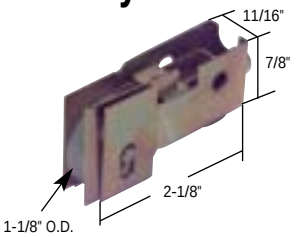
1-1/4" dia. ball bearing roller; adjustable aluminum housing assembly; used by *International* and other glass door manufacturers; aluminum housing resists corrosion. Recommended for humid climates.



CAT. NO.	ROLLER	QTY./PKG.
D1778	Stainless Steel	1

Sliding Glass Door Roller Assembly

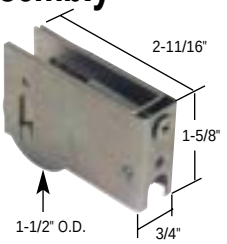
1-1/8" dia. nylon ball bearing roller; adjustable steel housing assembly; used by *Patio Enclosures* glass doors.



CAT. NO.	ROLLER	QTY./PKG.
D1771	Nylon B.B.	1

Sliding Glass Door Roller Assembly

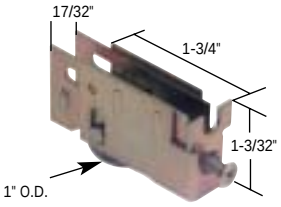
1-1/2" dia. steel ball bearing roller; adjustable steel housing assembly; used by *Keller Windows* and other glass door manufacturers.



CAT. NO.	ROLLER	QTY./PKG.
D1759	Steel B.B.	1

Sliding Glass Door Roller Assembly

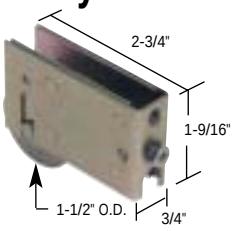
1" dia. flat steel ball bearing roller; adjustable steel housing assembly; used by *Capitol Door*.



CAT. NO.	ROLLER	QTY./PKG.
D1774	Steel B.B.	1

Sliding Glass Door Roller Assembly

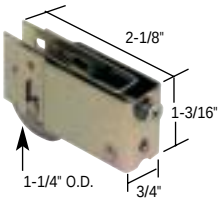
1-1/2" dia. steel ball bearing roller; adjustable steel housing assembly; used by *Crown Windows* and other glass door manufacturers.



CAT. NO.	ROLLER	QTY./PKG.
D1761	Steel B.B.	1

Sliding Glass Door Roller Assembly

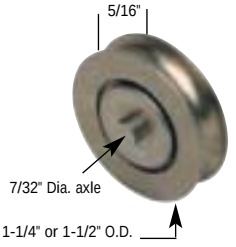
1-1/4" dia. steel ball bearing roller; steel housing; used by *Nu-Air* and other glass door manufacturers.



CAT. NO.	ROLLER	QTY./PKG.
D1762	Steel B.B.	1

Sliding Glass Door Roller

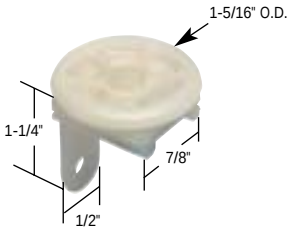
Universal design; center groove steel ball bearing roller; built-in axle.



CAT. NO.	ROLLER	QTY./PKG.
D1765	Steel B.B. 1-1/4"	2
D1766	Steel B.B. 1-1/2"	2

Sliding Glass Door Top Roller Guide

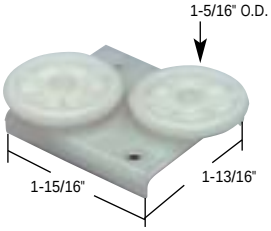
1-5/16" dia. nylon top roller guide; used on *Peachtree* glass doors.



CAT. NO.	ROLLER	QTY./PKG.
D1803	Nylon	1

Sliding Glass Door Top Roller Guide

Nylon top guide with tandem 1-5/16" dia. rollers; used on *Peachtree* glass doors.



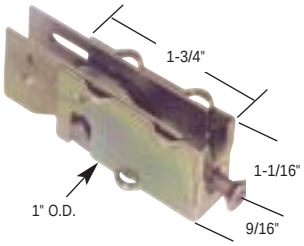
CAT. NO.	ROLLER	QTY./PKG.
D1804	Nylon	1

All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

Sliding Glass Door Roller Assembly

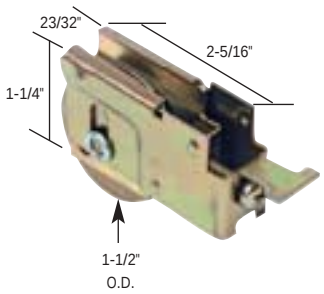
1" dia. flat steel ball bearing roller, 9/16" wide adjustable steel housing assembly; used by several glass door manufacturers.



CAT. NO.	ROLLER	QTY./PKG.
D1818	Steel B.B.	1

Sliding Glass Door Roller Assembly

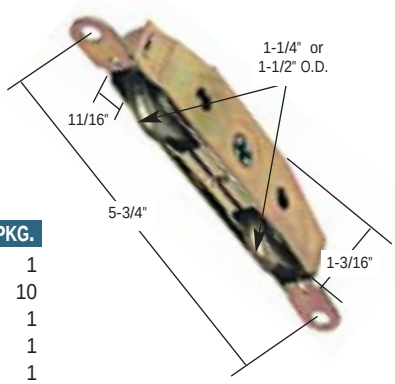
1-1/2" dia. ball bearing roller; adjustable steel housing assembly; used by *Marshall*.



CAT. NO.	ROLLER	QTY./PKG.
D1525	Steel B.B.	1
D1789	Nylon B.B.	1

Sliding Glass Door Roller Assembly

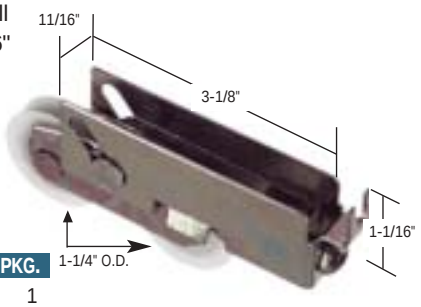
Nylon or steel ball bearing rollers; tandem design; 11/16" wide adjustable steel housing assembly.



CAT. NO.	ROLLER	QTY./PKG.
D1607	Steel B.B. 1-1/4"	1
D1607B	Steel B.B. 1-1/4"	10
D1730	Nylon B.B.1-1/4"	1
D1780	Stainless B.B. 1-1/4"	1
D1855	Nylon B.B. 1-1/2"	1

Sliding Glass Door Roller Assembly

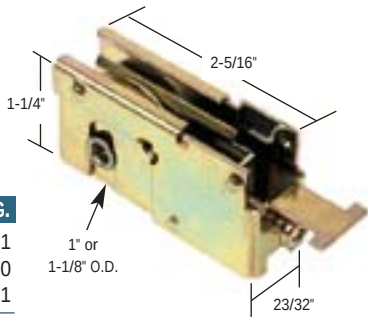
1-1/4" dia. tandem steel ball bearing or nylon rollers; 11/16" wide adjustable steel housing assembly; used by *Pacific* and several glass door manufacturers.



CAT. NO.	ROLLER	QTY./PKG.
D1552	Steel B.B. 1-1/4"	1
D1552B	Steel B.B. 1-1/4"	10
D1852	Nylon 1-1/4"	1

Sliding Glass Door Roller Assembly

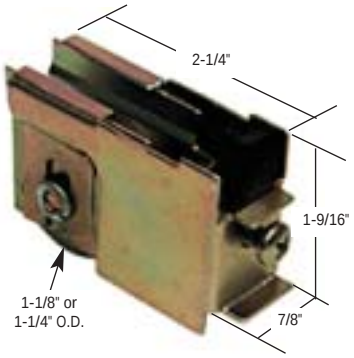
1" or 1-1/8" dia. ball bearing roller; 3/4" wide adjustable steel housing assembly; 7/8" overall housing thickness; used by several grass door manufacturers.



CAT. NO.	ROLLER	QTY./PKG.
D1523	Steel B.B. 1-1/8"	1
D1523B	Steel B.B. 1-1/8"	10
D1837	Nylon B.B. 1"	1

Sliding Glass Door Roller Assembly

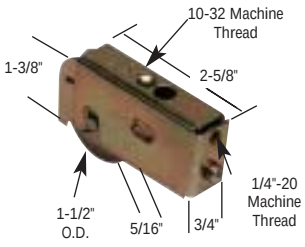
1-1/8" or 1-1/4" dia. steel ball bearing roller; 7/8" wide adjustable steel housing assembly; designed for *Peachtree Doors*.



CAT. NO.	ROLLER	QTY./PKG.
D1611	Steel B.B. 1-1/4"	1
D1611B	Steel B.B. 1-1/4"	10
D1813	Steel B.B. 1-1/8"	1

Sliding Glass Door Roller Assembly

1-1/2" dia. roller; adjustable steel housing assembly; used by *Air Control, Howmet, Krestmark* and other glass door manufacturers.

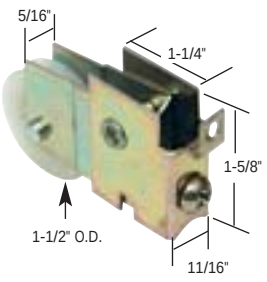


CAT. NO.	ROLLER	QTY./PKG.
D1563	Steel B.B.	1
D1563B	Steel B.B.	10
D1786	Nylon B.B.	1
D1806	All Stainless	1

All packages of Replacement Hardware can be combined for quantity pricing.

Sliding Glass Door Roller Assembly

1-1/2" dia. ball bearing roller; adjustable steel housing assembly; used by *Starlite, Doormaster* and other glass door manufacturers.



CAT. NO.	ROLLER	QTY./PKG.
D1511	Nylon B.B.	1
D1772	Steel B.B.	1

New Products and Expanded Selection

Sliding Glass Door Bumper

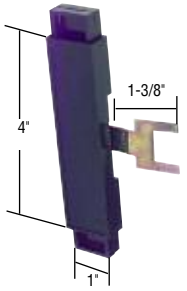
Molded rubber stop designed to prevent door from slamming into jamb in open position. Attachs to jamb with a center mounting screw.

CAT. NO.	LENGTH	FINISH	QTY./PKG.
D1568	1-13/16"	Black	2
D1569	2-5/8"	Black	2
D1801	1-13/16"	White	2
D1802	2-5/8"	White	2

Glass Door Handle Latch Actuator

Door handle latch actuator; fits C1028 Handle sets; used by *Guaranteed Products*.

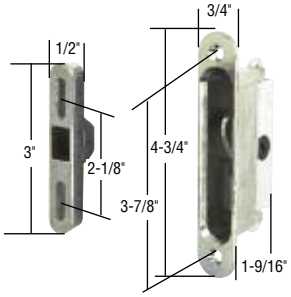
CAT. NO.	FINISH	QTY./PKG.
E2127	Black	1



Steel Mortise Assembly with Keeper

Mortise is recessed to engage the keeper so that the door closes flush against the jamb. Used on *Traco* and other patio doors.

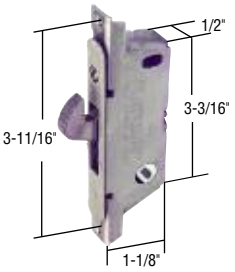
CAT. NO.	BACK SET	QTY./PKG.
E2126	1-1/4"	1



Self Latching Mortise Latch

Round face; keyway in 45° position; spring loaded latch hook keeps latch in locked position; Used by *Adams Rite* and others.

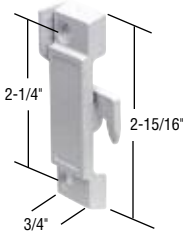
CAT. NO.	QTY./PKG.
E2119	1



Window Lock and Handle

Die-cast handle used on sliding windows by *Guaranteed Products* and others; latch does not use a keeper; latch engages the fixed rail to lock window.

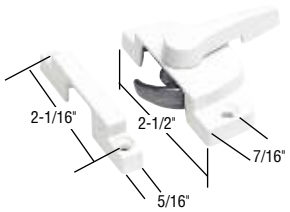
CAT. NO.	FINISH	QTY./PKG.
F2512	Black	1
F2594	White	1



Window Sash Lock

Die-cast construction; baked on white finish; cam type action; used on aluminum and vinyl windows.

CAT. NO.	FINISH	QTY./PKG.
F2588	White	1

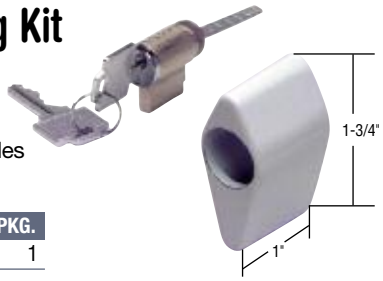


All packages of Replacement Hardware can be combined for quantity pricing.

Key Cylinder Housing Kit

Used with C1177 Handle; housing mounts to extension handle for key cylinder; kit includes key cylinder and two keys.

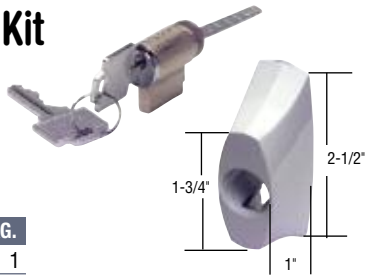
CAT. NO.	FINISH	QTY./PKG.
E2144	White	1



Key Cylinder Housing Kit

Used with C1176 and C1178 Handles; housing mounts to exterior handle for key cylinder; kit includes key cylinder and two keys.

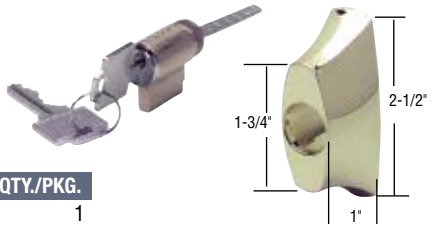
CAT. NO.	FINISH	QTY./PKG.
E2145	White	1



Key Cylinder Housing Kit

Used with C1174 Handle; die-cast housing mounts to exterior handle for key cylinder; kit includes key cylinder and two keys.

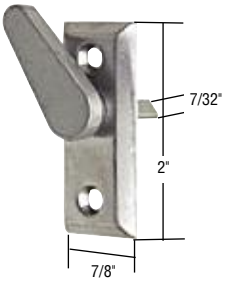
CAT. NO.	FINISH	QTY./PKG.
E2146	Brass Plate	1



Thumbturn

Die-cast with steel pin and aluminum plate; spindle is 1" long; used by *Hollyview* and others.

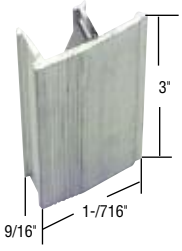
CAT. NO.	FINISH	QTY./PKG.
E2034	Aluminum	1



Sliding Window Latch

Extruded aluminum latch designed for *International 1400 Series* windows.

CAT. NO.	FINISH	QTY./PKG.
F2521	Mill	1
F2522	Bronze	1



Window Sash Lock

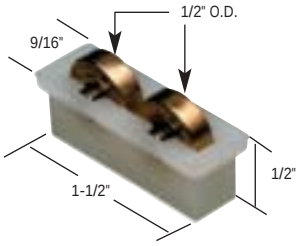
Plastic sash lock for both horizontal and vertical sliding windows in camper shells and RV's.

CAT. NO.	FINISH	QTY./PKG.
F2585	Black	2
F2585B	Black	10

New Products and Expanded Selection

Window Roller

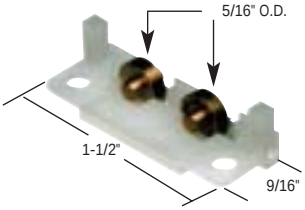
Nylon housing with 1/2" dia. flat edge brass rollers; used by many window manufacturers.



CAT. NO.	ROLLER	QTY./PKG.
G3119	Brass	2

Window Roller

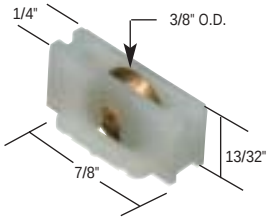
Nylon housing with 5/16" dia. flat edge brass rollers; used by *Elco/Century* windows.



CAT. NO.	ROLLER	QTY./PKG.
G3118	Brass	2

Window Roller

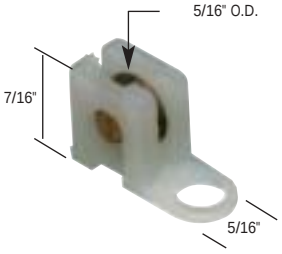
Nylon housing with 3/8" dia. flat brass roller; used by *Elco, Better-Bilt Aluminum* and others.



CAT. NO.	ROLLER	QTY./PKG.
G3122	Brass	2

Window Roller

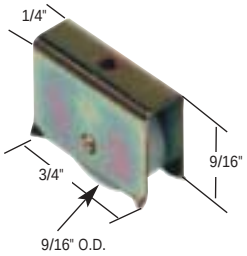
Nylon housing with 5/16" dia. flat edge brass roller; used by *Better-Bilt Aluminum*.



CAT. NO.	ROLLER	QTY./PKG.
G3121	Brass	2

Window Roller

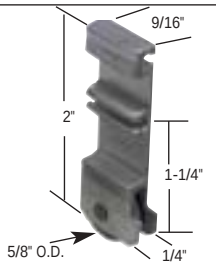
Stamped steel housing with 9/16" dia. flat nylon roller; used on windows and showcase doors.



CAT. NO.	ROLLER	QTY./PKG.
G3125	Nylon	2

Window Roller

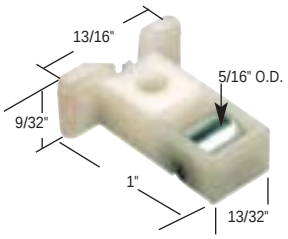
Extruded aluminum bracket; 5/8" dia. flat steel roller; extra screw race groove in bracket; used by *International* windows.



CAT. NO.	ROLLER	QTY./PKG.
G3124	Steel	2

Window Roller

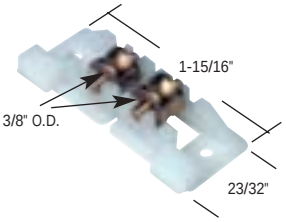
Nylon housing with 5/16" dia. flat steel roller. Original window did not use a roller, instead there was a glide the window would slide on; roller is interchangeable with glide.



CAT. NO.	ROLLER	QTY./PKG.
G3126	Steel	2

Window Roller

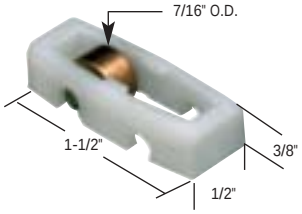
Nylon housing with two brass 3/8" dia. concave rollers; tandem style roller is designed for heavy dual glazed windows; housing may also be separated into two rollers for lightweight windows.



CAT. NO.	ROLLER	QTY./PKG.
G3131	Brass	2

Window Roller

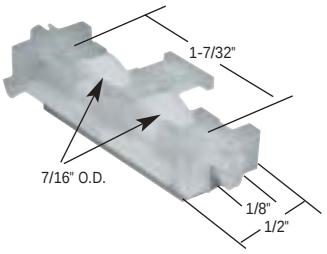
Nylon housing with 7/16" dia. flat brass roller; used on several series of *Capitol* windows. Housing has two axle slots at different depths; sash height can be adjusted by changing slots.



CAT. NO.	ROLLER	QTY./PKG.
G3127	Brass	2

Window Roller

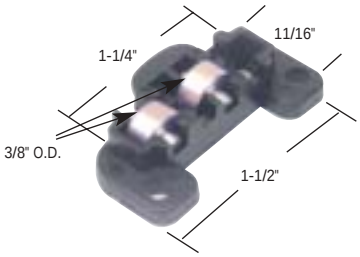
Nylon housing with tandem 7/16" dia. flat edge roller; used on *Milgard* windows.



CAT. NO.	ROLLER	QTY./PKG.
G3146	Nylon	2

Window Roller

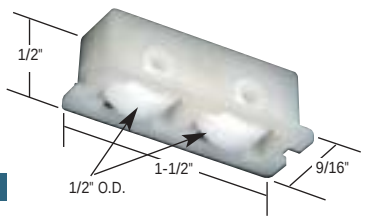
Nylon housing with two 3/8" dia. flat brass rollers which can be re-positioned within the housing.



CAT. NO.	ROLLER	QTY./PKG.
G3132	Brass	2

Window Roller

Nylon housing with tandem 1/2" dia. flat edge nylon rollers.



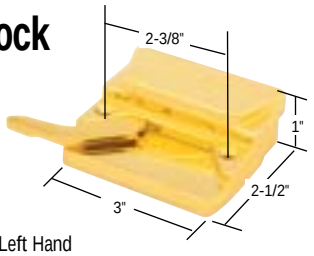
CAT. NO.	ROLLER	QTY./PKG.
G3134	Nylon	2

All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

CRL Sash Lock

Handed Sash Lock and Keeper. Available in four finishes. One per package.



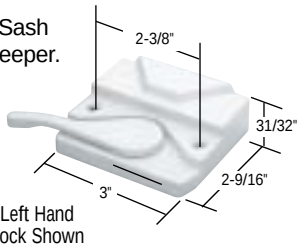
Left Hand Lock Shown

LEFT HAND CAT. NO.	RIGHT HAND CAT. NO.	FINISH
EP23044	EP23048	Bronze
EP23045	EP23049	Coppertone
EP23046	EP23050	Bright Brass
EP23047	EP23051	White

Left or right hand is determined by the side the hinge is on, when viewed from the inside.

CRL Sash Lock

Handed Sash Lock and Keeper. Available in four finishes. One per package.

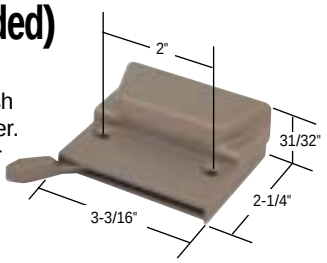


Left Hand Lock Shown

CAT. NO.	HANDING	FINISH
EP23095	Left	Bronze
EP23096	Right	Bronze
EP23098	Left	White
EP23099	Right	White

CRL Low Profile Sash Lock (Non-Handed)

Non-handed Low Profile Sash Lock and Keeper. Available in four finishes. One per package.

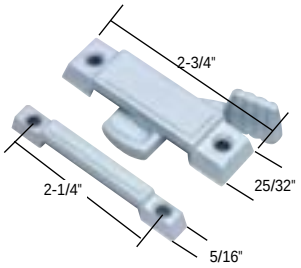


CAT. NO.	FINISH
EP23053	Bronze
EP23054	Coppertone
EP23055	Bright Brass
EP23056	White

Window Sash Lock

Die-cast latch and keeper used on aluminum, vinyl or wood vertical hung and sliding windows; cam action draws latch in tight to keeper when locked.

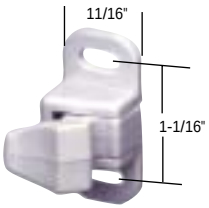
CAT. NO.	FINISH	QTY./PKG.
F2531	Chrome	1
F2531B	Chrome	20
F2532	Black	1
F2532B	Black	20
F2533	White	1
F2533B	White	20
F2648	Brass	1



Window Sash Lock

White injected plastic spring loaded latch assembly used for horizontal sliding windows; screws included.

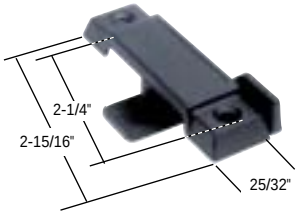
CAT. NO.	FINISH	QTY./PKG.
F2602	White	1



Window Sash Lock

Die-cast construction with 5/16" deep offset latch; used on *Krestmark* single hung aluminum windows and others.

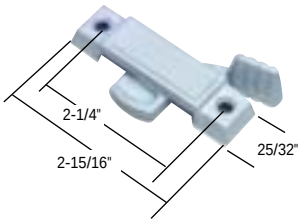
CAT. NO.	FINISH	QTY./PKG.
F2595	Black	1



Window Sash Lock- 5/8" Tongue

Die-cast construction; tongue projects 5/8" from front edge of housing; catch does not use a separate keeper; latch engages the fixed rail to lock the window; used by many manufacturers on both sliding and vertical hung windows.

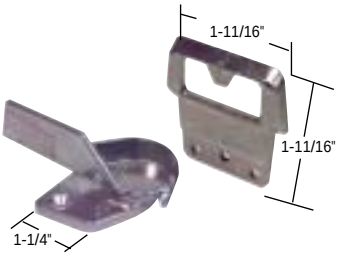
CAT. NO.	FINISH	QTY./PKG.
F2591	Black	1
F2592	White	1



Cam-Type Sash Lock

Zinc die-cast sash lock and keeper; used by *Season-All* windows.

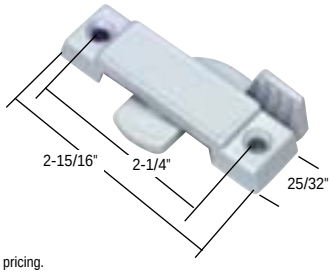
CAT. NO.	FINISH	QTY./PKG.
F2609	Zinc	1



Window Sash Lock- 3/8" Tongue

Die-cast construction; tongue projects 3/8" from front edge of housing; catch does not use a separate keeper; latch engages the fixed rail to lock the window; used by many manufacturers on both sliding and vertical hung windows.

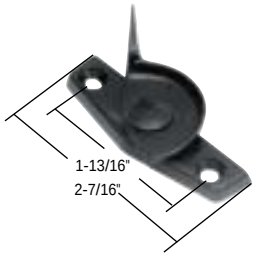
CAT. NO.	FINISH	QTY./PKG.
F2589	Black	1
F2589B	Black	20
F2590	White	1
F2590B	White	20
F2596	Bronze	1
F2596B	Bronze	20
F2659	Gray	1



Window Latch

Die-cast sweep latch used on *Croft* windows; latch does not use a separate keeper, but engages the fixed rail to lock window.

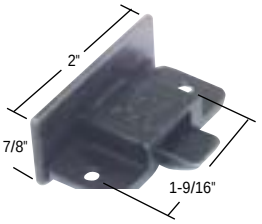
CAT. NO.	FINISH	QTY./PKG.
F2593	Black	1



Window Latch

Black finish die-cast window latch; used on *Window Master Series 216* sliding windows.

CAT. NO.	FINISH	QTY./PKG.
F2611	Black	1



All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

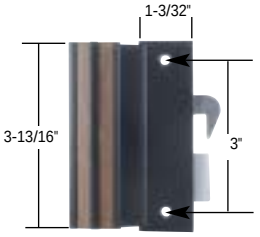
Window Sash Lock

White injected plastic latch assembly used for horizontal sliding windows; keeper and screws included.

CAT. NO.	FINISH	QTY./PKG.
F2606	White	1

Window Latch and Pull

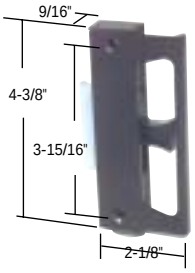
Used by many window manufacturers on commercial high rise and hotel window applications; does not require an outside pull; 3" hole centers.



CAT. NO.	FINISH	QTY./PKG.
F2641	Black	1

Window Pull and Latch

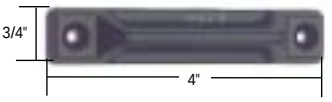
Black finish, extruded aluminum pull with plastic base and steel clam latch; used in a variety of windows and storm doors; 3-15/16" hole centers.



CAT. NO.	FINISH	QTY./PKG.
F2610	Black	1

Window Sash Lift Handle

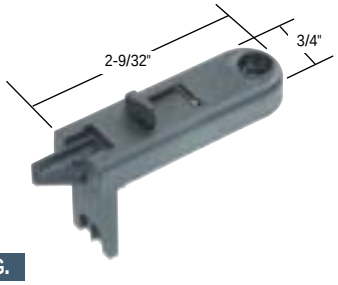
Die-cast sash lift used by several manufacturers of wood and vinyl windows.



CAT. NO.	FINISH	QTY./PKG.
F2630	White	2
F2631	Black	2

Tilt Window Latch

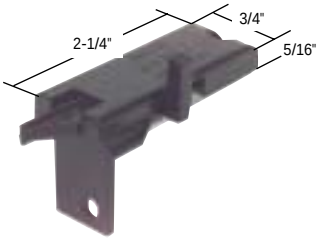
Black nylon, spring loaded latch for tilt windows; one left and one right per package. Used by *Keller* windows.



CAT. NO.	FINISH	QTY./PKG.
F2660	Black	2

Tilt Window Latch

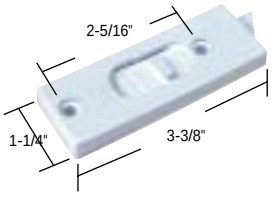
Spring loaded nylon latch for tilt windows; one left and one right per package. Used by *Better-Bilt* windows.



CAT. NO.	FINISH	QTY./PKG.
F2628	Black	2
F2642	White	2

Tilt Window Latch

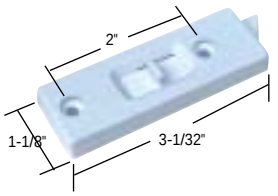
White nylon, spring loaded latch for tilt windows; one left and one right per package.



CAT. NO.	FINISH	QTY./PKG.
F2599	White	2

Tilt Window Latch

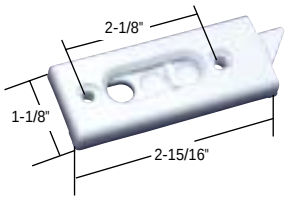
White nylon, spring loaded latch for tilt windows; one left and one right per package.



CAT. NO.	FINISH	QTY./PKG.
F2598	White	2

Tilt Window Latch

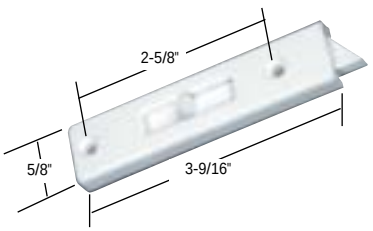
White nylon, spring loaded latch for tilt windows; one left and one right per package.



CAT. NO.	FINISH	QTY./PKG.
F2627	White	2

Tilt Window Latch

White nylon, spring loaded latch for tilt windows; one left and one right per package.



CAT. NO.	FINISH	QTY./PKG.
F2671	White	2

All packages of Replacement Hardware can be combined for quantity pricing.

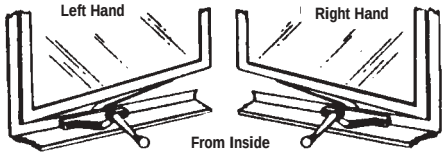
New Products and Expanded Selection

9" Casement Window Operators

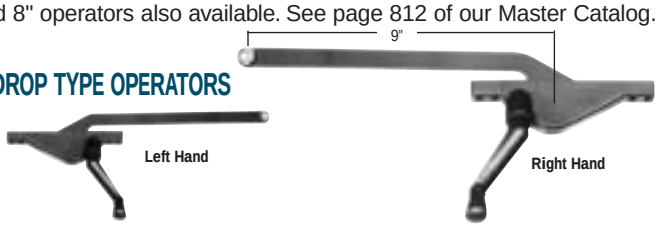
- Our Most Popular Casement Operators
- Available in Three Finishes

Fine quality metal Casement Operators to replace most obsolete models. They offer smooth movement and durable construction for years of trouble free use. 5/8" spline size; mounting screws included.
7" and 8" operators also available. See page 812 of our Master Catalog.

- How to Determine Handing of Window Operators

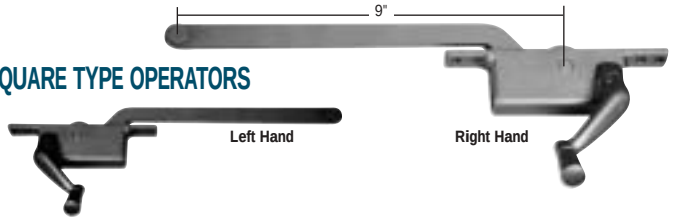


TEARDROP TYPE OPERATORS



CAT. NO.	FINISH	DESCRIPTION	QTY./PKG.
5009LHAL	Aluminum	Left Hand Operator	1
5009RHAL	Aluminum	Right Hand Operator	1
5009LHBRZ	Bronze	Left Hand Operator	1
5009RHBRZ	Bronze	Right Hand Operator	1
H3708	White	Left Hand Operator	1
H3709	White	Right Hand Operator	1

SQUARE TYPE OPERATORS

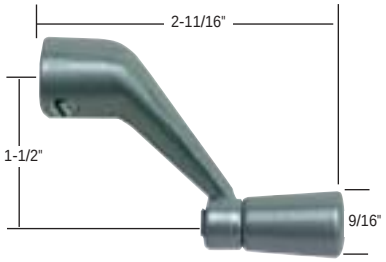


CAT. NO.	FINISH	DESCRIPTION	QTY./PKG.
5259LHAL	Aluminum	Left Hand Operator	1
5259RHAL	Aluminum	Right Hand Operator	1
5259LHBRZ	Bronze	Left Hand Operator	1
5259RHBRZ	Bronze	Right Hand Operator	1
H3710	White	Left Hand Operator	1
H3711	White	Right Hand Operator	1

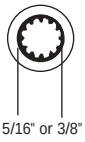
Window Crank Handles

- Aluminum, Bronze and White Finishes

Replacement Crank Handles for casement operators; aluminum, bronze and white finishes; 5/16" or 3/8" spline size fits most types of casement operators.



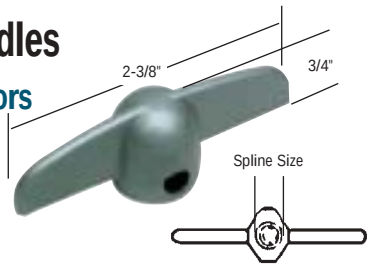
CAT. NO.	FINISH	SPLINE SIZE	QTY./PKG.
H3531	Aluminum	5/16"	1
H3532	Bronze	5/16"	1
H3712	White	5/16"	1
H3533	Aluminum	3/8"	1
H3534	Bronze	3/8"	1
H3713	White	3/8"	1



T-Crank Window Handles

- Variety of Sizes and Colors

Die-cast T-Crank Window Handles come in a variety of sizes and finishes. See chart below for descriptions and sizes.



CAT. NO.	FINISH	SPLINE SIZE	QTY./PKG.
H3536#	Aluminum	5/16"	2
H3624#	Bronze	5/16"	2
H3714#	White	5/16"	2
H3537#	Aluminum	3/8"	2
H3625#	Bronze	3/8"	2
H3715#	White	3/8"	2
H3808#	Star Brown	3/8"	2
H3812*	Driftwood	9/32"	2
H3801❖	Coppertone	11/32"	2
H3802❖	Bronze	11/32"	2
H3803❖	Star Brown	11/32"	2
H3804❖	White	11/32"	2
H3805❖	Chestnut Bronze	11/32"	2
H3806❖	Light Brass	11/32"	2

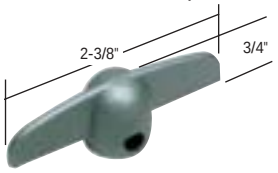
#Universal Design *Used by Peachtree Windows ❖Used by Truth Windows

Universal T-Crank Window Handles

- Eliminates Window Blind Interference

Using one of the adaptors supplied, the Universal T-Crank Handle can be adapted to any one of five different casement operator spindle sizes: 9/32", 5/16", 11/32", 3/8" and a special 3/8" deep for *Pella* windows. T- Crank Handles are perfect for eliminating interference between standard handles and window blinds. Each package comes with two handles and 10 adaptors.

CAT. NO.	FINISH	QTY./PKG.
H3885	Aluminum	2
H3892	White	2
H3893	Bronze	2
H3894	Star Brown	2
H3895	Driftwood	2
H3896	Champagne	2

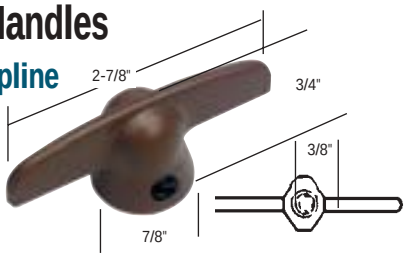


Adaptors for five spindle sizes

T-Crank Window Handles

- Special 3/8" Deep Spline

Zinc die-cast handle with special 3/8" deep spline; designed for *Pella* window operators.



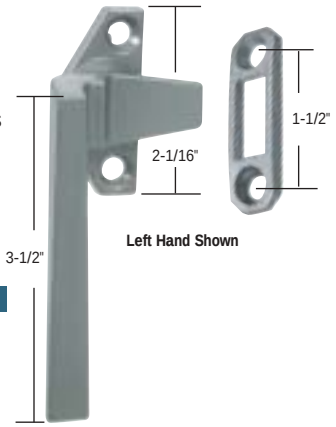
CAT. NO.	FINISH	QTY./PKG.
H3813	Copper	2
H3814	White	2

All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

"Trimline" Cam Handle Lock

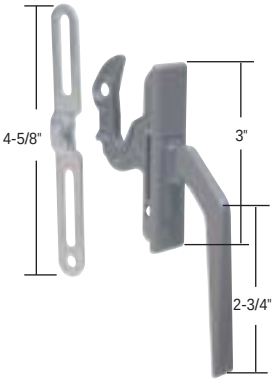
Trimline Cam Handle Lock contains two different height (.218" and .344") nylon strike inserts to accommodate various mounting applications. Package contents: 1 locking handle; 1 strike housing; 2 strike inserts.



CAT. NO.	FINISH	HANDED
EP23057	Bronze	Left
EP23058	Bronze	Right
EP23059	White	Left
EP23060	White	Right

Casement Window Locking Handle

Casement Window Locking Handle may be used as a locking handle for tie bar applications. One handle and one keeper per package. 2" hole centers.



CAT. NO	FINISH	QTY./PKG.
EP23093	Bronze	1
EP23094	White	1

Casement Window Locking Handles

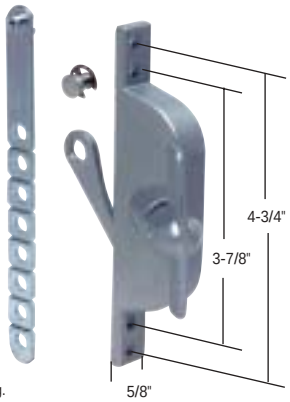
• Straight Handle Design

Universal Casement Window Locking Handles for steel or aluminum casement windows; mounting screws included.

CAT. NO.	FINISH	QTY./PKG.
H3539	Aluminum	1
H3540	Bronze	1
H3716	White	1

Universal Louver Window Operator

Designed to replace almost all louver operators in use; reversible; non-handed; universal break-off link has 1/2" hole spacings up to 5-5/16".



CAT. NO.	FINISH	QTY./PKG.
H3546	Aluminum	1
H3547	Bronze	1
H3818	White	1

All packages of Replacement Hardware can be combined for quantity pricing.

Adjustable Wood Window Sash Balance

A great way to replace broken sash balances on wood windows. Simply make a cut-out into your frame, position the Adjustable Sash Balance, connect the glides, adjust the tension and the job is done. Adjustable Sash Balances have all steel construction with aircraft cable lifters. **Note:** Before ordering make sure you have the correct weight of the sash. Order a balance that has ample capacity for your sash, and never use a balance on sash heavier than listed on the Table of Capacities shown below.

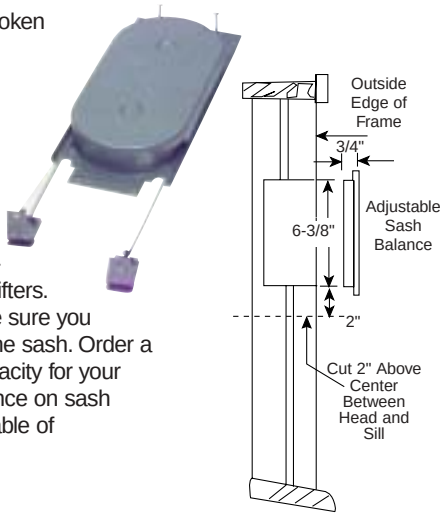


TABLE OF CAPACITIES

Single Installation (One Side Only)

WEIGHT OF SASH	MAX. WIDTH OF SASH	MAX. HEIGHT EACH SASH	QUANTITY AND SIZE REQUIRED
4-8 Lbs.	36"	40"	1 Each H3867 Balance
8-12 Lbs.	36"	40"	1 Each H3868 Balance
12-18 Lbs.	36"	40"	1 Each H3869 Balance
18-24 Lbs.	36"	40"	1 Each H3870 Balance

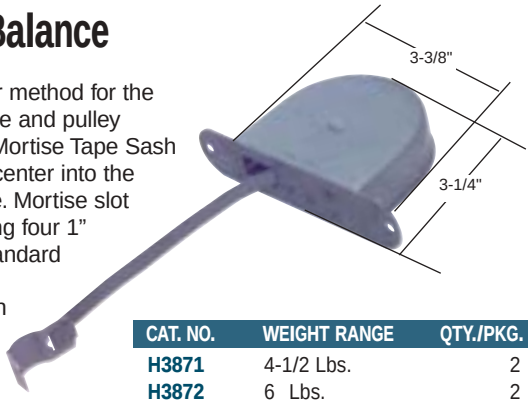
Double Installation (Both Sides)

WEIGHT OF SASH	MAX. WIDTH OF SASH	MAX. HEIGHT EACH SASH	QUANTITY AND SIZE REQUIRED
8-16 Lbs.	No Limit	40"	2 Each H3867 Balances
16-24 Lbs.	No Limit	40"	2 Each H3868 Balances
24-36 Lbs.	No Limit	40"	2 Each H3869 Balances
36-48 Lbs.	No Limit	40"	2 Each H3870 Balances

CAT. NO.	BALANCE WEIGHT RANGE	QTY./PKG.
H3867	4-8 Lbs.	1
H3868	8-12 Lbs.	1
H3869	12-18 Lbs.	1
H3870	18-24 Lbs.	1

Tape Sash Balance

This is a popular method for the replacement of rope and pulley balance systems. Mortise Tape Sash Balance 2" above center into the jamb on either side. Mortise slot can be cut by boring four 1" diameter holes. Standard tape length will accommodate sash up to 40" tall. Use a single balance for sash up to 12 pounds; two balances for sash up to 24 pounds.



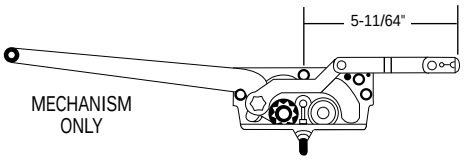
CAT. NO.	WEIGHT RANGE	QTY./PKG.
H3871	4-1/2 Lbs.	2
H3872	6 Lbs.	2
H3873	8 Lbs.	2
H3874	10 Lbs.	2
H3875	12 Lbs.	2

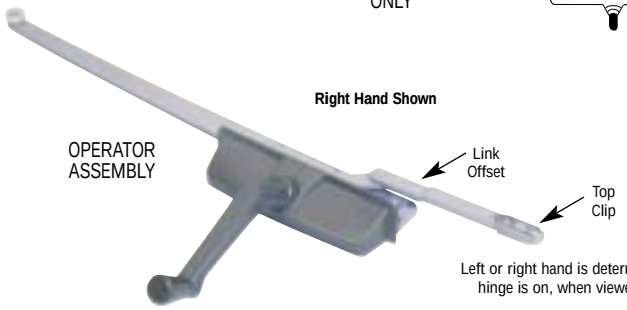
New Products and Expanded Selection

"Entrygard" Dual Arm Casement Operator

Complete Dual Arm Casement Operator assembly with mechanism, cover and handle. Available in three finishes. Mechanism only also available. One per package.

CAT. NO.	DESCRIPTION	FINISH
EP23000	Left Hand Operator	Bronze
EP23001	Left Hand Operator	Coppertone
EP23002	Left Hand Operator	White
EP23004	Right Hand Operator	Bronze
EP23005	Right Hand Operator	Coppertone
EP23006	Right Hand Operator	White
EP18702	Left Hand Mechanism Only	———
EP18703	Right Hand Mechanism Only	———



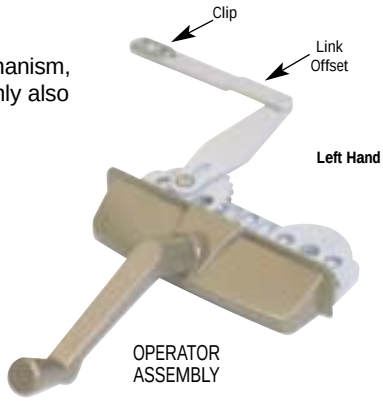


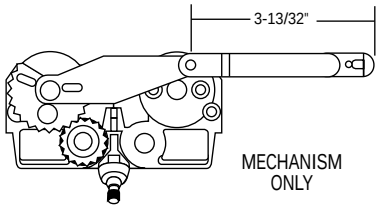
Left or right hand is determined by the side the hinge is on, when viewed from the inside.

"Entrygard" Dyad Casement Operator

Complete Dyad Casement Operator assembly with mechanism, cover and handle. Available in three finishes. Mechanism only also available. One per package.

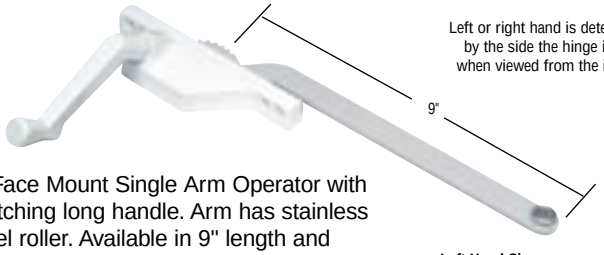
CAT. NO.	DESCRIPTION	FINISH
EP23032	Left Hand Operator	Bronze
EP23033	Left Hand Operator	Coppertone
EP23034	Left Hand Operator	White
EP23036	Right Hand Operator	Bronze
EP23037	Right Hand Operator	Coppertone
EP23038	Right Hand Operator	White
EP18708	Left Hand Mechanism Only	———
EP18709	Right Hand Mechanism Only	———





Left or right hand is determined by the side the hinge is on, when viewed from the inside.

Face Mount Single Arm Operator



Left or right hand is determined by the side the hinge is on, when viewed from the inside.

Face Mount Single Arm Operator with matching long handle. Arm has stainless steel roller. Available in 9" length and three finishes. One per package.

Left Hand Shown

LEFT HAND OPERATORS

CAT. NO.	FINISH
EP23014	Bronze
EP23015	Coppertone
EP23016	White

RIGHT HAND OPERATORS

CAT. NO.	FINISH
EP23017	Bronze
EP23018	Coppertone
EP23019	White

Dyad Casement Operator

Complete Dyad Operator assembly with mechanism, cover and handle. Available in two finishes. One operator and one stud bracket per package.

Left Hand Shown

CAT. NO.	DESCRIPTION	FINISH
EP23089	Left Hand Operator	Bronze
EP23091	Left Hand Operator	White
EP23090	Right Hand Operator	Bronze
EP23092	Right Hand Operator	White

Left or right hand is determined by the side the hinge is on, when viewed from the inside.

Awning Window Operator

Die-cast housing with 2-3/4" link arm with 3/8" offset; 3/8" hole at link end; fits *Anderson* windows.

CAT. NO.	HAND	FINISH	QTY./PKG.
H3839	Left	Gray	1
H3840	Right	Gray	1

All packages of Replacement Hardware can be combined for quantity pricing.

Jalousie Window Operator

Standard operator body with 3-5/8" offset link arm; center position "T" handle; threaded stud at link end; fits *Daryl* windows with offset link.

CAT. NO.	FINISH	QTY./PKG.
H3932	Gray	1
H3933	Bronze	1
H3938	White	1

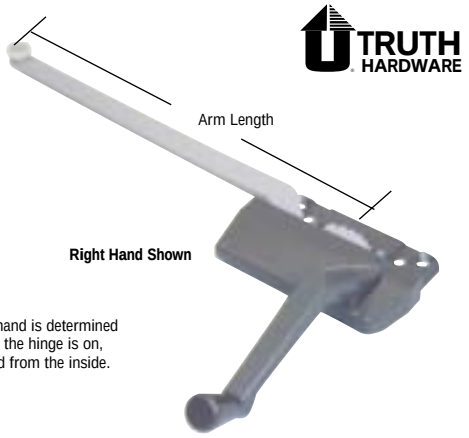
New Products and Expanded Selection

Surface Mount Single Arm Operator

Surface Mount Single Arm Operator with matching long handle. Arm has nylon roller. Available in two lengths and three finishes. One per package.

9-1/2" ARM CAT. NO.	HAND	FINISH
EP23020	Left	Bronze
EP23021	Left	Coppertone
EP23022	Left	White
EP23023	Right	Bronze
EP23024	Right	Coppertone
EP23025	Right	White

13-1/2" ARM CAT. NO.	HAND	FINISH
EP23026	Left	Bronze
EP23027	Left	Coppertone
EP23028	Left	White
EP23029	Right	Bronze
EP23030	Right	Coppertone
EP23031	Right	White

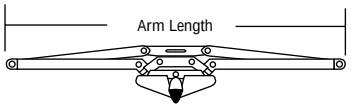


Left or right hand is determined by the side the hinge is on, when viewed from the inside.

Roto Gear Awning Window Operator

Awning Window Operator with matching long handle. Available in two lengths and three finishes. One per package.

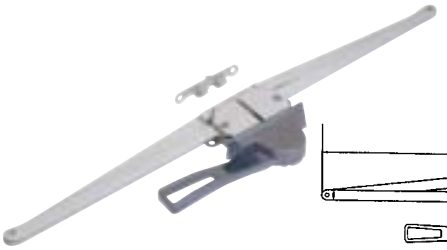
CAT. NO.	LENGTH	FINISH
EP23008	21-1/2"	Bronze
EP23009	21-1/2"	Coppertone
EP23010	21-1/2"	White
EP23011	16-1/8"	Bronze
EP23012	16-1/8"	Coppertone
EP23013	16-1/8"	White

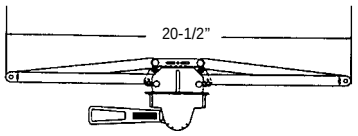


Single Pull Lever Operator

Awning Window Operator eliminates the need for a crank handle. Simply move the lever to the right to open, to the left to close. Available in two finishes. One operator and hook per package.

CAT. NO.	LENGTH	FINISH
EP23070	20-1/2"	Bronze
EP23072	20-1/2"	Gold

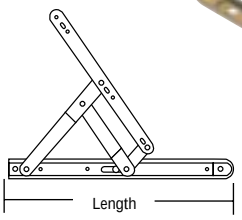


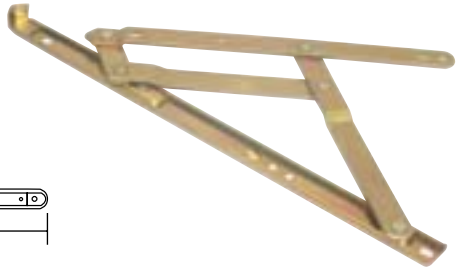


4-Bar Hinge

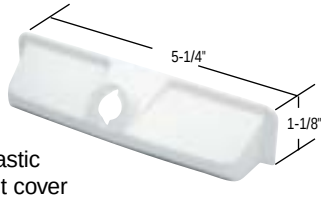
Standard duty steel 4-Bar Hinges with stops. Non-handed; may be used in horizontal and vertical installations. Zinc plated finish. Available in seven lengths. One per package.

CAT. NO.	LENGTH	FINISH
EP21080	8"	Zinc
EP21083	10"	Zinc
EP21090	12"	Zinc
EP21094	14"	Zinc
EP21099	16"	Zinc
EP21101	18"	Zinc
EP21105	20"	Zinc





"Entrygard" Plastic Operator Cover

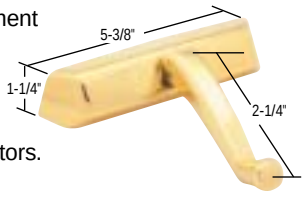


A.B.S. plastic replacement cover for Entrygard Dual Arm and Dyad Casement Operators. One per package.

CAT. NO.	FINISH
EP21928	Bronze
EP21931	Coppertone
EP21937	White
EP21986	Bright Brass

"Entrygard" Metal Cover with Folding Handle

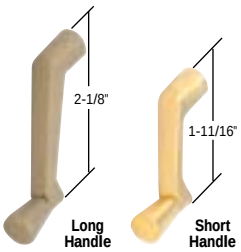
Metal replacement cover with folding handle for Entrygard Dual Arm and Dyad Casement Operators. Allows low profile installation. One per package.



CAT. NO.	FINISH
EP23040	Bronze
EP23041	Coppertone
EP23043	White
EP23042	Bright Brass

Operator Crank Handles

Replacement Crank Handles in matching finishes for Truth™ Operators. 11/32" spline size. One per package.



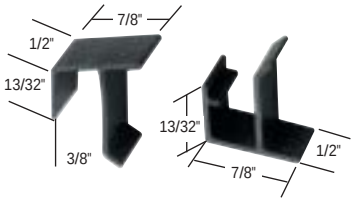
CAT. NO.	LENGTH	FINISH
EP21996	Long	Bronze
EP21998	Long	Coppertone
EP22007	Long	White
EP21896	Short	Brass

All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

Window Screen Clips

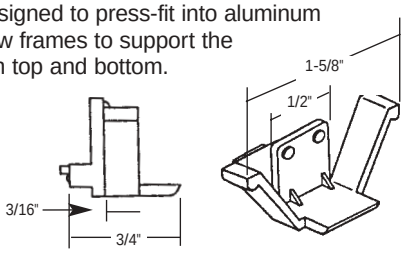
Black plastic frame clips hold aluminum screen frames onto sliding windows; used by *H & D Industries.*



CAT. NO.	QTY./PKG.
L5563	2 Pair
WSC445	100 Pair

Window Screen Retainer Clips

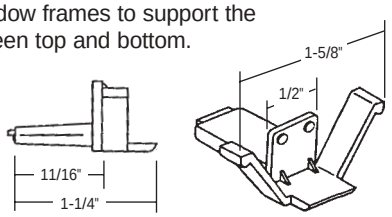
Clear polycarbonate plastic; designed to press-fit into aluminum window frames to support the screen top and bottom.



CAT. NO.	QTY./PKG.
L5623	4

Window Screen Retainer Clips

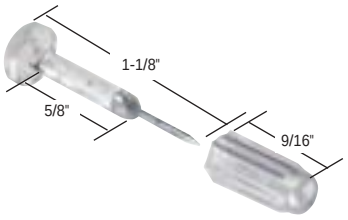
Clear polycarbonate plastic; designed to press-fit into aluminum window frames to support the screen top and bottom.



CAT. NO.	QTY./PKG.
L5625	4

Window Grid Retainers

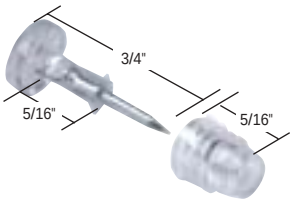
Clear polycarbonate plunger and retainer sleeve with steel pin; used as a grid retainer for colonial style wood window grids.



CAT. NO.	QTY./PKG.
L5649B	100

Window Grid Retainers

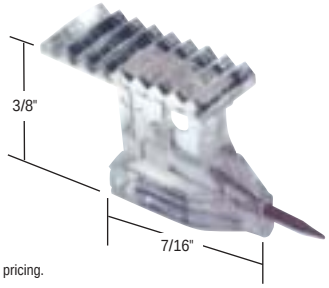
Clear polycarbonate plunger and retainer sleeve with steel pin; used as a grid retainer for colonial style wood window grids.



CAT. NO.	QTY./PKG.
L5651B	100

Window Grid Retainers

Clear polycarbonate with steel pin; used as a grid retainer for colonial style wood window grids.

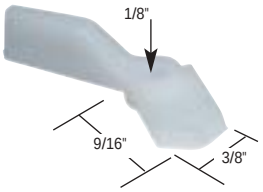


CAT. NO.	QTY./PKG.
L5644B	100

All packages of Replacement Hardware can be combined for quantity pricing.

Window Screen Clips

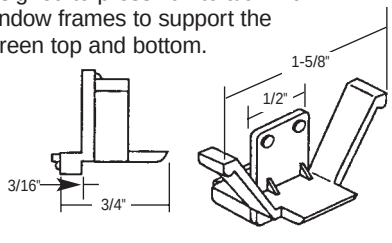
White plastic clips for holding screens onto window frame; clips can be attached to screen frame with either pop rivets or screws.



CAT. NO.	QTY./PKG.
L5617	12

Window Screen Retainer Clips

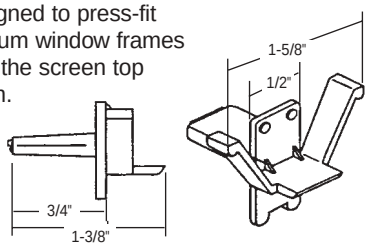
Clear polycarbonate plastic; designed to press-fit into aluminum window frames to support the screen top and bottom.



CAT. NO.	QTY./PKG.
L5624	4

Window Screen Retainer Clips

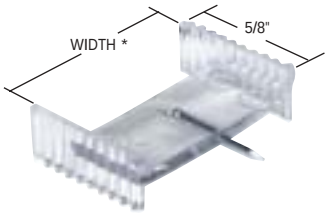
Clear polycarbonate plastic; designed to press-fit into aluminum window frames to support the screen top and bottom.



CAT. NO.	QTY./PKG.
L5626	4

Window Grid Retainers

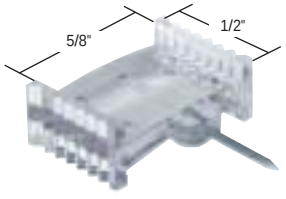
Clear polycarbonate retainer with steel pin; available in four widths; used as a grid retainer for colonial style wood window grids.



CAT. NO.	WIDTH (*)	QTY./PKG.
L5648B	1/2"	100
L5647B	5/8"	100
L5646B	7/8"	100
L5652B	1"	100

Window Grid Retainers

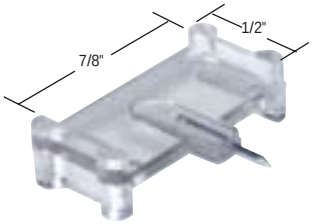
Clear polycarbonate retainer with steel pin; used as a grid retainer for colonial style wood window grids.



CAT. NO.	QTY./PKG.
L5645B	100

Window Grid Retainers

Clear polycarbonate retainer with steel pin; used as a grid retainer for colonial style wood window grids.

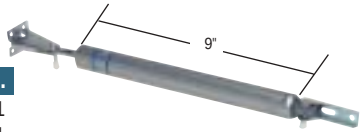


CAT. NO.	QTY./PKG.
L5653B	100

New Products and Expanded Selection

Screen and Storm Door Closer

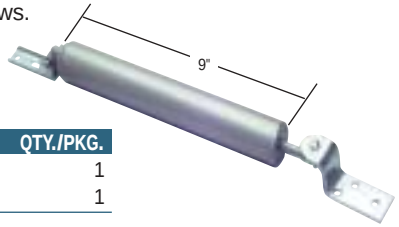
Designed for medium weight screen and storm doors; internally lubricated; adjustable closing power and "fast latch"; 1-1/4" diameter barrel; supplied with mounting screws.



CAT. NO.	FINISH	QTY./PKG.
K5027	Aluminum	1
K5028	Black	1
K5118	White	1

Swinging Screen Door Closer

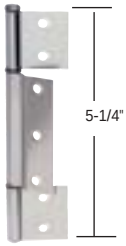
Designed for lightweight "West Coast" screen doors; 1-1/4" diameter barrel; not recommended for storm doors; supplied with mounting screws.



CAT. NO.	FINISH	QTY./PKG.
K5103	Aluminum	1
K5104	Black	1

Storm Door Hinge

Extruded aluminum hinge assembly with offset center leaf for the edge of many popular storm doors; supplied with mounting screws.

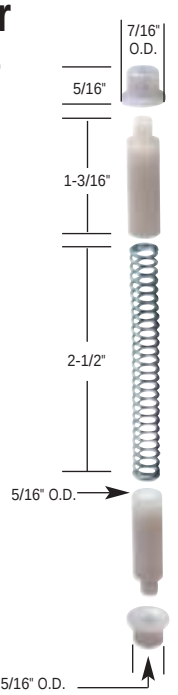


CAT. NO.	FINISH	QTY./PKG.
K5093	Aluminum	1

Storm Door Hinge Pins

Nylon Hinge Pins with bushing caps and steel springs; used to repair storm door hinges.

CONTENTS:
6 Pins,
6 Bushings,
3 Springs.



CAT. NO.	QTY./PKG.
K5131	6

Storm Door Hinge Pins

Black nylon Hinge Pin for storm doors; this style is used only on the type of leaf hinge shown, and does not require a spring.

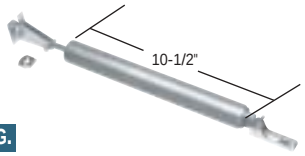
CONTENTS:
6 Pins, Enough for Three Hinges. Hinge Not Supplied.

CAT. NO.	QTY./PKG.
K5132	6

All packages of Replacement Hardware can be combined for quantity pricing.

Pneumatic Door Closer

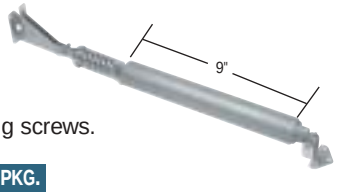
Standard duty screen or storm door closer; adjustable closing speed; 1-1/4" diameter barrel; used on medium weight doors; supplied with mounting screws.



CAT. NO.	FINISH	QTY./PKG.
K5067	Aluminum	1
K5073	Black	1
K5119	White	1

Storm Door Closer

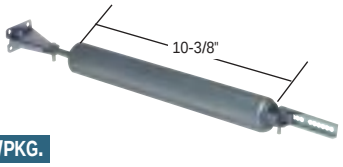
Heavy duty storm door closer; adjustable closing speed; 1-1/4" diameter barrel; used on medium weight doors; supplied with mounting screws.



CAT. NO.	FINISH	QTY./PKG.
K5074	Aluminum	1
K5076	Black	1

Heavy Duty Storm Door Closer

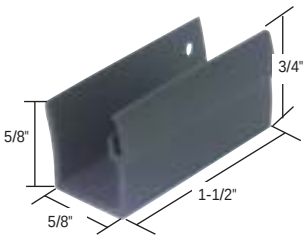
Heavy duty closer for heavy storm doors; 1-1/2" diameter barrel; allows swing open to 120°; adjustable closing speed; supplied with mounting screws.



CAT. NO.	FINISH	QTY./PKG.
K5108	Aluminum	1
K5109	Black	1
K5120	White	1

Window Screen Clips

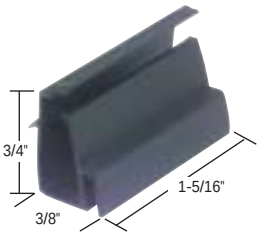
Extruded black vinyl clips to hold aluminum window screens.



CAT. NO.	COLOR	QTY./PKG.
L5642	Black	6

Window Screen Clips

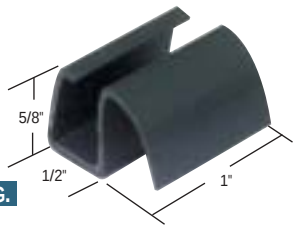
Extruded black vinyl clips to hold aluminum window screens.



CAT. NO.	COLOR	QTY./PKG.
L5643	Black	6

Window Screen Clips

Black vinyl retainer clip slips over 3/8" screen frame to hold it into aluminum window channel; used by *Tom Ray* and *T.M. Cobb.*

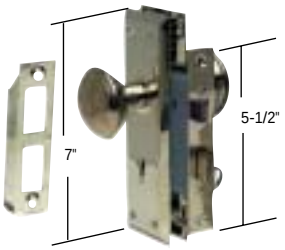


CAT. NO.	COLOR	QTY./PKG.
L5603	Black	6

New Products and Expanded Selection

Mortise Caselock Assembly

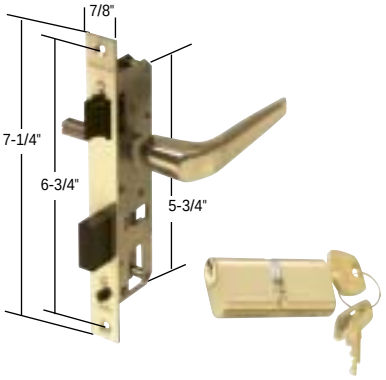
Polished brass finish; case hardened steel; lock bolt is key activated, both inside and outside; strike, screws and two keys included.



CAT. NO.	FINISH	QTY./PKG.
E2293	Polished Brass	1

Storm Door Mortise Lockset

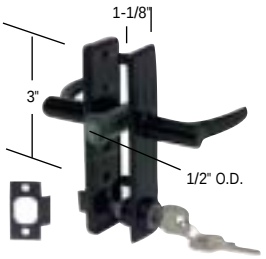
Stamped steel casing with brass face plate; brass plated die-cast lever handles; medium length spindle for 1" to 1-1/2" thick doors; 5-pin tumbler lock with two keys; screws included.



CAT. NO.	FINISH	QTY./PKG.
K5130	Brass	1

Storm and Screen Door Latch

Designed to fit most combination screen and storm doors; exterior key cylinder; reversible; accepts 7/8" to 1-1/4" door thickness; 3/4" backset; strike and two keys included.



CAT. NO.	FINISH	QTY./PKG.
K5102	Black	1

Mortise Door Lock

Solid polished brass; for wood and metal doors 7/8" to 1-3/8" thick; interior locking mechanism; round outside knob and lever action inside handle; strike and screws included.

CAT. NO.	FINISH	QTY./PKG.
K5081	Polished Brass	1

Door Chains

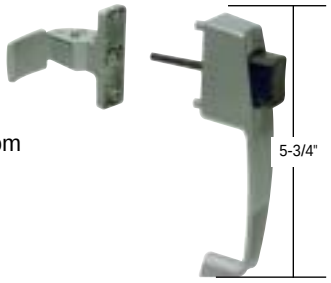
Extra heavy-duty metal chain with a vinyl cover to protect the door's surface. Designed for full size exterior doors, with rugged compression springs and steel chain, cast base plates and mounting screws.

CAT. NO.	LENGTH	QTY./PKG.
15850	30-1/2"	1
15855	25"	1

All packages of Replacement Hardware can be combined for quantity pricing.

Screen and Storm Door Push Button Latch

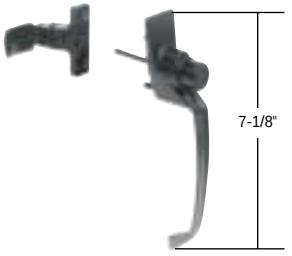
Designed for outswinging wood or metal screen and storm doors 1" to 1-1/4" thick; contemporary design with tie-down screw at bottom of handle; 1-3/4" hole centers.



CAT. NO.	FINISH	QTY./PKG.
K5070	Aluminum	1
K5071	Satin Black	1
K5116	White	1

Push Button Latch

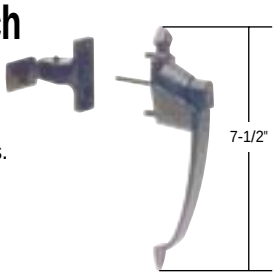
For outswinging screen and storm doors 1" to 1-1/4" thick; interior locking and no-lockout feature; 1-1/2" hole centers.



CAT. NO.	FINISH	QTY./PKG.
K5082	Black	1
K5107	Gray	1

Colonial Push Button Latch

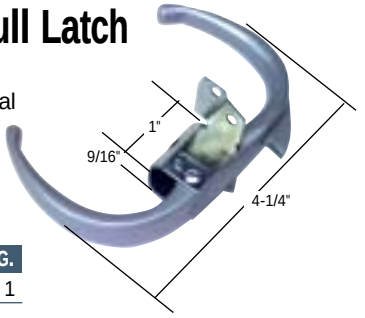
For outswinging screen and storm doors 1" to 1-1/4" thick; black hammered finish; interior locking and "no-lock-out" feature; 1-3/4" hole centers. Available with or without key lock.



CAT. NO.	FINISH	TYPE	QTY./PKG.
K5079	Black	Unkeyed	1
K5080	Black	Keyed	1

Screen Door Push-Pull Latch

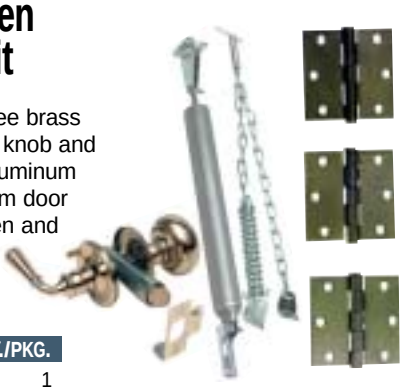
Die-cast latch for wood or metal outswinging doors from 7/8" to 1-3/8" thick; drill one 1" hole to install; no mortising required; strike and screws included.



CAT. NO.	FINISH	QTY./PKG.
K5125	Gray	1

Deluxe Wood Screen and Storm Door Kit

Solid brass door latch; three brass plated hinges; round outside knob and lever action inside handle; aluminum finish closer; zinc plated storm door chain; for use on wood screen and storm doors 7/8" to 1-3/8" thick; supplied with mounting screws.



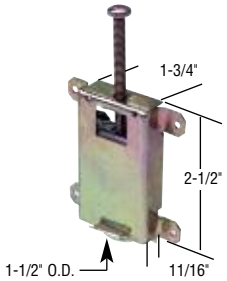
CAT. NO.	QTY./PKG.
K5083	1

New Products and Expanded Selection

Wardrobe Door Bottom Roller

Stamped steel bracket with 1-1/2" dia. nylon roller; used on *Contractors Wardrobe* mirror doors.

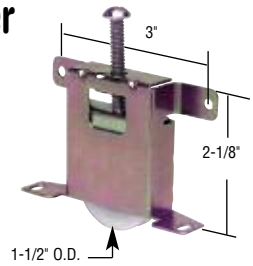
CAT. NO.	ROLLER	QTY./PKG.
N6870	1-1/2" Concave Nylon	1
N6963	1-1/2" Flat Nylon	1



Sliding Wardrobe Door Roller

Stamped steel housing with 1-1/2" dia. concave nylon ball bearing roller; used on many styles of wood framed mirror doors.

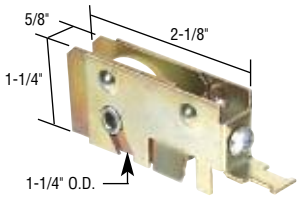
CAT. NO.	ROLLER	QTY./PKG.
N6861	Nylon B.B.	1



Mirrored Wardrobe Door Roller

1-1/4" dia. nylon ball bearing roller; adjustable steel housing assembly; used by *Bay King.*

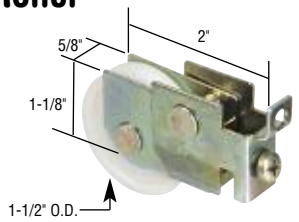
CAT. NO.	ROLLER	QTY./PKG.
N6965	Nylon	1



Mirrored Wardrobe Door Roller

1-1/2" dia. nylon ball bearing roller; adjustable steel housing assembly; used by *Charmac, King Mirror, Crest Door* and others.

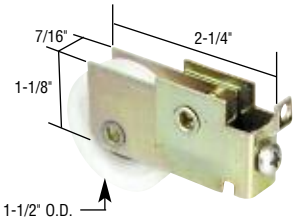
CAT. NO.	ROLLER	QTY./PKG.
N7068	Nylon	1



Mirrored Wardrobe Door Roller

1-1/2" dia. nylon ball bearing roller; adjustable steel housing assembly; narrow mounting tab; used by several wardrobe door manufacturers.

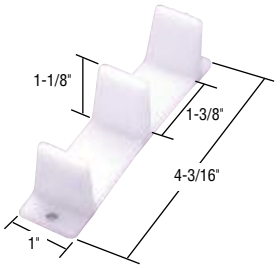
CAT. NO.	ROLLER	QTY./PKG.
N7125	Nylon	1



Wardrobe Door Guide

Nylon bottom mount, for 1-3/8" thick bypassing doors; universal design.

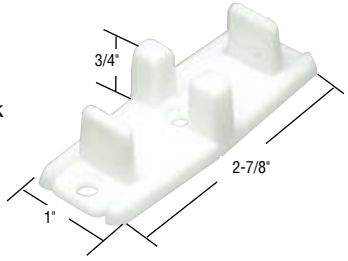
CAT. NO.	COLOR	QTY./PKG.
N6563	White	2



Wardrobe Door Guide

Nylon retainer; adjustable, bottom mount bracket; fits 3/4" to 1-3/8" thick bypassing doors; used by many manufacturers.

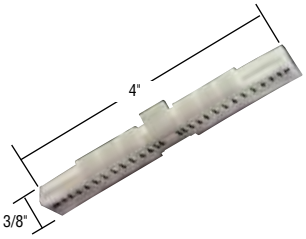
CAT. NO.	COLOR	QTY./PKG.
N6562	White	2



Wardrobe Door Guide

Top mount; two-way spring snugger; fits 1" to 1-3/8" bi-fold doors up to 30 lbs. each; cushions doors when opening or closing; fits *Acme*.

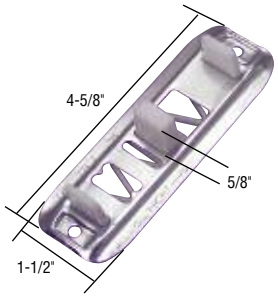
CAT. NO.	QTY./PKG.
N6539	2



Wardrobe Door Guide

Steel base with nylon tips, adjustable bottom mount bracket; fits 3/4" to 1-3/8" thick bypassing doors; fits *Acme* and others.

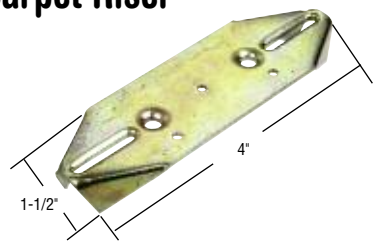
CAT. NO.	QTY./PKG.
N6560	2



Wardrobe Door Guide Carpet Riser

Plated steel riser used for mounting wardrobe door guide over carpeted floors; 5/8" high rise.

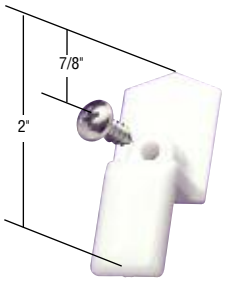
CAT. NO.	QTY./PKG.
N6561	1



Wardrobe Door Guide

Side mount, nylon guide; replaces old metal guides.

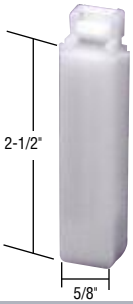
CAT. NO.	QTY./PKG.
N6558	2



Wardrobe Door Guide

Bottom mount nylon guide for steel bypassing doors; repair part for Cat. No. N6553 Wardrobe Door Guide.

CAT. NO.	QTY./PKG.
N6555	2



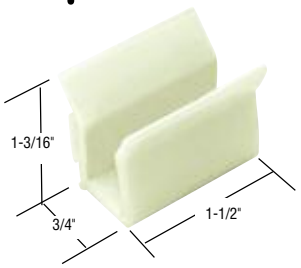
All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

Sliding Shower Door Jamb Guide

Extruded nylon jamb guide for *Bath Co.* sliding tub enclosure doors.

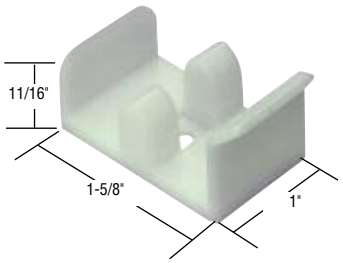
CAT. NO.	COLOR	QTY./PKG.
M6088	White	2



Sliding Shower Door Jamb Guide

Injected white nylon jamb guide for *Sterling* sliding tub enclosure doors.

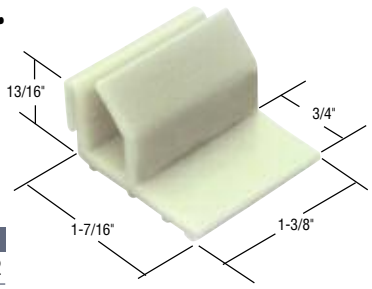
CAT. NO.	COLOR	QTY./PKG.
M6112	White	1



Sliding Shower Door Jamb Guide

Extruded nylon jamb guide for *Bath Co.* sliding tub enclosure doors.

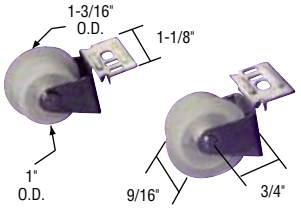
CAT. NO.	COLOR	QTY./PKG.
M6091	White	2



Sliding Drawer Guide Rollers

1" dia. nylon rollers mount on the front of track mounted drawers to provide alignment and smooth operation.

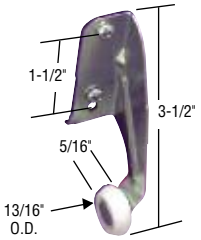
CAT. NO.	QTY./PKG.
R7147	2



Mono-Rail Drawer Track Roller (Left Hand)

Mono-Rail Track Roller for drawer slide systems; roller on left hand side as viewed from the rear of the drawer.

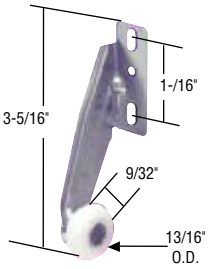
CAT. NO.	QTY./PKG.
R7141	2



Mono-Rail Drawer Track Roller (Right Hand)

Mono-Rail Track Roller for drawer slide systems; roller on right hand side as viewed from the rear of the drawer.

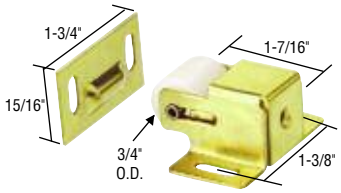
CAT. NO.	QTY./PKG.
R7148	2



Cabinet and Closet Door Catch

Plated steel housing and strike; spring loaded nylon roller; designed for use on interior closet and cabinet doors.

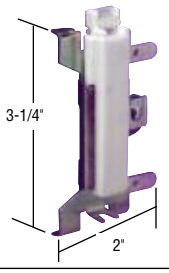
CAT. NO.	FINISH	QTY./PKG.
U9047	Brass	1



Wardrobe Door Guide

Bottom mount snap-in bracket for steel frame by-passing doors; fits *Cox* doors.
2 guide assemblies; 1 left and 1 right.

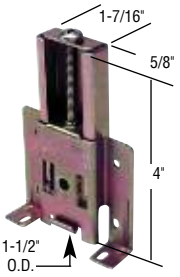
CAT. NO.	QTY./PKG.
N6553	2



Wardrobe Door Bottom Roller

Stamped steel bracket with 1-1/2" dia. concave nylon roller; used on *Cox Series 21* mirror doors.

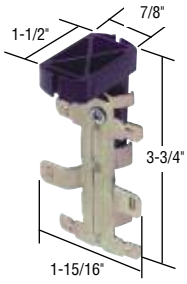
CAT. NO.	ROLLER	QTY./PKG.
N6817	Nylon	1



Wardrobe Door Top Guide

Stamped steel bracket with nylon top guide; used on *Cox Series 21* mirror doors.

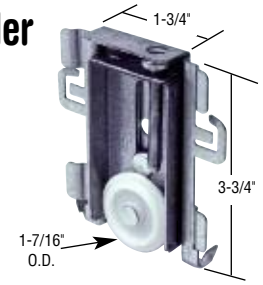
CAT. NO.	QTY./PKG.
N6818	2



Wardrobe Door Bottom Roller

Stamped steel bracket with 1-7/16" dia. concave nylon ball bearing roller; used on *Charmac* mirror doors.

CAT. NO.	ROLLER	QTY./PKG.
N6820	Nylon B.B.	1

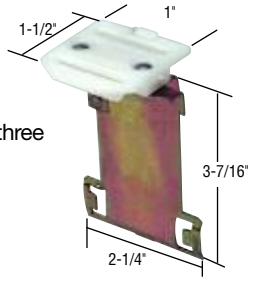


Wardrobe Door Top Guide

Stamped steel bracket with nylon guide; used on *Charmac* mirror doors.

Note: This top guide has been redesigned three times. All previous styles are interchangeable.

CAT. NO.	QTY./PKG.
N6821	2



All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

Sliding Shower Door Bottom Guide

Nylon bottom guide for sliding tub enclosure doors by *Workright*.

CAT. NO.	COLOR	QTY./PKG.
M6144	Black	1

Shower Door Handle Set

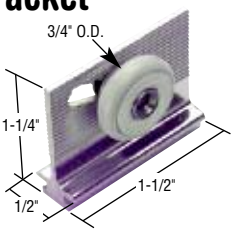
Chrome finish handle set for hinged shower doors and sliding tub enclosures; 1 inside pull and 1 outside pull per package.

CAT. NO.	FINISH	QTY./PKG.
M6029	Chrome	1 Set
M6029B	Chrome	20 Sets

Sliding Shower Door Roller Bracket

Extruded aluminum top roller bracket with 3/4" oval profile nylon roller; designed for doors by *Workright*.

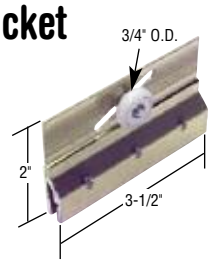
CAT. NO.	FINISH	QTY./PKG.
M6143	Chrome	1



Sliding Shower Door Roller Bracket

Extruded aluminum top roller bracket for frameless shower doors; complete with vinyl glazing channel and 3/4" oval profile nylon roller. Holds up to 1/4" thick material.

CAT. NO.	FINISH	QTY./PKG.
M6053	Aluminum	2
M6104	Polished Brass	2



Shower Door Pull

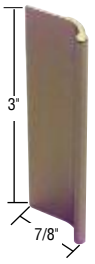
Designed for frameless swinging and sliding shower doors; no drilling of holes needed; held onto glass with silicone.

CAT. NO.	COLOR	QTY./PKG.
M6142	Chrome	1

Sliding Mirror Door Pull

Extruded aluminum pull complete with adhesive back for easy attachment to glass.

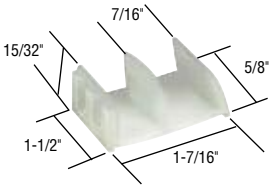
CAT. NO.	FINISH	QTY./PKG.
N6968	Polished Gold	1
N6969	Chrome	1
N6970	Bronze	1
N6971	White	1



Sliding Shower Door Bottom Guide

Injected nylon bottom guide for sliding tub encloses; fits 7/16" thick door rails; used by several shower door manufacturers.

CAT. NO.	COLOR	QTY./PKG.
M6058	White	2
M6058B	White	20



Sliding Shower Door Bottom Guide

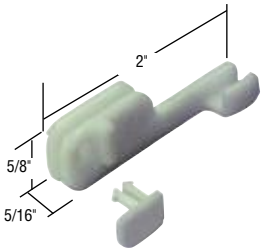
Nylon bottom guide for *International* sliding tub enclosure doors; fits 1/2" thick door rails.

CAT. NO.	COLOR	QTY./PKG.
M6067	White	1
M6067B	White	20

Sliding Shower Door Bottom Guide

Injected white nylon bottom guide with snap-in retainer; used by *Kinkead* and *Sterling*.

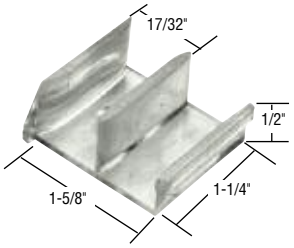
CAT. NO.	COLOR	QTY./PKG.
M6090	White	2



Sliding Shower Door Bottom Guide

Extruded clear nylon bottom guide for frameless shower doors by *Sterling*.

CAT. NO.	COLOR	QTY./PKG.
M6111	Clear	1



Splash Guards

FLAT PROFILE GUARDS MOUNT WITH DOUBLE FACED TAPE

White plastic Splash Guards with flat profile come with double faced foam tape for immediate mounting and use; non-handed.

CAT. NO.	SIZE	QTY./PKG.
M6085	10-5/8"H x 9"W	2

CURVED PROFILE GUARDS MOUNT WITH SILICONE

White plastic Splash Guards have curved profile; use 33STW Silicone or similar tub caulking to mount.

CAT. NO.	SIZE	QTY./PKG.
M6086	8-7/8"H x 7"W	2

DELUXE MOLDED GUARDS MOUNT WITH SILICONE

Deluxe style white plastic Splash Guards have curved profile towards tub, and flat face away from tub. Use 33STW Silicone or other tub caulking to mount.

CAT. NO.	SIZE	QTY./PKG.
M6087	11-1/8"H x 6-7/8"W	2

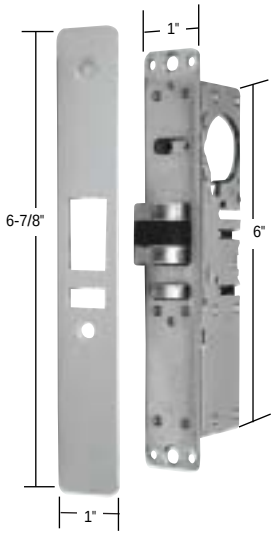
All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

Swinging Door Deadlatch (1-1/8" Backset)

- **Works with Paddle Type Door Handles**

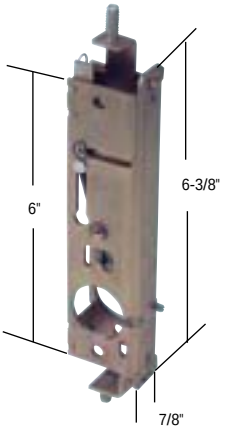
Swinging Commercial Door Deadlatch Locks for use with push paddle handles; 1-1/8" backset; accepts standard 1-5/32" mortise key cylinder or thumbturn with *Adams Rite* MS-type cam; radius faceplate provided in either aluminum or bronze anodized finish. Field reversible for opposite handing.



CAT. NO.	FINISH	QTY./PKG.
J4574	Aluminum	1
J4575	Bronze	1

Storefront Two-Point Lock

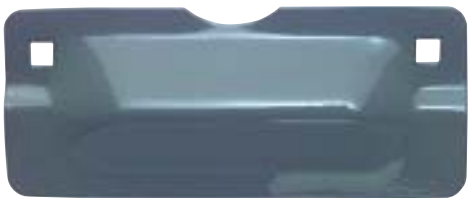
Two-Point Header and Threshold Lock; used with either J4517 or J4518 Lock Bolts in storefront doors.

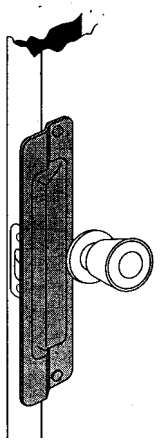


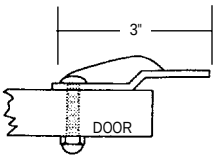
CAT. NO.	QTY./PKG.
J4505	1

Latch Shield

Made of heavy gauge steel plate, the Latch Shield offers protection against forced entry on outswinging doors. Available in two sizes and two colors. The kit includes a plate, two carriage bolts and two acorn nuts.







CAT. NO.	LENGTH	FINISH	QTY./PKG.
U9500	7"	Painted Gray	1
U9501	7"	Painted Bronze	1
U9503	11"	Painted Gray	1
U9504	11"	Painted Bronze	1

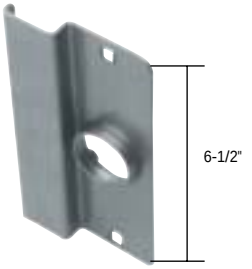
All packages of Replacement Hardware can be combined for quantity pricing.

Heavy Gauge Latch Guards

- **Heavy Gauge Steel with Strike Lip**
- **Cylinder Guards on All Models**

All 6-1/2" and 12" Latch Guards are made of heavy gauge steel, and have two anti-spread pins with cylinder guards. Keyhole slots allow for removable or permanent installation on double acting doors, and permanent installation for outward opening doors only. One per package.

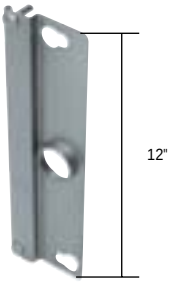
Outward Opening Narrow Stile Flush Doors



Secures permanently with carriage bolt and drive rivet.

CAT. NO.	FINISH
8852AL	Aluminum
8852DU	Duranodic Bronze

Flush Mount Single or Paired Doors

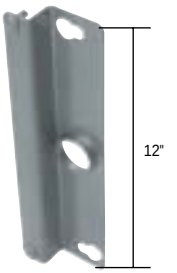


CAT. NO.	FINISH
8854AL	Aluminum
8854DU	Duranodic Bronze

4" Storefront Tube

CAT. NO.	FINISH
8855AL	Aluminum
8855DU	Duranodic Bronze

4-1/2" Storefront Tube

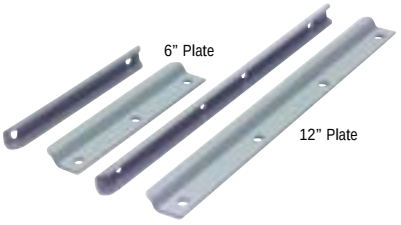


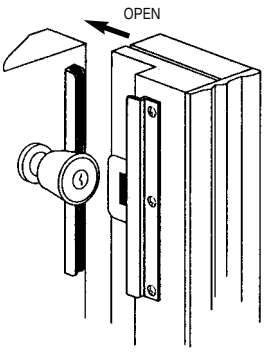
CAT. NO.	FINISH
8856AL	Aluminum

All Heavy Gauge Latch Guards can be combined for quantity pricing.

Latch Guard

Interlocking plates of heavy gauge steel protect latches on inswinging doors against forced entry. Latch Guards are supplied with one-way security mounting screws, and have a painted gray finish. Available in two lengths.



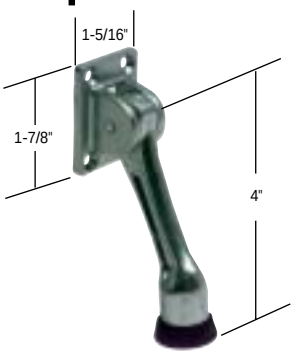


CAT. NO.	LENGTH	FINISH	QTY./PKG.
U9511	6"	Painted Gray	1
U9513	12"	Painted Gray	1

New Products and Expanded Selection

Standard Door Stop

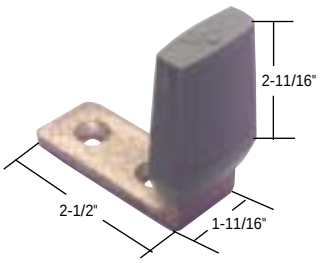
Standard door stop measures 4" in length; base is fastened to door using four screws; includes rubber tip.



CAT. NO.	FINISH	QTY./PKG.
J4537	Aluminum	1
J4537B	Aluminum	10
J4538	Bronze	1
J4538B	Bronze	10
J4539	Bright Brass	1

Heavy Duty Door Stop

Heavy cast iron, floor mounted door stop for severe duty applications; thick molded rubber contact surface; includes screws and anchors.



CAT. NO.	FINISH	QTY./PKG.
J4592	Aluminum	1
J4593	Bronze	1

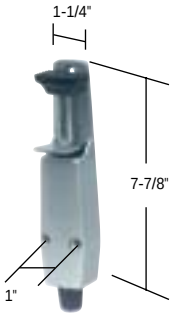
Heavy Cast Brass Door Stop

Heavy cast brass door stop measures 4-3/4" in length; includes rubber tip and four screws; meets ANSI standards.

CAT. NO.	FINISH	QTY./PKG.
J4571	Dull Chrome	1
J4572	Polished Brass	1

Step-On Door Holder

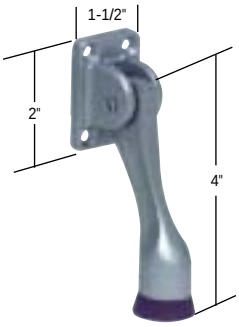
Heavy duty die-cast construction; 1" x 1-1/2" rubber step-on pad; rubber foot; heavy-duty spring release mechanism with oversized release pedal; fastens with three screws.



CAT. NO.	FINISH	QTY./PKG.
J4594	Brass	1
J4595	Aluminum	1

Heavy Cast Iron Door Stop

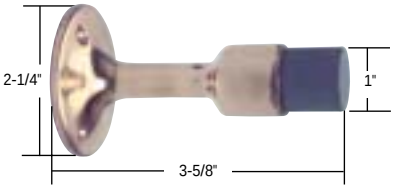
Heavy cast iron door stop measures 4" in length; rubber tip and four screws included.



CAT. NO.	FINISH	QTY./PKG.
J4551	Aluminum	1
J4551B	Aluminum	10
J4552	Bronze	1
J4552B	Bronze	10

Brass Base Stop

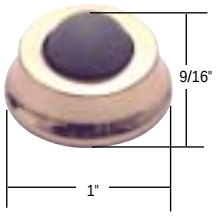
Bright brass heavy duty base stop offers strength and designer elegance; solid brass; 3/4" hard rubber bumper; complete with three mounting screws and anchors.



CAT. NO.	FINISH	QTY./PKG.
J4596	Bright Brass	1

Low Profile Wall Bumper

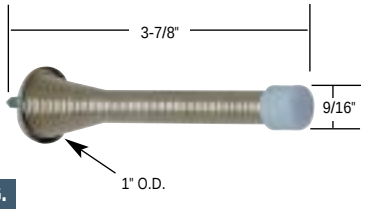
Low profile wall bumper measures 9/16" in height; solid brass base with a rubber tip; complete with screw and anchor.



CAT. NO.	FINISH	QTY./PKG.
J4570	Bright Brass	1

Flexible Door Stop

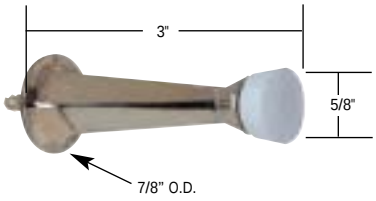
Heavy duty spring; brass plated finish; steel screw insert; mounts onto baseboard to prevent door from hitting the wall.



CAT. NO.	FINISH	QTY.PKG.
U9158	Brass	3

Heavy Duty Rigid Door Stop

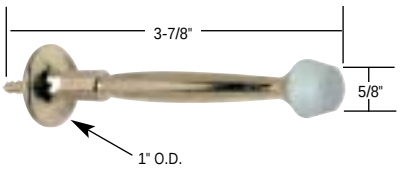
Heavy metal casting with rubber tip; brass plated finish; steel screw insert; mounts onto baseboard to prevent door from hitting the wall.



CAT. NO.	FINISH	QTY./PKG.
U9042	Brass	3

Rigid Door Stop

Heavy metal casting; brass plated finish; steel screw insert; mounts onto baseboard to prevent door from hitting the wall.



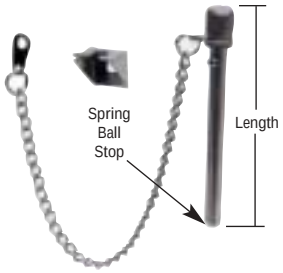
CAT. NO.	FINISH	QTY.PKG.
U9155	Brass	3

All packages of Replacement Hardware can be combined for quantity pricing.

New Products and Expanded Selection

"Nite-Lock" Pins with Spring Ball Stop

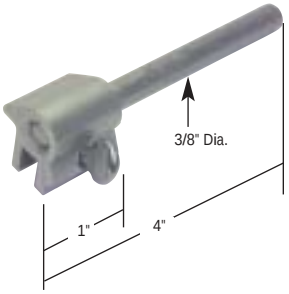
Case hardened steel pin has "detent ball" on end to help hold pin into place; prevents prying or lifting of door or window.



CAT. NO.	LENGTH	DIAM.	QTY./PKG.
S4067	1-5/16"	3/16"	1
S4067B	1-5/16"	3/16"	25
U9858	2-3/4"	3/16"	1
S4011B	2-3/4"	3/16"	25
S4066	2-3/4"	1/4"	1
S4066B	2-3/4"	1/4"	25

Sliding Window Sash Lock

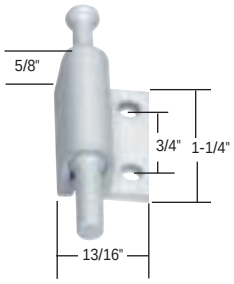
Similar in design to our S4000 Sash Lock, except this lock has a reversible anti-lift bar to prevent sash from being lifted out of track.



CAT. NO.	FINISH	QTY./PKG.
S4373	Aluminum	1
S4374	Black	1

Push-Pull Sliding Door and Window Lock

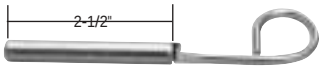
White finish aluminum housing with plated steel pin; throw is 1/2" with maximum reach of 3/4" from edge of housing.



CAT. NO.	FINISH	QTY./PKG.
U9874	White	1

Wood Window Security Pins

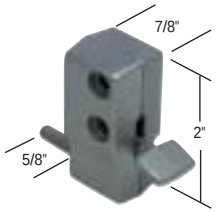
Steel pins lock window in closed or ventilating position; pin removal key is needed to unlock; recommended for wood sash; easy to install; contains eight pins and four keys.



CAT. NO.	FINISH	QTY./PKG.
U9845	Brass	8

Step-On Patio Door Lock

Hardened steel bolt; convenient foot activation; mounts in any position; use in closed or ventilating position; easy to install.

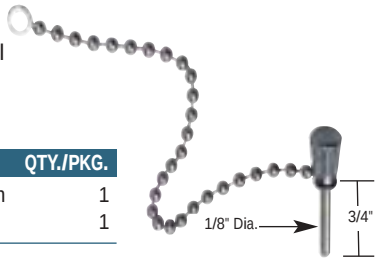


CAT. NO.	FINISH	QTY./PKG.
U9877	Aluminum	1
S4023B	Aluminum	10
U9878	Black	1
S4041B	Black	10
U9879	White	1
S4355B	White	10

All packages of Replacement Hardware can be combined for quantity pricing.

Sliding Window "Nite-Lock" Pins

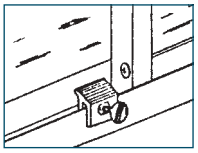
Case hardened steel pin installs between moving panel and fixed rails; easy to install; fits most windows.

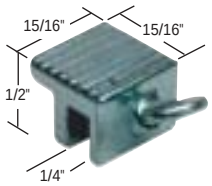


CAT. NO.	LENGTH	FINISH	QTY./PKG.
S4387	3/4"	Aluminum	1
S4404	3/4"	Black	1

Sliding Window Sash Lock

Installs on single hung or sliding aluminum windows; securely locks windows in closed or ventilating position; easy to install.

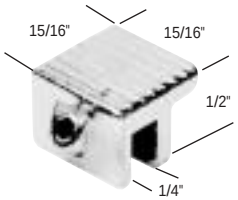




CAT. NO.	FINISH	QTY./PKG.
S4000	Aluminum	2
S4000B	Aluminum	50
S4001	Black	2
S4001B	Black	50
U9802	White	2
S4340B	White	50

Tamperproof Sliding Window Lock

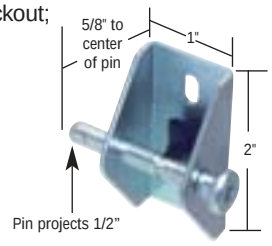
Heavy-duty cast aluminum with tamperproof single hex security screw and wrench; securely locks window in closed or ventilating position; prevents accidental opening by children; easy to install.



CAT. NO.	FINISH	QTY./PKG.
U9810	Aluminum	2
U9812	White	2

Push-Pull Door and Window Lock

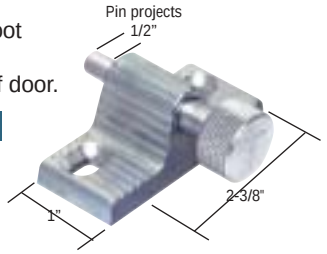
Heavy steel housing with hardened steel bolt; two position action prevents accidental lockout; works on patio doors or sliding windows.



CAT. NO.	FINISH	QTY./PKG.
U9853	Aluminum	1
S4009B	Aluminum	10
S4029	Black	1
S4029B	Black	10
S4356	White	1
S4356B	White	10

Jumbo Patio Door Lock

Twist-in hardened steel bolt; can be foot operated; works in closed or ventilating position; helps prevent prying or lifting of door.



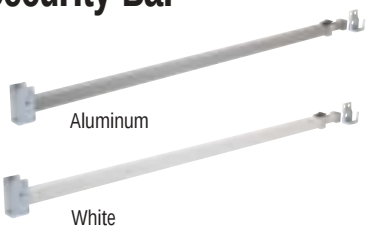
CAT. NO.	FINISH	QTY./PKG.
U9848	Aluminum	1
S4002B	Aluminum	10
S4003	Black	1
S4003B	Black	10
U9850	White	1
S4354B	White	10

New Products and Expanded Selection

Adjustable Patio Door Security Bar

- **No Cutting Required**
- **Easily Installed**

Telescoping aluminum bar accommodates 28" to 48" wide inside and outside sliding patio doors; features a locking lever that maintains the bar at the required length; locking saddle can be mounted for either inside or outside sliders.

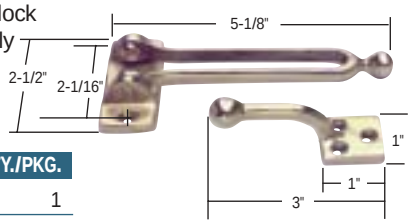


CAT. NO.	FINISH	QTY./PKG.
U9920	Aluminum	1
U9921	White	1

Security Door Lock

- **Popular Hotel Model • Polished Solid Brass**

You've probably seen this lock in every hotel you've ever stayed in, and now CRL can offer them to you. Designed for swinging entry doors, this solid brass door lock allows the door to be partially opened (5" maximum) for ventilation or conversation. Installation screws included.

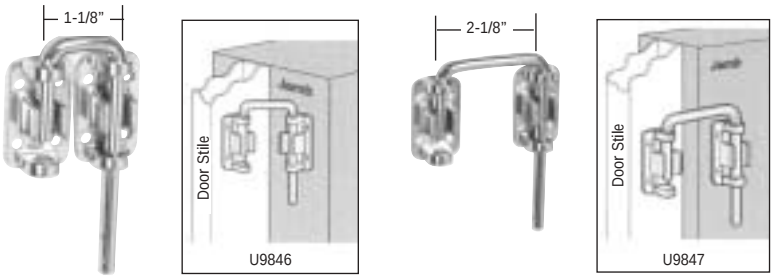


CAT. NO.	FINISH	QTY./PKG.
S4182	Brass	1

Sliding Door Loop Lock

Chrome plated hardened steel locking rod with die-cast bracket and keeper secures door to jamb; loop lock rod with bracket attached; keeper bracket and installation screws.

CAT.NO.	FINISH	SIZE	QTY./PKG.
U9846	Chrome	1-1/8"	1
U9847	Chrome	2-1/8"	1



Standard Door Viewer

Solid brass housing with glass lens fits 1-3/8" to 2-1/8" thick wood or metal doors; easy to install in 1/2" hole.

CAT.NO.	FINISH	VIEW	QTY./PKG.
U9880	Chrome	160°	1
U9983	Brass	160°	1

Wide Angle Door Viewer

Solid brass housing with glass lens fits 1-3/8" to 2-1/8" thick wood or metal doors; easy to install in 9/16" hole.

CAT.NO.	FINISH	VIEW	QTY./PKG.
U9881	Chrome	190°	1
U9891	Brass	200°	1

Wide Angle Door Viewer

Solid brass housing with glass lens fits 1-1/2" to 2-1/16" thick wood or metal doors; easy to install in 1" hole.

CAT.NO.	FINISH	VIEW	QTY./PKG.
U9896	Brass	200º	1

"Giant Screen" Door Viewer

Unique "True Image" prism design allows arm's length viewing through 1-3/4" diameter lens. High impact plastic housing requires 1-3/4" hole; fits 1-3/8" to 2" thick wood or metal doors.

CAT. NO.	FINISH	QTY./PKG.
U9915	Gold	1
U9916	Bronze	1
U9917	White	1
U9918	Gray	1

Brass Padlock

Solid brass body with hardened steel shackle; popular size for tool boxes and cabinets; comes with two keys.

CAT. NO.	QTY./PKG.
S4204	1

CRL Security Hardware Display

- **New Selection Features 36 of Our Most Popular Security Items**

Display contains two of 36 different carded items for a total of 72, plus pegboard hooks and sign. Refill packs for your display are stocked in all CRL locations.

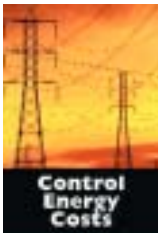
CAT. NO. PLDB6

All packages of Replacement Hardware can be combined for quantity pricing.

CRL Reflective Window Film

- Reflect Up to 50% of Summer Heat
- Reduce Up to 99% of UV Rays
- Safe for Dual-Pane Units

CRL Reflective Window Film is compatible with standard 1/8" clear residential windows including single-pane, dual-pane and removable storm panel windows. The film reduces up to 99% of UV-A and UV-B rays, which are primarily responsible for color fading and deterioration, as well as reflecting up to 50% of summer heat.



CAT. NO.	SIZE	COLOR	QTY./PKG.
PRS361	36" X 15 ft.	Mirror Silver	1 Roll
HGR361	36" X 15 ft.	Gray	1 Roll
PRS336	36" X 100 ft.	Mirror Silver	1 Roll
EQR636	36" X 100 ft.	Gray	1 Roll

Colors can be combined for quantity pricing.

CRL Non-Reflective Window Film

- Reflect Up to 70% of Summer Heat
- Retain Up to 55% of Winter Heating
- Reduce Up to 99% of UV Rays
- Safe for Dual-Pane Units

CRL Non-Reflective Window Film is compatible with standard 1/8" clear residential windows including single-pane, dual-pane and removable storm panel windows. The film reduces up to 99% of UV-A and UV-B rays, which are primarily responsible for color fading and deterioration. It will retain up to 55% of winter heat inside the home.

CAT. NO.	SIZE	COLOR	QTY./PKG.
LEG361	36" X 15 ft.	Gray	1 Roll
LEB361	36" X 15 ft.	Bronze	1 Roll
EGWD536	36" X 100 ft.	Gray	1 Roll
EGWD736	36" X 100 ft.	Bronze	1 Roll

Colors can be combined for quantity pricing.

CRL Static Cling Film

- Reduces Glare
- Safe for Plexiglass

CRL Static Cling Window Film is compatible with standard 1/8" clear residential windows including single-pane, dual-pane and removable storm panel windows, as well as plexiglass. The film reduces glare, and can be easily removed and replaced.

CAT. NO.	SIZE	COLOR	QTY./PKG.
CDS78	36" X 78"	Smoke	1 Roll
CDB78	36" X 78"	Bronze	1 Roll

Colors can be combined for quantity pricing.

CRL Privacy Film

- 24 Hour Privacy
- Perfect for Bathrooms and Doors
- Safe for Dual-Pane Units

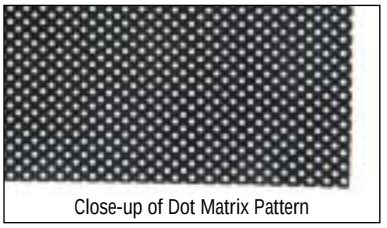
CRL Privacy Film is compatible with standard 1/8" clear residential windows including single-pane, dual-pane and removable storm panel windows. The film affords total privacy, and is perfect for bathrooms and doors.

CAT. NO.	SIZE	COLOR	QTY./PKG.
PFW48	48" X 78"	Frosted White	1 Roll

CRL Static Cling Dot Matrix Window Film

- Simple Press-On Installation
- Easy Peel-Off Removal
- 75% Solar Energy Rejection

CRL Static Cling Dot Matrix Window Film is 100% reusable. It's a black color solar control window film in a dot matrix pattern that virtually eliminates glare and harmful ultraviolet rays of the sun, reducing the fading and rotting of upholstery, drapes and carpets. The film holds securely to glass, acrylic and GE Lexan® by static electricity, and requires no glue or adhesive. It goes on dry, no messy soap and water solutions required, so it can be moved or re-used as required. It can be used in either interior or exterior applications, except on dual pane, where it must be applied to the exterior.

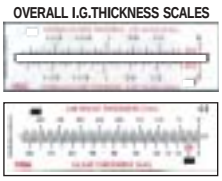


Close-up of Dot Matrix Pattern

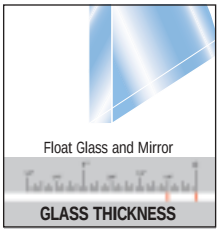
CAT. NO.	SIZE	QTY./PKG.
UVX02448	24" X 48"	1 Sheet
UVX03648	36" X 48"	1 Sheet
UVX03672	36" X 72"	1 Sheet
UVX04848	48" X 48"	1 Sheet
UVX04872	48" X 72"	1 Sheet
UVX036100	36" X 100 ft.	1 Roll
UVX048100	48" X 100 ft.	1 Roll

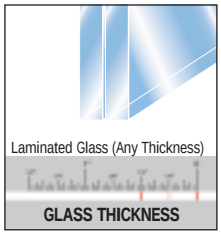
CRL Glass Thickness Laser

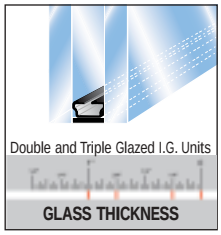
- Fractional Inch and Metric Measurement Models
- Designed for Glaziers, Window Manufacturers and Inspectors
- Uses Laser Technology for Exact Measurements
- Simple to Use - Just Press a Button and Read the Measurements
- Measures Insulating Glass and Low-E Surfaces
- Also Measures Laminated, Bullet Resistant and Single Lite Float Glass

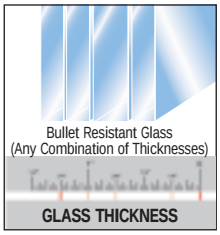


Fractional Inch and Metric Scale Sets are Interchangeable









Eliminating measuring mistakes with the CRL Glass Thickness Laser will save you time and money as you order and fabricate your glass correctly. Glass thicknesses are reflected back from glass surfaces to an easy-to-read measuring scale. Insulating glass unit readings show both glass thicknesses and air space dimensions. Laminated glass measurements with single or multiple inner-layers show the thickness of each layer, as well as their overall thickness.

This compact device is small enough to fit into your shirt pocket, or in it's convenient, rugged denier nylon case with carrying strap and belt loop. Powered by two AAA batteries (included).

CAT. NO.	DESCRIPTION
MG1500	Fractional Inch Laser
MG1500MM	Metric Laser
MG1500FS	Fractional Scale Set Only
MG1500MS	Metric Scale Set Only

CRL Glass-Chek Thickness Meters

- Factory Calibrated, Needs No Field Adjustments
- Glass-Chek+ Also Detects the Location of Low-E
- Digital Readout
- Laser Accuracy

Glass-Chek Test Instruments measure the thickness of both lites of glass, as well as the air space of an insulating window assembly. Simply press the Glass-Chek Meter against a single lite of glass, or a dual lite window assembly, push the button and hold it until the measurements are digitally displayed. The thickness of each lite of glass, the air space, and the overall thickness of the I.G. unit will simultaneously appear on the 2-line liquid crystal display. The Glass-Chek+ also contains a Low-E coating detector. In order to fully characterize an I.G. unit with Low-E, you must test an I.G. unit on both sides because Low-E coatings are conductive. For best results, clean the window prior to testing. Uses one 9 VDC battery (included).

CAT. NO. GC1000
GLASS-CHEK

CAT. NO. GC2000
GLASS-CHEK "+"

CRL Low-E Surface Coating Detector

- Detects Thermally Resistant Coatings

Senses the presence and location (or absence) of thermally resistant coatings used on single strength and double strength energy efficient glass (maximum air space 1/2 inch). Simple indicator lights check clear, near, or far surfaces. Uses one standard 9 VDC battery (included).

CAT. NO. AE1600

CRL Low-E Coating Contact Meter

- For Hard Coat or Soft Coat Low-E Applications

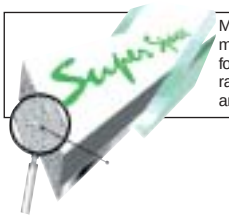
Detects any conductive surface, including Low-E coatings on a single sheet of glass. The meter has four non-scratch pads on the reverse side that you press against the glass to determine if that surface has conductive Low-E coatings. The ideal product to use during the manufacture of Low-E insulating glass units. If the meter detects a coating on the surface an indicator lights up on the contact surface. Uses one 9 VDC battery (included).

CAT. NO. CM1030

CRL Edgetech Super Spacer™

- Now Available in Gray and Black

Convenient 66 Foot Roll Package



Magnification of non-metal structural foam shows millions of tiny insulating air pockets. This structural foam material has been shown to conduct heat at a rate over 950 times lower than that of aluminum, and 85 times less than that of stainless steel.

Full Structural Metal Spacers
With conventional metal spacers, condensation is a cold fact of life.

Less Structural Metal Spacers
Mid-performance spacer systems which still contain metal improve condensation resistance.

Non Structural Metal Spacer
The patented structural foam design of Super Spacer™ dramatically reduces condensation, delivering the clearest picture in warm edge technology.

Super Spacer™ is made from superior insulating silicone foam. The spacer essentially eliminates perimeter edge condensation and substantially reduces overall window heat loss. Because of the unique design features of Super Spacer™, there are advantages in using the product for the fabrication of specialized insulating glass designs including: curved and odd shaped units, sound insulating, and triple glazed units with art glass inserts. For long term durability, UV resistant silicone material is used to prevent spacer degradation. The flexible foam spacer provides friendly accommodation of glass bowing and thermal movement, and also helps ensure improved edge seal durability through reduced sealant stress. The silicone foam contains a high quantity of 3A molecular sieve desiccant, and the permeability of the foam allows for fast moisture pickup. To reduce moisture vapor transmission and inert gas loss, the Super Spacer™ is backed by a high performance, multilayer barrier film.

GRAY COLOR 1/4" THICK SUPER SPACER

CAT. NO.	WIDTH	FEET/ROLL
SS31666	3/16"	66
SS1466	1/4"	66
SS51666	5/16"	66
SS3866	3/8"	66
SS1266	1/2"	66
SS5866	5/8"	66

Sizes can be combined for quantity pricing.

BLACK COLOR 1/4" THICK SUPER SPACER

CAT. NO.	WIDTH	FEET/ROLL
SS1466BL	1/4"	66
SS3866BL	3/8"	66
SS1266BL	1/2"	66

Sizes can be combined for quantity pricing. Other colors and bulk rolls are available on special order. Super Spacer cannot be used without edge sealant. We recommend CRL Hot Melt Butyl, or CRL #877 Super Spacer Sealant.

CRL Insulating Glass Starter Kit with Super Spacer™

- Everything You Need to Fabricate Quality I.G. Units Using Super Spacer™
- Complete with 330 Feet of Super Spacer™

CAT. NO. S1GK877

Our newest Insulating Glass Starter Kit features Super Spacer™, the superior insulating foam that eliminates perimeter edge condensation and substantially reduces overall window heat loss. Super Spacer™ allows you to build I.G. units in shapes not permitted by metal spacers. The silicone foam contains a high quantity of 3A molecular sieve desiccant, and the permeability of the foam allows for fast moisture pickup. Our 877 Super Spacer™ Sealant is compatible with units fabricated with Super Spacer™, and forms an airtight seal. The Kit also includes the SSHN Super Spacer™ Hand Notcher to simplify corner notching and ensure consistent application of Super Spacer™, tools to assist fabrication, and supplies for cleaning. It's everything you need (except the glass, of course) to make efficient and profitable insulating glass units.

THE S1GK877 KIT CONTAINS:
2 Rolls SS1466 1/4" x 1/4" x 66' Super Spacer™
1 Roll SS3866 3/8" x 1/4" x 66' Super Spacer™
2 Rolls SS1266 1/2" x 1/4" x 66' Super Spacer™
12 Cartridges 877 Super Spacer™ Sealant
1 Each SGT14 1/4" Sealant Guide
1 Each SGT38 3/8" Sealant Guide
1 Each SGT12 1/2" Sealant Guide
1 Each SSHN Super Spacer™ Hand Notcher
1 Case 1550 Lint Free Glass Wipes
1 Gallon 695 Glass Cleaner Concentrate
2 Each DB21 Sprayer Bottles

CRL Insulating Glass Starter Kit with Super Spacer™

- Everything You Need to Fabricate Quality I.G. Units Using Super Spacer™
- Complete with 330 Feet of Super Spacer™

CAT. NO. S1GK600

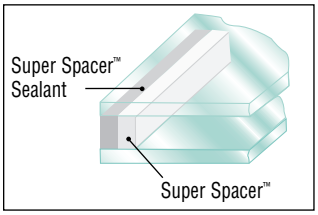
This Insulating Glass Starter Kit features Super Spacer™, the superior insulating foam that eliminates perimeter edge condensation and substantially reduces overall window heat loss. Super Spacer™ allows you to build I.G. units in shapes not permitted by metal spacers. The silicone foam contains a high quantity of 3A molecular sieve desiccant, and the permeability of the foam allows for fast moisture pickup. Our N600G15 2-Part Polyurethane Sealant is compatible with units fabricated with Super Spacer™, and forms an airtight seal. The kit also includes the SSHN Super Spacer™ Hand Notcher to simplify corner notching and ensure consistent application of Super Spacer™, tools to assist fabrication, and supplies for cleaning. It's everything you need (except the glass, of course) to make efficient and profitable insulating glass units.

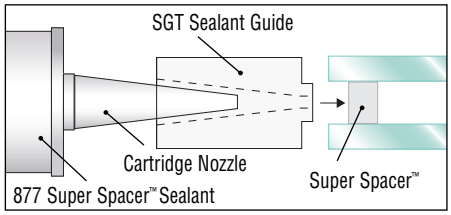
THE S1GK600 KIT CONTAINS:
2 Rolls SS1466 1/4" x 1/4" x 66' Super Spacer™
1 Roll SS3866 3/8" x 1/4" x 66' Super Spacer™
2 Rolls SS1266 1/2" x 1/4" x 66' Super Spacer™
1 Each N600G15 1.5 Gal. 2-Part Polyurethane
1 Each SSHN Super Spacer™ Hand Notcher
1 Each MX40 Sealant Mixer
1 Each 4104 1-1/2" Putty Knife
1 Case 1550 Lint Free Glass Wipes
1 Gallon 695 Glass Cleaner Concentrate
2 Each DB21 Sprayer Bottles

CRL Super Spacer™ Sealant

• The Easy, Inexpensive Way to Make Low Production, High Quality I.G. Units

Now you can fabricate quality single seal insulating glass units with our new one-component 877 Super Spacer™ Sealant. Simply attach an SGT Sealant Guide to match your Super Spacer™ width and backfill to the edge of the glass. It's special non-solvent formulation is compatible with Super Spacer's™ adsorbent, and does not require a polyisobutylene primary seal. 11 fl. oz. cartridges are packed 12 per case.





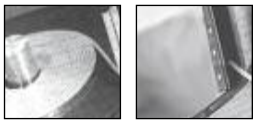
CAT. NO. 877

SGT Sealant Guide

Super Spacer™ Stand

• Positioned for Speed

The LRS22 Stand is designed to accommodate any size Super Spacer™ in bulk reels. The stand features a unique base and cover for totally enclosing the Super Spacer™, so it is airtight during application, preserving its quality.



CAT. NO.	DESCRIPTION
LRS22	Spacer Stand

F.O.B. Los Angeles, CA

Super Spacer™ Hand Notcher

• Simplifies Corner Notching

The new SSHN Hand Notcher is designed to speed up manual application of Super Spacer™. It simplifies corner notching and assures consistent placement of the foam spacer strip at a distance of 3/16" from the glass edge. Applies 1/4" to 3/4" widths of Super Spacer™.

CAT. NO.	DESCRIPTION
SSHN	Hand Notcher

Super Spacer™ Super Shuttle™ Applicator

The Super Shuttle™ Hand Held Applicator makes precision laying, notching, cornering and splicing a simple one-step process in the manufacture of insulating glass units using Super Spacer™. The applicator glides on the Super Spacer™, eliminating contact with the glass. That prevents marking of the vision area, thus permitting its use with air float tables, caster tables, or suction cup supports. The Super Shuttle™ ensures straight sightlines perpendicular to the glass, and is fully adjustable for Super Spacer™ sizes of 1/4" to 7/8", and setback distances of either 3/16" or 1/4".

CAT. NO.	DESCRIPTION
SSAPA	Applicator

F.O.B. Los Angeles, CA

Super Spacer™ Groove Tool

• For Leaded Glass Insert Panels

The Super Spacer™ Groove Tool allows you to create your own grooved spacer for leaded and stained glass insert panels. By adjusting the centering guide to widths from 1/4" to 1" and pulling material across the blade, perfect grooves are made quickly. Two blades are included for shallow and deep cuts.

Common Cut | Deep Cut | Shallow Cut

CAT. NO.	DESCRIPTION
LCSG1	Groove Tool

Super Spacer™ Liner Remover

• Eliminates Production Steps

The LPR20 Liner Remover is a time saving tool that automatically strips the protective liner from both sides of Super Spacer™, taking the manual work out of the task. The compact tool is easy to use and helps keep work areas clean. Super Spacer™ is fed into the tool, which then peels the liner off and ejects them into a waste container. The LPR20 adjusts easily to accommodate all sizes of Super Spacer™. Measures 6-3/4"L x 8-3/8"W x 6-1/2"H.

CAT. NO.	DESCRIPTION
LPR20	Liner Remover

F.O.B. Los Angeles, CA

CRL 2-Part Polysulfide Insulating Glass Sealant

- Resistant to Weather, Ozone, Sunlight, Heat and Cold
- Passes SIGMA Specifications for Durability

Seals insulated glass units against moisture, cold and heat, sunlight, aging and weathering. Outstanding adhesion to glass, aluminum, and other spacer and corner materials. Cures rapidly to permit easy cutting and handling within 4 to 12 hours at room temperature; even less time at elevated temperatures. M.S.D.S. and spec sheets on request. (Not for use with Super Spacer™)

CAT. NO.	CONTENTS
N400G15	1-1/2 Gallons
N4005GL	5 Gallons

CRL Mini Extruder

A compact table top hot melt gunning unit for production rates of up to 50 pounds of hot melt sealants or adhesives per day. The pot holds approximately 20 pounds of material. Additional material may be added at any time during production. A heavy duty progressive pump provides a uniform, pulse-free and adjustable flow rate. Hose, trigger-actuated hand gun and swivel coupling is supplied with the unit. A variety of nozzles and dispensing heads are available.

- Low Cost / High Production Hot Melt Gunning System
- 110 Volt Power Supply Required

CAT. NO.	DESCRIPTION
ATXM1	Mini Extruder

F.O.B. Somerville, NJ

CRL Insulating Glass Unit Removal Tool

- Reaches Between Edge of I.G Unit and Frame
- Adjustable for 1", 3/4", 5/8" and 1/2" I.G. Units

The CRL Insulating Glass Unit Removal Tool allows the glazier to remove units from the same side as the stops on vinyl windows. Remove the stops, insert the tool between the I.G. unit and the frame. The blade rotates automatically 90˚ into position and cuts through the bedding material, releasing the failed or broken unit from the frame. Long lasting stainless steel blades quickly cut through butyl, silicone and foam tape bedding materials. Saves labor from having to gain access to the other side of the I.G. unit. Comes with one pair of blades.

CAT. NO.	DESCRIPTION
EG9	I.G. Unit Removal Tool
EGB	Pair of Replacement Blades

CRL Rotary I.G. Work Table

- Holds Units Up to 5' x 7'
- Eliminates Production Steps

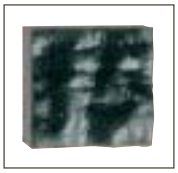
Work surface height is 36" and the glass is held in position by a 6" vacuum cup on a carpeted surface. Table rotation and braking is controlled by dual remote pedal controls. Swing out support arms expand top surface to 5' x 7'. Requires 35 PSI air supply. Call for complete specifications.

CAT. NO.	DESCRIPTION
LCS3084	Rotary Work Table

F.O.B. Elysian, MN

CRL Pebbled Non-Adhesive Shipping Pads

- Non-Adhesive Black Pebbled Nylon
- No Sticky Residue Left After Removal
- Excellent When Storing or Transporting IG Units



Closeup of a 5/8" pad

CRL is expanding our Non-Adhesive Shipping Pad line with a new PVC non-adhesive, mark resistant Shipping Pad. This pad is a heavy density 25 pound Pebbled PVC laminated to special cling foam. Since these Non-Adhesive Pads leave no residue there is no clean up necessary, plus they can be reused in extremely clean conditions.

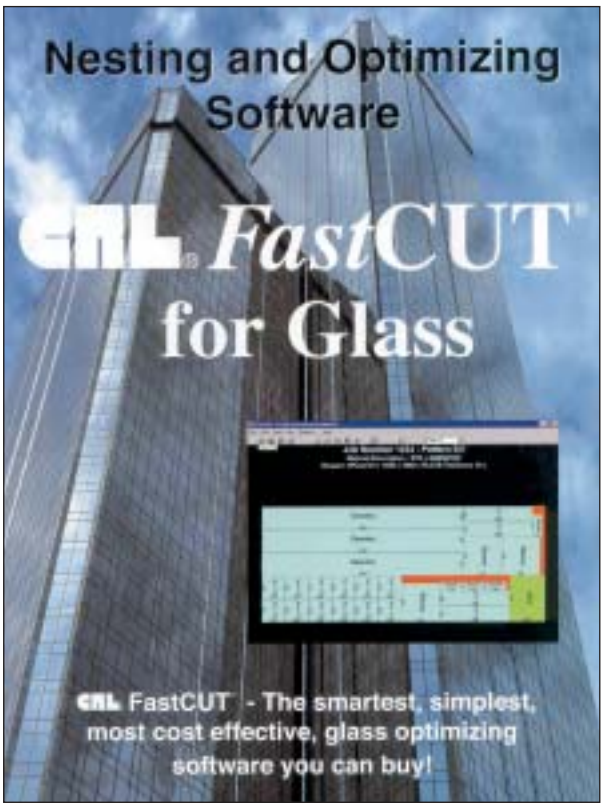
CAT. NO.	SIZE	QTY. PER ROLL
PNA12B	1/4" X 1/2" X 1/2"	10,000
PNA34B	1/4" X 3/4" X 3/4"	5,000
PNA58B	3/16" X 5/8" X 5/8"	5,000

All Bulk Shipping Pads can be combined for quantity pricing.

CRL FastCUT®
Glass Optimizing Software

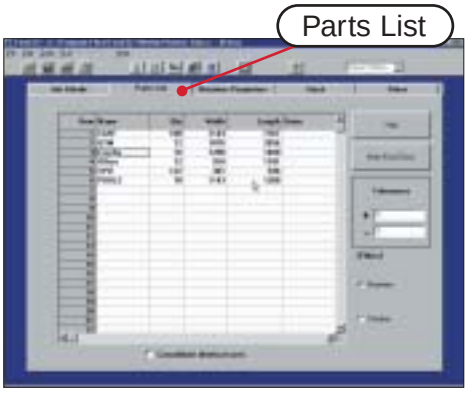
- Calculates Price of Material and Summarizes Total Job Cost
- Provides Cutting List for Production
- Gives Total Sheets Required
- Does Stock Length Materials
- Copy and Paste Information to and from Other Applications
- Windows® 95/98/2000/ME/NT and XP Compatible

CRL FastCUT® provides the easiest means of nesting a set of square and rectangular shaped cuts into a set of rectangular shaped lites of stock material. CRL FastCUT® eliminates the time consumed quoting and calculating materials in the glass industry. Both plate glass and linear materials are handled with ease. Simply enter the quantity and size of needed pieces then list your stock.



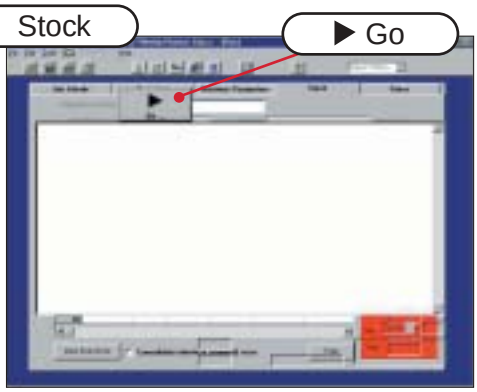
CAT. NO. 2000FCS

CRL FastCUT® is probably the most cost-effective tool that you can add to your business. Saves time and materials, speeds up production, reduces material waste, and is very simple to use! CRL FastCUT® will turn your problem into a solution in seconds.



1. List the Cut Sizes

2. List the Stock Sizes

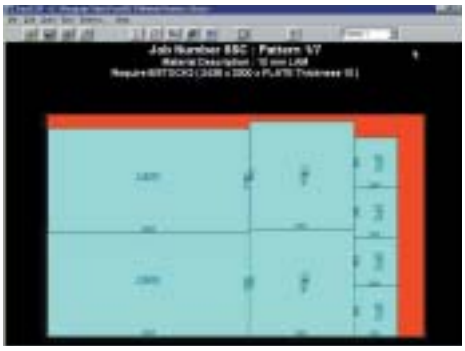


3. Click on Go

Another CRL Exclusive

By entering simple job data such as the cut sizes that are needed and the sizes of stock you have, you can quickly calculate a list of recommended cuts that will speed your estimating. The program will print out an optimized list of sizes for you to cut. This will minimize the amount of scrap material that normally is wasted.

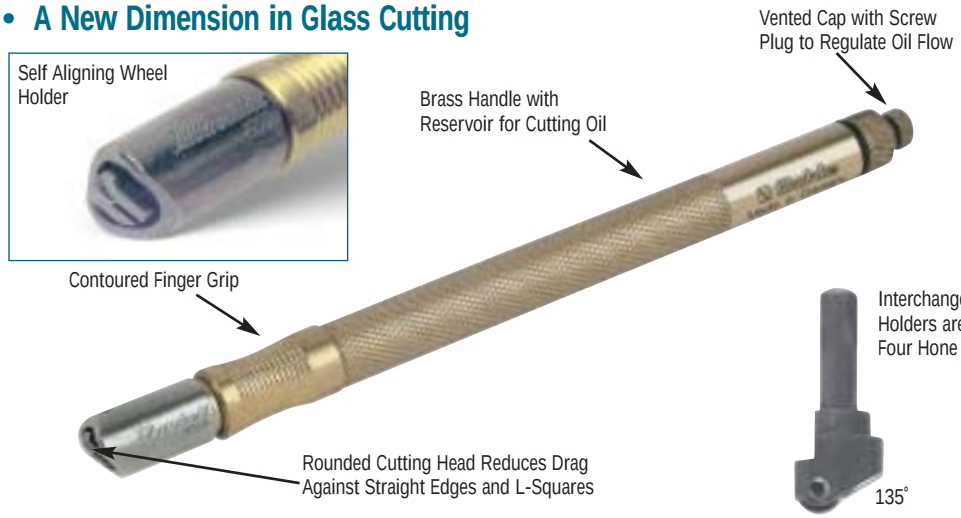
You can also add extra information to these reports by entering such information as: job name, project, "prepared by" and cost data that will further enhance this program's capability. Once this is entered, very detailed reports that include your costs can be generated for quotes and large job estimates. For additional information call CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**.



4. The Results are Simple, Easy to Read and Ready to Print for Quick Cutting

CRL Toplife 2000 Deluxe Glass Cutter

• A New Dimension in Glass Cutting



Shown with Optional Cat. No. TP20450 Transverse Handle

CAT. NO.	DESCRIPTION	STD. WHEEL
TP2000	Toplife Cutter	135˚ Angle

The Toplife 2000 Deluxe Glass Cutter is produced by a pioneer in the field of glass cutting, and incorporates technology developed over the last 75 years. This is a professional system that will produce optimum results because of four revolutionary innovations: 1) The Toplife Cutting Wheel - a composition of laminate materials for superior scoring and long life; 2) Rounded Cutting Head with ball bearing mounting for the Self-Aligning Wheel Holder which ensures absolutely parallel guidance of the wheel (with reduced friction) when cutting against a Straight Edge or L-Square. Inaccuracies due to manual guidance of the cutter are automatically compensated; Wheel Holder freely rotates through 360° allowing the cutter to be used in cutting templates. Wheel Holder can also be replaced with wheels of different angles for scoring varying glass thicknesses; 3) The sophisticated two-valve technology uses a screw plug to regulate the flow of the cutting oil, which flows only when the Cutting Head is depressed, and stops when the cutter is not in use. Oil flow can also be shut off if you wish to use the Toplife 2000 as a dry cutter; 4) The Transverse Handle (see opposite page) allows the cutter to be used more conveniently because it is ergonomically formed, so you can apply cutting pressure without discomfort or fatigue. These features make the Toplife 2000 the choice for both glazing professionals and occasional users because it simplifies the requirements for producing exceptional cutting results.

CRL Toplife 2000 Wheel Holders

• Fit Toplife 2000 Deluxe Glass Cutters

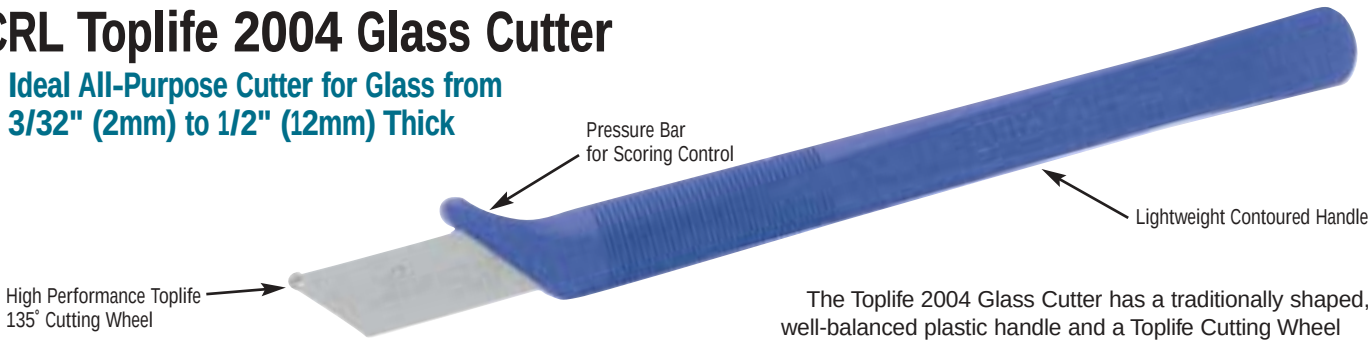
Interchangeable Wheel Holders for Toplife 2000 Deluxe Glass Cutters are available in four angles to accommodate glass thicknesses from 3/32" to 3/4" (2 mm to 19 mm). They feature Toplife Wheels made of a laminate material that has superior cutting life compared to traditional carbide cutting wheels. Replacement is simply a matter of loosening the retaining screw. You can order them by wheel angle, or in a set containing one each of the four.

CAT. NO. TP244911
Set of All Four

CAT. NO.	WHEEL ANGLE	GLASS THICKNESS
TP24492	135˚	3/32"-1/4" (2-6 mm)
TP24494	145˚	1/4"-3/8" (6-10 mm)
TP24496	155˚	1/4"-5/8" (6-15 mm)
TP24497	158˚	3/8"-3/4" (10-19 mm)
TP244911	Set of All Four Wheel Holders	

CRL Toplife 2004 Glass Cutter

• Ideal All-Purpose Cutter for Glass from 3/32" (2mm) to 1/2" (12mm) Thick



CAT. NO.	GLASS THICKNESS	STD. WHEEL
TP2004	3/32"-1/2" (2-12 mm)	135˚ Angle

The Toplife 2004 Glass Cutter has a traditionally shaped, well-balanced plastic handle and a Toplife Cutting Wheel permanently secured in a light head made from a special metal alloy. The 135˚ angle wheel gives very fine, smooth cutting performance, making this the ideal all-purpose cutter for glass from 3/32" to 1/2" (2 mm to 12 mm) thick.

CRL Toplife 2000 Cutting Accessories

- **Companions for the TP2000 Toplife Glass Cutter**

Transverse Handle

The ergonomically formed Transverse Handle can be adjusted to fit comfortably in your hand, making it easier for you to control the Toplife 2000 Glass Cutter. That's a real plus when you have to apply extra pressure to cut thick glass. Works equally well with CRL S1050 and S1050D Metal Handle Glass Cutters.

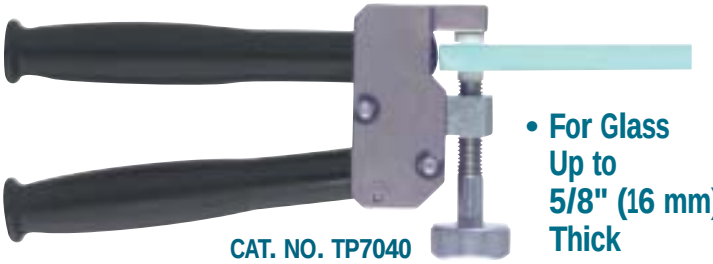
CAT. NO. TP20450

Use With: Cat. No. TP2000 Toplife Glass Cutter

- **Expand the Cutting Capabilities of Your TP2000 Toplife Glass Cutter with These Functional Accessories**

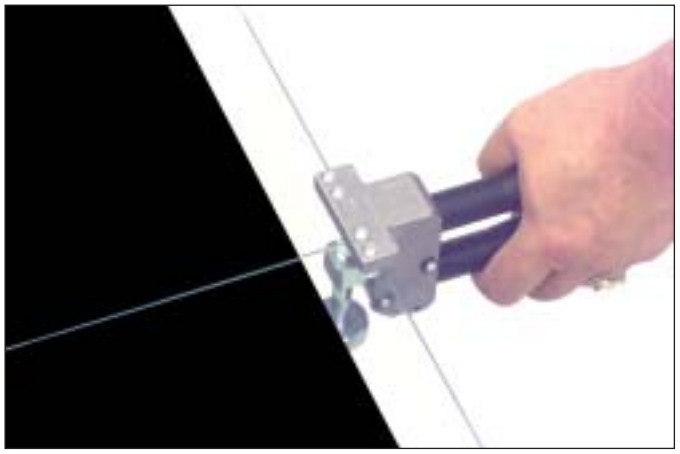
Heavy Glass Breaking Pliers

These Heavy Glass Breaking Pliers are indispensable for running the score lines in glass up to 5/8" (16mm) thick. They are perfect for use with the TP078 Corner Notching Template to break out cut sections in a controlled manner. Compound action handle allows precise application of pressure.



CAT. NO. TP7040

- **For Glass Up to 5/8" (16 mm) Thick**



Corner Notching Template

- **For Glass Up to 5/8" (16 mm) Thick**

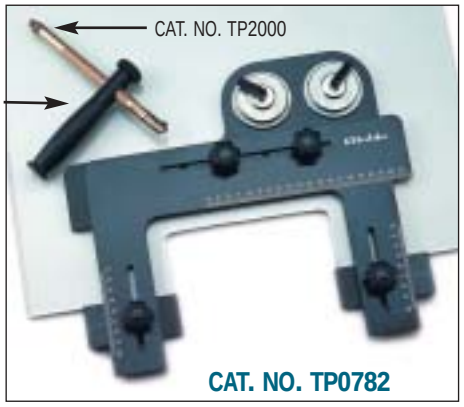
The Corner Notching Template allows right angle notches to be cut out of glass up to 5/8" (16 mm) thick when used with the Toplife 2000 Glass Cutter, thanks to the TP2000's 360° wheel holder rotation. Two trigger-actuated vacuum cups secure the Template to the glass, while the adjustable glass edge guides hold the 90° angle. Notch depth can be varied from 1-3/4" to 6-7/8" (44 mm to 175 mm); corner radius is 9/32" (7 mm). Made from 3/8" (9.5 mm) thick phenolic resin.

CAT. NO. TP078

TOPLIFE GLASS CUTTER AND ACCESSORIES

CAT. NO.	DESCRIPTION
TP2000	Toplife Glass Cutter
TP20450	Transverse Handle
TP7040	Heavy Glass Breaking Pliers
TP078	Corner Notching Template
TP2SET	Set of All Four Tools Above Plus 155˚ Wheel Holder

CRL Lateral Cut-Out System



CAT. NO. TP0782

CRL Lateral Cut-Out Template

- Perfect for Teller Window Openings
- Makes Cutting Hinge or Hardware Notches an Easy Task
- No Need to Drill Holes

NEW

The CRL Lateral Cut-Out Template is a labor saving device used for fabricating those "impossible" notches in glass up to 3/8" (10 mm) thick. Now any size three-sided notch between 13/32" by 1-9/16" (10 mm by 40 mm) minimum and 3-15/16" by 9-7/16" (100 mm by 240 mm) maximum can be made easily using this template. A 9/32" (7 mm) corner radius (the smallest recommended in order to avoid glass breakage) is produced while using our TP2000 Glass Cutter. The template is constructed from a synthetic resin and the finest hardware. It is secured to the glass by two built-in suction cups. There are also two adjustable depth stops that double as "runoff strips" for your cutting wheel. Ideal for the fabrication of window pass-thrus, shower door hinge notches, and just about any place a cut-out is needed.

CAT. NO.	DESCRIPTION
TP0782	Lateral Cut-Out Template
TP706	Precision Cut Opener
TP2000	Toplife Deluxe Glass Cutter
TP24494	Toplife 145° Wheel Holder
TP20450	Transverse Handle
TP5782	Lateral Cut-Out Kit Containing All Five Above

CRL Precision Cut Opener

- Makes Running Difficult Cuts Easy
- Lightweight and Easy to Handle

CAT. NO. TP706

The CRL Precision Cut Opener makes difficult cuts in glass up to 3/8" (10 mm) an easy task. Now 90° corners and three-sided lateral cut-outs can be made effortlessly. The pressure applied with this tool is efficient because the force to run your cut comes from the gradual turning of the fine threaded adjustment screw on the bottom of the unit. This means there are no sudden movements to accidentally break your glass. A run can be controlled to ensure a precise break every time. The pressure ring in the center of the TP706 can be rotated 360° for access to the most extreme position of any cut. Throat depth is 3-15/16" (100 mm).

CRL Thick Glass Cutter

- Easily Cuts Glass Up to 1" (25 mm) Thick
- Self-Trailing Cutting Head Works Great on Curved Cuts

NEW

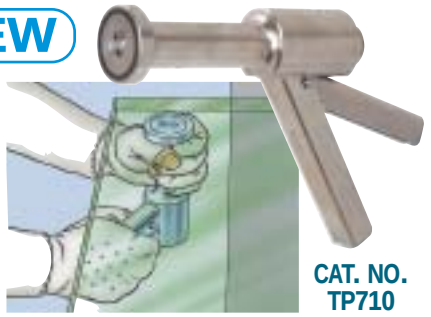
CAT. NO. TP2003

Cutting thick glass requires a steady hand while applying constant pressure. The unique shape of this cutter features a curved saddle which fits between your thumb and forefinger, creating a comfortable platform that allows the user to apply ample pressure and cut for extended periods of time without fatigue. The TP2003 features a high quality, impact-resistant plastic handle with a rounded cutting head. The wheel holder rotates 360° on a precision bearing, and has a self-trailing feature to assure it's always aligned with your straight edge. A 158° hone angle on the cutting wheel is suitable for glass thicknesses of up to 1" (25 mm) thick. The straight edge stand-off distance is 1/4" (6 mm). A great tool for anyone cutting multiple pieces of thick glass.

CRL Thick Glass Cut Opening Tapper

- One Shot Starts Your Run
- Powerful and Accurate

NEW



CAT. NO. TP710

The CRL Thick Glass Cut Opening Tapper operates on a spring driven bolt principle. This unique glass working tool opens and runs score lines in glass from 3/8" to 3/4" (10 mm to 19 mm) thick. No more using a tapping ball or small ball peen hammer; both which can be inaccurate and break or mar your glass.

The CRL TP710 features an industrial steel body that has a chemically-applied nickel coating. This finish helps to preserve and protect it from day-to-day abuse. The internal spring mechanism adjusts to regulate the tapping force from very light for thinner glass to a poweful punch for thick plate glass up to 3/4" (19 mm). This helps the user achieve the correct pressure for a clean run and break.

CRL Heavy Glass Cutting Oil

- Recommended for Thick Glass
- Splintered Glass is Bound

NEW

CAT. NO. TC058

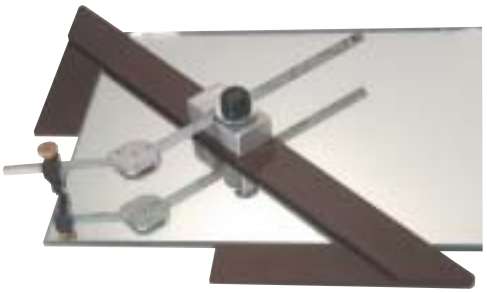
CRL Heavy Glass Cutting Oil is the only fluid recommended for lubricating your cutter when cutting glass 1/2" (12 mm) or thicker. This professional cutting fluid lubricates the cutting wheel and binds the glass dust created by scoring. Due to it's low viscosity, it creeps into the cut to delay the "healing process" of the glass. Water soluble and environmentally friendly, it comes in a convenient one liter (33 Fl. Oz) container.

CRL Corner Radius Cutter

NEW

- Makes Cutting Rounded Corners Simple
- Saves Grinding Time

The new CR09 Corner Radius Cutter takes all the calculating out of cutting perfectly round corners on glass and mirror. This template is designed to fit over a 90° corner. The radius cutter automatically centers itself every time you use it so there is no room for error. Adjustable from two separate points; the fulcrum of the cut and the actual radius. Depending on the application, a radius of 25/32" to 3-17/32" (20 mm to 90 mm) can be made just by a simple adjustment of the cutting turret. Cutting head has six steel wheels with a 135° hone angle, perfect for general use.



CAT. NO. CR09

CRL Segment Radius Cutter

- Cuts Arcs or Circles
- Cuts a Radius from 4" to 118" (102 to 2997 mm)

CAT. NO. TP2522

NEW

Have you ever needed to cut a circle or arc on the job site but didn't have circle cutter? Or did you ever need to cut part of a circle that had a radius larger than your circle cutter could cut? CRL TP2522 Segment Radius Cutter is capable of scoring circles over 19-1/2 feet (600 cm) in diameter! Fits in any tool box or even in your pocket. The TP2522 travels on two precision rollers that guide and stabilize it's cutting path to assure a smooth, consistent cut. Included is the CRL TP2000 Oil Glass Cutter for glass up to 1/4" (6 mm) thick, TP20450 Transverse Handle, protective storage case, and a complete instruction booklet to fully explain how to produce segments efficiently.

CRL Glass Scalloping Tool and Positioner

NEW

- Make Beautiful Scalloped Edges without Machinery
- Simple and Easy to Use

The CRL Glass Scalloping Tool and Positioner will produce a uniform scalloped edge on glass from 1/8" to 1" (3 mm to 25 mm) thick. The tool was designed to provide the user with the best possible edge while keeping the chips spaced evenly from each other. Depth and width of the scallops are fully adjustable, regardless of glass thickness. The unique positioning aid (included) keeps the tool in the correct position so the chip uniformity is remarkably consistent. The easiest to use of all scalloping tools available. A detailed instruction manual is included.

CAT. NO. ST719

CAT. NO.	DESCRIPTION
ST719	Scalloping Tool w/ Positioner
ST719RB	Replacement Bit

CRL Flexible Shape Templates

- Immediate Copying and Cutting of the Same Shape in Glass

NEW

Cat. No. FST1

With CRL Flexible Shape Templates copying and cutting irregular shapes is no longer a "guessing game". These Templates consist of a flexible metal band connected to individual metal segments. The segments are joined by wingnuts which, when tightened, hold the Template in it's desired shape. Suction cups fasten to these segments, holding it in place while cutting. Two different size Templates are available: the FST1 900 mm Template with three suction cups included, and the FST2 1800 mm Template with four suction cups included. Great for cutting arched entryways, windows, railings and escalator glass. Best when used with the CRL Toplife 2000 Glass Cutter with its free rotating, trailing cutting head (see page F282).

CAT. NO.	DESCRIPTION
FST1	35" (900 mm) Template w/3 Cups
FST2	70" (1800 mm) Template w/4 Cups
STH670	Suction Cups

CRL Squeeze and Pop Glass Cutter

- Versatile, Accurate and Rugged

NEW

- Cuts Glass Tubing from 1/4" to 3/4" (6 mm to 19 mm) in Diameter

The CRL Squeeze and Pop Glass Cutter is the perfect tool for cutting glass tubing such as gauge glass, neon sign glass, oil burner electrodes, porcelain insulators, thermocouple protection tubes and more. These pliers use the same unique cutting action used in cutting cast iron and cement pipe. Operation is simple: wrap the chain around the glass tube and hook the pin in the jaws. A slight turn and squeeze and your glass is cut. So accurate, cuts as small as 1/2" (12 mm) from the end of the tube can be made with ease. Handles are plastic coated for comfort.

CAT. NO. 69012

CRL Fletcher "Gold-Tip" Designer II Glass Cutters

• The Premium Line from Fletcher-Terry, Makers of Glass Cutting Tools Since 1868

Fletcher "Gold Tip" Designer II Series are high quality, fluid dispensing cutters that meet the exacting standards of the professional glazier. The entire series offers a Fiberlock™ anti-leak fluid dispensing system that lays down a perfect bead of cutting fluid for smooth, precise scores. Interchangeable heads that simply snap in and out are available for straight or pattern cutting. Tungsten carbide cutting wheels provide smooth, flake-free scores on flat glass and textured stained glass. Choose from a solid brass contoured handle, the lightweight ease of a clear plastic handle, or the comfortable feel of the pistol grip handle. Whichever you choose, you'll find the Designer II Series an unbeatable system for the glass professional.

Clear Plastic Contour Grip Handle

CAT. NO. 01711
Narrow head with 140˚ angle tungsten carbide cutting wheel for pattern cutting

CAT. NO.	HEAD TYPE
01711	140˚ Narrow

Solid Brass Contour Grip Handle

CAT. NO. 01712
Wide head with 140˚ angle tungsten carbide cutting wheel for straight edge cutting

CAT. NO. 01713
Narrow head with 140˚ angle tungsten carbide cutting wheel for pattern cutting

CAT. NO.	HEAD TYPE
01712	140˚ Wide
01713	140˚ Narrow

Clear Plastic Pistol Grip Handle

CAT. NO. 01714
Narrow head with 140˚ angle tungsten carbide cutting wheel for pattern cutting

CAT. NO. 01715
Wide head with 140˚ angle tungsten carbide cutting wheel for straight edge cutting

CAT. NO.	HEAD TYPE
01714	140˚ Narrow
01715	140˚ Wide

Replacement Tungsten Carbide Cutting Heads

CAT. NO. 03711 Straight Edge Cutting

CAT. NO. 03712 Pattern Cutting

CAT. NO. 03713 Thick Glass Cutting

CAT. NO.	HEAD TYPE
03711	140˚ Wide
03712	140˚ Narrow
03713	154˚ Thick Glass

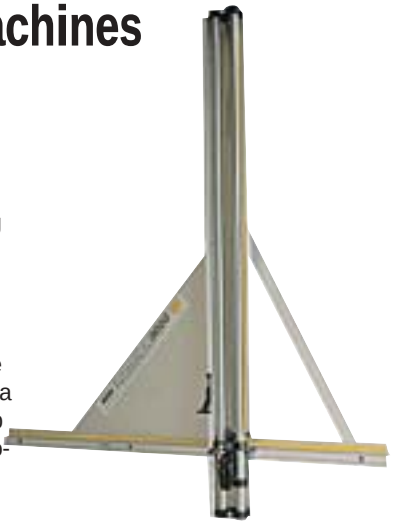
Replacement Heads can be combined for quantity pricing.

CRL Fletcher Glass Cutting Machines

• Unique Triple-Turret Cutting Assembly

• Cuts Glass, Plastic, Plexiglass and Matboard

A real time saver for glass shops, hardware stores, retail building supply centers, etc. This machine is built from sturdy anodized aluminum and offers unsurpassed quality when cutting matboard, plastic or glass. The unique three-position cutting turret allows switching from matboard to plastic to glass with only a quick turn. The super keen cutting blade will cut through matboard, cardboard or foamboard up to 1/4" (6 mm) thick. A steel wheel cutting unit is enclosed for scoring single and double strength glass—and thicker glass up to 1/4" (6 mm). In addition, a special scoring tip is included for scoring plastics and acrylics up to 1/4" (6 mm) thick. A simple press of the breakout lever will project twin rollers to apply pressure to each side of the score, producing a clean break.



EACH MACHINE INCLUDES:

20 Steel Glass Cutting Wheels
10 Plastic Cutting Blades
10 Mat Cutting Blades
Cleaning Brush
Mounting Hardware
Instruction Manual

CAT. NO.	DESCRIPTION
F04711	48" Cutting Machine
F04712	60" Cutting Machine
F04112	Measure Stop
F02120	120˚ Steel Wheel (10/pkg.)
F03126	124˚ Carbide Wheel (1/pkg.)
APB12	Plastic Cutting Blade (10/pkg.)

Minimum order on wheels and blades is one package.
Machines F.O.B. CRL warehouses.

CRL Circle and Oval Cutter

• Cuts Circles and Ovals from 9" to 48"

• Optional 72" Extension for Large Work

This is the largest capacity oval cutter available today. The design of the cutter uses six suction cups to secure it to your workpiece which prevents slippage during cutting. The new design of the 550CC utilizes the popular Toplife 2000 Glass Cutter (included). The Optional Extension allows large ovals to be cut up to six feet in length. There is also a Heavy Glass Cutting Wheel and Holder for thick glass. It's all packed in a custom aluminum carrying case.

CAT. NO.	DESCRIPTION
550CC	Circle and Oval Cutter
550NEXT	72" Extension Unit for New Style 550CC Cutters
TP2000	Toplife 2000 Deluxe Glass Cutter
TP24494	Toplife 145˚ Cutting Wheel Holder

CRL Fletcher Circle and Oval Cutter

• Cuts Small Circles and Ovals

Perfect for the glass shop that needs a circle and oval cutter combination. Ovals can be cut from a minimum of 4-1/2" (114 mm) to a maximum of 24" (609 mm). A 3" (76 mm) maximum offset between the two measurements is allowed. The largest circle that can be cut is 21" (533 mm). Unit secures to the glass by a small suction cup.

CAT. NO.	DESCRIPTION
F05221	Circle and Oval Cutter
F03131	Single Replacement Wheel (Carbide)

CRL Production Oil T-Cutter

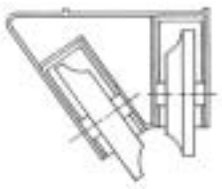
- **The Smoothest-Running, Fastest-Cutting, Easiest-To-Use Production Glass Cutter on the Market**
- **Available in 12", 24", 48" and 72" Models**
- **Features a Large Capacity Oil-Feed Cutting Head**

The ideal tool for the commercial sheet glass or mirror operation, large or small. Highly adaptable and quickly adjustable for odd-sized pieces. Runs along any straight edge of sheet glass on precision rollers that are adjustable and replaceable. Easy to read scale for adjusting cut dimension. Makes perfect cuts parallel to the guide edge. Large-capacity oil fed carbide wheel cutter means low maintenance and long service life.

CAT. NO. PTC1901

Holder and Cutting Head

CAT. NO. PTC1903



Guide Rollers

CAT. NO. PTC1902

Replacement Cutting Head

ACCESSORIES

CAT. NO.	DESCRIPTION
PTC1901	Replacement Holder and Cutting Head
PTC1902	Replacement Cutting Head Only
PTC1903	Replacement Roller and Housing

OIL T-CUTTERS

CAT. NO.	MODEL
PTC12	12" (305 mm) Oil T-Cutter
PTC24	24" (610 mm) Oil T-Cutter
PTC48	48" (1219 mm) Oil T-Cutter
PTC72	72" (1829 mm) Oil T-Cutter

CRL Toyo Custom-Grip Supercutter®

TC21SVR

The Custom-Grip Supercutter® saddle fits between the thumb and forefinger, allowing the fingers to remain straight, relieving them of strain while scoring. To fit all hand sizes, the saddle is adjustable to four different heights by reversing it and a bushing from the top and bottom. The Custom-Grip Supercutter® has a new spring-controlled oil flow system. Pressing down on the cutting head opens a valve and allows oil to flow, stopping completely when pressure is released. The new TAP Wheel™ has an axle bore with eight microscopic cams creating eight "taps" per revolution of the wheel. The result is longer wheel life and a clean, consistent score.

- **Adjustable Grip**
- **Improved Oil Control**
- **Tap Wheel™ Technology**

Tap Wheel™

CAT. NO.	DESCRIPTION
TC21SVR	Custom-Grip Supercutter w/Straight Head
TC21PVR	Custom-Grip Supercutter w/Pattern Head
TC21HSV	Replacement Straight Cutting Head
TC21HPV	Replacement Pattern Cutting Head

CRL Glass Break-Out Tools

BOT10

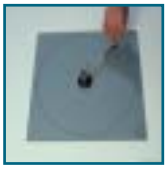
These CRL Break-Out Tools come with or without a cutting head, depending on the style you prefer using. The BOT10 appears to be a standard oil cutter, but further examination reveals a spring loaded "plunger". After placing the back end of the tool on the glass, you simply pull and release the plunger which causes a snapping action, breaking out your cut-out holes and circles. This method is faster and more accurate than others because you can see what you are doing from the top of your work, instead of "guessing" your position when tapping from the bottom.

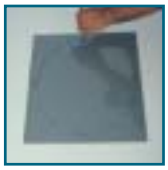
These tools fit right in your cutter pouch until needed for outlet holes, circles, shapes and just about anywhere you would normally use a "ball tapper" or similar tool. With the CRL BOT10, your cutter and breaker are built into one tool. Designed by a glazier, this high quality aluminum cutter is lightweight and built to last. The CRL BOT20 is the same tool as the BOT10, but doesn't have a cutting head. A "must have" tool for anyone who does break-out work.

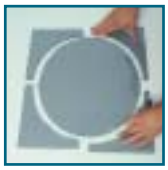
- **Easy to Use - Fits in Your Cutter and Pencil Pouch**
- **Speeds Common Break-Outs of Glass and Mirror**
- **Uses Standard CRL/Toyo Replacement Cutting Heads**

Break Out Outlet Holes

Break Out Circles and Shapes



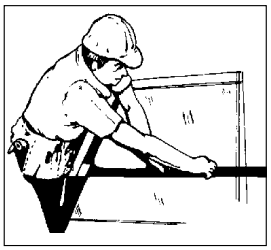


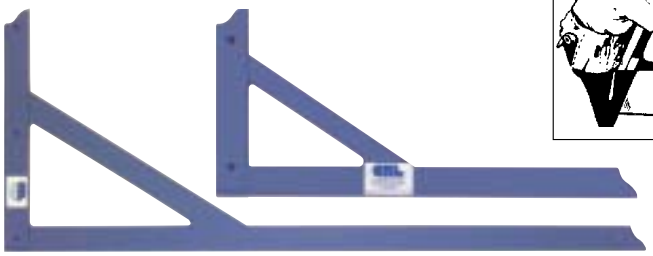


CAT. NO.	DESCRIPTION
B0T10	Break-Out Tool with Cutting Head
B0T20	Break-Out Tool without Cutting Head
41050	Replacement Cutting Head

CRL Phenolic "L" Squares

- Factory Calibrated for Accuracy





These inexpensive, durable CRL "L" Squares really do the job. Because they are made of high impact phenolic, they take a lot of on-the-job punishment without warping, and last a long time. L-Square Combo Sets are also available. Keep one in the shop, take one to the job site, and save money too!

MONEY SAVING "L" SQUARE COMBO SETS

CAT. NO.	DESCRIPTION
L4824C	48" and 24" "L" Square Combo Set
L6024C*	60" and 24" "L" Square Combo Set

*Over UPS size limits. Shipped motor freight only.

INDIVIDUAL "L" SQUARES

CAT. NO.	SIZE
L24	24" (609 mm)
L36	36" (914 mm)
L48	48" (1219 mm)
L60*	60" (1524 mm)

*Over UPS size limits. Shipped motor freight only.

CRL Phenolic Straight Edges

- Built to Last
- Won't Warp Like Wood

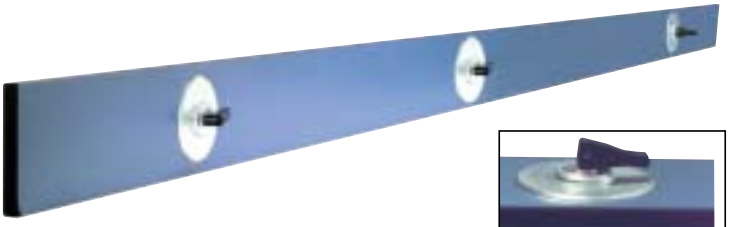
These tough Phenolic Straight Edges are built to last. They have no markings, but are accurate and easy to use. Used by leading glass companies, these high quality straight edges are valuable tools wherever glass is cut. All Straight Edges measure 3" wide by 7/16" thick.

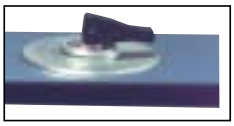
CAT. NO.	LENGTH
SEP48	48" (1219 mm)
SEP72	72" (1829 mm)
SEP96	96" (2438 mm)
SEP120*	120" (3048 mm)
SEP144*	144" (3658 mm)

*Over UPS size limits. Shipped motor freight only.

CRL Suction Cup Straight Edges

- Holds Securely to Glass Better Than Ever!
- Available in Five Lengths





The all-new CRL Suction Cup Straight Edge has been re-designed to hold to glass better then ever. Made from the same material as our popular CRL Phenolic Straight Edges, this glazier's tool is built to last. All new steel body suction cups have the best quality rubber pads available. Using these Straight Edges eliminates the need for clamps, tape or a second person. Suction cups are placed approximately 8" from each end of the edge. Each CRL Suction Cup Straight Edge is hand made in our factory to exacting specifications, and measures 3" wide by 7/16" thick.

CAT. NO.	NO. OF CUPS	LENGTH
VCR48	2	48" (1219 mm)
VCR72	3	72" (1829 mm)
VCR96	3	96" (2438 mm)
VCR120*	4	120" (3048 mm)
VCR144*	5	144" (3658 mm)

*Over UPS size limits. Shipped motor freight only.

CRL Offset Glass Pliers

- A Must for the Storefront Glazier
- Hardened Steel Jaws

Our Offset Glass Pliers are a must for the store-front glazier. Perfect for custom fits on the job site, they make trimming glass easy, even when the lite is already in a vertical position close to the ceiling. A real time and labor saver, they have hardened steel jaws and cushion-grip handles.

CAT. NO. 4000510

CRL Glass Chipping Tool

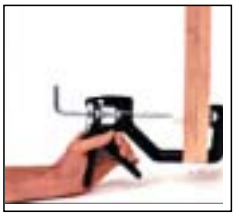
- New Design for Improved Results
- For Glass Up to 3/4" (19 mm) Thick

The CRL Glass Chipping Tool has undergone a "facelift". The improved design of the CT007 Glass Chipping Tool makes the creation of scalloped edges easier, with more consistent results on a variety of glass thicknesses. The carbon tool steel Chipping Point is sharpened on both ends, and will create a variety of scallop sizes by simply adjusting the "attack" angle of the tool and set-back from the glass.

CAT. NO.	DESCRIPTION
CT007	Glass Chipping Tool
CT007CP	Replacement Chipping Point

CRL Solo One-Handed "G" Clamp

- Ideal for Holding Straight Edges and "L" Squares



CAT. NO. 71004P

The Solo "G" Clamp has a patented design for use with only one hand. Use it to clamp "L" Squares or Straight Edges because it is quick and easy to set or remove. Works just like a caulking gun to set or release. Also great to use for gluing, sawing, and drilling work that needs a secure hold.

CRL Glass Running Pliers

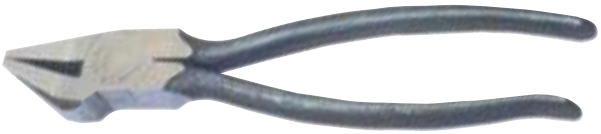
- Lightweight and Portable
- Plastic Jaws Won't Chip Glass

CAT. NO. GRP512

Finally a glass plier that is both lightweight and durable. The new GRP512 Glass Running Pliers are an excellent addition to any glazier's tool box. These all-aluminum pliers have a noticeably different and very comfortable feel to them the first time you pick them up. The high density plastic jaws will not chip or mar your glass like steel jaw pliers. Runs score lines in glass and mirror from 1/8" to 3/8" (3 mm to 10 mm) thick. They fit easily in a cutter pouch or in your pocket, and are light enough to carry around all day. Built to last, they will never rust. Overall length is 8-1/2".

CRL Drop Jaw Glass Pliers

- For Glass Up to 1/2" (12 mm) Thick



CAT. NO. RD1932

Machined to our exacting specifications, the RD1932's precision ground jaws support the glass, and at the same time, develops powerful leverage under slight pressure to cleanly sever glass to the cut line. The long 8-1/2" length will feel balanced and comfortable in your hand, even when breaking out 1/2" thick glass.

CRL Flare Jaw Glass Pliers

- Machined Jaws for Consistent Breaks

CAT. NO. RD1935

The 8-1/4" overall length and 15/16" wide flared jaws of the RD1935 are preferred by many professional glaziers. The RD1935's jaws are machined with great attention to the tips to be sure that there is no gap between them when closed, ensuring that they are perfectly parallel. That means cleaner, more consistent breaks for you.

CRL Glass Chip Brush

NEW

- Safe and Effective Way to Clean Up Glass Chips and Splinters

CAT. NO. TG070

The glass splinters on cutting tables can not only cause scratches on the next glass pane you want to cut, but you also bear the risk that you get them stuck in your hands. The solution is the CRL Glass Chip Brush. You brush over the cutting table's surface and the little mechanical roller brush collects all splinters inside the plastic body. The body can then be opened and the glass chips thrown into the waste bin. An indespensible little helper for a proper work area.

CRL Power Breaker Set for Thick Glass

- Pistol Grip Cutter has Special "Tap Wheel™"
- For Running Score Lines in Glass Up to 3/4" Thick

The Power Breaker Set lets you run score lines in glass up to 3/4" (19 mm) thick. Excellent for glass table tops, mall front glass, etc. All metal Power Breaker Tool has a thickness adjustment screw with nylon tip and glides to protect the glass, and vinyl dipped handles for a sure grip. Compound action mechanism for precise application of pressure. Comes with Deluxe Pistol Grip Oil Cutter with special Thick Glass Cutting Head. Cutter and Replacement Heads also available separately.

CAT. NO.	DESCRIPTION
TC60019	Power Breaker and Pistol Grip Oil Cutter Set
TC600SVB	Thick Glass Pistol Grip Oil Cutter
TC600HSV	Replacement Thick Glass Cutter Head

CRL Glass Cutter Oil

Our Glass Cutter Oil works equally well in hand glass cutters and production glass machines. No-mix formula is ready to use, providing extended wheel life. The 4 ounce size is most convenient; larger sizes are more economical.

CAT. NO.	DESCRIPTION
W4104	4 Fl. Oz.
W410QT	1 Quart
W410GL	1 Gallon
W4105GL	5 Gallons
W41055GL	55 Gallons

CRL Round Edge Template Guide

NEW

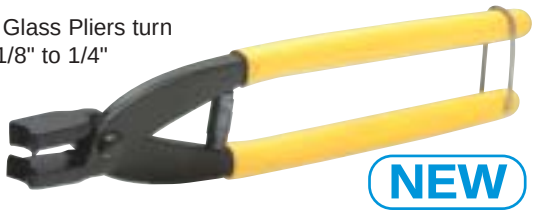
- Make Consistent Radius Corners Easier Than Ever
- Choose from 12 Radii (10 to 70 mm)
- Slip Resistant Rubber Pads

CAT. NO. RET12

The CRL Round Edge Template Guide gives you 12 radii (10 to 70 mm) to pick from to allow you to score precise, repetitious cuts for table tops, shelves, automotive glass, mirrors and more. Manufactured in a tough, durable material, the RET12 features four rubber, slip resistant pads that not only keeps the Template in place during use, but also reduces the risk of scratching the glass.

CRL Corner Nipper Glass Pliers

- Makes Ready-to-Finish Radius' on 90° Corners
- Simple One Step Operation
- Four Different Radius' Available



NEW

CRL Corner Nipper Glass Pliers turn a square cut piece of 1/8" to 1/4" (3 mm to 6 mm) glass or mirror into a round corner in one single "bite". When properly positioned, the hardened carbide steel jaws easily remove glass and leave a rounded edge. Light grinding with a belt machine is all that is needed to finish the corner. No cutting or breaking is involved. Great for desk tops, shelving, partitions, displays and wherever else a round corner is needed. Automatic internal stops prevent the jaws from ever touching. Removable spring holds the jaws in the open position so they are always ready to use. Four sizes available; 10 mm, 20 mm, 30 mm and 40 mm radius.

CAT. NO.	RADIUS
CNP10	3/8" (10 mm)
CNP20	3/4" (20 mm)
CNP30	1-3/16" (30 mm)
CNP40	1-9/16" (40 mm)

CRL Quick Draw Mirror Outlet Cut-Out Templates

- Reduces Layout Time and Increases Accuracy

Three Templates for Drawing Six Cut-Outs

- 2" Hole
- 3" Hole
- Single Cut-Outs
- Double Cut-Outs
- Triple Cut-Outs
- Quad Cut-Outs

These clear, high impact acrylic templates were designed to simplify drilling cut-outs in glass and mirror. The non-skid bumpers adhered on the underside prevent slippage and scratches. The hole in the corner lets you hang the templates in a convenient location near the cutting table. Select one of the three templates in the set when drilling for switch, decora, duplex, T.V. cable, telephone cable, thermostat and more.

COMPLETE SET OF THREE TEMPLATES

CAT. NO. QD1

CRL Stabilo Pens

- Designed for Marking on Glass
- Quick Drying Permanent Ink

These CRL Stabilo Marking Pens are designed expressly for marking on glass. They are quick drying and easy to read because of the broader soft tip. Your marks will not rub off under normal contact, but can be removed if necessary. CRL Stabilo Pens are also great for marking cut lines or patterns on stained glass.

CAT. NO.	COLOR	QTY/BOX
76P40	Red	12
76P46	Black	12

Colors can be combined for quantity pricing.

CRL Glass Slicker

- Deposits Thin Film of Oil on Glass
- Aids in Cleaner, Smoother Cut and Break

CAT. NO. GLS1

Our Glass Slicker is an innovative and inexpensive way to increase productivity and prolong cutter life. By drawing the Glass Slicker along the straight edge, the glass is wiped clean. At the same time, a thin film of oil is deposited on the glass. This helps to prevent "hot cuts" and skips resulting in a cleaner, smoother cut and break. The Glass Slicker is impregnated with light oil and can be refilled with CRL W410 Cutting Oil. Also use to lubricate panic hardware, hinge pins or other hardware.

CRL Diamond Band Saw

- Precision Diamond Blade for Glass and Craft Materials
- A Favorite of Stained Glass Hobbyists

The CRL Diamond Band Saw is ideal for the stained glass hobbyist. The saw has a variable speed motor and a cutting speed of 8" to 10" per minute. Maximum glass thickness is 1/4" (6 mm). Minimum cutting radius of 3/16"; maximum cutting radius of 5". Weighs 18 pounds and can be shipped U.P.S.

CAT. NO.	DESCRIPTION
DTB1000	Diamond Band Saw
DTB201	36" Replacement Diamond Coated Blade
GF1	Ground Fault Interrupt Circuit Device

F.O.B. CRL Warehouses.

CRL Diamond Laser Band Saw

- The Professional Diamond Blade Wet Saw Makes Both Straight and Pattern Cuts
- Straight Edge/Miter Guide
- 24" by 24" Cutting Table
- Cuts Glass, Plastics, Tile, Marble, Granite and Soft Metals

The Diamond Laser Band Saw has a variable speed motor and a recirculating water pump. Use it to cut glass, tile, marble and granite. Minimum cutting radius of 1/2"; maximum cutting radius of 12". Cutting speed 40" to 80" per minute.

CAT. NO.	DESCRIPTION
DTB5000	Diamond Laser Band Saw
DTB101	62" Replacement Diamond Coated Blade
GF1	Ground Fault Interrupt Circuit Device

F.O.B. Tampa, FL.

GFI Warning: As with all wet working glass tools, CRL recommends installing a Cat. No. GF1 Ground Fault Interrupt Circuit Device when operating a DTB1000 or DTB5000.

CRL Window Fabricator's Harp Rack

- Two Styles: Single Lites or I.G. Units
- Numbering System for Easy Sorting

CRL offers the most durable and functional Harp Rack in the marketplace. Two styles to choose from: the 100 slot single lite style with 3/8" (10 mm) wide slots; the 60 slot insulating glass style with 1-1/8" (29 mm) slots. Both styles are constructed of heavy-duty tubular steel with an all welded frame and base. The rack is mounted on five heavy-duty swivel casters for ease of movement and safe center support of rack load. Both racks use ultra high density P.V.C. flooring that is extremely durable.

A slot numbering system is included that can be used with all cutting systems and software packages for easy sorting at the break-out operation. Shipped essentially assembled, the user need only unfold the unit and attach casters to frame.

CAT. NO.	MAX. CAPACITY	DESCRIPTION
R100RACK	3000 Lbs.	100 Slot Single Lite Harp Rack
R60RACK	3000 Lbs.	60 Slot Insulating Glass Unit Harp Rack

F.O.B. Red Oak, TX.

CRL 6' x 8' Compact Glass Cutting Table

- Ideal for Smaller Shops with Limited Space
- Includes Carpeted Top and Retractable Wooden Toes
- Same Efficient Design as Our Larger Tables

The CBT6X8 offers the safe one-person glass loading, level top cutting and break-out that glaziers need. The casters let you move, rotate and store this table without difficulty. A high density wood top is covered with a long wearing, no scratch black carpet which provides an excellent cutting surface with easy to see visibility of score lines. Frame is welded tubular steel with high quality enamel paint. Basic table includes: three casters, two foot-actuated floors locks, retractable wooden toes and a carpeted top. Options available: 6' Manual Break Bar; Economy Air Flotation.

CAT. NO.	DESCRIPTION
CBT6X8	6' x 8' (1828 mm X 2438 mm) Compact Glass Cutting Table
MBB	Optional Break Bar
EAF	Optional Air Flotation

F.O.B. Red Oak, TX.

See our Big Red Master Catalog for a larger variety of glass handling racks and cutting tables.
For selection assistance contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail techsales@crlaurence.com.

CRL Mirror and Glass Notching Saw

- **Battery Powered - Completely Self Contained**
- **Makes Plunge Cuts and Edge Cuts**
- **Refillable Coolant Canister**

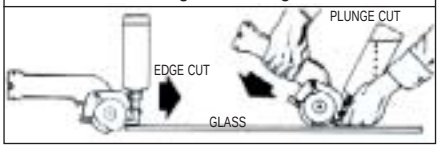
CAT. NO. NS3000

Standard Equipment Includes:
Rechargeable battery cartridge, battery charger, blade wrench, 3-5/8" combination blade. Full instructions for use included.

The CRL NS3000 Mirror and Glass Notching Saw Kit was developed exclusively for the glass industry. The included Diamond Blade is perfect for glass and mirror up to 3/4" (19 mm) thick, and can be used to make edge or plunge cuts, so corner notches or outlet plate cut-outs can be made with similar ease and convenience. The Blade can be changed quickly and easily, requiring the loosening of only one bolt. By keeping an extra Battery Cartridge charged and on hand, you can work virtually non-stop. And since it is cordless, you can take the NS3000 almost anywhere, and never have to worry about where you'll plug it in.

NOTE: Always use with a proper solution of Diamond Tool Coolant. **Never Cut Dry!**

Makes Edge and Plunge Cuts



REPLACEMENT BLADES AND ACCESSORIES

CAT. NO.	DESCRIPTION
NS3B	Diamond Smooth Cut Glass Blade
7249508C	Diamond Tile Cutting Blade
DTC80Z	8 Oz. Diamond Tool Coolant
1131032	9.6 Volt Battery Charger
6320074	9.6 Volt Nickel-Cadmium Battery Cartridge

CRL Plated Diamond Saw Blades

CRL Plated Diamond Saw Blades are very durable and especially useful for hand held saws. They are quite thin, resulting in minimal removal and fast cutting speeds. Plated Blades work well on glass, mirror, and laminated glass. Use CRL Diamond Tool Coolant to prolong blade life. Plated Blades offer low cost, good finish, and moderate lifespan. Direct the water/coolant at contact point. DBF and DBM are used on the CRL ADGS 18-volt Cordless Saws.

CAT. NO.	TYPE	SIZE	ARBOR	DIAMOND	THICKNESS CORE/RIM
DBF	Plated	5-3/8"	10 mm	220 Grit	.020"/.030"
DBM	Plated	5-3/8"	10 mm	100 Grit	.020"/.030"
DB6P58	Plated	6"	5/8"	100 Grit	.025"/.033"
DB8P58	Plated	8"	5/8"	100 Grit	.025"/.035"
DB10P58	Plated	10"	5/8"	100 Grit	.032"/.042"

CRL Metal Bond Diamond Saw Blades

CRL Metal Bond Diamond Saw Blades are a multi-layer product which continue to expose fresh diamond as the blade wears. Ideal for production use where edge finish is not critical, or where a second finishing operation is performed. Metal Bond Blades offer the best life, producing medium finish. Re-sharpen as necessary with a sharpening stone. Also cuts ceramic, marble, and similar materials. NS3B is used on our NS3000 Notching Saws.

CAT. NO.	TYPE	SIZE	ARBOR	DIAMOND	THICKNESS CORE/RIM
NS3B	Metal Bond	3-3/8"	9/16"	100 Grit	.023"/.033"
DB6MB58	Metal Bond	6"	5/8"	100 Grit	.045"/.063"
DB8MB58	Metal Bond	8"	5/8"	100 Grit	.045"/.063"
DB10MB58	Metal Bond	10"	5/8"	100 Grit	.045"/.063"
DB12MB58	Metal Bond	12"	5/8"	100 Grit	.055"/.073"

CRL Resin Bond Diamond Saw Blades

CRL Resin Bond Diamond Saw Blades use a softer bond to allow for the fine grit sizes recommended for use in chop saws and precision equipment. Resin Bond Diamond Blades offer the best finish, less chipping, and can eliminate secondary grinding applications. Full 9/32" diamond depth Resin Bond Blades are more "forgiving" than other blades. Use with straight water to cool. Blades listed are the most popular. Also available in different diameters, grits, concentrations and arbor sizes. 50 concentration provides best finish at a slower cutting rate and shorter blade life, compared to 75 concentration, which cuts faster.

CAT. NO.	TYPE	SIZE	ARBOR	CONCENTRATION	DIAMOND	THICKNESS CORE/RIM
DBR1022050	Resin Bond	10"	3/4"	50	220-250 Grit	.036"/.050"
DBR1022075	Resin Bond	10"	3/4"	75	220-275 Grit	.036"/.050"
DBR1222050	Resin Bond	12"	3/4"	50	220-250 Grit	.045"/.070"
DBR1222075	Resin Bond	12"	3/4"	75	220-275 Grit	.045"/.070"
DBR1422050	Resin Bond	14"	3/4"	50	220-250 Grit	.055"/.070"
DBR1422075	Resin Bond	14"	3/4"	75	220-275 Grit	.055"/.070"

CRL Amazing Glazing® Diamond Glass Saw

- **Powerful 18 Volt Cordless Saw**
- **Cuts Glass Up to 3/4" (19 mm) Thick**

CRL introduces the next generation Glass Saw. Our modified DeWalt Saw quickly cuts glass, including laminated glass, leaving a beautiful, chip free finish. This amazing saw will plunge, straight, and angle cut thin and thick glass with power to spare.

The ADGS utilizes our proven pressurized coolant system with an easy disconnect feature. It has a polycarbonate base to provide a smooth cutting surface. Special Fine Diamond Glass Blades (Cat. No. DBF included with kit) are 5-3/8" diameter, and provide a beautiful finish cut. Use optional Medium Grit Blades (Cat. No. DBM) to increase travel speed where edge quality is less important.

The CRL Diamond Glass Saw System includes our modified Diamond Saw, 18 Volt Battery, Charger, Diamond Fine Glass Blade, Diamond Tool Coolant and Pressurized Coolant System.

CAT. NO.	DESCRIPTION
ADGS	18 Volt Cordless Diamond Glass Saw System
DBF	5-3/8" Fine 220 Grit Diamond Blade
DBM	5-3/8" Medium 100 Grit Diamond Blade
DW9095	18 Volt DeWalt Battery Cartridge

CAT. NO. ADGS Complete System

ADGS modifications have been approved by DeWalt.

CRL Cordless Compound Bevel and Miter Saws

- **Precise Multi-Material Miters to Any Angle**
- **18 Volts of Cordless Power**

This CRL TMB100 18V DC Bevel and Miter Saw is designed for the professional glass and mirror installer. Cuts glass and wood with total portability and 18 volts of long lasting power. The Bosch™ powered Cordless Compound Miter Saw can cut 2", 3" and 4" beveled mirror strips up to a 48° angle using a special smooth-cutting 10" Diamond Blade and custom coolant delivery system. Change to the included 40 tooth, Carbide Wood Cutting Blade and make smooth trim cuts of all your moldings and 2 x 4's for general construction purposes. Wood composites and plastics can also be cut using this blade. A quick release material clamp holds your stock in place while cutting for added stability and accuracy. Electric brake slows motor after cuts. Sliding fence gives added support when cutting taller materials. Built-in handle makes carrying the saw easy. The TMB100 Saw makes a wide range of precision cuts: Straight 90°, Bevels -2° to 48°. Miter stops are set at 0°, 15°, 22.5°, 31.6°, 45° and will extend to 48° both left and right. Miter stop override feature allows precise cuts for all angles.

Included with the CRL TMB100 Saw: 8 oz. Diamond Tool Coolant, 10" Resin Bond Diamond Blade, 1 gallon Pressurized Coolant Delivery Tank with Quick Disconnects, Coolant Collection Tray, Special Coolant Manifold, 120 and 400 Grit Diamond Hand Pads, Sharpening Stone, 10" 40 Tooth Carbide Wood Blade, Dust Bag, Blade Wrench, Allen Keys, two 24 Volt Batteries, Extension Wings w/ Stop, Battery Charger and instruction booklet.

The CRL TMB200 is designed for cutting non-ferrous metals and wood. This version cuts J-Channel, shower door headers and storefront sash. Using the wood blade, 140 cuts in 1" by 6" pine can be made on a single charge. Includes a 150 tooth Semi-High Speed Metal Cutting Blade, a 40 tooth Carbide Wood Cutting Blade, and a Grease Stick for lubrication.

CAT. NO.	DESCRIPTION
TMB100	18 Volt Cordless Glass, Metal, Plastic, Wood Saw
TMB200	18 Volt Cordless Metal, Plastic, Wood Saw
B10DB	10" Resin Bond Diamond Replacement Saw Blade
SHS10X150	10" Semi-High Speed 150 Tooth Replacement Saw Blade

CAT. NO. TMB100
For Glass, Metal, Plastic and Wood Cutting

CAT. NO. TMB200
For Metal, Plastic and Wood Cutting

CRL Production Diamond Glass Drilling Machine

- **Variable Speed, High Torque D.C. Motor**
- **Drills Holes Faster and More Precisely Than Any Other Portable Glass Drilling Machine**
- **Precise Twin Post Design**
- **Built-in Water Coolant Chuck**
- **Locking Vacuum Cup Base**
- **Accepts Belgian Thread Diamond Drills; 1/8" to 4" (3mm to 102mm) in Diameter**

The CRL AMZ1 Production Diamond Glass Drilling Machine drills 1/8" to 4" (3mm to 102mm) holes faster and more precisely than any other portable glass drilling machine. In comparison to other machines on the market, drilling a 2" hole in 1/4" (6mm) mirror can be done in less than ten seconds while using a properly dressed drill bit (tests done under controlled conditions).

Make the move up from steel and brass tube drills, and their messy silicon carbide slurry, to the technically advanced Belgian Mount Multi-Layer Metal Bond Drills with the AMZ1. The AMZ1 is also loaded with popular features, and durable enough to give you years of dependable service.

The AMZ1 ships already set up for use with 110V AC power, and includes a grounded plug for use with a Ground Fault Interrupt Circuit. NOTE: We recommend ground fault outlets on all Glass Drilling Machines. See CRL Cat. No. GF1 on page F304.

Standard Accessories:
12 Foot Heavy-Duty Power Cord
Externally Serviceable Motor, Brushes and Fuse
Coolant Retaining Ring
Coolant Chuck with Supply Hose
Built-In Handle for Easy Carrying
Wrenches
Complete Operation Manual

Our new Conversion Collet, Cat. No. AMZ229, lets you use any of your existing 3/8" shank diamond drills in the AMZ1. This breakthrough in glass working equipment makes your transition to Belgian Mount Metal Bond Diamond Drills easy. Also, it gives you the advantage of using one of the most advanced drilling machines available, which means more accuracy and cleaner holes.

Another new option available for the AMZ1 is our Base Ring with Drain Tube, Cat. No. AMZ228. This great device lets you recycle your coolant to a container located below your work table. No more unnecessary spilling of coolant which could cause the floor to become slippery, or make it dangerous to work around electricity.

CAT. NO. AMZ1
F.O.B. CRL Warehouses

Optional Pressure Tank Supply
CAT. NO. AMZ200

Accepts Threaded Belgian Mount Drills, Countersinks and Spot Facers

Optional Base Ring w/Drain Tube
CAT. NO. AMZ228

Optional Straight Shank Conversion Collet
CAT. NO. AMZ229

Electronic Variable Speed Control

Center Fed Coolant Chuck

Twin Vertical Guide Posts

Locking Rubber Vacuum Base Cups

CRL Amazing Glazing® Metal Bond Diamond Drills

- **Designed for High Volume Glass Fabrication**
- **3/8" Diamond Matrix Depth**

CRL Metal Bond Diamond Drills can be used in portable glass drilling machines. They are especially suited for high production equipment with water coolant chucks, such as the CRL AMZ1 or double opposed drilling machines. Sizes range from 3mm to 4".

Magnified View of Diamond Crystals

STRAIGHT SHANK TYPE CAT. NO.	BELGIAN SHANK TYPE CAT. NO.	SIZE (FRACTIONAL)	SIZE (METRIC)
PD3MM	PDT3MM	———	3mm
PD18	PDT18	1/8"	4mm
PD316	PDT316	3/16"	5mm
PD6MM	PDT6MM	———	6mm
PD14	PDT14	1/4"	6.5mm
PD516	PDT516	5/16"	8mm
PD9MM	PDT9MM	———	9mm
PD38	PDT38	3/8"	10mm
PD716	PDT716	7/16"	11mm
PD12MM	PDT12MM	———	12mm
PD12	PDT12	1/2"	12.7mm
PD13MM	PDT13MM	———	13mm
PD916	PDT916	9/16"	14mm
PD58	PDT58	5/8"	16mm
PD1116	PDT1116	11/16"	17mm
PD34	PDT34	3/4"	19mm
PD20MM	PDT20MM	———	20mm
PD1316	PDT1316	13/16"	21mm
PD78	PDT78	7/8"	22mm
PD24MM	PDT24MM	———	24mm
PD25MM	PDT25MM	———	25mm

STRAIGHT SHANK TYPE CAT. NO.	BELGIAN SHANK TYPE CAT. NO.	SIZE (FRACTIONAL)	SIZE (METRIC)
PD1	PDT1	1"	26mm
PD27MM	PDT27MM	———	27mm
PD118	PDT118	1-1/8"	29mm
PD11316	PDT11316	1-3/16"	30mm
PD114	PDT114	1-1/4"	31mm
PD32MM	PDT32MM	———	32mm
PD138	PDT138	1-3/8"	35mm
PD112	PDT112	1-1/2"	38mm
PD134	PDT134	1-3/4"	45mm
PD2	PDT2	2"	51mm
PD218	PDT218	2-1/8"	54mm
PD214	PDT214	2-1/4"	57mm
PD212	PDT212	2-1/2"	63mm
PD234	PDT234	2-3/4"	70mm
PD3	PDT3	3"	76mm
PD314	PDT314	3-1/4"	83mm
PD312	PDT312	3-1/2"	89mm
PD334	PDT334	3-3/4"	96mm
PD100MM	PDT100MM	———	100mm
PD4	PDT4	4"	102mm

Fractional size shown is closest to metric size. All CRL Diamond Drills may be combined for quantity pricing.

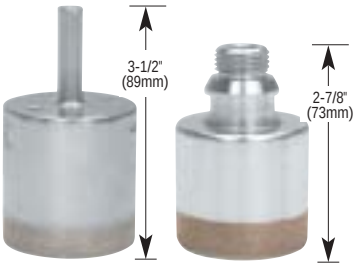
RECOMMENDED OPERATING SPEEDS FOR ALL DIAMOND DRILLS ON THIS PAGE

SIZE (MM)	RPM RANGE	SIZE (MM)	RPM RANGE
3-4	6000	26-28	1800
5-8	4500	29-44	1500
9-12	3000	46-64	1200
13-16	2500	65-89	900
17-25	2000	90-102	800

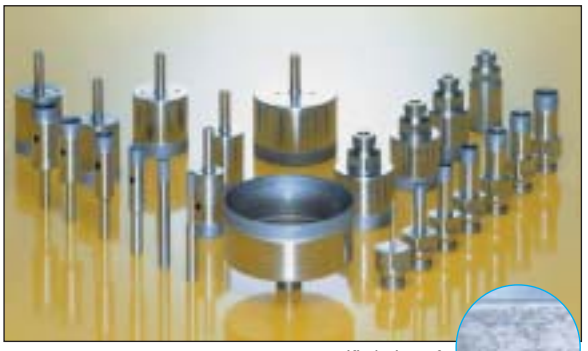
These are ideal speeds for different diameters. You may vary somewhat with acceptable results. Drills can also be used with standard 1300 RPM machines, but drilling time is increased on small diameter holes.

CRL Electro-Formed Diamond Drills

- **For Fast Cutting, High Production Runs**
- **Long Work Life**
- **Two Mounting Styles to Choose From**



Straight Shank Belgian Thread



Magnified View of Diamond Crystals

CRL Electro-Formed Diamond Drills are thin-walled, with a 1/2" deep multi-layer of diamonds and bonding matrix designed for high speed, high production drilling. These drills give outstanding performance when exacting conditions are met.

The fragile nature of this type of drill requires use in a precision drilling machine, care in handling the drill, and never applying too much pressure. Sharpening of these drills as required will keep up top speed production.

STRAIGHT SHANK TYPE

CAT. NO.	DRILL DIAMETER
DCD14	1/4"
DCD516	5/16"
DCD38	3/8"
DCD716	7/16"
DCD12	1/2"
DCD58	5/8"
DCD34	3/4"
DCD78	7/8"
DCD1	1"

STRAIGHT SHANK TYPE

CAT. NO.	DRILL DIAMETER
DCD114	1-1/4"
DCD112	1-1/2"
DCD134	1-3/4"
DCD2	2"
DCD214	2-1/4"
DCD212	2-1/2"
DCD234	2-3/4"
DCD3	3"
DCD312	3-1/2"
DCD4	4"

BELGIAN SHANK TYPE

CAT. NO.	DRILL DIAMETER
HBT332	3/32"
HBT18	1/8"
HBT316	3/16"
HBT14	1/4"
HBT516	5/16"
HBT38	3/8"
HBT716	7/16"
HBT12	1/2"
HBT916	9/16"
HBT58	5/8"
HBT34	3/4"
HBT1316	13/16"
HBT78	7/8"

BELGIAN SHANK TYPE

CAT. NO.	DRILL DIAMETER
HBT1	1"
HBT114	1-1/4"
HBT138	1-3/8"
HBT1716	1-7/16"
HBT112	1-1/2"
HBT134	1-3/4"
HBT2	2"
HBT214	2-1/4"
HBT212	2-1/2"
HBT234	2-3/4"
HBT3	3"
HBT312	3-1/2"
HBT4	4"

All CRL Diamond Drills may be combined for quantity pricing.

CRL Amazing Glazing® Plated Diamond Drills

- Unique Aggressive Sawtooth Profile
- Our Most Durable Style Drill
- Diameters from 1/8" to 4-1/2" (3mm to 114mm)

Famous CRL Amazing Glazing Plated Diamond Drills, with their special sawtooth design, are perfect for use in portable tripod and cup style machines. Use with DTC80 Diamond Tool Coolant and submerge in a retaining ring for best results. Although plated, these drills may be sharpened one time after they are totally worn out to expose some of the remaining diamonds. Cut your cost per drill when you order in sets.

Magnified View of Diamond Crystals

2" and larger diameter drills can be re-coated. See next page.

CAT. NO.	DRILL DIAMETER
AG18	1/8"
AG316	3/16"
AG14	1/4"
AG516	5/16"
AG38	3/8"
AG716	7/16"
AG12	1/2"
AG916	9/16"
AG58	5/8"
AG1116	11/16"
AG34	3/4"
AG1316	13/16"
AG78	7/8"
AG1	1"
AG118	1-1/8"

CAT. NO.	DRILL DIAMETER
AG11316	1-3/16"
AG114	1-1/4"
AG138	1-3/8"
AG112	1-1/2"
AG134	1-3/4"
AG2	2"
AG218	2-1/8"
AG214	2-1/4"
AG212	2-1/2"
AG234	2-3/4"
AG3	3"
AG312	3-1/2"
AG4	4"
AG412	4-1/2"

All CRL Diamond Drills may be combined for quantity pricing.

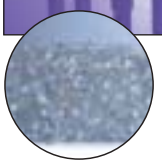
MONEY SAVING DRILL SETS

CAT. NO.	DRILLS	DIAMETERS
AGSET1	5	1/4", 1/2", 3/4", 1", 2"
AGSET2	8	AGSET1 + 3/8", 5/8", 2-1/4"
AGSET3	12	AGSET2 + 1/8", 1-1/4", 1-1/2", 4"

CRL Standard Plated Diamond Drills

- Durable and Cost Efficient
- Available in Sizes from 1/8" to 6" (3mm to 152mm)
- Smooth Continuous Rim
- For Tripod and Cup Style Drilling Machines

These Standard Plated Diamond Drills are designed for a cost effective method of general glass drilling. Sturdy solid steel construction of these drills allow quick hole drilling with clean break-outs. All sizes of CRL Standard Plated Diamond Drills have 3/8" diameter shanks. Although plated, these drills may be sharpened one time after they are totally worn out to expose some of the remaining diamonds and extend their work life. Cut your cost per drill when you order in sets.



Magnified View of Diamond Crystals

2" and larger diameter drills can be re-coated. See next page.

CAT. NO.	DRILL DIAMETER
EDD18	1/8"
EDD316	3/16"
EDD14	1/4"
EDD516	5/16"
EDD38	3/8"
EDD716	7/16"
EDD12	1/2"
EDD58	5/8"
EDD34	3/4"
EDD78	7/8"
EDD1	1"
EDD26MM	26mm
EDD118	1-1/8"
EDD30MM	30mm
EDD114	1-1/4"
EDD112	1-1/2"
EDD134	1-3/4"

CAT. NO.	DRILL DIAMETER
EDD2	2"
EDD218	2-1/8"
EDD214	2-1/4"
EDD212	2-1/2"
EDD234	2-3/4"
EDD3	3"
EDD314	3-1/4"
EDD312	3-1/2"
EDD334	3-3/4"
EDD4	4"
EDD412	4-1/2"
EDD5	5"
EDD6	6"

All CRL Diamond Drills may be combined for quantity pricing.

MONEY SAVING DRILL SETS

CAT. NO.	DRILLS	DIAMETERS
DDK5	5	1/4", 1/2", 3/4", 1", 2"
DDK8	8	DDK5 SET + 3/8", 5/8", 2-1/4"
DDK12	12	DDK8 SET + 1/8", 1-1/4", 1-1/2", 4"

CRL Short Run Plated Diamond Drills

- For Lower Production Drilling Requirements
- Single Layer Diamond Impregnation for Savings

CRL Short Run Plated Diamond Drills are made with the same process as CRL Standard Plated Drills, but with less diamonds per drill. These drills are the choice for an economical method of fabricating special jobs that do not require high yields of holes. CRL Short Run Plated Diamond Drills should always be used with DTC80 Coolant mixture and a retaining ring. Five of the most popular sizes to choose from. You save when you buy the complete drill set.

LOW LOW PRICES!

CAT. NO.	DRILL DIAMETER
SRDD14	1/4"
SRDD12	1/2"
SRDD34	3/4"
SRDD1	1"
SRDD2	2"

All CRL Diamond Drills may be combined for quantity pricing.

MONEY SAVING FIVE DRILL SET

CAT. NO.	DIAMETERS
SRK5	One of each 1/4", 1/2", 3/4", 1", 2"

RECOMMENDED OPERATING SPEEDS FOR ALL CRL PLATED DIAMOND DRILLS

SIZE	RPM RANGE
1/8" - 1/2"	1600 - 2000
9/16" - 1"	1400 - 1600
1-1/8" - 2"	1100 - 1400
2-1/8" - 3"	900 - 1100
3-1/4" - 4"	700 - 900
4-1/2" +	500 - 700

These are the ideal speeds for drilling various diameters with CRL Plated Diamond Drills. Acceptable results may also be achieved by varying your drilling speeds. CRL Standard Plated Diamond Drills may also be used in standard 1300 RPM drill machines.

CRL Plated Diamond Drill Re-Coating Exchange

• Send Us Your Old 2" (51mm) or Larger Plated Drill Cores and Save

• We Re-Coat with the Same High Quality Diamonds

Now you can save on your plated diamond drill costs by recycling them through the CRL Plated Diamond Drill Re-Coating Exchange Program.

Just send your worn out plated diamond drills to our Los Angeles corporate headquarters and we will send back a re-coated drill of the same size and type the same day we receive yours. Worn diamond drills submitted must be at least 2" in diameter, without dents or flat spots, and without badly "chewed-up" shanks. Both smooth edge styles, such as CRL EDD Series, as well as sawtooth edge style CRL Amazing Glazing Plated Drills may be exchanged. Be sure to package them carefully and mark the package clearly with your company name and address. Simply ship them to:
C.R. Laurence Co., Inc. Re-Coat Program, 2503 E. Vernon Ave., Los Angeles, CA 90058

Before

After Re-Coating

AVAILABLE SIZES AND STYLES

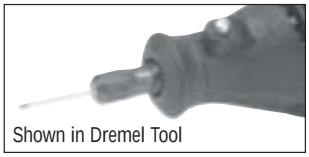
CAT. NO.	DESCRIPTION
DR2	2" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR218	2-1/8" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR214	2-1/4" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR212	2-1/2" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR234	2-3/4" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR3	3" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR314	3-1/4" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR312	3-1/2" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR4	4" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR412	4-1/2" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR5	5" Re-Coated EDD Smooth Edge Plated Diamond Drill*
DR6	6" Re-Coated EDD Smooth Edge Plated Diamond Drill*

* Or Equivalent

CAT. NO.	DESCRIPTION
REC2	2" Re-Coated AG Sawtooth Plated Diamond Drill
REC218	2-1/8" Re-Coated AG Sawtooth Plated Diamond Drill
REC214	2-1/4" Re-Coated AG Sawtooth Plated Diamond Drill
REC212	2-1/2" Re-Coated AG Sawtooth Plated Diamond Drill
REC234	2-3/4" Re-Coated AG Sawtooth Plated Diamond Drill
REC3	3" Re-Coated AG Sawtooth Plated Diamond Drill
REC312	3-1/2" Re-Coated AG Sawtooth Plated Diamond Drill
REC4	4" Re-Coated AG Sawtooth Plated Diamond Drill
REC412	4-1/2" Re-Coated AG Sawtooth Plated Diamond Drill
REC412GB	4-1/2" Re-Coated Glass Block Diamond Drill

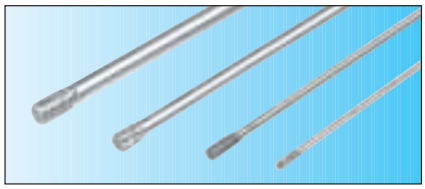
CRL Miniature and Tripple Ripple™ Diamond Drills

• Music Wire Diamond Drills



Shown in Dremel Tool

Flat-Tip Drill



Plated Diamond Flat-Tip Drills are to be used in hand held Dremel, Foredom or small precision drill presses. Diamond is plated on flexible music wire. Tripple Ripple™ Drills have twice the life and cutting rate of our Flat-Tip Drills. The Tripple Ripple™ Diamond Drill has three flutes to allow cuttings to flush away, and decrease frontal contact and drag. As the edges wear, fresh diamond in the flutes maintain the cutting action.
NOTE: Always submerge in CRL Diamond Tool Coolant Solution.

TRIPPLE-RIPPLE™ PLATED DIAMOND DRILLS

CAT. NO	SIZE-U.S.	DESCRIPTION
TRD346	.0295"	.75mm Tripple-Ripple Drill
TRD116	.0433"	1.1mm Tripple-Ripple Drill
TRD146	.0551"	1.4mm Tripple-Ripple Drill
TRD186	.0709"	1.8mm Tripple-Ripple Drill
TRD216	.0827"	2.1mm Tripple-Ripple Drill

Can be combined for quantity pricing. Minimum order: Six Drills of one size.

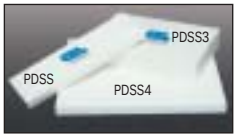
MINIATURE PLATED DIAMOND FLAT-TIP DRILLS

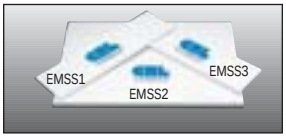
CAT. NO.	SIZE-U.S.	DESCRIPTION
MD346	.0295"	.75mm Flat-Tip Drill
MD16	.0394"	1mm Flat-Tip Drill
MD1146	.0492"	1.25mm Flat-Tip Drill
MD1126	.0590"	1.50mm Flat-Tip Drill
MD26	.0787"	2mm Flat-Tip Drill
MD2146	.0886"	2.25mm Flat-Tip Drill
MD2126	.0985"	2.5mm Flat-Tip Drill
MD36	.1182"	3mm Flat-Tip Drill
MD3126	.1379"	3.5mm Flat-Tip Drill
MD46	.1576"	4mm Flat-Tip Drill

Can be combined for quantity pricing. Minimum order: Six Drills of one size.

CRL Sharpening Stones for Diamond Tools

• Use to Expose Fresh Diamonds on Drills, Saws and Edgers





Achieve maximum life from your diamond tools by using the correct sharpening stones. These highly abrasive stones remove worn diamond and bond contact, exposing fresh cutting crystals. PDSS Sharpening Stones are designed for diamond drills and saw blades. Our EMSS Sharpening Stones are ideal for all types of edging and beveling machines. A variety of sizes are available to fit the application. Always saturate CRL Sharpening Stones in coolant solution thoroughly before use.

CAT. NO.	APPLICATION	SIZE
PDSS	Drills/Saws	2" x 7" x 1/2"
PDSS3	Drills/Saws	4" x 6" x 1"
PDSS4	Drills/Saws	6" x 8-1/2" x 1/2"
EMSS1	Edgers/Bevelers	2" x 7" x 1/8"
EMSS2	Edgers/Bevelers	6" x 8-1/2" x 1/4"
EMSS3	Edgers/Bevelers	2" x 7" x 1/4"

CRL Water Coolant Chucks

- **Provides Center Coolant Delivery**
- **Accepts CRL Belgian Threaded Drills**
- **Fits Popular Large Drill Presses**

Build your own glass drilling machine using CRL Water Coolant Chucks and your industrial drill press. Perfect for high volume drilling of small pieces, vases, lamps, etc. Accepts our Belgian Threaded Drills, and provides optimum performance by supplying coolant continuously through the center of the drill. Coolant pressure ejects core out of diamond drill after drilling cycle is completed.

Our Taper Type Water Coolant Chucks replace your machine's adjustable jaw chuck. Select either CRL Cat. No. WCCJ3, WCCJT33 or WCCJ6 Taper Type to match your drill press. Hollow spindle machines will require a transition arbor of our supply.

The CRL WCCSS 1/2" Hex Straight Shank Water Coolant Chuck mounts directly into an adjustable jaw chuck. Barbed water inlets fit your 3/8" I.D. supply hose. After extensive use, CRL Water Coolant Chucks can be rebuilt with the WCCRK Kit, which includes: two Bronze Bushings, two Rubber Seals and two Circlips. Always use a ground fault interrupt circuit device (See Cat. No. GF1 on page F304) when using electrical tools in wet areas.

Taper Type WCCJ3, WCCJT33, or WCCJ6 — Shank Type WCCSS

CAT. NO.	DESCRIPTION	TAPER
WCCJ3	Taper Type	J-3
WCCJT33	Taper Type	JT-33
WCCJ6	Taper Type	J-6
WCCSS	Shank Type	Straight 1/2" Hex
WCCRK	Rebuild Kit for Coolant Chucks	

CRL Amazing Glazing® Diamond Countersinks

- **Straight Shank or Belgian Type Mounts**
- **Metal Bond Diamonds**

CRL Diamond Countersinks feature a medium grit diamond for grinding precise, chip-free 90º tapers into existing holes in glass. Available in three sizes that can be used on any hole size up to the maximum countersink diameter.

Belgian Threaded Type — Straight 3/8" Shank Type

CAT. NO.	DIAMETER	TYPE
SDC12	1/2"	Straight Shank
SDC1	1"	Straight Shank
SDC112	1-1/2"	Straight Shank
BDC12	1/2"	Belgian Threaded
BDC1	1"	Belgian Threaded
BDC112	1-1/2"	Belgian Threaded

CRL Mini Water/Coolant Adapter

- **Uses High Yield Metal Bond Belgian Threaded Drills**

Add efficiency to your tripod or vacuum cup type glass drilling machines with this coolant feed chuck. 3/8" straight shaft fits most drill machines. Always use with a ground fault interrupt circuit device (Cat. No. GF1 on page F304).

CAT. NO.	DESCRIPTION
WCCM1N1	Mini Water/Coolant Adapter

NOTE: 6-1/4" minimum clearance from end of chuck to drilling surface is required.

CRL Amazing Glazing® Diamond Spot Facers

- **Three Popular Sizes**
- **Custom Sizes Available**

These 100 grit Belgian Mount Spot Facers are designed for drilling flat bottom holes in glass to a partial depth. Center coolant feed is required. They can be re-plated when they are worn.

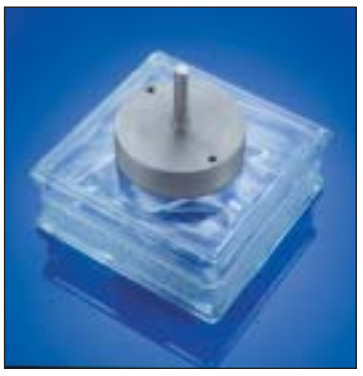
CAT. NO.	GRIT	DIAMETER
SF14	100X	1/4"
SF38	100X	3/8"
SF12	100X	1/2"

CRL Glass Block Drill

Top View: Three Sided Shank

- **Designed Especially for Drilling Glass Blocks**

We have designed this special drill for the demanding job of drilling glass blocks. Our special sawtooth drill has a thicker wall, and a heavier three sided shank to fit in any 1/2" chuck. Available in 4-1/2" size for drilling vent pipe holes. This drill can even be re-coated.



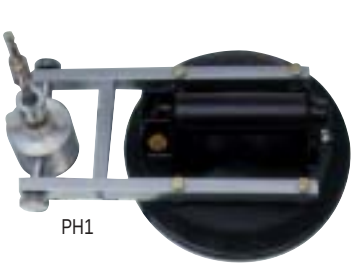
CAT. NO.	DIAMETER
GBD412	4-1/2" (114mm)

CRL Port-O-Holer Glass Drilling Tool

The all new Port-O-Holer Glass Drilling Tool drills holes up to 2" (51mm) in diameter in glass and mirror, regardless of the location. All you need is your own cordless or 110V AC power drill, and you are ready to drill. Never has there been a tool that is so simple and economical, yet so accurate and easy to use.

NOTE:
We recommend you only use CRL EDD and DR Series Diamond Drills with the Port-O-Holer.

Just place the Port-O-Holer where you want to drill your hole and pump the vacuum cup to hold it in place. There are center reference marks inscribed on the outside of the drill housing for easy lineup of your holes. Then just fill the drill housing with coolant using the included squeeze bottle, and you're ready to drill. The built-in gasket seals the housing to your glass for leak-free drilling. The PH1 Port-O-Holer comes complete with a Wood's W4000 8" Lexan Handle Vacuum Cup, or use your own 8" or 9" Wood's Cup with the PH2 Port-O-Holer. Combined with the all-aluminum frame, this tool weighs in at just over 3-1/2 pounds.



PH1

PH2

- **The Most Portable Drilling Tool Available**
- **Uses Your Own Cordless or 110V AC Power Drill w/GFCI Device**
- **Drills Up to a 2" Hole Using Your Own 3/8" Shank Plated Diamond Drills**

The Port-O-Holer does the same job as portable drilling machines, but costs less and is easier to transport to your job site. The frame has been designed to work with any Woods 8" or 9" Vacuum Cup. Anyone in the mirror business who does onsite fabricating will find this tool indispensible. The CRL Port-O-Holer comes complete with a quick-disconnect, Allen wrenches, replacement seals, drill shank adapter, and a protective cover for the vacuum cup. Another product available exclusively from CRL!

CAT. NO.	DESCRIPTION
PH1	CRL Port-O-Holer Glass Drilling Tool w/Cat.No. W4000 8" Vacuum Cup
PH2	CRL Port-O-Holer Tool Only
PH3	Port-O-Holer Replacement Gaskets

CRL Finger Pull Machine

- **Depth Screw Adjustment Assures Each Groove Will be Exactly Alike**
- **Built-In Water Tank for Maximum Portability and Dust Elimination**
- **Fully Adjustable Counterweight Allows User to Change the Rate of Cut**

The CRL FP1 Finger Pull Machine is the fastest and easiest way to grind a 5/8" wide groove in glass. These grooves are actually recessed into the glass to act as handles in sliding glass windows and glass furniture doors. The most common examples would be in showcases and reception areas, two places where the constant opening and closing of sliding windows is needed, but typical handles are not used or desired.

The FP1 is precision built. The entire body is welded steel and finished with an enamel paint. Sealed bearings are used throughout the machine to ensure long life from all of the drive components. All parts are carefully machined and balanced to ensure smooth, quiet operation.

The CRL FP1 is powered by a 1/2 HP, 1725 RPM, 115/230 Volt, Single Phase, 60Hz TEFC Motor. The unit comes fully pre-wired with a steel switch and a heavy-duty power cord with grounded plug. At 47 pounds total weight, the CRL FP1 is portable right to the jobsite. A rugged all-around machine designed for years of service. One year manufacturer's warranty covers all major components.

CAT. NO.	DESCRIPTION
FP1	Finger Pull Machine
BW14	14" x 5/8" Replacement Wheel

CRL Diamond Tool Coolant

- **For Glass Drilling and Sawing**
- **Now in Three Convenient Sizes**

CRL Diamond Tool Coolant Concentrate is mixed with water to create an excellent coolant solution for drilling, sawing and routing glass. CRL DTC80 is economical to use, because of a ratio of 50 parts water to one part concentrate is all it takes for optimum cooling and lubricating performance. CRL Diamond Tool Coolant is biodegradable, which means it can be safely disposed of in your shop's drain without causing harm to the environment.

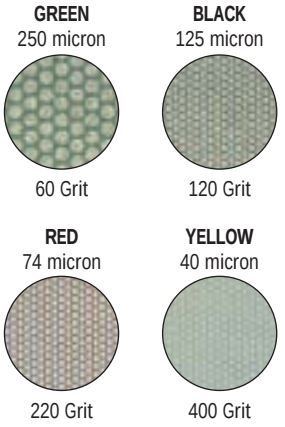
CAT. NO.	CONTENTS
DTC80Z	8 Ounces
DTC80QT	1 Quart
DTC80GL	1 Gallon

CRL Diamond Hand Pads

- Long Lasting Diamond Abrasive
- Works Great on Smooth or Uneven Surfaces
- Use Wet or Dry

CRL Diamond Hand Pads are plated diamond abrasive surfaces permanently glued to rigid foam support pads. Use wet or dry for fine finish work on glass, marble, ceramics, granite and other composites. Their ideal hand size requires minimal effort and allows a more consistent finish. Diamond grade or grades required are based upon the finish and amount of material to be removed:
Use 60 grit only for high material removal situations.
Use a 400 grit pad if a high polish is required.
Pads measure 2-1/4" by 3-3/4".

GRADE RANGE FOR GLASS

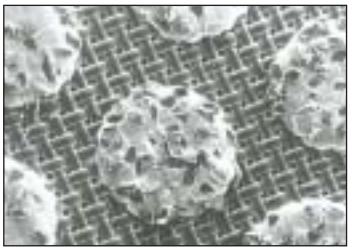


CAT. NO.	COLOR	GRIT
DHP60	Green	60X
DHP120	Black	120X
DHP220	Red	220X
DHP400	Yellow	400X
DHPSET	All	Set of All Four

CRL 3M™ Flexible Diamond Hand Pads

- Available in Grits from 60X to 800X
- Use Wet or Dry

3M™ Flexible Diamond Hand Pads have a diamond surface bonded to a comfortable foam backing with finger holds. Slight flexibility allows pad to conform to the surface being worked. Used wet or dry, these pads provide very long life. Choice of grits based upon the finish and amount of material to be removed:
Use 60 grit only for high material removal situations.
Use a 800 grit pad if a high polish is required.
Pads measure 2-1/4" by 3-3/4".



Highly Magnified Photo Shows Diamonds Bonded to Nickel Dot

CAT. NO.	COLOR	GRIT
Z2G6021	Green	60X
Z2B12018	Black	120X
Z2R22018	Red	220X
Z2Y40018	Yellow	400X
Z2W80018	White	800X
Z2SET	All	Set of All Five

CRL Diamond Wire Form Saw

- Cuts Patterns in Glass, Stone, Quartz, Etc.
- Extremely Fine 3/4mm Blade

Cut forms and shapes by hand with CRL's Diamond Wire Form Saw. Use it to cut patterns in glass, slabbed stone, agate, quartz, etc. The 3/4 millimeter round blade saws in any direction, making it perfect for stained glass work. Fits all clamp style scroll saws with water drip systems for even faster cutting. The blade measures 5" long. Saw frame and blades sold separately.

CAT. NO.	DESCRIPTION
LC3104	Diamond Wire Form Saw Frame
LC3106	3/4 mm Diamond Wire Saw Blade

CRL Amazing Glazing® Drill Adapter

- Allows Use of Threaded Drills in Standard Glass Drilling Machines

This Drill Adapter allows you to use typical Belgian Threaded Drills in a shank type glass drilling machine. Adapter threads to the drill, which and leaves you a 3/8" diameter straight shank.

CAT. NO. ADTS

Typical Belgian Threaded Drill (Not Included)

CRL Contractors Series Diamond Drills

Our Contractors Series Diamond Drills are excellent for brick, block, concrete, mortar, marble and other similar materials. 6" drilling depth with a removable center pilot. Use wet or dry in a 1/2" hand held drill.

- Ideal for Brick, Block and Concrete

CAT. NO.	DIAMETER
CSDD1	1"
CSDD118	1-1/8"
CSDD114	1-1/4"
CSDD138	1-3/8"
CSDD112	1-1/2"
CSDD158	1-5/8"

CAT. NO.	DIAMETER
CSDD2	2"
CSDD212	2-1/2"
CSDD3	3"
CSDD318	3-1/8"
CSDD312	3-1/2"
CSDD4	4"

CRL Makita 3/8" x 21" Portable Belt Sander

NEW

- Great for Small, Confined Areas
- Adjustable Sanding Arm
- Electronic Speed Control
- Change Belts Quickly and Easily

These U.S.A. made belts fit the 9032 Portable Belt Sander perfectly

The all new CRL Makita 3/8" x 21" Belt Sander is a long awaited tool for the glass industry. Now polishing notches and corners is a breeze. Tight spaces no longer limit your ability to produce a quality edge. The sanding arm pivots a full 100˚ for the ease of operation by almost anyone, while providing balance and high performance at any position.

The electronically-controlled motor provides sanding speeds from 980-5600 feet (298-1707 meters) per minute for precision sanding and polishing in any position, and on any material thickness. Even at the maximum speed, this sander operates at low noise levels which proves safer for the user. There is also an easy quick-release lever for changing the belts. A belt tracking knob is conveniently located for fine adjustment of the belt, and no tools are necessary for any of the adjustments. This unit comes with a one year manufacturer's warranty.

3/8" X 21" BELTS

CAT. NO.	GRIT	BELTS/BOX
CRL38X2160X	60X	20
CRL38X2180X	80X	20
CRL38X21120X	120X	20
CRL38X21220X	220X	20
CRL38X21400X	400X	20
CRL38X21CORK	CORK	5

All belts can be combined by size and grit for quantity pricing.

CRL 3M™ Diamond Belts

- Longer Life than Silicon Carbide Belts
- Fits Portable Sanders Using 1-1/8" x 21" Belts
- Consistent Edge Quality

Diamond Belt Shown Mounted on Cat. No. 9031M 1-1/8" x 21" Makita Sander

CRL 3M™ 1-1/8" x 21" Diamond Belts offer tremendous life compared to silicon carbide belts. In addition, the edge quality is consistent throughout the belt life. Since diamonds cut, rather than scratch like sandpaper, less pressure is required to accomplish the same material removal. Always use diamond belts on machines in good condition with true running rollers, and be sure to wear appropriate dust protection equipment.

Diamond grade or grades required are based upon required finish and amount of material to be removed. Use 60 grit (green) only for high material removal situations. If a high polish is required, progress to 800 grit (white).

1-1/8" X 21" BELTS

CAT. NO.	GRIT	BELTS/PKG.
ZB1182160	60X	1
ZB11821120	120X	1
ZB11821220	220X	1
ZB11821400	400X	1
ZB11821800	800X	1

Belts sold individually.

CRL Electric Polisher

- Portable Polisher with Center Water Feed
- Uses 3M™ QRS Diamond Discs

The CRL AEP Electric Polisher is designed for portable polishing, shaping, and light grinding. A center water feed permits wet polishing to reduce dust, extend disc life, and give a great polish. This unit includes our pressurized coolant delivery system, faucet/garden hose connector kit, and is 115 volt, double insulated, with a Ground Fault Interrupt Circuit Device (CRL Cat. No. GF1) included. The AEP runs at 2000 RPM, accepts 4" 3M™ Disc Pads in 5/8"-11 thread, and uses 3M™ QRS Diamond Discs for superior results. One QRS 4" Backing Pad included.

Choosing the proper disc pad is important to achieving the best results. One QRS Pad can accept many different grades of diamond discs. Diamond Disc life and finish will always be improved when used with water. Supply by spray bottle or spray delivery. If used dry, wear appropriate dust protection equipment. When working on clean cut (sharp edge) glass, use light pressure on the first pass to remove sharp edges, then increase pressure to suit desired grinding rate.

4" DISC PAD AND FLEXIBLE DIAMOND DISCS

CAT. NO.	DESCRIPTION	GRIT
ZDP4Q58	5/8"-11 QRS Disc Pad	——
ZD4Q60	3M™ QRS Diamond Disc	60X
ZD4Q120	3M™ QRS Diamond Disc	120X
ZD4Q220	3M™ QRS Diamond Disc	220X
ZD4Q400	3M™ QRS Diamond Disc	400X
ZD4Q800	3M™ QRS Diamond Disc	800X

CRL 3M™ Trizact™ Scratch Removal System

- **3M™ Trizact™ Films - A Cleaner, Long Lasting Abrasive System for Glass Scratch Repair**
- **Starter and Professional Kits are Both Easy to Use**

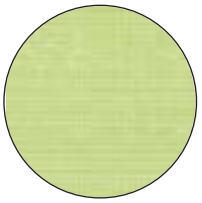
C.R. Laurence introduced 3M™ Trizact™ Abrasive Film to the glass industry. This material uses natural abrasive formed in the shape of small pyramids, and provides uniform layers of abrasive throughout the pyramid. As abrasive particles are exposed and used, they fall down and are flushed away between the pyramids.

This easy-to-use system uses five grades to go from a fine ground finish on glass to absolutely clear! It is perfect for scratch removal, edge finishing and a variety of other applications. No more messy slurries and contamination problems!

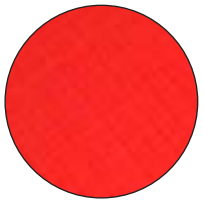
The potential for this material in your glass fabrication process is amazing! For a small investment, you can purchase equipment and supplies to remove scratches in flat and curved glass, and to create your own finished products, including "high polish" work.

3M™ Trizact™ will remove light or deep scratches, scuffs, wiper marks, and stains on a variety of glass surfaces. Makes an old windshield or table top look like new again!

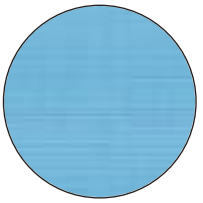
3M™ Trizact™ should always be used wet, with plain water. Polish requires using each grade long enough to remove all scratches from the previous grade. If this is not done, small defects will remain in the finished product. When using "high polish clear" (cerium), work surface must be flushed with water between stages to remove loose abrasive.



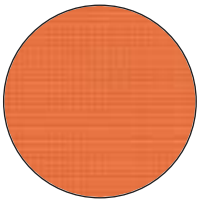
35 Micron - A35
Removes Large Scratches and Defects



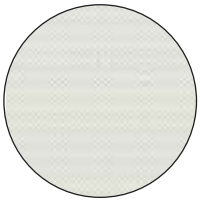
20 Micron - A20
Refines Scratches, Removes Scuffs Made by Grade A35



10 Micron - A10
Refines Scratches, Removes Scuffs Made by Grade A20



5 Micron - A5
Refines Finish Made by Grade A10



Cerium
Polishes and Leaves Glass Crystal Clear

CRL 3M™ Trizact™ Scratch Removal Starter Kit

Drill Not Included

- **The Best Way to Start Using Trizact™ Discs**
- **Uses Your Hand Held Electric Drill**
- **Includes Five Disc Pads for Quick Change-Out of Discs**

Each Kit Includes:

1/4" Shank Adapter
Spray Bottle for Water
Plastic Apron
Marker
Full Instructions
Five Each 3M™ 3" Disc Pads
Five Each 3M™ Trizact™ 3" A35 Discs
Five Each 3M™ Trizact™ 3" A20 Discs
Five Each 3M™ Trizact™ 3" A10 Discs
Five Each 3M™ Trizact™ 3" A5 Discs
Five Each 3M™ Trizact™ 3" Cerium Discs

CAT. NO.	DESCRIPTION
ZSRPSSKS	Starter Kit for Curved Glass
ZSRPSSKM	Starter Kit for Flat Glass

CRL 3M™ Trizact™ Professional Scratch Removal System

- **Developed for Professionals**

New, more powerful 115 Volt Electronically Controlled Variable Speed Center Water Feed Polisher with built-in ground fault circuit interrupter. CRL's new on-demand water delivery system and pressure tank makes this system easy to use. This high torque polisher comes equipped with a center mount "C" Handle for added stability and control.

This Kit Includes:

10 Each of the Five Different Grades of 3M™ Trizact™ Abrasive Discs
Five Each 5" 3M™ Soft Disc Pads
Eight Ounces Glass Polishing Compound
115V AC Center Water Feed Polisher
Pressurized Water Delivery System
Full Instructions and 3M™ Applications Guide

CAT. NO.	DESCRIPTION
ZSRPSS	Scratch Removal System for Curved Glass
ZSRPSM	Scratch Removal System for Flat Glass

CRL 3M™ Disc Pads

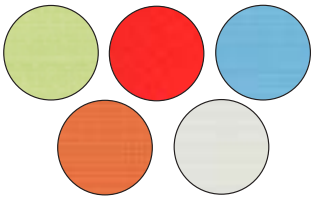
Choosing the proper Disc Pad is important to achieving the best results. Supply a separate Disc Pad for each grade to use abrasive fully. Use Soft type for curved glass and Medium type for flat glass. Purchase the DPAS58 Adapter to convert 5/8"-11 mount to straight shank for use in your hand drill.

CAT. NO.	MOUNTING	DIAMETER/TYPE
ZDP3P58S	5/8"-11	3" Soft
ZDP3P58M	5/8"-11	3" Medium
ZDP5P58S	5/8"-11	5" Soft
ZDP5P58M	5/8"-11	5" Medium

CAT. NO.	DESCRIPTION
DPAS58	3/8" Shank to 5/8"-11 Adapter

CRL 3M™ Trizact™ Discs

3M™ Trizact™ Discs with pressure sensitive adhesive backing can be used with our 3M™ Disc Pads, as well as our Scratch Repair/Polish System. Larger discs, belts and sheets are also available. Contact CRL Technical Sales at (800) 421-6144, Ext. 777.



CAT. NO.	GRADE	DESCRIPTION
TD335P	A35	3" Disc
TD320P	A20	3" Disc
TD310P	A10	3" Disc
TD35P	A5	3" Disc
TD3CP	Cerium	3" Disc
TD535P	A35	5" Disc
TD520P	A20	5" Disc
TD510P	A10	5" Disc
TD55P	A5	5" Disc
TD5CP	Cerium	5" Disc

CRL Autostock Professional Scratch Removal and Polishing Systems

- **Cost Effective - Saves Money in Manufacturing, Distribution or Fabrication Environments by Reducing Scrapped Glass**
- **Cost Effective in the Field by Saving the Cost of Removal, Replacement and Reinstallation**
- **Efficient - Quickly Removes Scratches That Until Now Were Considered Unrepairable**
- **Portable - Completely Self-Contained, Requiring Only a 110V AC Power Source**
- **Clean - Closed Loop System Eliminates Splattering and Mess Associated with Other Scratch Removal Methods**
- **Perfect for Windshield Repair**

Repairs Can Be Made Without Removing Glass

The CRL Autostock Scratch Removal and Polishing Systems offer a revolutionary process that removes scratches quickly and cleanly from virtually any type of glass, from tempered to single strength, right in your shop or on the job site. The hand held tools use a vacuum process in conjunction with a continuous flow of slurry through the machine. With adjustable water jets providing lubrication to keep the machine moving freely over the glass, the flow of slurry provides a constant source of new abrasives. This process keeps the glass cool and allows the tool to reach polishing speeds of 6000 RPM. A reference manual and training video are included with each kit.

CAT. NO. PN8932
Complete Polishing System

Polishing System

The Polishing System includes a Polisher Unit, a slurry container and pump, power cord, maintenance kit, reference manual, training video, and all of the necessary supplies needed for immediate use.

The Polishing System is used on scratches and scuff marks that do not require grinding. It can even remove scratches you can feel with your fingernail.

Recommended primarily for manufacturing and distribution facilities, the Polishing System is also widely used in the field by windshield repair technicians for removing wiper blade scratches.

CAT. NO.	DESCRIPTION
PN8932	Autostock Polishing System
PN9040	Polishing Compound 1lb.
PN8911	Domed Polishing Wheel
PN8912	Flat Polishing Wheel
PN9030	Solid Flat Polishing Wheel
PN8278	Polisher Shroud Seals 6/Pk.

CAT. NO. PN8930 Complete Scratch Removal System

Scratch Removal System

The complete Scratch Removal System includes a Finer (Smoothing) Unit, which performs the grinding or heavy stock removal, and the Polishing Unit, which performs the polishing or light stock removal. Each unit comes with its own slurry container and pump to prevent contamination, and for ease of use.

Everything needed to get you up and running is included in the kit, as well as an ample supply of consumable items. A maintenance kit, reference manual and training video complete the package.

The complete system gives you the capability to remove any type of scratch, including those made with a glass cutter!

CAT. NO.	DESCRIPTION
PN8930	Autostock Scratch Removal System
PN8915	Finer Compound 1lb.
PN8230	Finer Disc Pack 50/Pk.
PN9036	Finer Foam Shroud Seals 6/Pk.

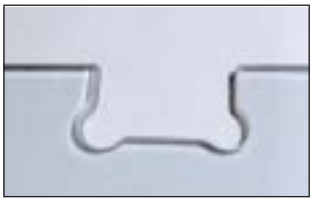
CRL Portable Router NEW FEATURES

- New Improved Version of Our Most Popular Glass Router
- Lightweight and Manueverable
- Cuts Any Shape
- Easy to Use

Our popular ADR Router has new features that deliver more power and better performance than ever before. The long-awaited Cat. No. ADR2 is a glass working marvel. This corded, 110 Volt variable speed (10,000 to 30,000 RPM) machine is rated at 600 Watts. With very little practice this tool can cut almost any curve or radius while leaving you a structurally sound piece of glass. You'll be amazed at the intricate shapes that can be cut with this Router! Mirror outlets, switch plates, circles, speak holes and desktops with computer/phone wire cut-outs are easily fabricated with the ADR2.

The biggest advantage of the ADR2 is that it can plunge cut it's own starter holes. No need to stop and drill a pilot hole before routing. This means less down time and more production. Also, there is no changing, charging and purchasing multiple batteries. Using our new 1/8" diameter Router Bits, combined with an operating speed of 14,000 RPM's increases the travel speed to 6"-7" per minute when working with 1/4" (6mm) glass. Edge quality is unsurpassed because of the excellent control you have with the ADR2. Using our new Diamond Bits, chipping on the glass edge is limited to 1/16" or less. Our new 1/8" Diamond Router Bits are now economically priced due to a breakthrough in technology and our quantity buying. Check our website for the complete selection.

The ADR2 comes complete with the Router and Base, 5-pack of Diamond Router Bits, one 1/4" Seaming Bit, Cooling System with Pressure Tank, Diamond Coolant, Special Valve Assembly, one roll of Glass Protective Film, and a complete Instruction Manual. Our Cat. No. ADR2T Deluxe Kit comes with all of the above plus Cat. No. TPS Router Template Option and a Steel Template Guide with locknut. These systems are offered exclusively by CRL.



PORTABLE ROUTERS AND ACCESSORIES

CAT. NO.	DESCRIPTION
ADR2	Portable Router System
ADR2T	Deluxe Portable Router w/Template
TPS	Router Template Option
ADRB120	120X Standard 1/8" Router Bit
SFRB14220	220X Seaming Bit for 1/4" Glass
DTC80Z	8 Oz. Diamond Tool Coolant
GPF25	25 Ft. Roll Glass Protection Film

CRL Ground Fault Circuit Interrupt Device

Compact unit connects between your power tool and 110V AC outlet to prevent electric shocks. A must for anyone who uses wet-working sanders, drills, routers or saws.

CAT. NO. GF1

CRL "Vac Blast" Vacuum Blaster

- Works with Your Air Compressor — No Electricity Required
- Has All the Power of a Siphon Blaster Without the Mess
- Operates More Quietly Than Other Vacuum Blasters

CAT. NO. SJF44

The CRL "Vac Blast" Vacuum Blaster solves the problems associated with ordinary vacuum blasters. For just a fraction of the price of other vacuum blasters, "Vac Blast" will turn problems into solutions. "Vac Blast" does not use an electric vacuum motor, it works with your 80 to 125 psi air compressor. It uses abrasives, such as aluminum oxide, "black beauty", glass beads and silicon carbide. Silica sand should not be used. "Vac Blast" has all the powe of a siphon blaster, yet operates much quieter than ordinary vacuum blasters. Lightweight and easy to use, "Vac Blast" is the answer to your vacuum blasting requirements.

SPECIFICATIONS

CAPACITY: 25 to 50 Lbs
REQUIRED AIR PRESSURE: 80 to 125 psi
NOZZLE: 1/4" x 3" Steel Nozzle
AIR REQUIREMENT: 24 CFM @ 80 psi
27 CFM @ 100 psi
32 CFM @ 125 psi
HOSE LENGTH: 10 Feet

CRL Tin Side Detector

CAT. NO. TS1300

NEW

- Identifies Tin Side of Glass

The CRL Tin Side Detector can identify the tin side of any piece of float glass using short-wave ultraviolet light which causes the tin to become visible in a milky white color. Applications include auto glass fabrication, glass tempering and the manufacture of mirror and other types of coated glass.

Works on standard plate, tempered, Low-E, laminated, tinted, reflective and any other glass manufactured in the float process. Comes with a pair of UV safety glasses, and runs on four AA batteries (included).

CRL Sanding Belts

- **Tough, Fast Grinding, Polyester Backed Belts are Long Lasting**
- **A Variety of Grits are Available, from 36X to 600X**

Most popular grits and their uses:

60X: Extra Rough, for removing glass fast. Example: Mitered edge.
80X: Rough, for quick contouring. Example: Autoglass edge.
120X: Smooth, for seaming and polishing. Example: Desk top edge.
220X: Extra Smooth, for fine frost finish. Example: Glass shelf edge.
400X: Fine, for satin finish. Example: Opaque edge.

CRL Sanding Belts have been an industry favorite for years, and our alliance with a major abrasive manufacturer allows us to bring you high quality belts at low prices. Cost-efficient packaging techniques let us give you better value in all sizes and grits from 36X (Super Coarse) to 600X (Super Fine) on a 100% polyester backing that works either wet or dry. We even offer custom sizes to meet your needs. Call CRL Technical Sales at (800) 421-6144, Ext. 777 for details and pricing on custom size and grit abrasives.

- **Stock Sizes (Plus Other Sizes on Special Order) to Fit Virtually All Upright and Portable Belt Sanders**
- **Cost-Efficient Packaging and Manufacturing Techniques Let Us Give You Better Value in All Sizes and Grits**

CRL Glass Grinding Belts for Portable Sanders

- **Now Packed Ten Per Box in Five Popular Sizes**

CRL Glass Grinding Belts for portable sanders are now an even better deal because of more cost-efficient, space-saving 10 belts per box packaging. You get the same high quality at a lower overall price per belt. Five standard sizes in grits from 36X (Extra Coarse) to 600X (Super Fine) on a 100% polyester backing. Cork Polishing Belts are also available.

3" X 24" SIZE

CAT. NO.	GRIT
CRL3X2436X	36X
CRL3X2440X	40X
CRL3X2450X	50X
CRL3X2460X	60X
CRL3X2480X	80X
CRL3X24100X	100X
CRL3X24120X	120X
CRL3X24150X	150X
CRL3X24180X	180X
CRL3X24220X	220X
CRL3X24320X	320X
CRL3X24400X	400X
CRL3X24600X	600X
CRL3X24CORK	CORK

All Cork Belts sold one per box.

1-1/8" X 21" SIZE

CAT. NO.	GRIT
CRL118X2160X	60X
CRL118X2180X	80X
CRL118X21120X	120X
CRL118X21220X	220X
CRL118X21400X	400X
CRL118X21600X	600X
CRL118X21CORK	CORK

3" X 18" SIZE

CAT. NO.	GRIT
CRL3X1860X	60X
CRL3X1880X	80X
CRL3X18120X	120X
CRL3X18220X	220X
CRL3X18400X	400X
CRL3X18CORK	CORK

3" X 21" SIZE

CAT. NO.	GRIT
CRL3X2160X	60X
CRL3X2180X	80X
CRL3X21120X	120X
CRL3X21220X	220X
CRL3X21400X	400X
CRL3X21600X	600X
CRL3X21CORK	CORK

4" X 24" SIZE

CAT. NO.	GRIT
CRL4X2460X	60X
CRL4X2480X	80X
CRL4X24120X	120X
CRL4X24220X	220X
CRL4X24400X	400X
CRL4X24CORK	CORK

CRL Wet Abrasive Belts for Upright Belt Sanders

- **All Sizes Packed Five Per Box in Six Popular Sizes**

CRL Wet Abrasive Belts have a 100% polyester backing, so you can use them wet or dry. Available in six standard sizes in grits from 36X (Extra Coarse) to 600X (Super Fine) to fit most any upright belt sanding machine. All Upright Sander Belts come five belts per box. Cork Polishing belts are also available. If you don't see your belt size or grit here, contact Customer Service for availability and prices.

4" X 106" SIZE

CAT. NO.	GRIT
CRL4X10636X	36X
CRL4X10640X	40X
CRL4X10650X	50X
CRL4X10660X	60X
CRL4X10680X	80X
CRL4X106100X	100X
CRL4X106120X	120X
CRL4X106150X	150X
CRL4X106180X	180X
CRL4X106220X	220X
CRL4X106320X	320X
CRL4X106400X	400X
CRL4X106600X	600X
CRL4X106CORK	CORK

4" x 64" SIZE

CAT. NO.	GRIT
CRL4X6460X	60X
CRL4X6480X	80X
CRL4X64120X	120X
CRL4X64220X	220X
CRL4X64400X	400X
CRL4X64CORK	CORK

All Cork Belts sold one per box.

LARGE USER PROGRAM

If you use lots of sanding belts and discs, CRL has a bulk quantity program that can really cut your costs. All sizes and grits can be quoted, including any we don't normally stock. If you need them, CRL can supply them quickly at prices you'll find hard to beat. Please contact CRL Customer Service at (800) 421-6144 for details.

4" X 82" SIZE

CAT. NO.	GRIT
CRL4X8260X	60X
CRL4X8280X	80X
CRL4X82120X	120X
CRL4X82220X	220X
CRL4X82400X	400X
CRL4X82CORK	CORK

4" x 84" SIZE

CAT. NO.	GRIT
CRL4X8460X	60X
CRL4X8480X	80X
CRL4X84120X	120X
CRL4X84220X	220X
CRL4X84400X	400X
CRL4X84CORK	CORK

4" X 118" SIZE

CAT. NO.	GRIT
CRL4X11860X	60X
CRL4X11880X	80X
CRL4X118120X	120X
CRL4X118220X	220X
CRL4X118400X	400X
CRL4X118CORK	CORK

4" x 132" SIZE

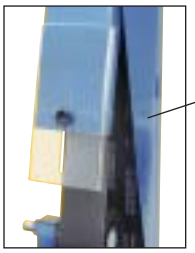
CAT. NO.	GRIT
CRL4X13260X	60X
CRL4X13280X	80X
CRL4X132120X	120X
CRL4X132220X	220X
CRL4X132400X	400X
CRL4X132CORK	CORK

CRL 4" x 106" Upright Wet Abrasive Belt Sander

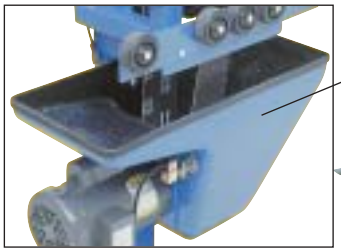
- Perfect Machine for All Fabricators and Processors
- Powerful One H.P. Direct Drive Motor (No Drive Belts to Maintain)
- Durable Urethane Roller Platen
- Fast Abrasive Belt Changing Mechanism
- New Belt Guard Safety Shield is Standard Equipment
- New Fiberglass Tank Extends Machine Life

Streamlined styling, rugged construction and the affordable price makes our CRL Upright Wet Abrasive Belt Sander ideal for use by glass fabricators and processors. The CRL Wet Belt Sander is designed to use various grit 4" x 106" wet or dry abrasive belts to sand edges to whatever finish is required. Both models include a direct drive, One H.P., 60 cycle, 1725 RPM, 110 Volt AC motor and a 5" diameter drive pulley. Sander can be wired 220 volts at an additional cost. An electric water valve keeps the belts wet during sanding, and can be connected to a city water system. To solve the problem of water tank spray corrosion, we've replaced the steel tank with a Non-Rusting Fiberglass Water Tank. Securely fastened with six mounting bolts, the tank is trimmed with rugged U-Channel. The 2200RP comes with a urethane covered roller platen and a front rest guide bar. The 2200 comes with a PA100 Platen Adapter, which allows the addition of glass edging accessories. Both models feature the New 2200SS Belt Guard Safety Shield. See below for more information on this new safety feature.

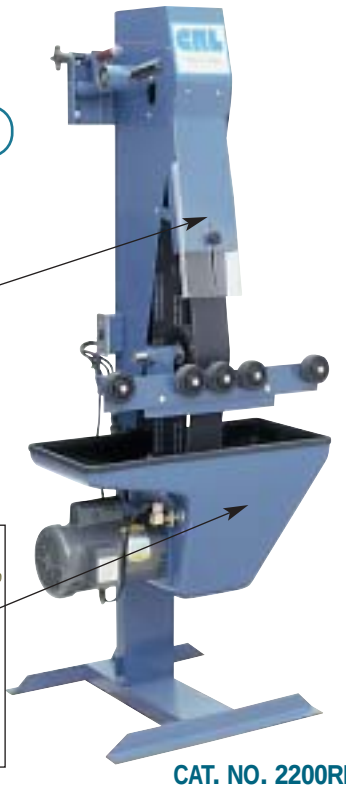
NEW FEATURES



Belt Guard Safety Shield



Non-Rusting Fiberglass Water Tank



CAT. NO. 2200RP

CRL Belt Guard Safety Shield

NEW

- See-Thru Shield Protects You from Fast-Moving Belt
- Easy Bolt-On Installation to Your Existing CRL 2200RP or 2200 Upright Wet Belt Sander
- O.S.H.A. Recommended

Improve the safety of your CRL Upright Wet Belt Sander with our Belt Guard Safety Shield. Bolt-on steel shield has an adjustable, clear plastic lower portion that lets you see the work while it protects you from the fast moving sanding belt.

CAT. NO. 2200SS

4" x 106" Belts for this machine are shown on Page F305.

SPECIFICATIONS:

HEIGHT:	70" (1778 mm)
WEIGHT:	250 lbs (113.4 kg)
FOOTPRINT:	24" (609 mm) by 24" (609 mm)

CAT. NO.	DESCRIPTION
2200RP	Belt Sander with Roller Platen and Guide Bar
2200	Belt Sander without Roller Platen or Guide Bar
2200SS	Belt Guard Safety Shield Only

F.O.B. CRL warehouses. Must ship motor freight.

Additional accessories for CRL Upright Belt Sanders are available. Please refer to Pages 356-357 of our Big Red Master Catalog.

CRL Sanding Discs

- Silicon Carbide Discs Give You Excellent Sanding Performance Wet or Dry

Our Silicon Carbide Sanding Discs come in 6" and 7" diameters to fit most popular brands of disc sanders. They have a 100% polyester backing that lets you use them wet or dry. Available in five grits: 60X (Extra Rough); 80X (Rough); 120X (Smooth); 220X (Extra Smooth); 400X (Fine), they come 50 discs per box. Minimum order is 50 discs of one grit and size.

- 6" and 7" Sizes to Fit Most Popular Brands of Disc Sanders

CAT. NO.	SIZE*	GRIT
6X7860CB	6" x 7/8"	60X
6X7880CB	6" x 7/8"	80X
6X78120CB	6" x 7/8"	120X
6X78220CB	6" x 7/8"	220X
6X78400CB	6" x 7/8"	400X
7X7860CB	7" x 7/8"	60X
7X7880CB	7" x 7/8"	80X
7X78120CB	7" x 7/8"	120X
7X78220CB	7" x 7/8"	220X
7X78400CB	7" x 7/8"	400X

All sizes and grits may be combined for quantity pricing.
*Size is defined as overall diameter and center hole size.

CRL 4" x 106" Upright Wet Belt Sander

NEW

- The Newest Addition to CRL's Wet Belt Sander Line
- Built-In Roller Platen and Easy Belt Changing System
- Now with Belt Guard Safety Shield

The CRL 4" x 106" Wet Belt Sander is a rugged glass working machine. Built for use in production shops, this machine has that "classic" sander look with all of the advantages you would expect to find in a modern machine. Manufactured to precision tolerances, the GL4W delivers high volume usage with very little periodic maintenance and virtually no scheduled service. All parts are carefully machined and balanced to ensure smooth, quiet operation. Sealed bearings are used within the motor and drive components for top-notch reliability.

The GL4W has five built-in rollers at the front of the tank to act as a rest for your glass while sanding. The built-in water spray system removes all harmful glass dust particles before they can become airborne. The spray system is activated automatically by an electro-mechanical solenoid when the machine is turned on. Belt tension and tracking is maintained by a unique upper bracket assembly which allows the sanding belt to run dead center on the two massive steel pulleys, while belt tension can be maintained and infinitely adjusted throughout use of the GL4W. Industry standard 4" x 106" Sanding Belts can be changed in a matter of seconds; a convenient feature of daily operation. Now equipped with a Belt Guard Safety Shield to protect the operator from flying debris. Powered by a One H.P., 115/230 Volt, 3450 RPM, Single Phase industrial motor, the GL4W has more than ample power for your high production sanding needs. It is backed by a one year manufacturer's warranty, with parts, belts and accessories, available directly from CRL.

4" x 106" Belts for this machine are shown on Page F305.

CAT. NO. GL4W

SPECIFICATIONS:

HEIGHT: 71-1/2" (1816 mm)
WEIGHT: 275 lbs (124.7 kg)
FOOTPRINT: 24" (609 mm) by 22" (558 mm)

NOTE: The CN4106 Canadian Model Upright Belt Sander does not come wired for immediate use. Wiring and on/off switch must be provided by the customer and installed by a qualified electrician to meet code requirements.

CRL Belt Guard Safety Shield for GL4W and CN4106 Sanders

NEW

- Takes Minutes to Install
- Guards from Flying Debris

The GL4SS Belt Guard Safety Shield fits our models GL4W and CN4106 Belt Sanders. Protects your face and eyes from flying debris, giving you added safety. This is an attachment no shop with a GL4W or CN4106 should be without. Simple installation takes just minutes, and gives you extra protection for the life of your sander.

CAT. NO. GL4SS

CAT. NO.	DESCRIPTION
GL4W	4" x 106" Upright Wet Belt Sander (U.S. Model)
CN4106	4" x 106" Upright Wet Belt Sander (Canadian Model)
GL4SS	Belt Guard Safety Shield for GL4W and CN4106

F.O.B. CRL warehouses. Must ship motor freight.

CRL Stick-On Sanding Discs and Backup Pads

- Pressure Sensitive Adhesive Saves Time and Labor
- Choice of Three Grits in Three Sizes: 5", 6" & 7"

Stick-On Sanding Discs with pressure sensitive adhesive are 100% polyester waterproof material. Made with high quality silicon carbide grain, these discs provide savings where it counts most, time and labor. Simply peel off the lining and stick the disc on your backup pad. Three popular grits are stocked (80, 120, 220) with a grit range of 24 to 400 available on special order.

(Sander Not Included)

STICK-ON SANDING DISCS

CAT. NO.	SIZE	GRIT
PSA580	5"	80X
PSA5120	5"	120X
PSA5220	5"	220X
PSA680	6"	80X
PSA6120	6"	120X
PSA6220	6"	220X
PSA780	7"	80X
PSA7120	7"	120X
PSA7220	7"	220X

Minimum order 50 discs (1 box). All sizes and grits can be combined for quantity pricing.

BACKUP PADS

CAT. NO.	SIZE	MOUNTING TYPE
PAD5	5"	3/8" Long, 5/16-18 Male Stud
PAD6	6"	3/8" Long, 5/16-18 Male Stud
PAD7	7"	5/8"-11 Thread Adapter (such as CRL Cat. No. 5704)

CRL POWR Edger™ Single Spindle Automatic Glass Edging Machine

NEW

- **The Easiest Glass Edger to Set Up and Run**
- **Produces Flat Edges with Seams, Pencil Edges (Round), and Miter Edges on Glass from 1/8" to 1/2" (3 to 12mm) Thick**
- **Edges Glass Up to 66" (1676mm) per Minute**
- **Runs on 110V AC**

For more information on this and other CRL Glass Machinery, please contact CRL Technical Sales at: (800) 421-6144, Ext. 777, or e-mail **techsales@crlaurence.com**

CAT. NO. PE11
F.O.B. CRL Warehouses.

INCLUDES:
Machine Stand
Machine Tank
Coolant Tank
Coolant Pump
One Gallon Diamond Coolant
Back Rack
Five Back Rack Support Bars
One 1/8"-1/4" Diamond Wheel (Flat with Seams)
One Polishing Wheel
Instruction Manual

Free Demonstration Video Tape for PE11 POWR Edger.
Ask for **CAT. NO. VTPE11**

Quick Uncrating

Quick Assembly

Put it to Work

The CRL PE11 POWR Automatic Diamond Glass Edger is designed and built to provide a simple, reliable method for edging and polishing a variety of thicknesses of glass and mirror for any size shop.

Operation of the POWR Edger is so easy any of your employees can use it with minimal training. After minor assembly and adjustment, simply plug into a 110V AC power source. Turn on the power drive conveyer and wheel motor switches, and you're ready to produce finished work.

Minimum glass size is 4" tall by 12" long (edge side must be a minimum of 12" in length). The PE11 can handle your big jobs as well with its 250 pound glass capacity. Wheel can be quickly repositioned to move from the diamond grinding process to polishing, or you can mount two diamond wheels to grind different glass thicknesses. The PE11 comes standard with 1/4" Diamond Wheel for flat with seam grinding, and a Polishing Wheel for a second pass to bring a beautiful luster to the glass edge. The POWR Edger meets OSHA requirements, utilizing CE, CSA, and UL Certified components.

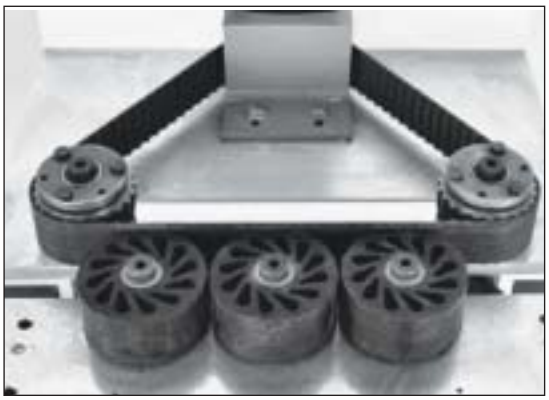
With the advantages of space saving design, one person set up, rapid wheel change, and large glass rack, the PE11 POWR Edger is the right choice for an affordable automatic glass edging machine.

If you would like to see a sample of glass edged by the PE11, please contact CRL Technical Sales at:
(800) 421-6144, Ext. 777,
or e-mail **techsales@crlaurence.com**

Pencil Edge

Miter Edge

Flat Seam



PE11 Conveyer Assembly

PE11 SINGLE SPINDLE PERIPHERAL EDGER WHEELS

CAT. NO.	DESCRIPTION	DIAMETER	GRIT
PEW1814PE	Pencil Edge for 1/8" to 1/4" Glass	7"	140-170
PEW31638PE	Pencil Edge for 3/16" to 3/8" Glass	7"	140-170
PEW1412PE	Pencil Edge for 1/4" to 1/2" Glass	7"	140-170
PEW1814FE	Flat & Seam Edge for 1/8 to 1/4" Glass	7"	140-170
PEW31638FE	Flat & Seam Edge for 13/16" to 3/8" Glass	7"	140-170
PEW1412FE	Flat & Seam Edge for 1/4" to 1/2" Glass	7"	140-170
PEWPOL	3/4" width Polishing Wheel for 1/8" to 1/2" Glass	7-1/4"	120

CRL E-Z Edger™ Glass Edging Machine

- **An Affordable Alternative to Larger Grinding/Polishing Machines**
- **Set Up is Fast and Requires Very Little Operator Training**

Produces Pencil Edges

CAT. NO. EZE2000

CRL is pleased to present an affordable new edging machine designed to produce satin finished edges on glass up to 1/2" (12 mm) thick. The EZE2000 Circular Glass Edging Machine makes simple work of edging 10" to 60" diameters up to 3/8" (10 mm) thick, and 10" to 44" diameters for glass up to 1/2" (12 mm) thick. Wheels are sold separately. The Machine features a 1/2 H.P. motor, adjustable fan coolant nozzles, and special two wheel gang assembly for profile grinding and finishing without changing wheels. The 110 volt EZE2000 Edger is available in a complete system (Cat. No. EZE2K1T) for 1/4" (6 mm) Glass, or separately with a wide range of optional components.

CAT. NO.	DESCRIPTION
EZE2KIT*	Includes: One EZE2000 Edger for Circular Glass, One EZE3620 Submersible Coolant Pump and Tank, One EZE4926F 1/4" Glass Fine Grit Pencil Edge Wheel, and One EZE942C 1/4" Glass Polishing Wheel.
EZE2000	E-Z 110 Volt Edger for Circular Glass (Machine Only)
EZE2001	E-Z 220 Volt Edger for Circular Glass (Machine Only)
EZE3620	110 Volt Submersible Coolant Pump and Tank
EZE3640	220 Volt Submersible Coolant Pump and Tank
EZE1925M	1/8" Glass Medium Grit Pencil Edge Wheel
EZE1928F	1/8" Glass Fine Grit Pencil Edge Wheel
EZE2923M	3/16" Glass Medium Grit Pencil Edge Wheel
EZE2924F	3/16" Glass Fine Grit Pencil Edge Wheel
EZE4922M	1/4" Glass Medium Grit Pencil Edge Wheel
EZE4926F	1/4" Glass Fine Grit Pencil Edge Wheel
EZE6920M	3/8" Glass Medium Grit Pencil Edge Wheel
EZE6921F	3/8" Glass Fine Grit Pencil Edge Wheel
EZE7934M	1/2" Glass Medium Grit Pencil Edge Wheel
EZE7935F	1/2" Glass Fine Grit Pencil Edge Wheel
EZE942A	1/8"-3/16" Glass Polishing Wheel
EZE942C	1/4" Glass Polishing Wheel
EZE942E	3/8" Glass Polishing Wheel
EZE942G	1/2" Glass Polishing Wheel
EZE8920	Work Bench for E-Z Edger

*F.O.B. CRL Warehouses. All others F.O.B. Westerville, Ohio.

CRL Glastar Studio Beveling System

- **Diamond Technology Makes This System Compact and Productive**

8" Vertical Wheel Beveling System

INCLUDES: 1 Each 8" Vertical Wheel Drive
1 Each 8" 100 Grit Diamond Wheel
1 Each 8" 600 Grit Diamond Wheel
1 Each 8" Synthetic Pre-Polish Wheel
1 Each 8" Wool Final Polish Wheel

CAT. NO. 33003

8" Horizontal Disc Beveling System

INCLUDES: 1 Each 8" Horizontal Disc Drive
1 Each 8" 100 Grit Grinding Disc
1 Each 8" 400 Grit Smoothing Disc
1 Each 8" Resin Pre-Polish Pad
1 Each 8" Polyester Felt Final Polish Pad
4 Each 8" Plain Steel Discs

CAT. NO. 33004

Large production beveling systems traditionally use a four-step process. Roughing removes 98% of the glass and creates the bevel shape. Smoothing grinds only enough glass to remove deep scratches created by roughing. Pre-Polish removes the scratches left by smoothing and produces a semi-polish finish. Final Polish brings the surface to a perfectly clear finish. These four steps in the Studio Beveling System (wheels or discs) employ a unique combination of the very newest materials available. The CRL Vertical Wheel System is designed to produce finished bevels on inside curves as small as 1-1/2" radius. Use the CRL Horizontal Disc System for straight edges and outside curves. The Horizontal Disc System makes learning the beveling process easier, and bevels fast because the entire edge is in contact with the discs. Instruction manual included.

REPLACEMENT WHEELS, DISCS AND ACCESSORIES

CAT. NO.	DESCRIPTION	FOR MACHINE
33912	8" 100 Grit Diamond Wheel	33003 Vertical Wheel
33882	8" 600 Grit Diamond Wheel	33003 Vertical Wheel
33905	8" Synthetic Pre-Polish Wheel	33003 Vertical Wheel
33906	8" Wool Final Polish Wheel	33003 Vertical Wheel
33985	8" 100 Grit Grinding Disc	33004 Horizontal Disc
34004	8" 400 Grit Smoothing Disc	33004 Horizontal Disc
33925	8" Resin Pre-Polish Pad	33004 Horizontal Disc
33984	8" Polyester Final Polish Pad	33004 Horizontal Disc
33986	8" Plain Steel Disc	33004 Horizontal Disc
33224	115V AC Recirculating Coolant Pump	For Both Machines

F.O.B. Los Angeles,CA.

CRL POWR-Grip Textured Surface Vacuum Cup

- **8" Diameter Cup Specifically Designed for Patterned or Irregular Glass**
- **Made of Soft 35 Durometer Rubber**
- **Available in Two Models**

The CRL 8" POWR-Grip Textured Surface Cup features a softer vacuum pad with a larger sealing edge specially designed for irregular surfaces such as textured glass. The pad is made of 35 durometer rubber, so the 8" diameter cup will attach to most textured surfaces, and carries a 75 pound lifting capacity. Available in two styles: TS8M Metal Handle with pump and valve; TS8P ABS Handle with pump and valve. Cups are supplied with protective carrying case.

Note: Although made specifically for patterned or irregular glass, the cup can not be guaranteed to work on materials having extreme surface variations.

TS8M
Metal Handle Cup

TS8P
ABS Handle Cup

CAT. NO.	DESCRIPTION
TS8M	8" Metal Handle Textured Surface Cup
TS8P	8" ABS Handle Textured Surface Cup

CRL Vacuum Cup Holster

- **Finally a Way to Hold Your Wood's Powr-Grip Vacuum Cup When You're Not Using It**
- **Keeps Your Cup at Your Side Ready to Use**

Developed by a glazier, the VCH1 Vacuum Cup Holster combines safety and convenience by keeping your vacuum cup readily available while in awkward positions, such as when working on a scaffold or ladder. This reduces the risk of injury by keeping your hands free, rather than having to hold the cup at all times.

Made from top grain cowhide, the Vacuum Cup Holster is strong enough to withstand the daily abuse of a glazier's work, but soft enough to cradle your vacuum cup and protect it from sharp edges that often lead to a cup's failure. There is also a leather strap with a steel snap that holds the cup in place until ready for use. The Holster fits belts up to 2-1/4" wide. The VCH1 is available exclusively from CRL.

Fits All Wood's 8" POWR-Grip Vacuum Cups (Not Included).

CAT. NO. VCH1

CRL Glass Jack

- **A Simple and Affordable Tool That Makes Adjusting Large Glass Panels Easy**
- **Great for the Small Glass Shop**

The CRL Glass Jack makes adjusting (or lifting) large glass and mirror panels a simple, one person job. Used in conjunction with your Wood's Vacuum Cup (not included), this precision machined tool lets you adjust and set your glass, while getting a better view of what your are doing without any interference. At the same time, you reduce your risk of back injury.

The CRL Glass Jack is set on a solid surface while you position it's cradle under your vacuum cup. Then by simply attaching your cup to the glass and turning the center adjustment bar by hand, the glass will raise or lower accordingly. The turnbuckle mechanism lets you move glass panels in the smallest of increments, without sudden movements.

Made from the highest quality aluminum, the CRL Glass Jack is built for years of service. Remember: Never exceed the recommended weight limit of your of vacuum cup. Contact CRL Technical Sales at (800) 421-6144, Ext. 777 for more information. Another product available exclusively through CRL!

CAT. NO. J1

CRL Veribor Blue Line Lever-Actuated Vacuum Cups

- **Four Models to Choose From**
- **Durable Metal Construction**

NEW

CRL Veribor Blue Line Vacuum Cups are easy to use with their simple lever action. Their high quality rubber pads develop a tremendous amount of vacuum for maximum lifting power. They will adhere to any smooth, non-porous surface such as glass, mirror, steel, aluminum, Corian™, laminates and plastics. The durable metal construction and hard coating make them tough enough for everyday use, and years of reliable service. Rubber vacuum pads measure 4-5/8" (117 mm) and are replaceable.

CAT. NO.	DESCRIPTION	NO. OF CUPS	WEIGHT CAPACITY*
6000VB	Single Lever Vacuum Cup	1	66 lbs. (30kg)
6024VB	Double Vacuum Cup	2	132 lbs. (60kg)
6020VB	Cross-Handle Vacuum Cup	2	154 lbs. (70kg)
6030VB	Triple Vacuum Cup	3	220 lbs. (100kg)
V612	Replacement Rubber Pad and Trigger		Fits All Cups Above

CAT. NO.6000VB

CAT. NO.6024VB

CAT. NO.6020VB

CAT. NO.6030VB

CRL Wood's Handi-Grip Vacuum Cup

- **3" by 6" Oval Shaped Cup for Long or Narrow Objects**

The Wood's Handi-Grip Vacuum Cup is designed for handling small to moderate size loads of glass, sheet metal, and plastic. The 3" by 6" oval shape allows for attachment on long, narrow objects such as mirror strips. Finger grip aluminum "T" handle sits atop a reliable Wood's hand-actuated pump for sure holding power. Lift tabs on edges of pad permit instant release.

NOTE: Rated for a Maximum Safe Load of 40 lbs. (18 kg).

CAT. NO. RF36HG

CRL Lexan Vacuum Cup

- **Lightweight Yet Powerful Gripping Strength**

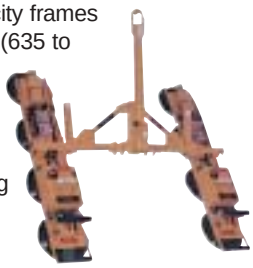
Our Lexan Vacuum Cup is lightweight yet tough, and its 4-1/2" rubber pad can develop up to 80 pounds (36 kg) of attaching pressure when applied to smooth, non-porous surfaces. Place it firmly against the glass, flip up the handle actuator and lift. It's that quick and easy!

CAT. NO. V1702

For Rent : Wood's Heavy Glass Lifting Frames

- **Don't Lose a Big Job Because You Don't Have the Right Equipment**
- **Rent the Right Equipment for Each Contract by the Week or by the Month**

You can now rent the famous Wood's POWR-Lifter Frames on a weekly basis. No need to lose a big job because you don't have the right equipment, rent it from CRL. Large capacity frames have rated capacities of 1400 to 2800 pounds (635 to 1270 kg), suitable for most any glass installation job. Rates are surprisingly affordable too. You pay for the time you have the frame, from date of receipt to the date of return shipment (along with freight charges). Factory engineers will even confirm that the frame being rented is appropriate to do your job safely. It's a program designed to help you get the jobs that you otherwise would have missed. Call CRL Technical Sales for complete details and rental rates. Smaller capacity frames are available for sale in our Big Red Master Catalog.



CRL Wood's POWR-Grip Exchange Program

- **Trade Your Worn or Damaged POWR-Grip for a Factory Reconditioned One**
- **Now Available Through All CRL Warehouses**

Your Wood's POWR-Grip might be one of your most valuable tools, but like any other frequently used item it can wear out or become damaged. Your options at this point are to replace it (costly), or repair it (time-consuming). CRL now offers an alternative that saves both time and money - the Wood's POWR-Grip Exchange Program. You send us your 8", 9" or 10" POWR-Grip. We replace it with a factory reconditioned cup at a price that beats buying a new one, and is comparable (and quicker) than having it repaired. We perform this service at each of our conveniently located service centers, reducing turnaround and shipping times. For information and pricing on this convenient CRL service, contact our Customer Service Department at (800) 421-6144.

CRL Vacuum Lifter/Roller Dolly

- **Combination Lifter and Roller is More Compact Than Conventional Dollies**
- **Powerful Suction from Vacuum Cup Holds Glass Up to 2" (51 mm) Thick Safely and Securely**

CRL has combined the safety of a vacuum cup with a rolling dolly to make a compact and portable tool for transporting glass. Use the CRL Vacuum Lifter/Roller Dolly to safely move glass easier and faster. The compact design makes this combination lifter and roller easily transported to and around the job site. Rolling wheels have sealed bearings and are 8" in diameter. Flip lever vacuum cup is 4-1/2" in diameter. Maximum material thickness is 2" (51 mm). Sold individually.

CAT.NO. LS200

Note: Maximum weight capacity is 600 pounds (272 kg) per pair.

CRL Door Jack

- **A Combination Jack, Dolly and Vise that Eases Transport and Installation of Doors**

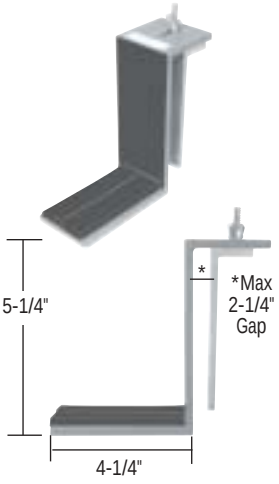
The CRL Door Jack is an 'extra hand' that makes removing, moving, installing or repairing doors a one person operation. Door Jack clamps to the strike side of most standard commercial and residential doors. Adjustable height casters make aligning the door and frame easy. For transport, just tilt the door back on the Door Jack's dolly wheels and move out. A support caster allows easy movement without lifting the door back to an upright position. Another accessory support holds the door in an upright position for hinge work. Door Jack handles doors and other materials in thicknesses from 1/2" to 2" (12 to 51 mm), and weighing up to 300 pounds (136 kg).

CAT. NO.DJ1

CRL Slic-Rak Glass Rack Expander

- **Expand Your Glass Rack Up to 100% with the Portable, Easy-to-Use Slic-Rak**
- **Installs with a Bolt and Wingnut - No Drilling Required**
- **Works on Truck, Shop or Warehouse Racks**

The CRL Slic-Rak Glass Rack Expander was invented by a glass shop owner who needed to maximize the unused space on his glass racks in the shop and on his trucks. Slic-Raks are adjustable for slats up to 2-1/4" thick, and for anywhere on the rack, allowing you to use up to 100% of the available area. Simply slip them on the slats and tighten the wingnut. Slic-Raks are made from 1/4" thick aluminum with neoprene rubber padding for glass support and protection during transport and storage. Slic-Raks are sold in pairs, and are a great addition to any glass rack.



CAT. NO. SLR2

Use Slic-Raks on your mobile glass racks to save trips back to the shop when you do those really big jobs.

CRL Pebbled Non-Adhesive Shipping Pads

- **Non-Adhesive Black Pebbled PVC**
- **No Sticky Residue Left After Removal**

CRL has a new PVC non-adhesive, mark resistant Shipping Pad. This pad is a heavy density 25 pound Pebbled PVC laminated to special cling foam. Since these Non-Adhesive Pads leave no residue there is no clean up necessary, plus they can be reused in extremely clean conditions.

CAT. NO.	SIZE	QTY. PER ROLL
PNA12B	1/4" X 1/2" X 1/2"	10,000
PNA58B	3/16" X 5/8" X 5/8"	5,000
PNA34B	1/4" X 3/4" X 3/4"	5,000

Minimum order is roll quantity.

CRL Glasstrax Glass Dolly

NEW

- Safe Glass Transport with Large 400 Pound Capacity
- Self Clamping Action Locks Loads Up to 2" Thick
- One Person Can Load and Maneuver

The CRL Glasstrax Glass Dolly makes it easier than ever to move heavy glass lites smoothly and safely. Load your glass centered on the Glasstrax and the weight of the glass will automatically pull the rubber lined side walls together, clamping it in place. The more weight loaded, the tighter the grip. Self-adjusting for glass up to 2" (51 mm) thick.

The 26" wide footprint maneuvers the load easily with a tight turning radius. Big 10" pneumatic tires let you roll over obstacles such as hoses and electrical cords that would normally prohibit the safe transport of glass. When you reach your unloading location, just lift the glass to automatically release the clamp. Made from top quality tubular steel to withstand daily use. All wheels are secured with cotter pins for added safety. A built-in pull handle lets you move the CRL Glasstrax when unloaded, and its small size makes storage convenient. Great for carrying table tops, bullet resistant glazing, or any heavy sheet material in your shop or on the job site.

CAT. NO. GT02

SPECIFICATIONS:

Maximum Capacity: 400 Lbs (181 kg)
Maximum Thickness: 2" (51 mm)
Ship Weight: 42 Lbs (19 kg)
Shipping: Can Ship U.P.S.

CRL Plate Glass Dollies

- Caster Design Allows 'Turn-on-a-Dime' Maneuvering
- Felt Pads Cushion Loads
- Mini 36" Size is Ideal for One Man Installations

CAT. NO.	LENGTH	WIDTH	HEIGHT
13063	36"	5"	6-3/4"
13065	60"	5"	6-3/4"
13066	72"	5"	6-3/4"

Use the CRL Plate Glass Dolly to move glass easier, safer and faster from upright storage. The hardwood stock has a full length 1-1/2" groove to handle single or multiple lites. The balance arrangement of casters allows you to 'turn-on-a-dime' so you can use it in restricted spaces. Two thick felt pads are located near each end to cushion the load. All wheels and casters are made of tough phenolic plastic and move on ball bearings. An ideal dolly for moving plate and safety glass, mirrors, plastic, marble and formica sheets. Dolly has a 350 pound (159 kg) capacity.

CRL SideRax™ Vehicle Side Racks

- A Convenient, Easy Way to Transport Extrusion Stock Lengths, Lumber, Pipe, Tubing, Ladders and More

- Attaches to Door or Truck Box to Transport Long Items
- Installs and Removes Quickly
- Padded for Paint Protection

NEW

CRL SideRax™ Vehicle Side Racks provide a convenient and easy way to transport long items, such as extrusions, ladders, lumber, plumbing materials and more. SideRax™ quickly mounts to an open window or truck bed side. Padded to prevent paint damage, SideRax™ fits most cars, trucks, vans and SUV's without modifications. Tie-downs secure the SideRax™ to the underside of the vehicle to keep them in place, and allow you to quickly remove and store them in the trunk. Sold only in pairs.

CAT. NO. 150SR

CRL Miter Saw Table Kit

- Sturdy Painted Steel Framing Locks Into Place with the Tap of a Mallet - No Bolts Required!
- All You Supply is 3/4" (19 mm) Plywood or Particleboard
- Comfortable 36" Working Height
- Height of Middle Shelf is Adjustable
- Ships in Only Three Cartons Via U.P.S.

Here is a quick, easy way to make the cutting area in your shop clean and efficient. Simply call CRL and place your order for a CRL Miter Saw Table Kit, and we'll ship one via U.P.S. With an overall length of 18 feet, this table can handle just about any cutting need. Its 24" depth allows you plenty of room to work. Adjustable height middle shelf gives you extra storage space. All you supply is the 3/4" (19 mm) particleboard or plywood and your miter saw.

CAT. NO. P8061R **Note:** Particleboard or plywood and miter saw not included.

CRL Portable Miter Saw Table Kit

- Fully Assembled Upon Arrival
- 31-1/2" Wide by 19" Deep by 40" High When Hinged Extensions are Folded
- 95-3/8" Maximum Width with Extensions Open
- Fence Clamp for Accurate Measurements
- Built-in Adjustable Measuring Device That Allows for Extended Length Measuring
- Easy Rolling Casters

Want to be able to move your miter saw around the shop or use it efficiently on the job site, or don't have the room for a full-length table? CRL has just what you need in the CRL Portable Miter Saw Table. It arrives fully assembled, all you add is your miter saw. **NOTE:** Can not be shipped via U.P.S.

CAT. NO. P8077R **Note:** Miter Saw not included.

CRL Aluminum Extrusion Notching Saw

- Cuts Storefront Extrusion with Accuracy
- Portable and Lightweight for On-the-Job Use
- Adjustable Cutting Height and Length

This is a new and improved model of our Aluminum Extrusion Notching Saw. New features make working with storefront metals safer and easier. The 115V AC, 1/2 HP motor has been improved, and has a thermally protected circuit to avoid overheating. For safety, the momentary actuated switch doesn't let the machine operate without your hands being on it. All of the machine bearings are sealed and self lubricating for low maintenance operation. Just periodic cleaning of the machine rails is necessary. Heavy-duty machine table and legs support your work.
The NS450 is stronger and lighter than previous models. It weighs just 67 pounds (30 kg), so it's transportable to the job site. Overall machine dimensions are 19"H by 18"W by 20"D. For Replacement Blade order Cat. No. 412.

CAT. NO. NS450

NEW FEATURES

CRL E.Z.D. Glazer De-Glazing Tool

- Aids in the De-Glazing of Glass Installed with Silicone, Foam Tapes, Butyl Tapes, and Other Flexible Materials
- Blade Lays Flat on the Glass and Slides Into the Glazing Pocket
- Extremely Simple to Use

CAT. NO.	DESCRIPTION
EZ1010	E.Z.D. Glazer
EZ1011	Replacement Blade (Old Style)
EZ1022	Replacement Blade (Threaded)

Our newest time-saver is the CRL E.Z.D. Glazer De-Glazing Tool. This simple to use tool is designed to aid in the de-glazing of glass bedded into materials commonly used in the window industry, including silicone, foam or butyl tapes, and others engineered to remain flexible throughout their service life (not recommended for use with glazing putty or other materials that harden over time). The EZ1010 goes to work when you lay the cutting blade flat on the glass surface and slide it into the glazing pocket. The glazing material is separated from the glass as you roll the tool along the entire length of the pocket. For tight fits you can facilitate the cutting process by adding soapy water or a light lubricant to the blade. A built-in knuckle protector lets you work right next to the glass for good leverage and a deep cut when needed. The E.Z.D. Glazer is simple, effective and priced right, so get one for your tool box.

CRL Window De-Glazing Tool

- Removes Window Units Safely and Easily
- Extremely Durable All-Aluminum Construction
- Adaptable for Right or Left-Handed Users

The CRL WT2000 is designed for the safe and easy removal of glazed windows from their frame. This tool offers you advantages over manual methods because the large handle allows you a positive two-hand grip, and the heat treated blade slices through the toughest of sealants.

The WT2000 has a 3-position handle for easy access to almost any side, angle or height of any window. These features help you accomplish this sometimes "impossible" task by giving you more leverage and control over the situation.

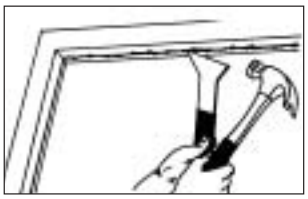
All parts of the WT2000 are replaceable, including the heavy-duty aluminum handle. The blades are sharpened to a razor edge, and are heat treated for long service life. Comes complete with two blades (one left and one right), and instructions for proper use.

CAT. NO.	DESCRIPTION
WT2000	Window De-Glazing Tool
WT2001	Right Replacement Blade
WT2002	Left Replacement Blade
WT2003	Handle Only for WT2000

CRL Double Hung Window Hackout Tool

NEW

- Speeds Hackout Time to Save You Money
- Comfortable Rubber Coated Handle



CAT. NO. WHT1

The CRL Double Hung Window Hackout Tool was designed specifically to remove putty and other materials from window grooves in a safe and efficient manner. The special shape of this tool helps to minimize the risk of injury to the hand, which sometimes occurs when improvising with a chisel or screwdriver. The result is a clean groove that ensures the correct re-glazing job will be performed while reducing the chance of damaging the window frame. Overall tool length is 11"; blade thickness is 1/8".

CRL Hacking Knife

NEW

- Hacks Out Old Putty Fast
- Sharp Precision Ground Blade

CAT. NO. HK1

The CRL Hacking Knife is a heavy-duty tool used for the removal of old putty. It features a comfortable molded plastic handle and a rugged precision ground blade. Blade size is 1-1/4" by 4"; overall length is 8-1/2".

CRL D-Flex® Cut Resistant Glass Handling Gloves and Sleeves

NEW

- D-Flex® has Three Times the Cut Resistance of Kevlar®, Ounce for Ounce
- Coated with Natural Rubber Dots for a Secure Grip
- Can be Laundered and Bleached Without Losing Their Protective Qualities

CRL's new line of D-Flex® Cut Resistant Glass Handling Gloves and Sleeves raises the safety level for you and your crew. Made from tough Dyneema® or Spectra® fibers, these gloves and sleeves are more cut resistant and more comfortable than other products of their kind. They can be laundered and bleached over and over without losing their protective qualities. We offer D-Flex® Cut Resistant Glass Gloves in the two most popular sizes and in three material weights. D-Flex® Sleeves are 21" long, with a hook and loop fastener on top to adjust to any arm size. All D-Flex® products are sold only by the pair.

D-Flex® Gloves

CAT. NO.	SIZE	DESCRIPTION
910CM	Medium	Light Weight D-Flex® Cut Resistant Gloves
910CL	Large	Light Weight D-Flex® Cut Resistant Gloves
917CM	Medium	Medium Weight D-Flex® Cut Resistant Gloves
917CL	Large	Medium Weight D-Flex® Cut Resistant Gloves
927CM	Medium	Heavy Weight D-Flex® Supreme Cut Resistant Gloves
927CL	Large	Heavy Weight D-Flex® Supreme Cut Resistant Gloves
927S	21" (53 cm)	Heavy Weight D-Flex® Supreme Cut Resistant Sleeves

All D-Flex® Cut Resistant Gloves and Sleeves can be combined for quantity pricing.

D-Flex® Sleeves

CRL Atlas Fit Gloves

- Great for Glass Handling
- Flexible, Form-Fitting and Ventilated
- A Great Glove for Yardwork or Household Chores

The CRL Atlas Fit Glove is perfect for light lifting situations where hand protection is needed. The poly/cotton glove is latex covered for maximum durability, and protects your hands while providing ventilation through the back and wrists. Specially formulated latex palm provides maximum wet gripping power while it guards against punctures and abrasions. Both versatile and economical, the CRL Atlas Fit Glove is a sure winner in hand protection. Four sizes available for the perfect fit. Sold only by the pair.

NEW

CAT. NO.	SIZES
300AFS	Small
300AFM	Medium
300AFL	Large
300AFXL	X-Large

CRL Fuzzy Duck® PVC Gloves

- Breathable PVC Coating Keeps Hands Cool
- Two-Piece Jersey Liner for Comfort
- Excellent Gripping Properties on Glass
- Four Sizes to Assure a Perfect Fit

CRL Fuzzy Duck® PVC Gloves have a breathable PVC coating on a soft, cool, comfortable, two-piece jersey liner. Their textured coating provides an excellent grip on glass, and minimizes absorption of water, oil and grease. Although not a true anti-vibration (AV) glove, they tend to absorb and minimize shock. Fuzzy Duck® Gloves outwear and replace cotton, light-to-medium weight leather and goatskin gloves in a wide variety of applications. Sold only by the pair.

NEW

CAT. NO.	SIZES
962FDS	Small
962FDM	Medium
962FDL	Large
962FDXL	X-Large

CRL Glass and Material Handling Gloves • Our Most Popular Styles

Natural Rubber Palm and Fingers

CAT. NO. 10
Knit Wrist Gloves

CAT. NO. 12
Gauntlet Cuff Gloves

- For Handling Glass and Sheet Metal
- Smooth Rubber Coating for Glass Use

CRL Glass Handling Work Gloves have a special natural rubber coating on the palm side. Their flexible back allows freedom for hand movement. The interior is lined for comfort with soft, fleece-like material. Available in full gauntlet cuff or loose knit wrist styles. Minimum order: 1 pair.

Wrinkle Finish Palm and Fingers

CAT. NO. 63PNFW
Knit Wrist Gloves

CAT. NO. 66NFW
Gauntlet Cuff Gloves

- For Handling Glass or Sheet Metal
- Wrinkled to Prevent Slippage

These wrinkle finish Glass Handling Gloves offer you improved wet or dry gripping. Natural rubber gives you higher cut and snag resistance, with more flexibility and increased wear. Soft lining for your comfort. Choice of a soft, loosely knitted wrist band or a 2-1/2" gauntlet cuff. Minimum order: 1 pair.

CRL Fingerless Gloves

- Made of Top Grain Cowhide
- Stitched with Kevlar® Thread
- Hook and Loop Closure Around Wrist

Fingerless Gloves will help protect your palms and lower finger areas while handling glass or other sharp objects. Your finger tips are exposed enough to allow dexterity and handling.

CAT. NO.	SIZE
FGS	Small
FGL	Large

CRL Flexx-Rap Protective Wrap for Hands and Fingers

- Waterproof, Flexible, Porous, Self Adhesive Without Leaving Residue

Flexx-Rap is an innovative new tape that protects fingers from cuts and blisters. It also improves your grip when wrapped around fingers, tools or sporting equipment. Flexx-Rap is waterproof, flexible, porous, hypoallergenic and self-adhesive. Flexx-Rap goes on easily and doesn't leave any residue when removed. It sticks to itself, so it won't come loose with movement, even if wet. If you work with your hands, protect them with Flexx-Rap.

CAT. NO.	COLOR	ROLL SIZE
FR51	Blue	1" x 15 Ft.

CRL Nylon Wrist Protectors

- Lightweight and Flexible
- Available in Two Sizes

CRL Nylon Wrist Protectors with improved cut resistance help protect you from cuts and abrasions. The nylon mesh provides ventilation, and two hook and loop strips make them easy to put on or take off. Great for general glaziers, window factory workers, or anybody who handles glass. Stitched with Kevlar®. Comfortable to wear. Sold only by the pair.

CAT. NO.	LENGTH
4X2257M	7" (18 cm)
4X2259M	9" (23 cm)

CRL Cane Mesh Sleeves

- Cane Nylon for Comfort
- Leather Straps Add Protection
- One Size Fits All

These sleeves are made of a single layer cane mesh, with canvas elbows for toughness. Leather strips running the length of the sleeve provide further protection. Open weave stitching allows air through the sleeves thus keeping you comfortable in warm weather.
Sold only in pairs.

CAT. NO.	SLEEVE LENGTH
CN85029	29" (74 cm)

CRL Body-Cut Protection Garments

Kevlar® Jackets for Glassworks

- **Provides Excellent Cut Protection**
- **Full Zipper Front**
- **Available With or Without Grommets in Body and Sleeves**

NEW

CRL Kevlar® Jackets were designed for the safety of the glass worker in mind. Anyone working in the glass industry is presented with the dangers of glass on a daily basis. Wearing the proper safety gear is required in order to safely carry and install glass. These Jackets are made from 8 ounce Kevbest® Kevlar®, which is many times more cut resistant than comparable materials of the same weight. The metal eyelets in the grommet style jackets are strategically placed to provide additional cut and abrasion resistance in case of contact with a glass edge. The eyelets allow increased air circulation so your employees will be more willing to wear this jacket in warmer climates. Jacket has a zipper front for easy removal. The edges are bound for a neat, professional look. Great for window factories, too. This is something that no glazier should be without.

SIZE SELECTION DATA FOR KEVLAR® JACKETS

CHEST* MEASUREMENT	SLEEVE LENGTH	SELECT THIS SIZE JACKET
48" (122 cm)	29" (74 cm)	Small
50" (127 cm)	31" (79 cm)	Medium
52" (132 cm)	33" (84 cm)	Large
54" (137 cm)	35" (89 cm)	X-Large

*NOTE: Jackets are designed to be worn over clothing. We suggest you take chest measurements while wearing a light jacket or sweatshirt to make sure you'll have freedom of movement while wearing the Kevlar® Jacket.

See Pages F316-F317 for Glass Handling Gloves

CAT. NO.	GROMMETS	SIZE
C35GKVSM	Yes	Small
C35GKVMD	Yes	Medium
C35GKVLG	Yes	Large
C35GKVXL	Yes	X-Large

All Jackets can be combined for quantity pricing.

CAT. NO.	GROMMETS	SIZE
C35KVSM	No	Small
C35KVMD	No	Medium
C35KVLG	No	Large
C35KVXL	No	X-Large

All Jackets can be combined for quantity pricing.

CRL Kevbest® Protective Sleeves

- **Top Notch Fabric with Metal Grommets for Safety**

NEW

CRL Kevbest® Sleeves offer excellent protection from glass cuts and the added convenience of a lightweight Kevlar®, which is many times more cut resistant than comparable materials of the same weight. The metal eyelets are evenly spaced to help guard against deep cuts and punctures, while offering superior cooling by ventilation through the grommets. Sleeves are held on by two separate elastic straps (included) front and rear. Sold only in pairs.

CAT. NO.	SLEEVE LENGTH
S30KV25	25" (64 cm)
S30KV27	27" (69 cm)
S30KV29	29" (74 cm)

Sizes can be combined for quantity pricing.

See Pages F316-F317 for Glass Handling Gloves

CRL Kevlar® Protective Leg Chaps

- **Made from Two Different Materials for Maximum Protection**
- **Fits Waist Sizes Up to 46" (116 cm)**

CRL Kevlar® Chaps are perfect for the glazier needing that extra protection. These Protective Chaps guard against cuts and abrasions from glass and sheet metal. Made from 22 ounce Thermobest Kevlar® material at the waist, and 8 ounce Kevbest® Kevlar® legs for maximum protection and flexibility while working. Hook and Loop closures hold the chaps to your ankles for a sure fit. Kevlar® material is lighter than leather while offering the same level of protection. Sold only in pairs.

CAT. NO.	LENGTH
L49TC34	34" (86 cm)
L49TC36	36" (91 cm)
L49TC38	38" (96 cm)

Sizes can be combined for quantity pricing.

NEW

CRL Radians® Safety Eye Wear

NEW

• Great Protection with Style

The CRL Radians® Classic features a 100% polycarbonate lens that meets the ANSI Z87.1-1989 Standard, and is distortion-free with fog and scratch resistance built in. The adjustable temple and full 155° width provide increased protection.

CAT. NO.	COLOR
CL0210	Clear
CL0220	Gray

These traditional-looking Safety Glasses combine safety and comfort at an economical price. CRL Radians® Coveralls can be worn over prescription glasses, and are an excellent choice for use as "visitor" glasses.

CAT. NO. VS0010

CRL Radians® AV's give you eye and ear protection in one, and meet or exceed ANSI standards. Hard coated 100% polycarbonate anti-fog lens is scratch resistant, and positioned with adjustable temples.

CAT. NO. AV1110

CRL Radians® Sabres™ are the newest style one-piece, combination safety eyewear/ear pods that meet the ANSI Z87.1-1989 Standard. Wraparound lens, ergonomically engineered integral nose piece and adjustable temples give you comfort and protection at the same time.

CAT. NO. SA2110

Replaceable Jelli™ Plugs are non-toxic and washable, and fit both Radians® AV and Radians® Sabres™. Sold by the pair.

CAT. NO. JP2000

CRL Respirators

• Choose from Particulate (Dust) or Organic Vapor Models

• Soft Durable Face Piece Designed for Safety and Comfort

CRL offers two types of Respirators for protection from particulates including glass grinding dust, as well as organic vapors.

The CRL ES287X Respirator comes complete with filter disks certified under NIOSH 42 CFR 84 to have a filter efficiency of 99.97% or greater against oil, non-oil aerosols, and silica (glass) dust. It also conforms to requirements for contaminants falling under OSHA substance specific standards of High Efficiency Particulate Air (HEPA) Filters.

The CRL ES285X Respirator comes with NIOSH approved cartridges for organic vapors. Common applications include degreasing, adhesive use, working with other airborne contaminants.

Particulate (Dust) Respirator and Filter Disks

CAT. NO. ES287X

Filter Disks

CAT. NO. ES286D

Minimum order is two filter disks

Organic Vapor Respirator and Cartridges

CAT. NO. ES285X

Cartridge

CAT. NO. ES286X

Minimum order is two cartridges

CRL Back Belt with Suspenders

• Adjusts for Comfort

• Hook and Loop Quick Fit

Whether you are standing up, sitting down, reaching, bending, or lifting, our newest Back Belt gives you support where you need it. Professionally designed to reduce the possibility of back stress and injury, while encouraging proper body mechanics. Adjustable suspenders, plus hook and loop waist closure make it flexible and comfortable for extended wear. Breathable material keeps you cool.

CAT. NO.	WAIST SIZES	COLOR
5900SB	Small 28" to 32"	Black
5900MB	Medium 32" to 38"	Black
5900LB	Large 38" to 46"	Black
5900XLB	X-Large 46" to 56"	Black

CRL Weight Belt

• Sizes for Waists 28" to 46"

• Sturdy Metal Buckle

• Lightweight Yet Strong

Our 5" wide Weight Belt offers back support when doing heavy lifting. A single fastening system with a 2-1/2" nickel-plated double-tongue metal buckle allows fitting to your needs. This lightweight fiber-filled belt has a neoprene back support to provide additional comfort. Additional colors and sizes available on special order.

CAT. NO.	WAIST SIZES	COLOR
WBS2834	Small 28" to 34"	Blue
WBM3438	Medium 34" to 38"	Blue
WBL3842	Large 38" to 42"	Blue
WBXL4246	X-Large 42" to 46"	Blue

CRL Measuring Tools for Professionals

CRL Tele-Tape Measuring Stick

- Simply Extend and Read from the Analog Viewing Window
- Excellent for Difficult Overhead Measurements or Window Openings
- Three Lengths Offered with a Measuring Range of Up to 197"

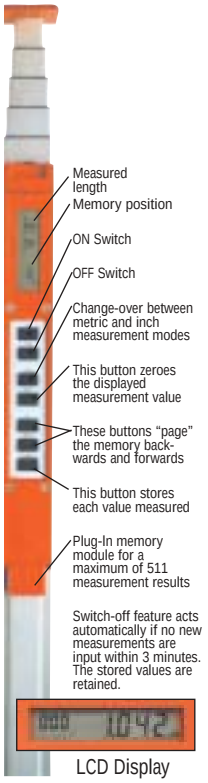
Analog Display

The Tele-Tape Measuring Stick provides precise and reliable measurements whether used up or down, diagonally or flat. Simply extend the telescoping stick and read the measurement off an analog viewing window. The built-in measuring tape and the oversized roll-up device are very tough, and can withstand extreme strain. Anodized aluminum rectangular tubes slide between highly durable dust resistant plastic guides. The smallest of the telescoping sections has a small end plate which makes it easier to pull out and, at the same time, serve as a contact surface when measuring. Three sizes are offered with retracted lengths as short as 28", and full extension lengths as long as 197".

CAT. NO.	RETRACTED/EXTENDED LENGTH
TTE118	28" to 118"
TTE158	34" to 158"
TTE197	42" to 197"

CRL Electronic Measuring Rod

- Built-in Electronic Memory Allows Storage of Measurement Values
- Basic Unit Stores 10 Measurements
- Optional Memory Module Stores Up to 511 Measurements



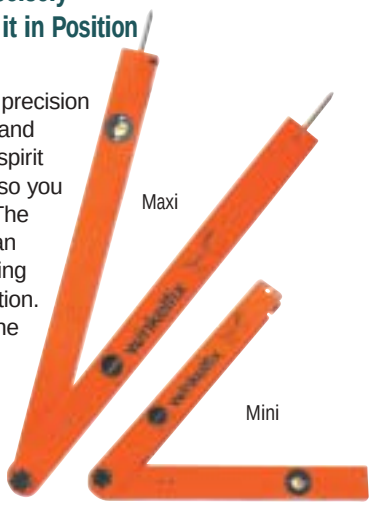
LCD Display

The Electronic Measuring Rod is the easy, convenient electronic measuring device that pays for itself in many ways, but most importantly by preventing human error. A built-in electronic memory will store 10 measurements, and an optional push-in memory module lets you store up to 511 measurements. Simply access your stored measurements and you have prevented the "double work" of writing down your figures, plus avoiding costly translation errors. Two sizes are available with a retracted length as short as 28", and a full extension length as long as 197". Ask our Technical Sales Department about an optional interface to transfer stored data to an IBM compatible PC.

CAT. NO.	DESCRIPTION	RETRACTED/EXTENDED LENGTH
TTM118	Electronic Measuring Rod	28" to 118"
TTM197	Electronic Measuring Rod	41" to 197"
TTMM1	Memory Module	----------

CRL "Anglefix" Measuring Tool

- Measure Angles Quickly and Precisely
- Built-in Spirit Levels Help Keep it in Position
- Easy to Read Analog Display



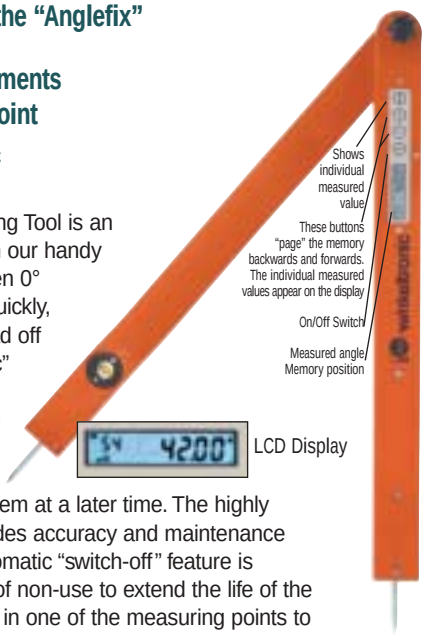
The "Anglefix" Measuring Tool is a precision measuring device that works quickly and easily. Built-in horizontal and vertical spirit levels assist in keeping it in position, so you can reliably set and read any angle. The angle measurement is displayed on an easy-to-read analog display. A clamping screw locks the "Anglefix" in any position. Two types of "Anglefix" are offered. The Mini "Anglefix " is a handy tool for glaziers, interior finishers and metal workers. The Maxi "Anglefix " is intended for glaziers, carpenters, builders and metal workers. The Maxi Model is additionally fitted with points, one of which can be removed and fitted with a pencil for compass use.

CAT. NO.	MODEL	LEG LENGTH	MEASURING POINT
TT450	Mini	14-9/16"	No
TT500	Maxi	23-5/8"	Yes

All measuring devices on this page can be combined for quantity pricing.

CRL "Angletronic" Measuring Tool

- An Electronic Version of the "Anglefix" Measuring Tool
- Stores Up to 56 Measurements
- Changeable Measuring Point
- Battery Saving Automatic Shut-Off Feature



LCD Display

The "Angletronic " Measuring Tool is an electronic device derived from our handy "Anglefix" Tool. Angles between 0° and 180° can be measured quickly, precisely and reliably, and read off the digital display. "Angletronic" has a memory capacity of 56 measurement values. You can even take measurements in difficult positions, store the measurements and access them at a later time. The highly modern optoelectronics provides accuracy and maintenance free service for years. An automatic "switch-off" feature is activated after three minutes of non-use to extend the life of the battery. A pencil may be fitted in one of the measuring points to change the unit into a compass. A truly professional tool for glaziers and builders.

CAT. NO.	LEG LENGTH	MEASURING POINT
TT505	23-5/8"	Yes

CRL Stanley FatMax™ Tape Rules

- 1-1/4" Wide Blade with 11' of Standout, the Longest in the Industry
- Easier to Read Graphics
- Dual Material Ergonomic Case
- Massive New Bumper for Increased Hook Life

NEW

Work faster and easier with the new line of FatMax™ Tape Rules. The exclusive cushion grip is built into the case for a comfortable non-slip grip and impact resistance. The specially designed, multi-functional hook grabs on side, top or bottom, and is attached with three strong rivets.

FatMax™ Tape Rules use a heavier and stronger spring for extra long life and "smooth-as-silk" blade recoil. The top forward blade lock design makes it easier to lock and unlock the blade. Blade life is extended up to ten times longer by a heavy-duty Mylar (DuPont polyester film) "blanket-wrap" coating.

CAT. NO.	BLADE SIZE
ST33716	16 Feet x 1-1/4"
ST33725	25 Feet x 1-1/4"
ST33730	30 Feet x 1-1/4"

CRL Construction Master Calculator

- "Paperless" Tape for Reviewing Past 20 Entries
- Easy to Read Display Shows Up to 11 Digits
- Includes User's Guide, Case and Battery

CAT. NO. CM4

- Solve Dimensional Math with Ease
- Instant Dimensional Conversions
- Calculate Square and Rectangular Areas
- Find Cubic Volumes
- Solve Right-Triangle Problems
- Find Regular and Irregular Hip/Valley Rafters
- Find Regular and Irregular Jack Rafters
- Calculate Stair Risers, Treads and Stringers
- Solve Raked Wall Stud Lengths
- Convert Between Volume and Weight
- Estimate Board Feet
- Find Circular Areas, Circumferences, Arcs
- Complete Metric Conversion
- Material Estimations
- Paperless Tape Function
- And Much, Much More!

CRL Starrett Digitape™

CAT. NO. D125

- Displays Feet, Inches, Fractions or Centimeters in Large, Digital Figures
- Stores Measurement in Memory
- Converts Between English and Metric Readings
- 25 Foot x 1" Blade
- Automatically Adds Length of Case to Inside Measures
- Resets to Zero at Any Blade Position

The easy to use Digitape offers remarkable electronic measuring ability. An internal optical sensor 'reads' the black squares printed along the length of the blade similar to a bar code, constantly recalibrating itself every 1-1/2". The result is consistent and reliable accuracy. Digitape has a two-in-one capability: use it as an electronic tape when you need to utilize any of its many electronic features, as a manual tape, or both. This dual capability is sure to appeal to professionals and do-it-yourselfers.

CRL Hi-Visibility Tape Rules

- Easy to See Orange Case
- Easy to Read Yellow Blade

Our High Visibility Tape Rules have a fluorescent orange case that's easy to find on the jobsite. The yellow steel blade has large, easy-to-read numerals, and quick, smooth rewind. Thumb-lock button holds blade in place during use. Belt clip included. Also available with metric measurements.

CAT. NO.	BLADE SIZE
TR125S	25 Feet x 1"
TR125M	8 Meters x 1"

CRL E-Z Read™ Tape Rules

- Tape Identifies Measurements in Feet, Inches and 1/8" Increments

These E-Z Read Tape Rules have a patent pending yellow blade that is truly easy to read. That's because it identifies measurements in feet, inches and 1/8ths of an inch, plus includes markings for wood and metal studs. Other great features of the E-Z Read include thumb control lock and power return, lightweight composite case with belt clip, cushioned blade return, and riveted sliding end hook for true zero measurement.

CAT. NO.	BLADE SIZE
43113	12 Feet x 1/2"
43119	16 Feet x 3/4"
43123	25 Feet x 1"

CRL PLS2 Palm Laser®

NEW

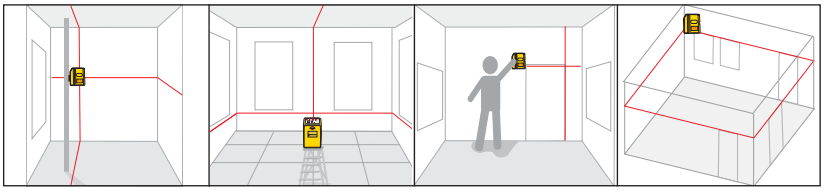
- Hand Held Plumb, Level and Square Laser Line Tool
- Bright Crisp Beams Accurate to 1/8" at 30 Feet
- Brighter than Most Rotary Lasers at a Fraction of the Cost

CAT. NO. PLS2

PLS2 Palm Laser Specifications

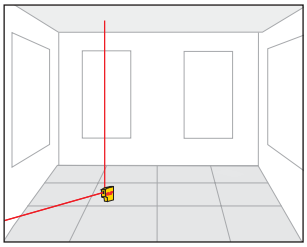
• Working Range:	+/- 100 Feet	• Dimensions:	2" x 2-7/8" x 3-3/8"
• Accuracy:	1/8" @ 30 Feet	• Weight:	10 Oz. (.28 Kg.)
• Leveling:	Automatic	• Line Length:	60 Feet @ 30 Feet
• Leveling Range:	+/- 6°	• Fan Angle:	90°
• Power Supply:	3 AA Batteries	• Warranty:	90 Days
• Operating Time:	+ 25 Hrs. Continuous Use with Single Beam; +12.5 Hrs. Both Beams		

Fast, accurate and portable, the PLS2 Palm Laser saves you time and money when your bubble vial level or rotary laser is too limited or too cumbersome for the job. With line length of 60 feet when the laser is 30 feet away, 100 foot range and multiple functions, the PLS2 lets you: Check existing conditions before you submit your bids; Layout all your alignment tasks with the PLS2 in the palm of your hand; Stop wrestling with your bubble vial level. PLS2 operates on 3 AA batteries (not included) and comes with a wall bracket and carrying pouch.



CRL PLS3 Standard Laser Tool

- Establishes Plumb and Level
- Three Bright Reference Points
- Self Leveling, No Bubble Vials or Knobs
- Clearly Visible Indoors or Outdoors
- Guaranteed Accurate Within 1/4" at 100 Feet
- Field Tested for Dependability and Durability
- Tough, Water Resistant Leather Belt Mount Carrying Case



CAT. NO. PLS3

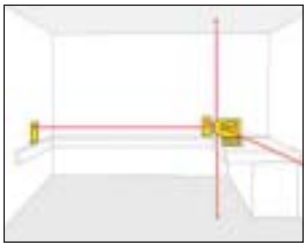
The PLS3 Standard Laser Alignment Tool gives you the convenience of a torpedo level with the quality of information available only from a professional point-to-point laser. Three bright laser points allow the PLS3 to be used anywhere on the job site for level reference and point-to-point plumb from floor to ceiling, or from up to 50 feet off the ground. Accurate to within 1/4" at 100 feet, the compact PLS3 is just a little bigger than a 25 foot tape rule, and is simple to use, with a self-leveling system that dampens quickly for instant set up. Weighing only 12 ounces, this hand held unit operates on three AA batteries (not included) for up to 30 hours. Comes with a leather carrying pouch, operating manual, and full one year warranty.

PLS3 Laser Specifications:

• Working Range:	+/- 100 Feet
• Accuracy (all beams):	<1/4" @ 100 Feet
• Leveling:	Automatic
• Leveling Range:	+/- 6°
• Power Supply:	3 AA Batteries
• Operating Time:	+ 30 Hrs. Continuous
• Dimensions:	1-1/2" x 4-1/2" x 3-1/8"
• Weight:	12 Oz. (.33 Kg.)
• Warranty:	1 Year

CRL PLS5 Deluxe Laser Tool Kit

- Designed by Contractors, for Contractors
- Establishes Plumb and Level
- Five Bright Reference Points
- Clearly Visible Indoors or Outdoors
- Guaranteed Accurate Within 1/8" at 100 Feet
- Save Work Hours - Use the PLS5 as Your Work Partner
- Durable - Built to Withstand Tough Job Site Conditions



CAT. NO. PLS5

The PLS5 Deluxe Laser is the only alignment tool that provides simultaneous plumb, level and square references in a compact, accurate and affordable package. True point-to-point alignment information speeds layout and installation of curtainwalls, doors, windows and skylights. Accuracy is guaranteed to be within 1/8" at 100 feet, even if the mounting surface is out of level, because the PLS5 will compensate to give you a true reading if it rests within 8° of true level. Five bright reference points are easily seen indoors or out, and are powered by three AA batteries (not included). Comes complete with floor mount, magnetic wall mount, layout targets, carrying case, operating manual, and full one year warranty.

PLS5 Laser Specifications:

• Working Range:	+/- 100 Feet
• Accuracy (all beams):	<1/8" @ 100 Feet
• Leveling:	Automatic
• Leveling Range:	+/- 8°
• Power Supply:	3 AA Batteries
• Operating Time:	+ 30 Hrs. Continuous
• Dimensions:	2-1/2" x 6-1/2" x 4-1/4"
• Weight:	1.7 Lbs. (.77 Kg.)
• Warranty:	1 Year

CRL RoboVector 5-Way Laser

- 5-Beam All-In-One Square, Plumb Bob and Level
- Automatic Self-Leveling Range of ±10°
- Range of 70 Feet

The CRL RoboVector 5-Beam All-In-One Square, Plumb Bob and Level is no bigger than a large tape measure. It has a gravity driven pendulum that is constantly self-leveling, and is accurate ± 1/4" at 70 feet. It features a single piece, diamond cut beam splitter that guarantees perpendicularity of all five beams, and it will preserve its accuracy over time. Ideal for shower door installations, square foundation walls, square window frames, plumb walls and door frames, drainage lines, heat and air duct work, and more. Unit consists of the laser and instructions packaged in a heavy-duty plastic carrying case. Requires four AA batteries (not included).

CAT. NO. R0B0V

CRL RoboLaser Rotating Laser Kit

- Accuracy to 1/8" at a Distance of 100 Feet
- Three Speed Remote Control
- 360° Continuous Rotation

The CRL RoboLaser is a remote controlled self-leveling tool that is accurate within ±1/8" at 100 feet. It provides optimum accuracy by using gravity to constantly self-level. One person is able to set it up and remotely control it to mark the level marks from up to a 200 feet in distance! The remote control features three speeds of rotation: low, medium and high. This unit has an automatic self-leveling range of ±10°. Ideal for foundation layouts, setting forms, siding, masonry walls, tile, framing, finish carpentry and grading. Remote control has three speeds in each direction for speed and precision pointing. Complete kit consists of rotating laser, remote control and instructions packaged in a heavy-duty plastic carrying case. Requires one 9V and four AA batteries (not included).

CAT. NO. R0B01

CRL PLS1 Distance Measuring Laser

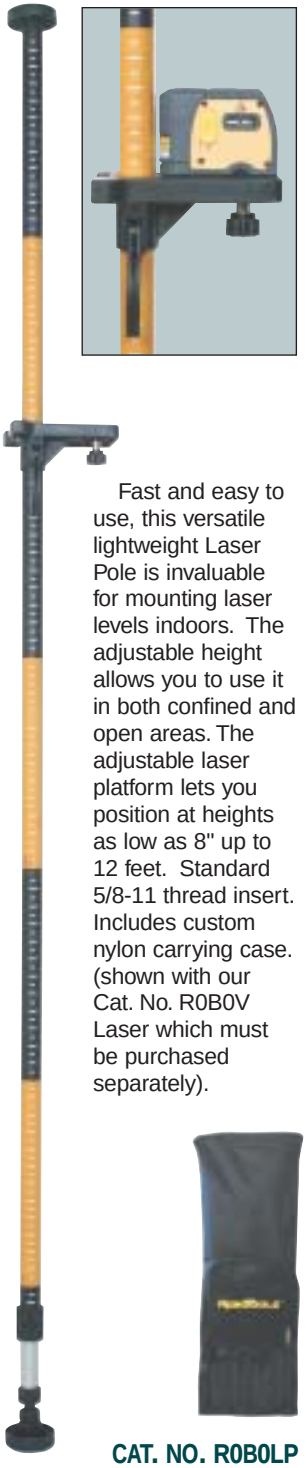
- Accurate and Dependable Measurements with the Press of a Button
- Distance Measuring Accuracy of 1/8" at 300 Feet
- Measures Distances, Areas and Volumes Indoors and Out

The CRL PLS1 Distance Measuring Tool allows contractors, architects, estimators and project managers to take critical layout measurements accurately and dependably with the press of a button. Save valuable time and re-work with each project. The PLS1 measures distances, areas, volumes and height differences. It adds, subtracts and even multiplies. Continuous trace measurements and time delayed readings. Quickly estimate building material requirements. This hand held battery powered unit is a contractor's dream! Light, easy to use, accurate and fast. Operates on 4 AA batteries (included).

CAT. NO. PLS1

CRL Robo Laser Interior Pole NEW

- Lightweight and Versatile
- Fully Adjustable



Fast and easy to use, this versatile lightweight Laser Pole is invaluable for mounting laser levels indoors. The adjustable height allows you to use it in both confined and open areas. The adjustable laser platform lets you position at heights as low as 8" up to 12 feet. Standard 5/8-11 thread insert. Includes custom nylon carrying case. (shown with our Cat. No. R0B0V Laser which must be purchased separately).

CAT. NO. R0B0LP

CRL QuickBlade Utility Knife

- Quick, Easy Blade Changing
- Spring Loaded Hinged Body

CAT. NO. 77K

Blade Changing is faster than ever with the CRL QuickBlade Utility Knife. Rugged metal body is ergonomically designed with two rubber grip pads for comfort and control. One hand thumb-turn movement operates the spring loaded, hinged release to open the split body of the knife. Storage area inside the handle holds five extra blades and the closed top blade guard prevents injury from blade slippage. Uses Cat. No. 1992C Heavy-Duty Utility Knife Blades.

CRL Retractable Blade Utility Knife

- A Great Knife at a Low Price

CAT. NO. 97K

The CRL Retractable Blade Utility Knife is an easy to use knife made of strong industrial quality metals. It uses our 1992C Heavy-Duty Utility Knife Blades which must be purchased separately. For the shop that uses and/or loses a lot of knives, this inexpensive model is an ideal choice.

CRL Safety Slitter

NEW

- Slits Films and Sheet Material Up to 1/8"
- High Density Plastic Handle

CAT. NO. 20027

The CRL Safety Slitter makes opening your shipments of stretch wrapped parcels fast and easy. The blade is positioned to prevent accidental injury. Use it to cut through nylon strapping, rope and twine up to 1/8" thick. The handle has a ribbed thumb pressure area for control. Safety Slitter Blades change with only one screw.

CAT. NO.	DESCRIPTION
20027	Safety Slitter
20027B	Pack of 10 Slitter Blades

CRL Swift Switch Retractable Utility Knife with Holster

- No Tools Required to Change Blades
- Belt Clip Holster Keeps Knife Handy

NEW

CAT. NO. 03832

The CRL Swift Switch Retractable Utility Knife with Holster features a heavy-duty non-slip grip and safety tip blade end. Changing blades is quick and easy. Just pull back the end of the knife and rotate to release the two part body and open the knife. Blade storage inside the handle accommodates five extra blades. Heavy plastic Belt Clip Holster keeps your Swift Switch Knife ready at all times, and has a built in pencil holder. Uses Cat. No. 1992C Heavy-Duty Utility Knife Blades.

CRL Stanley SportUtility™ Knife

- Two Knives in One
- Stainless Steel Serrated Sports Blade

NEW

CAT. NO. ST10801

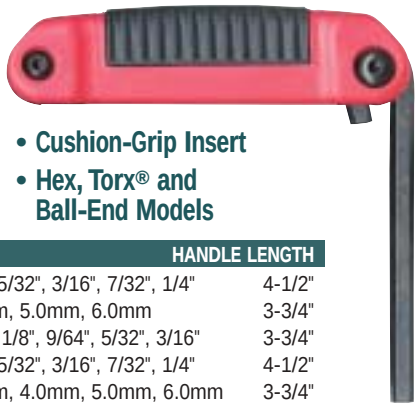
CRL introduces the SportUtility™ Knife from Stanley. This multi-function two-in-one knife has a retractable utility blade on one end, and a stainless steel sports blade on the other. Ideal for the pros in the industries we serve, the SportUtility™ Knife goes beyond the job site. It's handy for camping, boating or for use around the house. The locking sports blade with serrated edge can be opened with one hand, and the ergonomic design allows for multiple grip positions for better control. A durable nylon belt sheath is included. Quick blade change compartment in the handle comes with three blades. Uses our Cat. No. 1992C Heavy-Duty Utility Knife Blades.

CRL Ergo-Fold™ Hex and Torx® Key Sets

Ergo-Fold Key Sets feature a composite grip handle shaped for superior ergonomics. A soft cushion-grip insert provides comfort and slip resistance. A hard shell provides maximum strength. As strong as steel, they are guaranteed forever. Ergo-Fold Keys provide extra reach for safer clearance from your work. All Fold-up Sets can be used at a right angle to generate maximum torque. Additionally, they can be used like a screwdriver, with the key folded out to a firm stop.

Ball End Hex | Straight Hex | Torx®

EF919 EF169 EF911/912 EF171 EF582



- Cushion-Grip Insert
- Hex, Torx® and Ball-End Models

CAT. NO.	TYPE	KEYS	KEY SIZES	HANDLE LENGTH
EF919	Ball End Inch	9	5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	4-1/2"
EF169	Ball End Metric	6	2.0mm, 2.5mm, 3.0mm, 4.0mm, 5.0mm, 6.0mm	3-3/4"
EF912	Hex Inch	9	.050" 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16"	3-3/4"
EF911	Hex Inch	9	5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4"	4-1/2"
EF171	Hex Metric	7	1.5mm, 2.0mm, 2.5mm, 3.0mm, 4.0mm, 5.0mm, 6.0mm	3-3/4"
EF582	Torx®	8	T6, T7, T8, T9, T10, T15, T20, T25	3-3/4"

All Ergo-Fold™ Key Sets can be combined for quantity pricing.

CRL Olfa Knives and Blades

Heavy-Duty Retractable Point Knife

- All Purpose Knife

Knife Length 5-1/2"

Comfortable Rubber Grip

This Heavy-Duty Retractable Knife features a high impact plastic handle and stainless steel blade housing. The positive locking thumb screw allows the blade to be set to desired length.

CAT. NO.	DESCRIPTION
L2K	Heavy-Duty Knife

Can be combined with other utility knives for quantity pricing.

Long Reach Retractable Point Knife

Comfortable Rubber Grip

- Reaches Bottom of Windshield

Knife Length 11"

The Olfa Long Reach Retractable Knife was designed with hard to reach places in mind. Reaching along the bottom of windshields will no longer be a problem with our XL2 Long Reach Knife. Locking thumb screw, stainless steel housing and rubber grip provides safety and comfort.

CAT. NO.	DESCRIPTION
XL2	Long Reach Knife

Can be combined with other utility knives for quantity pricing.

Replacement Blades

- Blades Fit L2K and XL2 Knives

LB10B Heavy-Duty Breakaway Blades

LS0L Heavy-Duty Solid Blades

CAT. NO.	DESCRIPTION
LB10B	10 Breakaway Blades
LS0L	10 Solid Blades

Can be combined for quantity pricing.

Super Heavy-Duty Knife

- Large 1" Wide Blade

Knife Length 6-3/4"

HB5B Blades for H1K Heavy-Duty Knife

This knife was designed for the toughest of jobs with a .028" thick blade that will extend a full 4". A rubber grip handle on the back side provides a non-slip surface for safety and comfort. The H1K is the choice for heavy-duty cutting.

CAT. NO.	DESCRIPTION
H1K	Super Heavy-Duty Knife
HB5B	5 Breakaway Blades

Can be combined with other utility knives for quantity pricing.

Compact Knife

- Fits In Shirt Pocket

Knife Length 5-1/4"

AB10S Blades for SVR1 Compact Knife

The SVR1 Compact Knife is a slim knife that is great for cutting urethane, silicone, boxes and more. Although this knife is compact, quality was not forgotten. The SVR1 housing is made of stainless steel, and the pocket clip doubles as a device to snap away the used section of blade.

CAT. NO.	DESCRIPTION
SVR1	Compact Knife
AB10S	10 Breakaway Blades

Can be combined with other utility knives for quantity pricing.

Plastic Cutter Knife

- Cuts .100" and .125" Thick Plastic

PB800 Blades for P800 Knife

Knife Length 6-1/2"

Cutting plastic is made simple with our P800 Plastic Cutter Knife. For those temporary repairs using plastic, every installer should have our plastic cutter in the tool box. Each knife comes with two blades which can be stored in handle. A simple to remove thumb screw makes blade changes easy.

CAT. NO.	DESCRIPTION
P800	Plastic Cutter Knife
PB800	3 Plastic Cutter Blades

Can be combined with other utility knives for quantity pricing.

CRL Stanley Swivel-Lock Utility Knife

- Ergonomic Design
- Quick Blade Change

No need to look for a screwdriver when you need to change blades. With a simple push of a button the handle swivels open, allowing you to change blades quickly and safely. Three extra blades are stored in the handle, which has an ergonomic design to reduce slippage. Uses any of the CRL Utility Blades shown at right.

CAT. NO.	DESCRIPTION
ST10399	Swivel-Lock Utility Knife

CRL Extra Long Utility Knife Blade

- Fits Urethane Knives Using Utility Blades

Extra Long Utility Knife Blades have an exposed cutting edge of at least 2-1/4", more than double the cutting edge of standard utility knife blades.

CAT. NO.	QTY./PKG.
1993X10	10

Can be combined with other utility knife blades for quantity pricing.

CRL Utility Knife Blades

CRL Utility Knife Blades fit all standard, heavy-duty, and retractable blade utility knives. The 1992C features an easy slide-out dispenser.

Standard
1991

Heavy-Duty
1992

Hook End
1996

10 Blade Dispenser
1991X10 Standard
1992X10 Heavy-Duty
1996X10 Hook End

1992C
100 Blade
Slide-Out Dispenser

1991C
and 1996C
100 Blade
Dispensers
(20 5-Packs)

CAT. NO.	BLADE TYPE	QTY./PKG.	PACKAGING TYPE
1991C	Standard	100	20 Each 5-Pack Blades
1991X10	Standard	10	10 Blade Dispenser
1992C	Heavy-Duty	100	100 Blade Dispenser
1992X10	Heavy-Duty	10	10 Blade Dispenser
1996C	Hook End	100	20 Each 5-Pack Blades
1996X10	Hook End	10	10 Blade Dispenser

10 packs can be combined for quantity pricing. 100 blade dispensers can be combined for quantity pricing.

CRL Stanley FatMax™ Screwdrivers NEW

- Maximum Torque with Minimum Effort
- Soft Grip with Textured Surface for Comfort
- Ergonomic Tri-Lobular Handle

Our new CRL Stanley FatMax™ Screwdrivers give you 30% more torque for less effort over traditional screwdrivers. These top-of-the-line tools were designed for strength and durability. Nylon core handles make an unbreakable bond with the handle, and the soft rubber grip is solvent resistant. Tip identification is molded into each handle. Each set features the most popular sizes to meet most fastening applications. The 12 piece set includes a tool roll for convenient storage and easy access.

CAT. NO. ST67082
CONTAINS:
1/4" x 4" Standard, 5/32" x 4" Cabinet, #1 and #2 Phillips Tips

CAT. NO. ST67077
CONTAINS:
1/8" x 3" Instrument, 1/4" x 4" Standard, 5/16" x 6" Standard, 3/16" x 6" Cabinet, #1 and #2 Phillips Tips

CAT. NO. ST67074
CONTAINS:
7/32" x 3" Standard, 1/4" x 4" Standard, 3/8" x 8" Standard, 7/32" x 4" Standard, 5/16" x 6" Cabinet, 3/32" x 3" Instrument, 3/32" x 4" Instrument, 0 pt Instrument, #1 and #2 Phillips, 1 pt and 2 pt Pozidriv, Tool Roll

CRL Pocket Drive Tool

- A Convenient 6 in 1 Screwdriver in a Compact Carrying Case

The Pocket Drive Tool is a convenient and compact 6 in 1 screwdriver. It is in a small plastic case (1-3/4" by 2-3/4") with a clip attached, allowing you to carry it on a belt, strap, or even on a car visor. Inside the case are six bit tips (#1, 2, 3 Phillips and #4, 6, 8 Slotted) and a 2-3/8" long magnetic shaft. Simply open the case, remove the mag shaft and the desired bit tip. Then, close the case and insert the mag shaft into the hole at the end of the case. With the case acting as a handle, you now have a 6 in 1 screwdriver!

CAT. NO. PD6N1

CRL Makita Finder/Driver

- Start Screws the Easy Way
- Screw Holder Holds Screw in Correct Starting Position Without Wobbling or Disengaging from the Bit
- Outer Sleeve Slides Over the Screw and Keeps Bits in the Screw Slot
- Magnetic Bit Holder Holds All Types of Hex Insert Bits

The Makita Finder/Driver is a great accessory for anyone using an electric screwdriver. An extra strong magnet in the end secures all types of hex insert bits. The outer sleeve slides over the screw to keep it from wobbling or disengaging from the bit, even when driving in a horizontal position. Both the Regular and "Stubby" Finder/Driver accept #10 and smaller screws. Each comes with one #2 Phillips bit and one #6-8 straight bit.

CAT. NO.	DESCRIPTION
784810A	Regular Finder/Driver
784811A	"Stubby" Finder/Driver

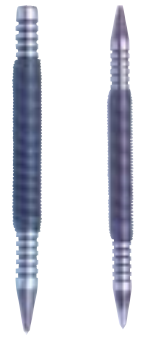
Can be combined for quantity pricing

Stubby Regular

CRL Noxon® Center Punch and Nail Set

- No Hammer Needed
- Made of Hardened Steel
- Ringed Ends for Sure Grip

With the CRL Noxon® Center Punch and Nail Set it is a snap to mark the spot in a great variety of materials. Simply locate the spot to be punched, place tip and press, lift plunger and release. The heavy spring action produces quick results. Choose either the two-end snapper Center Punch and Nail Set, or the Center Punch only. Made in U.S.A.



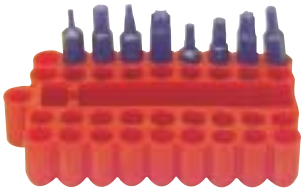
Center Punch Only | Center Punch/ Nail Set

CAT. NO.	DESCRIPTION
NOX1	Center Punch Only
NOX2	Center Punch/Nail Set

Can be combined for quantity pricing

CRL Bit Caddy

- Holds Up to 37 Hex Insert Bits
- Center Slot Holds Magnetic Adapter



CAT. NO. APH037

The CRL Bit Caddy will secure as many as 37 bits, and has a center slot to store a magnetic adapter. This soft, red plastic case is both practical and convenient. Compact size to fit any tool box.

CRL Countersink Set

- Our Four Most Popular Sizes in a Handy Hardwood Block to Keep Them Organized

The best-selling line of CRL Weldon Countersinks is available in a set of the four most popular sizes, organized in a hardwood block. Chuck them into your drill and get smooth countersunk holes every time.

CAT. NO.	SET INCLUDES ONE EACH
CS618S	CS6S, CS8S, CS10S and CS18

CRL Makita 3/8" Cordless Driver/Drill

- Cordless, Reversible and Powerful Drill has 12V DC Motor
- Two Variable Speed Ranges: 0-450 RPM and 0-1400 RPM
- Keyless Chuck for Quick Bit Changes

CAT. NO. 6213DWAE

Makita's model 6213DWAE Cordless Driver/Drill has a 12 volt power system that delivers a maximum torque value of 287 in./lbs. This 3/8" Driver/Drill has all of Makita's finest tool features: removable 12 volt battery (with charger) for powerful performance; two reversible variable speed ranges (0-450 or 0-1400 RPM); keyless chuck (capacity 1/16" to 3/8") with positive lock feature; 18 torque settings; electric brake for pinpoint seating of screw head; slim grip handle for superb balance and less operator fatigue. The 6213DWAE is bound to be the best Driver/Drill you ever used.

STANDARD EQUIPMENT:
Standard equipment includes: driver/drill, two batteries, charger, positive lock keyless chuck, Phillips/Slotted bit, belt clip, battery cover and plastic tool case.

CRL Stanley MaxGrip™ Locking Adjustable Wrench

- Use as an Adjustable Wrench
- Use as Locking Pliers
- It's Two Tools in One

NEW

CAT. NO. ST85610

The new MaxGrip™ Locking Adjustable Wrench combines two tools in one: an adjustable wrench and a locking plier. To prevent the tool from detaching from a fasterner, the wrench's jaws close to lock on. This feature will keep the user from damaging sensitive materials such as copper pipes, chrome fittings, and a variety of delicate detailed fasteners. The wrench can apply more than 300 pounds of force depending upon how close the movable jaw is to the fastener. When the locking wrench is securely fitted to the fastener, the user can let go of it to free up their hands for other tasks because the wrench will maintain its grip on the fastener. This is especially advantageous when working in very tight spots. Built to last, the MaxGrip™ Wrench is made from high-quality, heat-treated carbon steel.

CRL Universal Pressure Drill

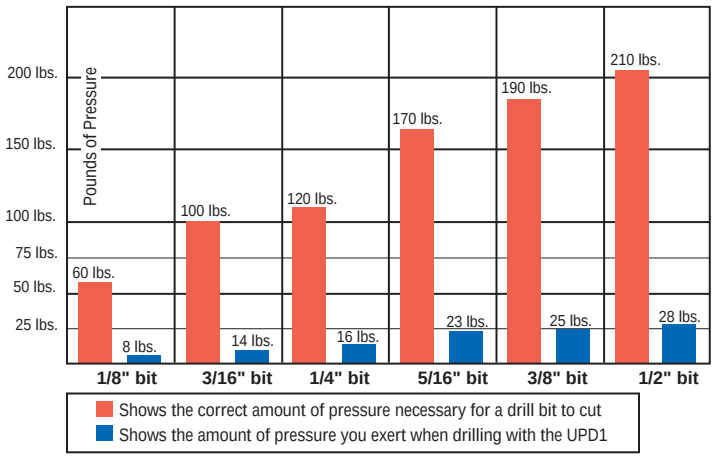
- Drill 3/8" Steel in as Little as 45 Seconds
- Bits Last Up to 10 Times Longer
- Cuts Labor Costs by Up to 75%

NEW

CAT. NO. UPD1

The CRL Universal Pressure Drill lets you drill without applying all your body weight and arm pressure. 1/2" drill bits usually take 210 pounds of pressure to get the best results. With the CRL Universal Pressure Drill you'll only need 28 pounds of less tiring and less dangerous pressure to do the same job. Drill bit life can be extended up to 10 times when compared with hand drilling. Excellent results with self-drilling screws too.

Years of testing at hundreds of job sites have proven the reliability and performance of this ruggedly constructed tool. Includes a permanently mounted special 1/2" Porter Cable Drill Gearbox Combination Machine, an extension rod that reaches from 38" to 92", and a brace. Optional adapters are available for drilling pipe in very tight spots and extra depth applications. Contact CRL Technical Sales at (800) 421-6144, Ext. 777 for more details, e-mail **techsales@crlaurence.com.**



CRL Toolzall™ Multi-Purpose Tool

- 13 Tools in One
- Comfort Grip Handles
- Protective Belt Sheath

- Metal/Wood File
- 3 Flat Head Screwdrivers
- #1 Phillips Screwdriver
- Awl
- Serrated Drop Point Knife
- Can and Bottle Opener
- English/Metric Ruler
- Needle Nose Pliers with Wire Cutters

CAT. NO. TZ1D

The durable stainless steel Toolzall consists of 13 of the most commonly used tools. Comfort grip handles on the Toolzall make any job easier, and the protective sheath fits right on your belt.

CRL Ratcheting Extension Screwdriver with Six Bits

- Magnetic Tip Shaft Extends from 9-1/4" to 15" and Locks in Place
- Six Bits Held Conveniently in Collar

CAT. NO. H109

The CRL Ratcheting Screwdriver has a magnetic tipped shaft that extends from 9-1/4" to 15" in 1/16" increments and locks in place automatically. You retract it by pushing up on the release collar that also holds the six insert bits: two each Phillips, Slotted and Torx. The handle can be made ratchet left, ratchet right, or lock in place, and even has a soft, comfortable grip.

CRL Offset Hex Bit Driver

- Holds All 1/4" Hex Insert Bits
- Lubricated, Sealed Gears
- You Can Remove the Handle to Use it in Your Electric Driver

The CRL Offset Hex Bit Driver lets you fasten or remove screws located in channels, under edges, or in areas where any regular screwdriver cannot fit. It has a 360° adjustable thumb flange with slip-fit action that quickly rotates to any position, allowing you to apply maximum force and giving you complete control. The hardened plastic handle has storage area for the #1 and #2 Phillips, and 3/16" and 1/4" Slotted bits that come with it.

CAT. NO. M14895

CRL Heavy-Duty Razor Scraper

- Holds 51S Single Edge or CP866088 Plastic Razor Blades
- Comes with One Metal and One Plastic Razor Blade

CAT. NO. CRL761

The CRL Heavy-Duty Razor Scraper safely holds all single edge razor blades while scraping windows, walls, etc. Handle has a hollow center to hold extra metal or plastic razor blades. 11" overall length.

CRL "Toolvest"

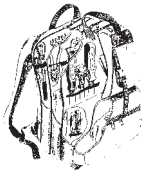
- Attractive Pocketed Vest Keeps Tools at Arms-Length
- Over 20 Pockets
- Cool Nylon Mesh Back

CAT. NO. 94350

"Toolvest" has 14 easy access pockets, six flap-covered pockets, and a large rear pocket with both left and right access. A zippered neck opening provides comfort. Two buckles on each side of the vest allow adjusting for size. It comes in black with red front flaps and red back panel.

CRL "ToolPak™"

- A Hands-Free Backpack Tool Organizer



"ToolPak" features three nylon zippered compartments, six fold-out compartments, over 100 tool pockets, a large map/diagram pocket, a quick release trouble light loop, and two easy access outer pockets. Made from durable 1000 Denier Cordure. Attractive black color.

CAT. NO. 90650

CRL Multi-Cutter

- Makes Straight or Precise Mitre Cuts

Great for cutting PVC strips, rubber gaskets, molding and weatherstrips. Speeds production. Simply align the material to be cut with the desired angle line on the tool's platform and you have a perfect 90°, 75°, 60° or 45° mitre cut every time.

CAT. NO.	DESCRIPTION
MC80	Multi-Cutter
MC80B	100 Pack Multi-Cutter Blades

CRL Tyvek® Shoe Covers

- Use to Protect Your Customer's Carpets
- Made of Lightweight Tyvek® Material with PVC Sole
- One Size Fits All

Impress your customers as you protect their expensive carpets and flooring from grease, dirt, oil, paint, wax, etc. Shoe Covers are made of lightweight Tyvek® tops, and PVC soles. Tyvek® is a durable tear and puncture resistant material that won't absorb liquids. Tyvek® is not paper, so it remains strong, wet or dry. Interlocking closed seam construction gives maximum protection from liquid penetration, spills and splashes. A must for residential mirror installers.

CAT. NO.	CONTENTS/PACK
1SC	10 Pairs

Extra large boot covers available on special order.

CRL Pro Pads™ Knee Pads

- Provide Protection and Comfort While Kneeling
- One Size Fits All

CAT. NO. PP91012

Pro Pads™ gives support while kneeling, and protection against bumps. Stitched-on caps are stronger than rivet-on style, and won't collect debris under the caps. Medical grade, tight weave elastic straps hold comfortably without binding, and give excellent service longevity. Straps and pads are black, caps are light gray.

CRL Bucket Boss 35

- Fits Any Standard 5 Gallon Bucket
- 35 Pockets: 24 Outside, 11 Inside
- Made of Durable Red Nylon Anso-Tex®

The Deluxe Bucket Boss 35 turns any ordinary 5 gallon bucket into an organized tool carrier.

CAT. NO. BC1001

CRL Bucket Boss 24

- Economy Alternate to the Bucket Boss 35
- 24 Pockets: 17 Outside, 7 Inside
- Rugged 600 Denier Fabric

The Bucket Boss 24 gives the same convenience as the Bucket Boss 35, but at a more economical price.

CAT. NO. BC1024

CRL Bucket Seat Pro

- Fits All Standard 5 Gallon Buckets, Even with a Bucket Boss in Place

The improved Bucket Seat Pro now has six compartments to hold small parts.

CAT. NO. BS2002

CRL Bucket Stackers

- Molded Trays with Separators to Keep Small Parts Organized
- Convenient Grab Handle for Easy Carrying
- Easy to Find Bright Yellow Color

CAT. NO. BC15011

Bucket Stackers are 2" deep injection molded trays divided into four separate compartments to hold fasteners, small parts, whatever. You can stack up to five stacker trays in your 5 gallon buckets to create an inexpensive and easy method of keeping your small items organized. Works great when paired with a Bucket Boss.

CRL Parachute Bag

- Separates and Organizes Small Parts
- Automatically Closes When Lifted
- Flat Bottom Design Prevents Tipping

CAT. NO. PB5001

The Parachute Bag has six compartments to hold your screws, nuts, bolts, sockets or any small parts. This khaki tan canvas bag will fit up to four deep in any standard 5 gallon bucket. Strung with authentic military parachute cord, the Parachute Bag keeps those small parts in plain sight for easy access.

CRL Riggers Bag

- Heavy Canvas Bag has 30 Pockets of Various Sizes
- Natural Tan Canvas is 50% Heavier Than Denim

Constructed of the heaviest canvas available, the Riggers Bag utilizes a timeless design to provide a bag you can trust to tote your tools. Triple bottom construction provides strength, while open top and open center allow easy access.

CAT. NO. RB6001

CRL Worksite Basket

- Lightweight and Rugged Carrier for Tools and Supplies
- Measures a Big 16" by 10" by 10" Inside

The CRL Worksite Basket is the handy way to carry your supplies on the job. Folding handles make it very convenient to carry or store. See-through sides make it easy to see what's inside. Blue color.

CAT. NO. WB33

CRL Putty Softener

- Safe, Solid Calrod Style Heating Element

CAT. NO. 4500

Our Putty Softener has many improvements to provide long tool life and quick putty removal. It is made of aluminum and special Hi-Temp plastic which make it lightweight yet very durable. Instead of using the old style coiled wire element (which has limited life), we use a safe, solid calrod style element for longer life. The element is exposed on three sides so either right hand or left hand corners can be worked without rotating the tool. It is U.L. approved, with a six month warranty.

CRL Putty Remover

CAT. NO. PR9000

- Removes Hardened Putty Without Damaging the Glass or Sash
- Fits Any 1/4" to 3/8" Electric Drill

The CRL Putty Remover is the newest and easiest way to remove hardened putty. No need to remove the glass from the frame because the carbide blade is designed to clear the glazing points as it literally chews up the old putty. No more hand chipping, just insert the tool into your 1/4" or 3/8" electric drill. A notched, T-shaped sleeve guides it along the surface of the window sash. An adjustable collar controls the depth of the cut. The rigid metal handle lets you pull the drill along steadily as the putty is being removed. The Putty Remover is a time and labor saver you should own.

CRL Storehorse™ Folding Sawhorse

- Strong - Two Storehorses Hold Up to 1000 Pounds
- Portable - Weighs Only 12-1/2 Pounds
- Storable - Folds to Only 2" Wide
- Convenient Built-In Bottom Tool Shelf

CAT. NO. 10002SH

The Storehorse Folding Sawhorse is the convenient work support system. Storehorse is strong; one pair can support up to 1000 pounds. It's portable, lightweight structural foam construction keeps it's weight below 13 pounds. The top tray will hold small parts or 2X lumber. The bottom shelf keeps your tools handy. Storehorse is the best sawhorse you'll ever use. We have included a top tray protector as an added bonus.

CRL Storehorse™ Cord-n-Plug Center

CAT. NO. 10101SH

- U.L. Approved Six Plug Outlet with 12 Foot Extension Cord

The Storehorse Cord-n-Plug Center can be mounted in two positions on the Folding Storehorse, either on the bottom as shown, or in the radiused upper portion. It attaches with self tapping screws into pre-drilled holes. The unit has six outlets and a 12-foot cord.

CRL Window Frame Extractor

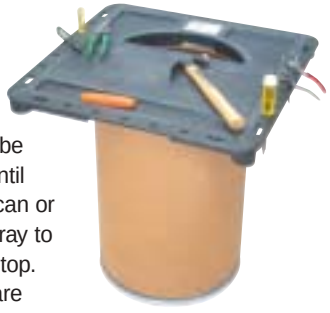
CAT. NO. WFE

- Removes Window Frames in Minutes, Not Hours

The CRL Window Frame Extractor pulls aluminum and steel frames from existing stucco, wood or siding structures. It can remove patio door frames as easily as window frames for installation of flush fin, block frame and other retro-fit window applications. Clean up time is reduced, and little or no stucco patching is required. Comes with nylon carry bag.

CRL Barreltop Work Center

- Portable Work Center
- Convenient and Lightweight
- Extremely Durable



(Barrel Not Included)

This all plastic portable shop tool can be stored against a wall or in your vehicle until ready to use. All you need is a garbage can or barrel 17" to 22" in diameter. There is a tray to keep smaller items from falling off of the top. Holes for pliers, screwdrivers, and awls are provided along three sides. There's even a cut-out to put cutoffs and scraps through to the container below. Made from high density plastic, this tool is made to last for years.

CAT. NO. BT9

CRL Pac-n-Roll

- Moves Up to 50 Pounds of Tools and Supplies
- Lightweight, Easy-To-Use

The CRL Pac-N-Roll appears to be a compact plastic briefcase until opened, when it becomes an instant rolling tool box. The RC9 is great for transporting tools from your vehicle to the job site, or use it for quick cleanup after your job is complete. Just undo the two side latches, open, drop the bottom panel and you have an instant crate ready to hold 50 pounds of tools or supplies. Convenient handle extends for easy transport.

CAT. NO. RC9

CRL Dry Pressurized Fire Extinguishers

- For Class A, B or C Fires

Smother fires quickly and safely with our Dry Pressurized Fire Extinguishers. Two easy-to-use sizes are available for your shop, office, home or vehicle. Both have sturdy steel cylinders with pressure gauges, and are rated to fight Class A, B or C fires.

CAT. NO.	SIZE
2025AV	2.5 Lb.
2100AH	10 Lb.

CRL Kraft Paper and Dispenser

- Heavy 60 Pound Weight in 18" and 36" Widths
- Rugged All Steel Dispenser
- A Must for Packing and Shipping

Heavy 60 pound weight Kraft Paper is ideal for wrapping and packing breakable items (glass and mirrors, etc.) for shipping. Large 825 foot roll costs pennies per square foot. Rugged all steel dispenser with spring-loaded blade can be mounted on wall, table top or under counter. Both can be shipped U.P.S.

CAT. NO.	DESCRIPTION
K60W18	18" x 825' Kraft Paper
K60W36	36" x 825' Kraft Paper
A50018	18" Paper Dispenser
A50036	36" Paper Dispenser

CRL Self-Igniting Propane Torch

- Just Press a Button to Start
- Fits All Standard Propane Fuel Cylinders

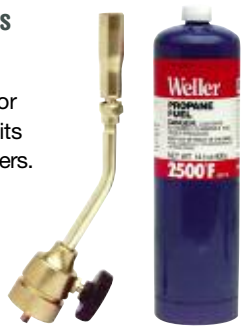
The Self-Igniting Propane Torch requires just the touch of a button to get it started. Use it with any standard propane fuel cylinder to produce a quick heating, high energy flame for cutting and soldering applications.

CAT. NO. HT802

CRL Pencil Point Burner Assembly

- Fits All Standard Propane Fuel Cylinders

The Pencil Point Burner Assembly puts a concentrated flame right where you point it for most soldering, bending and thawing jobs. Fits both Standard and High-Temp Propane Cylinders.



CAT. NO.	DESCRIPTION
UL2317	Burner Assembly
PF1000	Clean Burn Hi-Temp Fuel Cylinder
LP1759	Standard Propane Fuel Cylinder

Fuel cylinders can be combined for quantity pricing.

CRL Mini Stretch Film and Dispensers

- Excellent Cling and Stress Retention
- Wraps and Unwraps Without Damaging Surface or Leaving Residue
- Cost Less than Strapping Tape, Twine or Wire
- Two Types of Dispensers to Choose From

CAT. NO.	DESCRIPTION
HW380	3" x 1500' Stretch Film
HW580	5" x 1500' Stretch Film
SL256	Standard Dispenser
SL257	Deluxe Dispenser

Film rolls can be combined for quantity pricing.

CRL offers two sizes of Mini Stretch Film in convenient 3" and 5" wide rolls. Provides visibility while eliminating surface damage or adhesive residue on boxes, metals, etc. Clings to itself without adhesives. Highly puncture resistant 80 gauge film. Economical alternative to strapping tape, twine or wire. Dispensers hold 3" and 5" rolls. Deluxe Dispenser features a soft E-Z grip handle, and has an adjustable brake.

CRL 22-Piece Squeeze Wrench Set

Our 22-Piece Squeeze Wrench Set lets you get into places where a typical socket wrench won't fit. Squeeze the handle and the ratchet head turns without moving the wrench. Interchangeable bits let you change from a ratchet wrench to a Allen wrench to a screwdriver quickly and easily. All parts are heat-treated to the highest commercial standards, and packed in a sturdy carrying case.

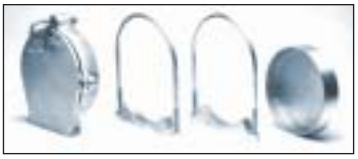
Squeeze the Handle and the Ratchet-Socket Head Turns Without Moving the Wrench

- Gets Into Tight Places
- Made in the U.S.A.

EACH SET INCLUDES:
12 Sockets (Fractional 1/4", 5/16", 3/8", 7/16", 1/2" and 9/16"; Metric 9mm, 10mm, 11mm, 12mm, 13mm and 14mm); Six Allen Bits (1/8", 5/32", 3/16", 7/32", 1/4" and 5/16"); Four Screwdriver Bits (Two Phillips and Two Slotted).

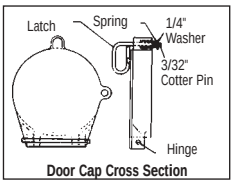
CAT. NO. SQW5700

CRL Tube Container System



- **Excellent for Mobile Units to Store and Protect Long Items Such as J-Channel and Straight Edges**

The Tube Container System works with 6" schedule #40 PVC Pipe to create an efficient and protective storage system for stock lengths of extrusion, storm and screen frame, copper tubing and more. The Door Cap has a padlock tab for security. Since you supply the PVC Pipe, you can make your container any length you need. Mounting is easy using the Saddle Brackets and U-bolts. The all metal components assure durability and long service life.



Door Cap Cross Section

CAT. NO.	PACKAGE CONTAINS
658TE	1 Door Cap and End Cap
658SU	2 Saddle Brackets and U-bolts

Components not available separately.

CRL Power Ties Rope Tightener

- **Doubles Your Tying Power**

Power Ties double your tying power! A 2 to 1 mechanical advantage is gained by using Power Ties' unique V-Grip Jaws to maintain rope tension. Power Ties work with any 3/8" to 1/2" rope material and will handle up to 500 pounds of tension. Molded of glass fiber reinforced nylon, Power Ties are lightweight yet strong and easy to use. Eliminate slack, knot tying (and untying) with Power Ties. U.S. patented design is legal for highway use. Two per pack

- **Holds 3/8" to 1/2" Rope**

CAT. NO. RC12

CRL Corner Buddy Rope Protectors

- **Extends Life of Rope Tie Downs**
- **Protects the Rope from Sharp Edges**

Corner Buddy Rope Protectors were designed to decrease rope breakage (and replacement costs) due to stress and sharp edges of glass during transport and storage. They eliminate the need for cardboard, and can be used over and over. Their unique design keeps the rope from slipping off, and they can be left clipped to ropes after untied. Corner Buddys will work in any application where 1/4" to 1/2" rope is used.

CAT. NO.	DESCRIPTION	QTY./PKG.
CB120	Corner Buddy Rope Protectors	20

CRL Ratchet Tie-Downs

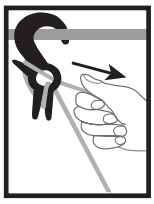
- **Easy Release Ratchet**
- **Greater Holding Tension**
- **Vinyl Coated Hooks**
- **Fully Adjustable 6 Foot Straps**

CAT. NO. 6381

Ratchet Tie-Downs provide unlimited ways to securely tie down cargo. The cam buckles will not slip, yet will release instantly with thumb pressure. The high tensile steel hooks are extra strong and vinyl coated to protect painted or chrome finishes. Each Tie-Down features 1" wide nylon webbing that is long lasting and provides maximum strength. Each 6' Tie-Down has an average rated capacity of 2000 pounds. Four Tie-Downs per package.

CRL E-Z-Ty Kits

- **Up to 500 Pounds of Working Load**
- **Tough Composite Material Will Not Corrode or Rust**
- **Simple to Use System for Pickup Trucks, Vans, Cars, or Home**



Designed to be "user friendly," the patented E-Z-Ty System makes it easy to cinch down and secure a load without losing tension. No more knots to tie or un-tie! Use the rope, or use them as a trucker's hitch for tying one end of rope with twice the leverage. You have your choice of the Light-Duty or Heavy-Duty Kits.

CAT. NO.	TYPE	ROPE	WORK LOAD
EZT15	Light	3/16"	150 lbs.
EZT50	Heavy	5/16"	500 lbs.

Nylon Braided Rope Universal Hook

EACH KIT CONTAINS:

2 Universal Hooks
2 Duo Cleats
1 Rope Belt
1 50 Ft. Hank of Solid Nylon Braided Rope

CRL Detachable Cargo Hooks

- **Vinyl Plastisol Coated Stainless Steel**
- **Slides On and Off Instantly**
- **Stress-Tested to 400 Pounds Each**
- **No Drilling, No Tools, Just Clip it On**

Our Detachable Cargo Hooks can be used on trucks, cars, vans, RV's, trailers and boats. These vinyl coated stainless steel hooks are stress-tested to 400 pounds each, and slide on or off instantly, without drilling or tools. Two per pack.

CAT. NO. 502001

CRL Heavy-Duty Glue Gun

- Uses All 4" Glue Sticks
- Fast Heat Up

The solid state circuitry of this gun provides fast heat up and dependable glue temperature for strong, consistent bonding. The CRL Heavy-Duty Glue Gun is for professional use, giving hot glue in a molten form exceeding 380°F (193°C) for complete coverage of the bonding area. Uses standard hot melt or dual temperature 4" glue sticks.

CAT. NO.	DESCRIPTION
GR20T	Heavy-Duty Glue Gun

CRL Dual Temperature Glue Gun

- Temperature Setting in Handle
- Uses All 4" Glue Sticks

The perfect gun to meet all your hot melt needs. It's now simple to move from one temperature setting to another with the high-low switch located right in the handle. Use the high temperature setting for bonding wood, ceramics and other non-porous materials. Switch to the low setting for use with foam, paper and other heat sensitive materials. It comes with its own handy wire stand.

CAT. NO.	DESCRIPTION
GR25DT	Dual Temperature Glue Gun

CRL Cord-Free Glue Gun

- Excellent for Hard to Reach Spots
- Uses All 4" Glue Sticks

A truly versatile gun which allows you to get into those extra tight areas where a cord hampers your work. Simply plug the gun into an electrical outlet, wait 3 to 6 minutes for the gun and glue to heat up, disconnect the cord and begin applying hot glue. You can use the gun for 12 minutes before needing to reheat, then simply re-insert the cord, allow to heat for 3 minutes, and go back to work.

CAT. NO.	DESCRIPTION
GR90C	Cord-Free Glue Gun

CRL Glue Sticks

- Three Types to Choose From
- Standard 4" Size

CRL offers three different types of Glue Sticks which can be used with all Glue Guns on this page. Each pack contains 30, 4" Glue Sticks in a handy container. Choose the All Purpose Glue Stick (30 second set up time), Clear Drying Glue Stick (30 second drying time), or the Slower Setting (60-70 second) Glue Stick, which is excellent in woodworking applications.

CAT. NO.	DESCRIPTION	QTY/PK
GS500BK	All Purpose Glue Sticks	30
GS234BK	Clear Drying Glue Sticks	30
GS264BK	Slow Setting Glue Sticks	30

Sizes can be combined for quantity pricing.

CRL Tungsten Carbide Circular Saw Blade

- 7" Diameter Coarse Blade
- Longer Cutting Life

An efficient substitute for abrasive wheels, the CRL Tungsten Carbide Circular Saw Blade won't shatter or lose diameter and width as it works. It is designed to cut fiberglass, reinforced plastics, tempered hardboard, composition board and laminates. The blade is reversible so it can be turned around and gain another 25% of cutting life. Its universal arbor fits most machines. **Not recommended for cutting metal or masonry.**

CAT. NO.	MAX. RPM	DESCRIPTION
GC703	6500	7" Circular Saw Blade

CRL Jig and Reciprocating "Grit Edge" Saw Blades

CAT. NO. GJ1010

CAT. NO. GR2010

- Heat Resistant
- Coarse Grit

These two blades are specially designed to cut fiberglass, ceramic tile, laminates and composites. Their heat resistance eliminates premature dulling, and the "Grit-Edge" leaves an exceptionally smooth finish, reducing the need for costly finishing opertions. A 50% tighter cutting radius can be achieved using these blades.

CAT. NO.	GRIT EDGE	TYPE	GRIT
GJ1010	2-3/16"	Jig Saw	Coarse
GR2010	3-1/16"	Reciprocating Saw	Coarse

CRL Nylon Ties

- Convenient and Simple to Use

Nylon Ties are convenient for bundling wires or other narrow components. Simple to use, just insert tapered end of strap into head and pull until bundle is secure. Light color Nylon Ties come 100 per package.

CAT. NO.	STRAP LENGTH	MAX. BUNDLE DIAMETER
NT40	4" (102 mm)	.875" (22 mm)
NT56	5.6" (142 mm)	1.250" (32 mm)
NT75	7.5" (190 mm)	1.875" (48 mm)
NT111	11.25" (286 mm)	3.062" (78 mm)

Sizes can be combined for quantity pricing. Minimum order is one per pack.

CRL 33S Silicone Sealant

- Our Most Popular Sealant
- Plastic Cartridges with Screw-On Nozzles
- 24 Month Shelf Life
- Available in Eight Colors
- 10 Year Limited Warranty

10.3 Fl.Oz. Cartridges; 30 Cartridges Per Case

4.5 Gallon Pail

52 Gallon Drum

CRL 33S Silicone is a high quality sealant that delivers the performance you demand at a price you will find very competitive. It is a one component, room temperature curing, 100% silicone elastomer that does not require the addition of activators, stabilizers or catalysts to achieve optimum properties. CRL 33S is especially designed for joining and sealing a variety of structural materials: glass, aluminum, metal alloys, stainless steel and plastics. It will seal curtainwall joints, steel and aluminum windows, and skylights. It is an excellent product for showers, bath tubs and sanitary installations.

10.3 FL. OZ. CARTRIDGES

CAT. NO.	COLOR
33SC	Clear
33SAL	Aluminum
33SBL	Black
33SBRZ	Bronze
33ST	*Tan
33SW	*White
33STW	*Translucent White
33SMRC	*Mildew Resistant Clear

*Mildew Resistant Color
All cartridge sealants can be combined for quantity pricing.

TT-S-001543A Class A (COM-NBS) for Silicone Building Sealants; TT-S-00230C Class A (COM-NBS) For One-Component Silicone Sealants; ASTM C-920 for Elastomer Joint Sealants, Type S, Grade NS, Class 25, Use NT, G,A; CGSB 19GP-13.

PAILS AND DRUMS

CAT. NO.	COLOR	CONTENTS
33SC5GL	Clear	4.5 Gallons
33SAL5GL	Aluminum	4.5 Gallons
33SBL5GL	Black	4.5 Gallons
33SBRZ5GL	Bronze	4.5 Gallons
33SMRC5GL	* Mildew Resistant Clear	4.5 Gallons
33ST5GL	* Tan	4.5 Gallons
33STW5GL	* Translucent White	4.5 Gallons
33SW5GL	* White	4.5 Gallons
33SC52GL	Clear	52 Gallons
33SAL52GL	Aluminum	52 Gallons
33SBL52GL	Black	52 Gallons
33SBRZ52GL	Bronze	52 Gallons
33SMRC52GL	* Mildew Resistant Clear	52 Gallons
33ST52GL	* Tan	52 Gallons
33STW52GL	* Translucent White	52 Gallons
33SW52GL	* White	52 Gallons

* Mildew Resistant Color

Two New Mildew Resistant Silicones

- Translucent White – Cat. No 33STW
- Mildew Resistant Clear – Cat. No. 33SMRC

Our New Mildew Resistant Silicones come in clear and translucent white. This formulation makes them your best choice for use in tub and shower enclosures, and other bathroom installations. It cures rapidly with excellent adhesion to withstand the extreme conditions found in the typical bathroom to remain flexible, with no cracking or shrinking. CRL Translucent White and Mildew Resistant Clear colors blend well with porcelain fixtures.

33S Custom Color Silicone

- Minimum Order is Only 50 Gallons!

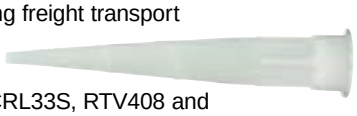
CRL can now match 33S Silicone to your custom color sample for those very special sealant jobs. Order only 50 gallons (minimum order) or more in the packaging that works best for you: 600 cartridges; twelve each 5 gallon pails (net 4.5 gallons per pail); one each 55 gallon drum (net 52 gallons per drum). Contact CRL Customer Service for pricing.

Package Features for CRL Silicones

• 10.3 Fl. Oz. Cartridges Are 30 Per Case; 1440 Per Pallet

Packaging quantities for C.R. Laurence Cartridge Silicones match industry standards of 30 per case. 1440 cartridges per pallet reduces load shifting during freight transport because the cartons stack together tighter.

• Innovative Screw-On Nozzles



Our Innovative Screw-On Nozzle is standard on every cartridge of CRL33S, RTV408 and 95C Silicone. It's 4" long and tapered so you can trim it to the right bead size for your requirements. It even has markings to show you where to trim it for an exact 1/8", 1/4" or 3/8" bead.

• Press-In Hand Holes Make Lifting Easier

By pushing in a 3-1/2" wide perforation on each end of our silicone cartons, you will have an easier time lifting and moving these products where you need them.

• "WHMIS" Safety Label Shown on Cartridges and Cartons

Each CRL Silicone Sealant cartridge and carton contains important "WHMIS" (Workplace Hazardous Material Information System) safety data. It's shown in English, French and Spanish to comply with shipping regulations in the U.S., Canada and Mexico.

Masonry and Porous Substrate Primer for CRL Silicone Sealants

P23T is a single component primer to be used with certain CRL Silicone Sealants to promote adhesion to masonry and porous substrates. Dip, brush or spray, allow to dry, and apply sealant as directed.

CAT. NO.	CONTENTS
P23T	16 Fl.Oz.

Metal, Plastic, Paint and Wood Primer for CRL Silicone Sealants

P10T Primer promotes adhesion to construction materials such as metal, plastic, paint and wood. Apply as directed to clean substrate, allow to dry before gunning silicone sealant.

CAT. NO.	CONTENTS
P10T	16 Fl.Oz.

Specification and Material Safety Data Sheets are available from Customer Service, or the CRL Website at www.crlaruence.com

CRL RTV408 Industrial and Construction Silicone

- Neutral Cure Medium Modulus Silicone
- Available in Seven Colors, Including New Beige
- Odorless, Non-Acetic Cure Formula
- 20 Year Limited Warranty
- AAMA (American Architectural Manufacturer's Association) Approved for Exterior Perimeter Sealing of Windows and Doors

10.3 Fl. Oz. Cartridges
30 Cartridges Per Case
1440 Cartridges Per Pallet

4.5 Gallon Pail

48 Gallon Drum

CRL RTV408 is a neutral cure, medium modulus, 100% silicone sealant. It cures to a tough, flexible rubber when exposed to moisture. Features of RTV408 include:

- Available in Clear, Aluminum, Black, Bronze, Tan, Beige and White.
- Primerless adhesion to the following common building materials: metals, aluminum, stainless steel, chromium, tin, iron, plastics, rigid PVC, phenolic resin, glass, ceramic and most reflective coated glasses.
- Fast cure desirable for many in-house production applications.
- Easy gunnability and tooling.
- Non-corrosive to all common building components.
- Compatible for Insulating Glass Glazing.
- Long life expectancy. Cured sealant remains flexible from -65°F to 400°F without cracking or becoming brittle.
- RTV408 White and Tan contain a fungicide making the cured sealant mildew resistant and suitable for use in bathrooms, spas and sanitary applications.
- Plastic Cartridges have 4" long removable Screw-On Nozzles and a 24 month shelf life.

10.3 FL. OZ. CARTRIDGES

CAT. NO.	COLOR
RTV408C	Clear
RTV408AL	Aluminum
RTV408BL	Black
RTV408BRZ	Bronze
RTV408BGE	Beige
RTV408T	Tan
RTV408W	White

All cartridge sealants can be combined for quantity pricing.

PAILS AND DRUMS

CAT. NO.	COLOR	CONTENTS
RTV408C5GL	Clear	4.5 Gallons
RTV408AL5GL	Aluminum	4.5 Gallons
RTV408BL5GL	Black	4.5 Gallons
RTV408BRZ5GL	Bronze	4.5 Gallons
RTV408BGE5GL	Beige	4.5 Gallons
RTV408T5GL	Tan	4.5 Gallons
RTV408W5GL	White	4.5 Gallons
RTV408C48GL	Clear	48 Gallons
RTV408AL48GL	Aluminum	48 Gallons
RTV408BL48GL	Black	48 Gallons
RTV408BRZ48GL	Bronze	48 Gallons
RTV408BGE48GL	Beige	48 Gallons
RTV408T48GL	Tan	48 Gallons
RTV408W48GL	White	48 Gallons

4.5 gallon pails can be combined for quantity pricing.

CRL RTV408 complies with or exceeds these Federal Specifications:

- TT-S-001543 (COM-NBS) Class A for Silicone Building Sealants
- TT-S-00230C (COM-NBS) Class A Non-Sag for One-Component Sealants
- ASTM C920 Standard Specification for Elastomeric Joint Sealant as Type S, Grade NS, Class 25, Use NT, G, and A
- CGSB-19.13—(Canadian Government Specification Board)
- AAMA Spec. 808.3-92

RTV408 Custom Color Silicone

- Minimum Order is Only 25 Gallons!

CRL can now match RTV408 Silicone to your custom color sample for those very special sealant jobs. Order only 25 gallons (minimum order) or more in the packaging that works best for you: 300 cartridges; six each 5 gallon pails (net 4.5 gallons per pail); one each 55 Gallon Drum (net 48 gallons per drum). Contact CRL Customer Service for pricing.

Low Prices for Pallet Buyers of Quality CRL Silicones

If you use lots of silicone, we have a deal for you. Quality CRL33S, RTV408 and 95C Silicones are available at special discounts when you buy it by the pallet. Full pallets contain 1,440 10.3 Fl. Oz. cartridges (48 cases of 30), and ship F.O.B. CRL warehouses. Contact your CRL Sales Representative, or CRL Technical Sales for details.

CRL Small Tube Dispenser Handle

- Makes Small Tubes of Sealant or Caulking Easy to Dispense

CAT. NO. 710XX006

The Small Tube Dispenser Handle is the fast and easy way to dispense materials (such as silicones, adhesives, etc.) from squeeze tubes. It lets you apply just the right amount of pressure for the proper bead size, and since you apply just the right amount of material, there is less mess and clean up. The open back design lets you draw the tube through the handle, so you can get virtually all of the material from the tube, so waste is reduced. Holds all flexible plastic or metal tubes up to 2-1/2" wide.

CRL Silicone Sealant in Handy 3 Ounce Tubes

- Same Professional Formula as Our 33S Silicone
- Great for Small Jobs or Over-the-Counter Sales

Professional Quality CRL Silicone Sealant is available in handy 3 fluid ounce squeeze tubes for small jobs or over-the-counter retail sales. It meets the same exacting standards and specifications as our 33S Silicone, so it is an assured performer you can use or sell with complete confidence.

We have a retail display featuring all four colors in the handy 3 ounce size (48 tubes in all), on a colorful display rack. Ask for Cat. No. POP10

CAT. NO.	COLOR
22C	Clear
22AL	Aluminum
22BL	Black
22W	White

All 3 oz. silicone tubes can be combined for quantity pricing. Packed 12 per box; four boxes per master case.

Specification and Material Safety Data Sheets are available from Customer Service, or the CRL Website.

CRL 95C Silicone Building Sealant

- **Excellent Primerless Adhesion to Most Common Construction Substrates**
- **All Temperature Gunnability and Long Tooling Time**
- **± 50% Joint Width Movement**
- **20 Year Limited Warranty**

95C meets or exceeds the requirements of TT-S-001543A (COM-NBS) for Silicone Building Sealants; TT-S-00230C (COM-NBS) for One-Component Building Sealants as Class A, Non-Sag; ASTM-C920 Standard Specification for Elastomer Joint Sealants as Type S, Grade NS, Class 25, Use NT, G, A, M and O.

This innovative **Screw-On Nozzle** is standard on every cartridge of 95C Silicone. It's 4" long and tapered so you can trim it to the right bead size for your requirements. It even has markings to show where to trim it for an exact 1/8", 1/4" or 3/8" bead.

10.3 Fl.Oz. Cartridges
30 Cartridges Per Case
1440 Cartridges Per Pallet

2 Gallon Pail

4.5 Gallon Pail

95C Custom Color Silicone

- **Minimum Order is Only 25 Gallons!**

CRL can now match 95C Silicone to your custom color sample for those very special sealant jobs. Order only 25 gallons (minimum order) or more in the packaging that works best for you: 300 cartridges; 13 each 2 gallon pails; six each 5 gallon pails (net 4.5 gallons per pail). Contact CRL Customer Service for pricing.

95C Silicone Building Sealant is a one part, low modulus, neutral cure, 100% silicone formulation. It cures to a durable and flexible silicone rubber building joint seal, and can accommodate ± 50% movement in a properly designed joint. 95C combines the best performance characteristics to provide outstanding unprimed adhesion to most common construction materials. It has all temperature gunnability and long cure time for easy tooling.

Basic uses include: sealing expansion and control joints in precast concrete panels and metal curtainwalls; nonstructural glazing of glass, metal and plastic; waterproofing applications, including perimeter sealing of doors and windows. 95C forms a durable, flexible, watertight bond with most building materials in any combination of glass, ceramics, plastics, stone, masonry, wood, steel, anodized and mill-finished aluminum, and painted surfaces. In most cases, no primer is required. It is compatible with all laminated glass, insulating glass units, and acrylic and polycarbonate glazing sheets. It can be used as a weather seal for insulating glass units produced with all types of sealants including two-part silicones, polysulfides, polyurethane and butyls.
NOTE: 95C is not intended for structural glazing usage.

10.3 FL. OZ. CARTRIDGES

CAT. NO.	COLOR
95CBL	Black
95CDBRZ	Dark Bronze
95CGRY	Gray
95CL	Limestone
95CW	Precast White

All cartridge sealants can be combined for quantity pricing.

PAILS

CAT. NO.	COLOR	CONTENTS
95C2GLBL	Black	2 Gallons
95C2GLDBRZ	Dark Bronze	2 Gallons
95C2GLGRY	Gray	2 Gallons
95C2GLL	Limestone	2 Gallons
95C2GLW	Precast White	2 Gallons
95C5GLBL	Black	4.5 Gallons
95C5GLW	Precast White	4.5 Gallons

Pails can be combined for quantity pricing.

CRL 9542 Insulating Glass Silicone

- **Use Only to Manufacture Dual Seal Insulating Glass Units**
- **Excellent Glass to Glass Adhesion**
- **Resistant to UV Light and Weather Extremes**

Cartridges feature **Screw-On Nozzles**

10.3 Fl. Oz. Cartridges
30 Cartridges Per Case
1440 Cartridges Per Pallet

4.5 Gallon Pail

52 Gallon Drum

9542 Insulating Glass Silicone is a single component silicone glass sealant designed specifically for bonding and sealing insulating glass units. It is recommended for dual seal units only. 9542 provides excellent glass-to-glass adhesion and is resistant to ultraviolet light and weather extremes. Most bedding and glazing compounds will also be virtually unaffected. 9542 Insulating Glass Silicone has a functional temperature range of -80° F to 400° F. It is available in easy to use 10.3 fl. oz. cartridges, or in economical 4.5 gallon pails and 52 gallon drums.

NOTE: Cat. No. 95425GL should be used with Cat. No. 50052 Bulk Sealant Dispenser; Cat. No. 954252GL should be used with Cat. No. 70855 Bulk Sealant Dispenser.

10.3 FL. OZ. CARTRIDGES

CAT. NO.	COLOR
9542	Black

All cartridge sealants can be combined for quantity pricing.

PAILS AND DRUMS

CAT. NO.	COLOR	CONTENTS
95425GL	Black	4.5 Gallons
954252GL	Black	52 Gallons

Specification and Material Safety Data Sheets are available from Customer Service, or the CRL Website.

CRL Water Clear Silicone Sealant

- Clear Formulation for Sealing Glass-to-Glass, Glass-to-Tile and Glass-to-"U" Channel
- Applications Include Shower Enclosures and Specialty Glass Assemblies
- Water Clear When Cured

30 PER CASE

CAT. NO.	CARTRIDGE SIZE
WCS1	10.3 Fl. Oz.
WCS5	5 Fl. Oz.

All cartridge sealants can be combined for quantity pricing.

Meets or exceeds the test requirements of Federal Specification TT-S-230C, ASTM C-920.

Water Clear Silicone Sealant will provide exceptional clarity, making it the ideal sealant to use in frameless shower enclosures, glass entries and partitions, specialty glass assemblies and glass block installations. Its unique weatherability enables it to retain original design properties, even after years of exposure. It is easily applied, and will cure in the presence of atmospheric moisture (acetoxy cure) to produce a durable and flexible glazing seal.

CRL Dow Corning Trademate™ Silicone Glazing Sealant

- Excellent Adhesion to Most Common Building Substrates
- Excellent Weatherability and UV Resistance

10.3 FL. OZ. CARTRIDGES – 12 PER CASE

CAT. NO.	COLOR
DC1C	Clear
DC1W	White
DC1AL	Aluminum
DC1BL	Black
DC1BRZ	Bronze

All cartridge sealants can be combined for quantity pricing.

Meets or exceeds Federal Specification TT-S-001543A (COM-NBS) Class A; TT-S-00230C Class A (COM-NBS); ASTM C920, Type S, Grade NS, Class 25, Use NT, G and A.

Trademate™ Silicone Glass Sealant is a professional quality sealant specifically formulated to meet glass shop glazing needs. It forms a long-lasting, waterproof seal. It can be used in general glazing applications and skylight installation. It may also be used to repair weatherstripping and gaskets. Its unique adhesion-promoting formula ensures adhesion to many building substrates and longer working time, giving a professional appearance to the finished job. Trademate™ Silicone Glazing Sealant can be used on glass, plastic, metal, repainted surfaces, fiberglass, ceramic and aluminum.

CRL Dow Corning Trademate™ Paintable Silicone Sealant

- Sticks to Masonry, Metal and Wood Window Frame Components, Painted Surfaces and Siding Materials
- Paintable with Latex or Oil-Based Paints Within 48 Hours of Sealant Application
- Water-Based 100% Silicone

10.3 FL. OZ. CARTRIDGES – 12 PER CASE

CAT. NO.	COLOR
DC3P	White

All cartridge sealants can be combined for quantity pricing.

Meets the requirements of ASTM C920, Types S, Grade NS, Class 25, Use NT and G.

Dow Corning Trademate™ Paintable Silicone Sealant is a high performance, water-based sealant that cures to 100% silicone rubber. Unlike conventional water-based caulks, it can withstand joint movement of ±25% without cracking, and remains flexible for years. Adheres to glass, plastic, metal, rubber, fiberglass, ceramic and wood.

CRL Dow Corning Trademate™ Vinyl Window, Siding and Door Silicone Sealant

- 100% Neutral Cure Silicone
- Noncorrosive to Most Substrates
- Excellent for Frame Sealing and Weatherproofing Building Joints, Especially Vinyl to Masonry, Metal-to-Masonry and Plastic-to-Metal
- AAMA Certified

10.3 FL. OZ. CARTRIDGES – 12 PER CASE

CAT. NO.	COLOR
DC2C	Clear
DC2W	White

All cartridge sealants can be combined for quantity pricing.

Meets or exceeds Federal Specification TT-S-001543A (COM-NBS); TT-S-00230C Class A (COM-NBS); ASTM C920, Type S, Grade NS, Class 25, Use NT, G and M; AAMA 808.3-92

Dow Corning Trademate™ Vinyl Window, Siding and Door Silicone Sealant is a 100% neutral cure silicone sealant designed for glass shop and glazing applications. It is formulated for use with plastic, metal and brick. It adheres well to vinyl windows, doors and siding. It can be used with insulating and laminated glass, and is ideally suited for sash, frame or joint sealing for storefronts and residential structures.

Introducing Tremco Performance Silicones

NEW

FEATURES:

- Exceptional Physical Properties
- Expanded Tooling Time
- Excellent Surface Adhesion
- Custom Color Availability - Only 25 Gallon Minimum!

BASIC USES:

- Window Perimeters
- Construction Joints
- Glazing Applications
- Precast/Tilt Up

MADE WITH AST™ ADVANCED SILICONE TECHNOLOGY

CRL Tremco Spectrem® 1 Ultra Low Modulus Silicone Joint Sealant

- Exceptional Movement Capabilities
- Neutral Cure
- Reliable Long Term Performance in Severe Environments
- Excellent Unprimed Adhesion to Common Substrates

CRL Spectrem® 1 is an ultra low modulus, high performance, one-part, moisture curing silicone joint sealant. Spectrem® 1 has exceptional physical properties, making it an ideal sealant for sealing the most demanding dynamically moving joints. This includes material having a high coefficient of linear expansion such as aluminum curtainwalls, precast concrete panels, metal panels and window perimeters. Formulated for expansion, control and lap joints.

APPLICABLE STANDARDS:
Conforms to ASTM C920 Type S, Grade NS, Class 25. Use NT, M, G, A and O; CAN/CGSB-19.13-M87; U.S. Federal Specification TT-S-00001543A (COM-NBS) Class A; U.S. Federal Specification TT-S-00230C (COM-NBS) Class A, Class II.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
946802	Black
946811	Precast White
946851	Aluminum Stone

All cartridge sealants can be combined for quantity pricing.

CRL Tremco Spectrem® 2 High Performance Silicone Sealant

- High Performance in Demanding Applications
- Excellent Cure Stability
- Neutral Cure
- Tools Easily, Cures Quickly

CRL Spectrem® 2 is a medium modulus, one part, high performance, neutral cure silicone sealant ideal for a variety of caulking and glazing applications. Spectrem® 2 is suitable for both caulking and glazing applications, including cap beads, toe beads, heel beads and other typical air seals. It is particularly appropriate as a weather seal and tensile bead in two sided structural glazing systems, and ideal for sealing joints within the curtain / window wall systems. **"All" structural glazing applications must be reviewed and approved by Tremco Technical Service prior to the application of Spectrem® 2.**

APPLICABLE STANDARDS:
Conforms to ASTM C920 Type S, Grade NS, Class 25. Use NT, M, G, A and O; CAN/CGSB-19.13-M87; U.S. Federal Specification TT-S-00001543A (COM-NBS) Class A; U.S. Federal Specification TT-S-00230C (COM-NBS) Class A, Class II.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
947802	Black
947806	White
947852	Gray

All cartridge sealants can be combined for quantity pricing.

CRL Tremco Spectrem® 3 Construction Grade Silicone Sealant

- Exceptional Physical Properties for Dynamically Moving Joints
- Extended Tooling Time Under Extreme Ambient Conditions
- Low Modulus, Neutral Cure Formula

CRL Spectrem® 3 is a general purpose, low modulus, high performance, one part, neutral curing, non-staining, construction grade silicone sealant. Spectrem® 3 has been formulated to offer exceptional physical properties, making it ideal for sealing dynamically moving joints associated with material having a high coefficient of linear expansion such as aluminum curtainwalls, metal panels and window perimeters. This patented formula has extended the tooling time at high temperatures.

APPLICABLE STANDARDS:
Conforms to ASTM C920 Type S, Grade NS, Class 25. Use NT, M, G, A and O; CAN/CGSB-19.13-M87; U.S. Federal Specification TT-S-00001543A Class A; U.S. Federal Specification TT-S-00230C Class A.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
968802	Black
968806	Precast White
968878	Anodized Aluminum

All cartridge sealants can be combined for quantity pricing.

CRL Tremco Proglaze®

- **All Temperature Gunnability**
- **Acetoxy Cure**
- **Fast Curing to a Durable, Flexible Seal**
- **Excellent Resistance to Ultraviolet, Ozone and Temperature Extremes**

CRL Proglaze® is a one-part, moisture curing, acetoxy silicone sealant, easily gunned under all types of weather conditions. It cures rapidly to produce a durable, flexible seal. Proglaze® provides a high performance seal for a wide variety of glazing applications such as cap bead, toe bead, heal bead, butt glazing and metal-to-metal joints. Clear, white, aluminum and black are acceptable for indirect contact of edible products under U.S.D.A. requirements for use in federally inspected meat and poultry plants.

APPLICABLE STANDARDS:
Conforms to ASTM C920 Type S, Grade NS, Use NT, M, G, A and O; CAN/CGSB-19.13-M87, MG-2-25-A-L; U.S. Federal Specification TT-S-00230C (COM-NBS) Class A; U.S. Federal Specification TT-S-001543A (COM-NBS) Class A.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
942800	Clear
942806	White
942802	Black
942810	Aluminum
942857	Dark Bronze

All cartridge sealants can be combined for quantity pricing.

CRL Tremco Proglaze® SG Structural Glazing Silicone Sealant

- **High Performance Neutral Cure Formula**
- **Exceptional Cure Stability**

CRL Proglaze® SG is one-part, high modulus, neutral cure silicone sealant ideal for a wide variety of glazing applications. Proglaze® SG provides high performance capabilities as well as exceptional cure stability and shelf life properties. Proglaze® SG is suitable for demanding glazing applications, including cap beads, toe beads, and heel beads/air seals. It is particularly well suited as a tensile bead sealant in 2-sided and 4-sided glazing systems, and ideal for sealing joints within the curtain / window wall system. **"All" structural glazing applications must be reviewed by Tremco Technical Service.**

APPLICABLE STANDARDS:
Conforms to ASTM C920 Type S, Grade NS, Use NT, M, G, A and O; CAN/CGSB-19.13-M87; U.S. Federal Specification TT-S-00230C (COM-NBS) Class A Type II; U.S. Federal Specification TT-S-001543A (COM-NBS) Class A.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
951802	Black

All cartridge sealants can be combined for quantity pricing.

CRL Tremco Tremsil® 200 General Construction Grade Silicone Sealant

- **Produces a Long-Life, Weathertight Seal**
- **Acetoxy Cure**
- **White and Clear Colors Contain Fungicide**

CRL Tremsil® 200 is one-part, acetoxy silicone sealant. Tremsil® 200 cures to a flexible rubber when exposed to moisture present in the air. It produces a weathertight seal to glass, metal, porcelain, ceramic and most painted surfaces. White and clear colors contain a fungicide making the sealant suitable for use in bathrooms, spas and similar applications where joints need protection against fungi and bacteria.

APPLICABLE STANDARDS:
Conforms to ASTM C920 Type S, Grade NS, Use NT, G, A and O; CAN/CGSB-19.13-M87; U.S. Federal Specification TT-S-00230C Class A; U.S. Federal Specification TT-S-001543A (COM-NBS) Class A.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
9718004	Clear
9718064	White
9718024	Black
9718104	Aluminum
9718574	Dark Bronze

All cartridge sealants can be combined for quantity pricing.

CRL Tremco Tremsil® 600 General Construction Neutral Cure Silicone Sealant

- **Primerless Adhesion to Metal, Glass, Plastic, Rigid PVC and Painted Surfaces**
- **Fast Cure**
- **Excellent Weatherability**

CRL Tremsil® 600 is one-part, medium modulus, neutral cure silicone sealant. Tremsil® 600 is compatible to most common non-porous building component surfaces, making it an excellent sealant for glazing of low rise residential windows. Tremsil® 600 has excellent adhesion to aluminum, stainless steel, metal, glass, plastics, rigid PVC, wood and painted surfaces.

APPLICABLE STANDARDS:
Conforms to ASTM C920 Type S, Grade NS, Use NT, G, A and O; CAN/CGSB-19.13-M87; U.S. Federal Specification TT-S-00230C; U.S. Federal Specification TT-S-001543A (COM-NBS) Class A; AAMA 808.3-92.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
944800	Clear
944806	White
944807	Buff

All cartridge sealants can be combined for quantity pricing.

CRL 99AS Clear Aquarium Silicone Sealant

- Excellent Primerless Adhesion to Glass
- Recommended for Fresh or Salt Water Aquariums
- Non-Toxic to Fish When Fully Cured
- Acetoxy Cure
- Screw-On Nozzle

99AS Clear Aquarium Silicone Sealant is a medium modulus, one component silicone sealant recommended specifically for fabrication and repair of fresh or salt water aquariums. 99AS forms a tough waterproof seal that won't crack or shrink, and is non-toxic to fish when fully cured after 7 to 14 days.

CRL or its distributors have no control over the design and intended capacities of aquariums to be constructed or resealed by the user. It is the responsibility of the user to determine the suitability of the product for the intended use, and assume all risk and liability in connection therewith.

10.3 Fl. Oz. Cartridges
30 Cartridges Per Case
1440 Cartridges Per Pallet

99AS COMPLIES WITH PROVISIONS OF:
ASTM C-920; TT-S-00230C (COM-NBS); TT-S-001543A (COM-NBS); CGSB19GP-13.

52 Gallon Drum

CAT. NO.	CONTENTS
99AS	10.3 Fl. Oz.
99AS52GL	51 Gallons

All cartridge sealants can be combined for quantity pricing.

CRL 321 Acrylic Latex with Silicone

- Paintable and Easily Cleaned Up with Soap and Water
- Can be Used on Exterior or Interior Surfaces
- Mildew Resistant
- 40 Year Warranty
- New Almond Color

CRL 321 Acrylic Latex with Silicone is a special blend of silicone and acrylic latex that provides superior primerless adhesion to building materials such as wood, brick, glass, plastic, metal and ceramics. The silicone gives it flexibility, the acrylic promotes long life expectancy. Together they form an excellent sealant that can be used around window and door frames, for siding and trim work, caulking tubs and sink tops, thresholds and baseboards. CRL 321 can be tooled for approximately 30 minutes, and can be painted over after two hours with oil or latex based paints.

COMPARABLE SEALANTS: CRL 800; Pecora® AC-20, Dap® Alex-Plus; OSI® Polyseamseal Acrylic Caulk with Silicone; OSI® SA-167; Sonneborn® Sonolac; Tremco® 834.

10.3 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
321C	Clear
321ALM	Almond
321BRZ	Bronze
321GRY	Gray
321W	White

All cartridge sealants can be combined for quantity pricing.

CRL 15W Premium Grade White Acrylic Latex Caulk

- Adheres to All Common Interior Substrates
- Can Be Painted After Two Hours with Latex Paint
- Easy Soap and Water Clean Up
- 25 Year Life Expectancy

CRL15W Premium Grade Acrylic Latex Caulk is a superior quality acrylic latex caulk formulated to meet the needs of the professional or the do-it-yourselfer. It has a creamy consistency, and applies easily with a standard caulking gun. Use it to seal around doors, windows, baseboards and ceilings to provide long lasting protection. CRL15W may be painted when a skin has formed, usually two hours after application for latex paint, or 24 hours if using oil-based paint. Clean up is easy with soap and water before curing, mechanically afterward.

SPEC DATA: Tack Free Time – 30 to 60 Minutes; Shelf Life – 12 Months (at 80°F); Percent Elongation at Break – 250 ± 50; Tensile Strength at Break – 25 ± 5 psi; Solids Content – 82 ± 0.5.
COMPARABLE SEALANTS: Red Devil® Interior Wall & Wood; Dap® Alex; OSI® LC-160.

10.1 FL. OZ. CARTRIDGES - 24 PER CASE

CAT. NO.	COLOR
CRL15W	White

All cartridge sealants can be combined for quantity pricing.

CRL M66 Polyurethane Construction Sealant

- One-Part Textured Formula for Exterior and Interior Use
- Available in Up to Nine Colors

CRL M66 is a one-part, moisture curing, gun grade polyurethane sealant. It is durable, flexible and offers excellent performance in moving joints. It does not require a primer on most common construction surfaces. M66 cartridges fit all standard cartridge caulking guns whether hand, air or battery powered.

CRL M66 is an excellent general purpose sealant designed for use on precast, masonry, glazing, window frame perimeters and similar types of construction joints. M66 is suitable for continual immersion in water. It is designed for exterior and interior use, and may also be used in glazing as a toe or heel bead. M66 is compatible with preformed tapes and bedding compounds used in glazing. It is also suitable for manufacturing uses, such as production of travel trailers and mobile homes, and in assembly of galvanized air conditioning duct work.

- New Cost Saving Sausage Packs

NEW

CRL M66 is now available in cost saving sausage packs for sausage loading guns, such as our WG51001 (manual), CG48SG (cordless) or WG6100620 (air). Bulk sausage packing means less waste and better economy per use, so you get the same great quality for less expense.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
M66OFW	Off-White
M66BL	Black
M66BRZ	Bronze
M66GRY	Gray
M66L	Limestone
M66T	Tan
M66AL	Aluminum
M66MBRZ	Medium Bronze
M66RW	Redwood

All cartridge sealants can be combined for quantity pricing.

M66 conforms to Federal Specification TT-S-00230C, Type II, Class A; ASTM C 920-94, Type S, Grade NS, Class 25, Use NT, M, A and O; USDA approved.

20.3 FL. OZ. SAUSAGES - 15 PER CASE

CAT. NO.	COLOR
M66SOFW	Off-White
M66SBRZ	Bronze
M66SGRY	Gray

Colors can be combined for quantity pricing.

CRL M64 Polyurethane Construction Sealant

- Low Modulus Smooth Formula
- Available in Up to Seven Colors
- + 100%, -50% Joint Movement Capability

CRL M64 is a high performance, low modulus, one-component, moisture curing, modified polyurethane sealant. It has a smooth, even consistency and produces a smooth surface when cured. M64 requires no priming for common substrates such as brick, concrete, aluminum, wood and granite. It applies with any standard cartridge caulking gun.

CRL M64 was developed for sealing dynamically moving joints, such as: expansion and control joints, precast concrete panel joints, tilt-up panel joints, curtainwall joints, perimeter caulking (windows doors, panels), bedding of mullions, panels and frames.

CRL M64's tenacious adhesion will not dissipate with time. This weather-resistant formulation has a balanced adhesive strength, low modulus and high recovery, making it ideal to withstand the following adverse conditions: moisture, movement, shear and deflection.

- New Cost Saving Sausage Packs

NEW

CRL M64 is now available in cost saving sausage packs for sausage loading guns, such as our WG51001 (manual), CG48SG (cordless) or WG6100620 (air). Bulk sausage packing means less waste and better economy per use, so you get the same great quality for less expense.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
M64OFW	Off-White
M64BL	Black
M64BRZ	Bronze
M64GRY	Gray
M64L	Limestone
M64T	Tan

All cartridge sealants can be combined for quantity pricing.

M64 conforms to Federal Specification TT-S-00230C, Type II, Class A; ASTM C 920-94, Type S, Grade NS, Class 25, Use NT, M, A and O; CAN/CGSB 19.13-M87, Type MCG-225-A-N with QPL #81050; USDA approved.

20.3 FL. OZ. SAUSAGES - 15 PER CASE

CAT. NO.	COLOR
M64SOFW	Off-White
M64SBRZ	Bronze
M64SGRY	Gray
M64SALM	Almond

Colors can be combined for quantity pricing.

CRL Vulkem® 116 Polyurethane Sealant

- One-Part Grainy Textured Finish
- Durable and Flexible Seal
- Primerless Adhesion on Most Common Construction Surfaces

CRL Vulkem® 116 Sealant is a one-part moisture curing, gun grade polyurethane sealant that is durable, flexible, and offers excellent performance in moving joints. No primer is required on most construction materials. It is an excellent general purpose sealant designed for use in precast, masonry, glazing, window frame perimeters and similar types of construction joints. The light grainy texture has proven very popular for matching textured substrates like stucco and masonry. For smooth metal storefront joints the light texture blends and hides tooling marks, and the wavy effect that is inevitable when tooling sealants.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
V116OFW	Off-White
V116BL	Black
V116BRZ	Bronze
V116GRY	Gray
V116L	Limestone
V116T	Tan

All cartridge sealants can be combined for quantity pricing.

Vulkem® 116 conforms to Federal Specification TT-S-00230C, Type II, Class A; ASTM C 920-94, Type S, Grade NS, Class 25, Use NT, M, T, A, and O; USDA approved.

CRL Tremco DyMonic® Low Modulus Expansion Joint Sealant

- **Cost Saving Sausage Packs**
- **Low Modulus, One-Component, Smooth Surface Type Expansion Joint Sealant**
- **Primerless Adhesion to Most Common Building Substrates**

Tremco DyMonic® is a high performance, low modulus, one-component, moisture curing, modified polyurethane sealant. DyMonic® features a smooth, consistent surface when cured. It requires no priming when used on most common substrates, provided surfaces are dry, clean and free from contaminants. It is supplied in a non-sag consistency which will gun easily with conventional caulking equipment.

Tremco DyMonic® can be used to seal dynamic moving joints in precast concrete panels, curtainwall, and tilt-up panels. Also for expansion and control joints, perimeter caulking of windows and doors, bedding of mullions, frames and panels. It develops a strong adhesive bond that will not deteriorate, and exhibits excellent weather resistance. Its balance of properties (high strength, low modulus, high recovery) makes it able to withstand moisture, shear and deflection movement.

CRL Tremco DyMonic® Expansion Joint Sealant is now available in cost saving sausage packs for sausage loading caulking guns, such as our WG51001 (manual), CG48SG (cordless) or WG6100620 (air). Sausage packing means less waste and better economy per use (up to 15% per ounce of material), so you get the same great quality for less expense.

Meets the requirements of Federal Specification TT-S-00230C, Type II, Class A, ±25% Movement Capability; ASTM C 920-87, Type S, Grade NS, Class 25, Use NT, M, A and O (granite).

COMPARABLE SEALANTS: CRL M64, CRL M66 Sealants; Tremco® Vulkem 116, Tremco® Vulkem 921, Tremco® Vulkem 911, Tremco® Vulkem 931 Sealants; Sika 1A, Sika 15LM Sealants; Sonneborn® NP1, Sonneborn® Sonolastic 150 Sealants; Pecora® Dynatrol 1 Sealant; OSI® PR-255 Sealant; Schnee Morehead 7100 Sealant; Somaca One-Part Polyurethane Sealant; Bostik® Chem-Calk 900 Sealant.

20.3 FL. OZ. SAUSAGES - 15 PER CASE

CAT. NO.	COLOR
9503574	Off-White
9503485	Black
9503504	Aluminum/Stone
9503564	Bronze
9503584	Limestone

NOTE: Additional Colors: are available in 10.14 Fl. Oz. cartridges. Sold only in full cases. Colors can be combined for quantity pricing.

CRL Tremco Dymeric® 511 Polyurethane Sealant

- **Specifically Developed to Weatherproof Building Joints**
- **Multi-Component, Chemically Curing**

CRL Tremco Dymeric® 511 is a patented, multi-component, chemically curing, polyurethane sealant specifically formulated for dynamically moving building joints. It provides non-sag, flexible, durable, weathertight seals in such areas as: expansion joints in masonry and metal curtainwall; perimeter joints of sash, panels and doors; exterior insulated finish systems; severe outdoor applications with ultraviolet exposure.

Dymeric® 511 has a gun grade consistency, and is easily workable in hot and cold climates producing a smooth, attractive bead. It adheres without primer in most applications (concrete, wood, brick, and masonry). Colors are supplied in disposable pouches. One pouch mixes with one 1-1/2 gallon base unit. Additional colors and Custom Color matching is available. Contact CRL Technical Sales.

Meets U.S. Federal Specification TT-S-00227E, Class A, Type II; ASTM C 920, Type M, Grade NS, Class 25, Use NT, M, A, and O; Canadian Standard CAN/CGSB-19.24-M90, Type II Class B.

CAT. NO.	DESCRIPTION
DYM511	Dymeric Tint Base 1.5 Gallon Pail
105511	Precast White Color Pak
105501	Bronze Color Pak
105502	Black Color Pak
105503	Off White Color Pak
105505	Limestone Color Pak
105551	Aluminum/Stone Color Pak

Color pack pouches can be combined for quantity pricing.

CRL 777 Butyl Rubber Sealant

- **Excellent Adhesion to a Variety of Clean Surfaces**
- **Superior Exterior Weathering Properties**

CRL 777 Butyl Rubber is a unique, butyl-based sealant specially formulated using a blend of age resistant polymers that will withstand joint movement of ± 10% without affecting its water-tightness. Excellent adhesion to wood, masonry, glass and metal surfaces.

11 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
777W	White
777BL	Black
777BRZ	Bronze
777GRY	Gray

All cartridge sealants can be combined for quantity pricing.

Meets Federal Specifications TT-S-001657, Type 1; TT-C00598C; TT-C-1796A; ASTM C1311; AAMA 808.3; USDA Certified

CRL 888 Premium Grade Caulking Compound

- **Economical, Air and Watertight Seal**
- **Non-Stringy; Easy to Apply and Tool**

CRL 888 Premium Grade Caulking is a general purpose, butyl-based sealant suitable for use in joints where economical, maintenance-free and watertight seals are desired. It is designed for use in joints of 3/8" or less in metal, glass, wood, plastic and concrete.

11 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
888W	White
888BLBRZ	Black/Bronze
888GRY	Gray

All cartridge sealants can be combined for quantity pricing.

Meets Federal Specifications TT-S-001657; TT-C00598C; TT-C-1796A; ASTM C1085; ASTM C1311; AAMA 808.3

CRL Tremco 830 Thermoplastic Elastomeric Sealant

- Flexible Seal in Glazing and Siding Applications
- Adheres to Metal and PVC Plastic

CRL Tremco 830 is a one-part, thermoplastic, elastomeric sealant that provides a high performance, flexible seal in glazing and siding applications. Tremco 830 can be used for face bedding and cap bead in glazing applications, and sealing of miter joints in window profiles. For siding, Tremco 830 is used in metal and PVC siding applications for window and door cap, fascia, J-trim, F-channel, crown molding, and perimeter sealing of residential windows and doors.

10.1 FL. OZ. CARTRIDGES - 20 PER CASE

CAT. NO.	COLOR
985800	Clear
985802	Black
985806	White

All cartridge sealants can be combined for quantity pricing.

COMPARABLE SEALANTS:
CRL FS1050 Flexible Seal Sealant; OSI® Quad; Sashco Lexcel; Tremco® Gutter Seal.

CRL Tremco Gutter Seal

- Specifically Designed for Use in Gutter and Rainwear Applications
- Adheres Metal-to-Metal and Metal-to-Plastic
- Minimal Tooling Required

CRL Tremco Gutter Seal is a one-part, high quality blend of synthetic rubber and resin. It exhibits excellent elastomeric properties while maintaining superior adhesion under ponded water conditions. Gutter Seal has been specifically designed for use in gutter and rainwear applications, and is ideally suited for metal-to-metal and metal-to-plastic joints commonly found in and around the eaves trough.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
984800	Clear

All cartridge sealants can be combined for quantity pricing.

COMPARABLE SEALANTS:
CRL FS1050 Flexible Seal Sealant; OSI® Quad; Sashco Lexcel; Tremco® 830 Thermoplastic Elastomeric Sealant.

CRL Tremco Butyl Sealant

- Excellent Adhesion to Most Common Substrates such as Wood, Metal, Glass, Concrete and Masonry
- Seals to Tremco Neoprene or EPDM Gaskets
- Easy to Apply and Tool

CRL Tremco Butyl Sealant is formulated from a blend of butyl rubber and polyisobutylene to form an economical flexible sealant. Butyl Sealant is used for sealing joints where a 10% maximum joint movement is expected. Typical uses include various curtainwall joints, bedding thresholds, glazing secondary seals, and where a seal is required against Tremco Neoprene or EPDM gaskets. Has excellent adhesion to most common substrates such as wood, masonry, glass, concrete and metal surfaces.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

CAT. NO.	COLOR
982802	Black
982806	White
982851	Aluminum Stone

All cartridge sealants can be combined for quantity pricing.

Conforms to U.S. Federal Specifications TT-S-001657, Type 1; CAN/CGSB 19-GP-14M, QPL 81002.

COMPARABLE SEALANTS:
CRL 777; CRL 888; Adco® B-100; Adco® AP-77; Dap® Butyl-Flex; OSI® SBR-100; PTI 757; Pecora® BC-158; PSI-301.

CRL Tremco Acoustical Sealant

- Developed for Acoustical Sealing of Drywall Partitions, Corridors and Party Walls
- The Designed STC Value May Be Substantially Improved

CRL Tremco Acoustical Sealant is a single component, non-skinning, non-hardening synthetic rubber sealant. It was developed for acoustical sealing of drywall partitions, corridors and party walls. CRL Tremco Acoustical Sealant is also used as a lap joint and perimeter sealant for polyethylene vapor barriers over fiberglass batt or other insulations. May also be used in contact with polystyrene.

Acoustical sealants are used in the design and construction of drywall partitions between individual residential units and along corridor walls. In this application, the sealant must inhibit air movement and buffer vibration, both of which contribute to sound transmission. CRL Tremco Acoustical Sealant has been specifically formulated for this purpose by being a heavy density sealant with exceptional adhesion and long term flexibility attributes. The designed STC (Sound Transmission Class) value of a partition may be substantially improved through proper sealant placement.

- Large Capacity Quart Size Cartridge

29 FL. OZ. CARTRIDGES - 12 PER CASE

CAT. NO.	COLOR
93170X	Dark Gray

All cartridge sealants can be combined for quantity pricing.

APPLICABLE STANDARDS:
CAN/CGSB 19.21 M87 (QPL# 60963-H)

CRL FS1050 Flexible Seal Sealant

- Paintable When Fully Cured
- Primerless Adhesion to Many Common Building Substrates
- Resists Weathering and Aging
- Gunnable to -20°F (-29°C)

CRL FS1050 Flexible Seal is a long lasting elastomeric product that is formulated for superior, primerless adhesion to many common building substrates, including brick, concrete, steel, aluminum, glass, wood, clay, tile and most common plastics. The elastomeric characteristic allows the sealant to expand and contract where temperatures may vary 70°F in a matter of hours. Primarily designed for use in the sealing of small joints or cracks up to 1/4".

Applications include flashings, drains, ducts, vents, gravel guards, or where openings have been created due to aging. You can use FS1050 to seal damp surfaces under all types of weather conditions.

COMPARABLE SEALANTS: OSI® Quad; Sashco Lexcel; Tremco® 830

10.6 FL. OZ. CARTRIDGES - 25 PER CASE

CAT. NO.	COLOR
FS1050C	Clear
FS1050W	White
FS1050GRY	Gray

All cartridge sealants can be combined for quantity pricing.

CRL Backer Rod Insert Tool Set

- Easily Install Closed or Open Cell Backer Rod

Complete Set
Cat. No. T607CU605

SET INCLUDES: Two main frames; one main 13/16" bearing wheel; four insertion wheels (1/8", 1/4", 3/8", 1/2") for each main frame; one push blade adapter. Instructions are included.

The easiest and quickest way to install open cell or closed cell backer rod is to use our Backer Rod Insert Tool Set. This assortment of handles and rollers allows insertion of backer rod with diameters of 1/8" and larger. Nylon wheels won't damage or scratch adjacent channel walls.

CRL Reusable Caulk Tips

- Fit All Standard Cartridges

1/2" Bead Tip | 1/4" Bead Tip | 1/8" Bead Tip | Cap

Reusable Caulk Tips fit all standard cartridge nozzles, and can be used to give a consistent bead size. Screw 1/2" Bead Tip on cut cartridge nozzle. Use it alone for 1/2" Bead, or add 1/4" and 1/8" Bead Tips as needed. Tips are precut at 45°. Includes cut guide for cartridge nozzle, and nozzle cap to seal off tips.

CAT. NO.	DESCRIPTION	QTY./PK.
CT45	Caulk Tips	4

CRL Sealant Finishing Tool

- Titanium Catalyst Material Won't Stick to Sealant
- Lightweight and Flexible Tool Simplifies Tooling of Sealant

Cat. No. SCFT1

Our SCFT1 Sealant Finishing Tool is made of a Titanium Catalyst material that won't stick to sealants. This makes tooling fresh sealant joints easy, with smoother results and faster clean-up. The SCFT1 has three different radius corners for tooling inside and outside corner joints and butt joints. One corner has a scraping edge to remove excess sealants. There's even a hole so you can hang it up when done. The lightweight and flexible SCFT1 is only 5/16" thick, and measures approximately 3-1/2" by 3-1/2".

CRL Little Red Nozzle Caps

NEW

- Economical and Reusable
- Reduces Sealant Waste
- A Cap for Everything

The Little Red Cap is designed for capping cartridges of caulking, sealants and adhesives. Placed over the nozzle of partially used sealant cartridges, they seal out air and dirt to preserve the quality of the remainder of the product.

CAT. NO.	DESCRIPTION	QTY./PACK
LRC35	Little Red Nozzle Caps	35

CRL Handi-Seal Window and Door Sealant

- Exceptionally Low Pressure and Minimal Expansion Sealing Foam
- Virtually Eliminates Bowing of Window Frames
- Seals Window and Doors Quickly and Easily

CAT. NO. P10131
24 Ounce Can

CRL Handi-Seal Window and Door Sealant is a one-component polyurethane foam in a pressurized can specially formulated for window and door applications. Its unique low pressure and minimal expansion properties virtually eliminate the chance of bowing that can lead to customer callbacks. Handi-Seal provides superior thermal insulating properties in comparison to traditional building materials, such as fiberglass, mineral fiber and caulk. Handi-Seal will not sag when wet and does not absorb water (closed cell). This technically advanced polyurethane foam exerts about 85 percent less pressure than typical foams, and becomes tack-free in less than five minutes. Provides good flow in low temperature environments. Easily dispensed with either our Plastic Dispensing Gun or our Metal Dispensing Gun.

CRL Handi-Foam Gun Foam

- Fast Curing, One-Part Polyurethane Foam
- Minimal Expansion – Only 20 to 25 Percent
- Ideal for Filling Cracks, Insulating Gaps Around Air Ducts and Pipes

CAT. NO. P10290
31 Ounce Can

CRL Handi-Foam is a one-component polyurethane foam in a pressurized can that expands only 20 to 25 percent of its original volume. Use Handi-Foam as a fill to stop air infiltration from cracks, gaps, holes, and more. It adheres to everything except teflon, silicone and polyethylene, so you can use it in dozens of insulating and sound deadening applications like plumbing, duct work and electrical. Once it has cured, Handi-Foam can be trimmed, sanded and painted. Large 31 ounce can yields 4,000 feet of foam in a 1/4" bead; over 1,000 feet in a 1/2" bead. Easily dispensed with either our Plastic Dispensing Gun or our Metal Dispensing Gun.

CRL Handi-Foam Dispensing Guns

- For Application of Handi-Foam and Handi-Seal

CRL Gun Foam is applied using either the metal or plastic Handi-Foam Dispensing Guns. The trigger applicator has a control valve for precise material flow, and a comfortable pistol-size grip for easy handling. The Handi-Foam canister fits directly into a receptacle atop the gun, making reloading fast and simple. Just screw on the can, hold can and gun in both hands, shake vigorously for one minute and you're ready to go!

CAT. NO. F61010
Metal Dispensing Gun

CAT. NO. F61000
Plastic Dispensing Gun

CRL Fein Sealant Cutter Knife

- Removes Old, Hardened Caulk Quickly and Easily
- Variable Speed Blade Oscillates Up to 22,000 Times per Minute

CAT. NO. FK23618

With the high cost of labor this CRL Fein Sealant Cutter will quickly pay for itself. The oscillation on this tool is simply a short back and forth stroke of the cutting blade, one degree to each side, at a frequency of up to 22,000 times per minute as it cuts its way through the material. Another important advantage is that diamond-tipped blades can be used to cut through marble and mortar joints, while keeping dust formation to a minimum.

The CRL Fein Sealant Cutter features an electronic speed control to keep cutting speed constant, even under a load, so you can select the best cutting speed for every application. The gears are designed for continuous operation, and run in an oil-bath. The fiberglass reinforced polyamide motor housing resists wear and tear. Thanks to a twelve-sided mount, cutting blades can be adjusted to any position.

Kit includes a CRL Fein Cutter Tool, two blades (one each FKB17015 and FKB128) and a blade removal tool, all packed in a molded carrying case.

A Complete Selection of Blades

DIAMOND SICKLE BLADE
CAT. NO. FKB16201
Diamond coated segment saw blade for cutting joints without overlap.

SICKLE BLADE
CAT. NO. FKB13201
Segment saw blade (offset), is for removing insulating glass installed on a putty bed.

ROUND DIAMOND BLADE
CAT. NO. FKB10401
Diamond coated blade for cutting out marble and mortar joints, and making cuts in plaster walls. 3-1/8" diameter.

MUSHROOM BLADE
CAT. NO. FKB128
Mushroom shaped blade for separating panes of insulating glass. Also for cutting silicone, soft putty and elastic joint sealant.

CAULKING BLADE
CAT. NO. FKB17015
Flat Blade for removing material while working on flush surfaces.

SEALANT BLADE
CAT. NO. FKB16011
Straight, elongated blade for removing flexible sealing compounds in extremely deep joints.

Caulking Gun Ratios – What does it mean? EXTRA THRUST!

Today's high viscosity sealants have brought about a new age of caulking guns. The question is, what does the term "ratio" really mean? Quite simply, for every pound of pressure being applied by the user, the ratio is a multiplier of pounds of pressure being exerted. For example, the CRL 18 to 1 Ratio Caulking Gun would provide 18 times the amount of each pound of pressure being applied.

CRL Chilton 12 to 1 Ratio Caulking Gun

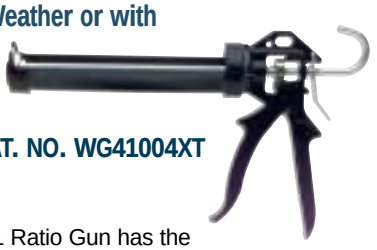
- Heavy Duty Strap Frame Gun
- Our Most Popular Model

CAT. NO. WG41004

The Chilton 12 to 1 Ratio Caulking Gun has the smooth operation of a friction rod, plus a large handle and trigger. The strong metal frame holds all standard size caulking cartridges. It's our most popular caulking gun.

CRL Extra Thrust 18 to 1 Ratio Caulking Gun

- Ideal for Use in Cold Weather or with High Viscosity Sealants such as Automotive Urethanes



CAT. NO. WG41004XT

This Extra Thrust 18 to 1 Ratio Gun has the smooth operation of a friction rod, plus a large handle and trigger. The strong metal frame holds all standard size caulking cartridges. Special pull ratio makes it easier to dispense stiff bodied sealants and adhesives, such as automotive urethanes.

CRL Deluxe Ascot 26 to 1 Ratio Caulking Gun

- Effortless Dispensing of High Viscosity Sealants
- New Stronger Frame Design

CAT. NO. WG410042T

The Deluxe Ascot 26 to 1 Ratio Caulking Gun combines case hardened working parts with a contoured handle and trigger design to make this gun the ultimate for dispensing high viscosity sealants. A revolutionary Wear Compensating Device removes free play in the trigger to provide instant rod drive when the trigger is pulled. The Wear Compensating Device, along with case hardened rod, release plate and fulcrum pins will provide extended working life.

CRL Air Power 20 Ounce Sausage Caulking Gun

NEW

CAT. NO. WG6100620

The CRL Air Power Sausage Caulking Gun dispenses even heavy materials, such as automotive urethane, at a smooth, controlled rate of flow. Can be used with 10, 15.2 or 20.3 fluid ounce sausage packs. The high flow trigger valve is responsive, with a built-in regulator to control flow, and an instant release valve with silencer to stop material flow. Gun can operate at up to 100 psi maximum. The body is made of lightweight drawn aluminum with a quick release end cap for fast change out of sausages.

CRL Piston Rod Air Caulking Gun

- Dispenses Standard Cartridges and 10 Ounce Sausage Packs

CAT. NO. WG61004

The Piston Rod Air Caulking Gun dispenses even heavy materials, such as automotive urethane, at a smooth, controlled rate of flow. The piston rod thrust prevents material contamination by compressed air, allowing use with standard cartridges, or 10 ounce sausage packs. The high flow trigger valve is responsive, with a built-in regulator to control flow, and a quick exhaust valve to stop material flow. The gun is well balanced and lightweight for operator ease, and can also be easily dismantled for cleaning.

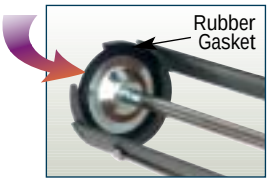
CRL Powerglide No-Drip Caulking Gun

- Stops Drips Automatically
- Dual Power Settings: No Drip or Power Thrust

CAT. NO. Z349

The Powerglide No-Drip Caulking Gun uses an exclusive automatic mechanism that creates a "vacuum" between the plunger and the caulking cartridge. When you release the trigger the material flow stops automatically. Handy nozzle piercer is part of the sturdy steel skeleton type frame.

THE DRIPLESS SECRET



CRL Vacuum Action No-Drip Caulking Gun

- Stops Drips Automatically
- No Mess Caulking
- Heavy Steel Cradle Style Frame

CAT. NO. Z343

This heavy-duty, cradle type caulking gun features the exclusive Vacuum Action Mechanism for no-drip caulking. Smooth operating, it features a strap, a nozzle cutter, and a piercer. The gun is cadmium plated for long wear. Smooth trigger action for less stress on fingers and hands.

All manual caulking guns can be combined for quantity pricing.

CRL Cordless Caulking Guns • Three New Models

CRL Cordless Caulking Guns are ideal for glazing contractors, auto glass installers, building contractors, roofers, cabinet makers, OEM fabricators, window manufacturers, or anyone who applies lots of sealant and wants an easier, more professional way of getting the job done, without the restrictions of cords or hoses.

CG48 and CG48SG guns feature a variable speed dial for controlling the flow of the sealant, and a quick release end cap for fast cartridge re-loading. All three guns feature: patented dripless mechanism to prevent sealant run-on; patented rapid plunger release mechanism for fast cartridge re-loading; cut-off switch that stops the unit when the plunger reaches the end of the cartridge; soft grip handle for user comfort; safety wrist strap.

CRL 4.8 Volt Variable Speed Cordless Caulking Gun Kit

NEW

- Includes 4.8 Volt Battery and One Hour Charger
- Dispenses from 30 to 32 Standard Size Cartridges per Full Charge
- Fast Cartridge Reloading
- Total Weight with Battery is Only 4.4 Pounds

CAT. NO.	DESCRIPTION
CG48*	4.8 Volt Cordless Caulking Gun Kit
CG48B	4.8 Volt DC Battery Pack
CG48C	Battery Charger

* CG48 includes one gun, battery, charger and molded case.

• Powers Both the CG48 and CG48SG Cordless Caulking Guns

This CRL 4.8 Volt DC Rechargeable Battery is used with the CG48C One Hour Charger to power the CG48 and CG48SG Cordless Caulking Guns. By having an extra battery, you can be charging one battery while the other is in use for continuous gunning and uninterrupted production.

CG48B Battery

• Charges the CG48B Battery in Only One Hour

This CRL One Hour Battery Charger charges the CG48B 4.8 Volt Battery which is used with the CG48 and CG48SG Cordless Caulking Guns. Charger plugs into any 110V AC outlet.

CG48C Charger

CRL 4.8 Volt Variable Speed Cordless Sausage/Cartridge Caulking Gun Kit

NEW

- Dispenses Sausage Packs or Cartridges with the Same Barrel
- Includes 4.8 Volt Battery and One Hour Charger
- Dispenses from 15 to 16 Sausage Packs per Full Charge
- Dispenses from 30 to 32 Standard Size Cartridges per Full Charge
- Total Weight with Battery is Only 4.6 Pounds

CAT. NO.	DESCRIPTION
CG48SG*	4.8 Volt Cordless Sausage/Cartridge Caulking Gun Kit
CG48B	4.8 Volt DC Battery Pack
CG48C	Battery Charger

* CG48SG includes one gun, battery, charger and molded case.

CRL 2.4 Volt Single Speed Cordless Caulking Gun

NEW

- Single Speed Light Duty Gun is Ideal for Construction Sealants and Adhesives
- Includes 2.4 Volt Battery and One Hour Charger
- Can Dispense 12 to 15 Cartridges on a Full Charge
- Total Weight with Battery is Only 2.5 Pounds

CAT. NO.	DESCRIPTION
CG241S*	2.4V Single Speed Cordless Caulking Gun Kit
CG24B	2.4 Volt DC Battery Pack
CG24C	Battery Charger

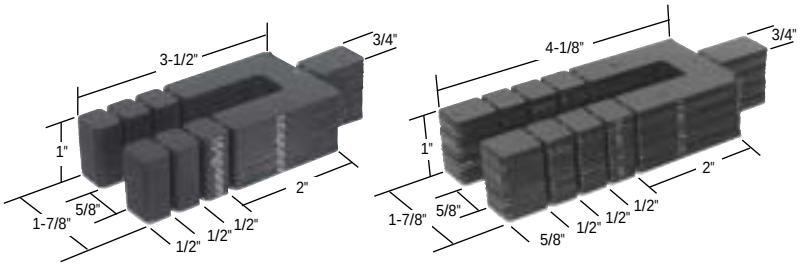
* CG241S includes one gun, battery and charger.

Single Speed Light Duty Gun is ideal for construction sealants and adhesives, but should not be used to dispense high viscosity automotive urethane adhesives as they may damage drive gear components.

CG24B Battery

CG24C Charger

CRL Shimstack Shims



KRS16 Standard Size

KRS26 Extra Long Size

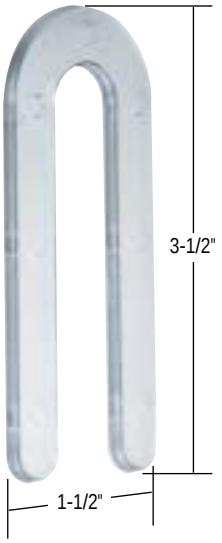
- **Adjustable Size Options Lets You Choose the Desired Thickness from 1/16" to 1"**
- **New Extra Long Size**

ShimStack Shims give you fast, low cost leveling. 16 heat-sealed pieces make up one 1" stack. Simply snap off individual shims to get the thickness you need. Made of fire resistant, non-staining, black color high-impact plastic with an ASTM rating of 5000 p.s.i. compressive strength.

CAT. NO.	THICKNESS	LENGTH
KRS16	1/16"	3-1/2"
KRS26	1/16"	4-1/8"

Sizes can be combined for quantity pricing. Minimum order: 1000 Shims

CRL Clear Plastic Horseshoe Shims



- **Clear Color Helps Hide Shim**
- **1/16", 1/8", 1/4" Thicknesses**

CRL Clear Plastic Horseshoe Shims are made to simplify leveling problems wherever they occur, and have been approved by architects for use in the installation of windows, doors, curtainwalls, storefronts and insulating glass units.

CRL Horseshoe Shims are made of clear high impact styrene plastic, properly designed and balanced for vertical or horizontal use, and are available in three thicknesses.

NEW

CAT. NO.	THICKNESS	LENGTH	WIDTH
CHS16	1/16"	3-1/2"	1-1/2"
CHS18	1/8"	3-1/2"	1-1/2"
CHS14	1/4"	3-1/2"	1-1/2"

Sizes can be combined for quantity pricing. Minimum order: 100 Shims

CRL Glazelock Inter-Locking Horseshoe Shims

The Inter-Locking mechanism on every Glazelock Shim keeps them aligned. It's such a clever idea, it was granted a U.S. Patent.

CRL Glazelock Shims have a collapsible Inter-Locking mechanism that keeps them in line. This allows you to stack the various sizes to the desired thickness for every installation. Glazelock Shims are made of a moisture and alkaline-resistant, high-impact polystyrene that will not rot, shrink or swell.

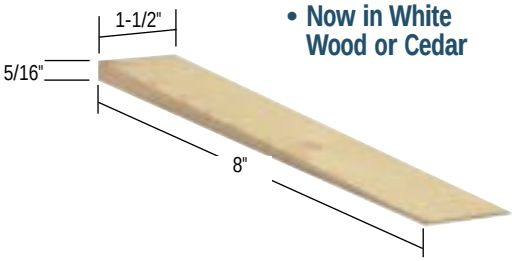
- **The World's Only Inter-Locking Stackable Horseshoe Shim**
- **Eliminates Separation and Shifting of Shims**
- **Color Coded for Quick Selection**

CAT. NO.	COLOR	THICKNESS	LENGTH	WIDTH
GLS26	Blue	1/16"	3"	1-1/2"
GLS28	Red	1/8"	3"	1-1/2"
GLS24	Black	1/4"	3"	1-1/2"

Sizes can be combined for quantity pricing. Minimum order: 100 Shims

CRL Wood Shims

CRL Wood Shims can be used in so many ways: for leveling door and window frames, cabinets and large appliances; for stirring paints and stains; for spreading mastics and adhesives. They are handy to use, with no more mess of breaking or cutting shingles. New Cedar Shims snap off cleaner, and provide more rot resistance when used in areas of high moisture.



- **Now in White Wood or Cedar**

CAT. NO.	TYPE	SHIMS/CTN.
NWS9	White Wood	420 Shims
NWS9C	Cedar	432 Shims

Types can be combined for quantity pricing.

CRL Wood Composite Shims

This CRL Wood Composite Shim is engineered to high performance standards with reduced material at natural break-points. Less waste and greater strength result. So versatile, they can be used in so many ways: for leveling door and window frames, cabinets and large appliances; for stirring paints and stains; for spreading mastics and adhesives.

Environmentally superior, they use no wood from the rain forests or wood from endangered tree species, and their 100% wood waste encourages recycling. Composite Shims measure 8" long by 1-1/2" wide. Taper is from 5/16" to 1/16".

NEW

- **35% Better Load Support than Traditional Wood**
- **Snaps Four Times Easier**
- **Resists Splitting, Splintering, Swelling, Warping**
- **Waterproof**

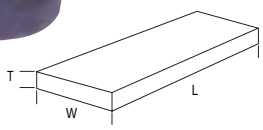
CAT. NO.	TYPE	SHIMS/CTN.
NWCS8	Wood Composite	32

Can be combined with all other wood shims for quantity pricing. Minimum order: One Carton

CRL Neoprene Setting Blocks

- 80 Durometer Neoprene Rubber
- 12 New Sizes

CRL's top quality 80 durometer Neoprene Setting Blocks are now available in a total of 31 stock sizes. See our Big Red Master Catalog or the CRL website for the complete selection. Custom sizes and hardnesses are also available on special order.



CAT. NO.	THICKNESS	WIDTH	LENGTH
SB578	1/16"	1/2"	4"
SB579	1/8"	1/2"	4"
SB580	1/4"	1/2"	4"
SB581	1/2"	1/2"	4"
SB582	3/16"	7/8"	2"
SB583	1/8"	1"	2"

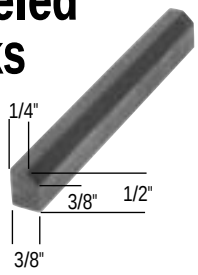
Sizes can be combined for quantity pricing.

CAT. NO.	THICKNESS	WIDTH	LENGTH
SB584	1/4"	1"	2"
SB585	3/8"	1"	2"
SB586	3/8"	1/2"	1"
SB587	1/16"	1"	2"
SB588	1/4"	7/8"	4"
SB589	3/16"	7/8"	4"

Minimum order: 100 each. Must be ordered in increments of 100.

CRL "Vinyl Set" Beveled Corner Setting Blocks

- Helps Eliminate "Waves" in Vinyl
- Compatible with Silicone, Polyurethane and Polysulfide



CRL "Vinyl Set" Beveled Corner Setting Blocks are sure to save you time because you will not need to notch the vinyl. This will also eliminate the "waves" that you normally get with standard setting blocks. Vinyl Set Beveled Corner Blocks are made of a 90 durometer material compatible with silicone, polyurethane and polysulfide.

CAT. NO.	BOTTOM WIDTH	OVERALL HEIGHT	LENGTH
TPVS1	3/8"	1/2"	2"
TPVS2	3/8"	1/2"	4"

Sizes can be combined for quantity pricing. Minimum order: 100 each. Must be ordered in increments of 100.

CRL Bulk Rolled Neoprene Setting Block Material

- 80 Durometer Neoprene in 100 Foot Rolls
- Cut Your Own Lengths as Needed to Reduce Waste
- More Versatile and Economical Than Pre-Cut Blocks

CRL Bulk Rolled Neoprene Setting Block Material cushions and supports glass, and acts as a centering device for glass installed in channels. The 80 durometer neoprene rubber composition makes it resilient, so that glass cushioned by the material can withstand vibration, shock and heavy wind loads.

These economical 100 foot rolls can be cut to any length for each application, and are available in a variety of stock sizes. Custom sizes can be quoted upon request.

CAT. NO.	THICKNESS	WIDTH	FEET/ROLL
SBRL1	5/8"	1/4"	100
SBRL2	1/8"	3/4"	100
SBRL3	1/4"	3/4"	100
SBRL4	1/8"	1"	100
SBRL5	1/4"	1"	100

Sizes can be combined for quantity pricing.

CRL Specialty Setting Blocks

- Silicone Rubber is Compatible with, and Will Not Discolor, Most Silicone Sealants
- EPDM Rubber Preferred for Use Where Contact with Fuels or Ozone Could Degrade Silicone Rubber Blocks

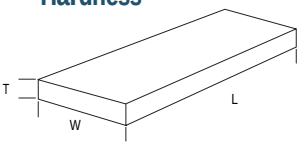
CRL Silicone Rubber Setting Blocks have superior durability, are U.V. resistant, and compatible with most silicone sealants. They will not discolor the silicone should the two come in contact with each other. Job specific testing, prior to start up, is recommended with each silicone sealant manufacturer.

CRL EPDM Rubber Setting Blocks are more durable than Silicone Rubber Setting Blocks, and have better resistance to the effects of weather and ultraviolet rays. CRL EPDM Rubber Setting Blocks are preferred for use in places where there is potential for contact with fuels and/or ozone.

SILICONE CAT. NO.	EPDM CAT. NO.	THICKNESS	WIDTH	LENGTH
SBSN1	SBEP1	1/16"	1-1/8"	4"
SBSN2	SBEP2	1/8"	1-1/8"	4"
SBSN3	SBEP3	3/16"	1-1/8"	4"
SBSN4	SBEP4	1/4"	1-1/8"	4"
SBSN5	SBEP5	3/8"	1-1/8"	4"
SBSN6	SBEP6	1/2"	1-1/8"	4"
SBSN7	SBEP7	1/2"	7/16"	4"
SBSN8	SBEP8	1-1/8"	1-1/8"	4"

Sizes can be combined for quantity pricing.
Minimum order: 100 each. Must be ordered in increments of 100.

- 80 Durometer Hardness



CRL EZ-Ancors

- Self Drilling, One Piece Anchors for Mounting to Gypsum Wallboard
- Secure and Removable

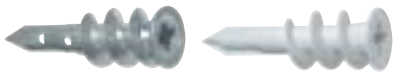
The original EZ-Ancor is: Fast (no predrilling or hole preparation necessary); Easy (installs with only a #2 Phillips screwdriver or bit); Neat (single point self-drills a clean, small hole); Secure (deep threads provide strong hold in gypsum wallboard); Removable (can be easily backed out). Available in zinc or plastic to replace plastic plugs, toggle bolts or "Molly" type anchors in dozens of mounting applications.

- Fast, Neat, and Easy as 1 - 2 - 3

1. Place #2 Phillips driver or bit into recess of EZ-Ancor

2. Press into gypsum wallboard while turning clockwise until seated flush with wall

3. Place fixture into position over EZ- Ancor, insert screw and tighten



Zinc Plastic

CAT. NO.	TYPE	SCREW SIZE	QTY./BOX
5000902	Zinc	8-10	100
5035902	Plastic	8-10	100
5006902	Plastic	5-6	100

Minimum order: 100 each. Sizes can be combined for quantity pricing.

CRL Portable Hot/Cold Chest

- Works Off Vehicle's 12 Volt DC Power
- Use It to Warm Caulking
- Use It to Keep Food and Drinks Cool

This convenient and portable Hot/Cold Chest plugs into your vehicle's 12V DC lighter outlet. A thermostat operates the thermoelectric module in the lid to control the inner temperature. Use it to warm caulking cartridges before gunning, or to keep food and drinks cold or warm at the jobsite. The light and portable chest can be used in horizontal or vertical positions. It has two basket type shelves/trays for smaller items. Built-in handles make it easy to carry, and the spacious interior will cool two liter bottles and much more. Split lid allows access while providing optimum interior temperature retention. Detachable 10 foot cord is standard. Optional 115V AC power pack is also available. Capacity: 33 quarts; External dimensions: 13.5" by 16" by 19.5"; Weight: 13 pounds; Color: Light Gray/White. Temperature Range: Heating to 135ºF; Cooling to 40ºF under ambient temperature.

CAT. NO.	DESCRIPTION
P60	Portable Hot/Cold Chest
PAC15	110V AC to 12V DC Converter

PAC15

CRL Digesil Sealant Removal Gel

- Removes Silicone-Based Sealants, Adhesives and Coatings

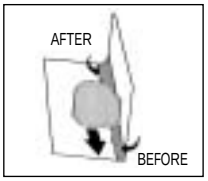
CRL Digesil NC Gel is a silicone 'digestant' formulated to remove silicone-based sealants and adhesives, over-spray of silicone water repellents, coatings and release agents. This clear brown gel's viscosity controls drips and runs. It's ideal for spot applications on vertical surfaces, giving you the extended dwell time required to remove sealant and adhesive build-up. It is fast-acting, removing most sealant and adhesive residues in as little as 15 minutes. It will not damage most glass and glazed surfaces. Always test to confirm compatibility.

CAT. NO.	CONTENTS	QTY./CASE
DGEL10	10.5 Fl. Oz.	12

CRL Calk-Ease™ Caulk Finishing Tool

- Made from Tough Polyethylene

Calk-Ease Finishing Tools are easy to use.
(1) Gun your bead of caulk as usual.
(2) Select desired finished shape.
(3) Holding the Calk-Ease Tool at a slight angle, press firmly and wipe over the wet caulk.
(4) Remove excess every few feet or when needed.



CAT. NO.	DESCRIPTION	QTY./PACK
CE4	Calk-Ease Tool	4

CRL Window and Door Mask

- Protects from Paint Overspray and Stucco Application
- Economical 24 Inch by 600 Foot Rolls (1200 Square Feet)
- Applies Quickly

Avoid costly clean-up of paint overspray and misapplied stucco during construction with CRL Window and Door Mask. MF304 has no release liner to remove, so you simply peel from the roll, apply and trim. This 3 mil polyethylene film stays where you put it because of its strong, water-based acrylic adhesive. Removal is fast and easy. 24 inch by 600 foot long rolls are easy to handle and economical too, costing only pennies per square foot. Special widths up to 100 inches are available by special order.

CAT. NO.	DESCRIPTION	ROLL SIZE
MF304	Window and Door Mask	24" x 600'

CRL Silicone Cleaner and Surface Prep

- Ideal for Removing Uncured Silicone and Many Cured Silicones
- Spray or Wipe On
- Prepares Surfaces to be Sealed, Painted or Bonded

Cat. No. OS2

CRL OS2 is ideal for cleaning and preparing many different surfaces. It won't harm most plastics, and is non-corrosive to metals. CRL OS2 is easy to use, just spray or wipe it on, let it soak for a moment, then wipe it off with a clean cloth. Low in toxicity, it is essentially odorless, and conveniently packaged in a 10.3 ounce aerosol can.

This product is a certified air solvent by the California South Coast AQMD. VOC Exempt

CRL Silicone Clean Up Kit and Replacement Open Cell Pads

- Use for Uncured Silicone Clean Up and Many Cured Silicones
- Prepares Surfaces to be Sealed, Painted or Bonded

A long needed answer to uncured silicone clean up. This kit combines OS2 Silicone Cleaner/Surface Prep, special 4" x 8" Open Cell Nylon Pads, and durable nylon reinforced Shop Wipes. Simply spray OS2 over the entire area to be cleaned and wipe away excess silicone by encapsulating it in the Open Cell Pad. Flip the Pad over and wipe to remove any remaining sealant. It's as easy as that! No smearing! Kit includes: 20 Open Cell Pads, one can of OS2 Cleaner and 50 Shop Wipes. NP48 Replacement Open Cell Pads are packaged 50 per pack.

CAT. NO.	DESCRIPTION
CK1T2	Silicone Clean Up Kit (Cleaner, Pads, Wipes)
OS2	Silicone Cleaner/Surface Prep (10.3 Ounce Can)
NP48	4" x 8" Open Cell Pads (50/Pack)

CRL Liquid Nails Adhesive

- Bonds to All Common Building Materials
- 10 Minute Working Time
- Durable Bond that Stays Flexible

Liquid Nails is a fast-bonding, superior quality, waterproof, rubber-based interior grade adhesive recommended for bonding plywood, hardboard, furring strips and molding, paneling, brick veneer, drywall, cork board, and ceramic fixtures.

CAT. NO.	CONTENTS	QTY./CASE
LN601	10.5 Fl. Oz.	24

All cartridge sealants can be combined for quantity pricing.

CRL Optically Clear U.V. Adhesive

UV349 Adhesive

20162 Cleaner

Z7596 Curing Lamp

Optically Clear U.V. Adhesive is used to adhere glass-to-glass. Ideal for making all glass showcases, glass shelves, etc. Adhesive cures in seconds when irradiated by the Curing Lamp.

CAT. NO.	DESCRIPTION
UV349	U.V. Clear Adhesive - 1.69 Oz.
20162	Cleaner/Conditioner - 16 Fl. Oz.
Z7596	Curing Lamp and Goggles
Z100S	Bulb for Z7596 Lamp

CRL Smart Glue® 2-Part Epoxy Gel

NEW!

- No Measuring • No Mess or Cleanup
- Sets in Just Five Minutes

Smart Glue® Epoxy Gel in Single-Use Mixer Packs are the neat and easy way to work with epoxy adhesive. Sold in a single use package designed to hold, mix and dispense small, pre-measured doses of this epoxy gel, eliminating the need for messy measuring and mixing. Smart Glue® Mixer Packs are foolproof – just squeeze the epoxy through the burstable seal with a pencil and tear or cut off the tip to use. Each pack contains 3 grams of adhesive, enough for an average repair, and dries to a durable, flexible, waterproof, clear bond. Four Single-Use 3 gram disposable units per pack, total 12 grams per pack.

CAT. NO.	DESCRIPTION	PACKS/CTN.
60032	Smart Glue Epoxy Gel	24

CRL Loctite Plastix™ Advanced Plastic Bonder

- Guaranteed to Fix ABS, Acrylic, Formica, Plexiglas, Polyethylene, Polypropylene and Vinyl
- Tight Bonds in Less Than One Minute

Loctite Plastix Advanced Plastic Bonder repairs all types of plastics: ABS, acrylic, formica, melamine, plexiglas, polyethylene, polypropylene, styrene and vinyl. No guesswork required here, just follow the simple instructions for a quick, neat and easy repair in less than a minute! No mixing required. Plastix comes carded with .10 fluid ounces of activator, and .06 fluid ounces of bonder.

CAT. NO.	DESCRIPTION	CARDS/CTN.
82565	Plastix Bonder	6

Note: Store in a cool location (under 80°F).

CRL Weld-On Acrylic Adhesive and Applicator Bottle

- Very Fast Set on Acrylics

Weld-On Acrylic Adhesive is a water thin, very fast set, solvent type adhesive for acrylics. It also bonds other plastics such as styrene, butyrate, and polycarbonates to themselves. Does not bond to cross-linked acrylics. Our 1-1/4 ounce oval polyethylene squeeze-type applicator bottle has a 1-1/2" stainless steel needle. Ideal for precision cementing, solvent dispensing, and oiling.

Adhesive

Applicator

CAT. NO.	DESCRIPTION	SIZE
AA3	Acrylic Adhesive	4 Oz.
AAB4	Applicator Bottle	1-1/4 Oz.

CRL QuikSteel Epoxy Putty

- Dries Steel-Hard in 15 Minutes; Full Cure in 60 Minutes
- Easy to Mix and Use

QuikSteel Epoxy Putty is a steel-reinforced material that dries steel-hard in 15 minutes; fully cures in 60 minutes. QuikSteel permanently bonds to aluminum, brass, copper, steel, PVC, fiberglass, plastics, glass, ceramics, wood and more. It's easy to use. Cut off amount needed for repair and knead QuikSteel to one uniform color. QuikSteel can be drilled, tapped, machined, sanded and painted.

CAT. NO.	DESCRIPTION	CONTENTS
16002	QuikSteel Epoxy Putty	2 Oz.

CRL Transparent and Translucent Adhesive Tapes

- Bonds to Most Clean, Dry Surfaces Instantly
- Full Strength Attained in 72 Hours
- Widely Used by Frameless Shower Door Installers
- Replace Mechanical Fasteners in Many Applications

CAT. NO.	WIDTH	THICKNESS	LENGTH	DESCRIPTION
491014	1/4"	.040"	108 Ft.	Transparent, VHB™ Double-Sided
491012	1/2"	.040"	108 Ft.	Transparent, VHB™ Double-Sided
490514	1/4"	.020"	216 Ft.	Transparent, VHB™ Double-Sided
867238	3/8"	.006"	108 Ft.	Transparent, VHB™ Single-Sided
SDT51660	5/16"	.005"	180 Ft.	Translucent, Double-Sided

All transparent and translucent tapes can be combined for quantity pricing.

Transparent 3M™ VHB™ Double-Sided Adhesive Tape

Transparent 3M™ VHB™ (Very High Bond) Tape is a high strength double-sided adhesive. Available in 1/4" or 1/2" widths, this tape features instant bonding with full strength attained within 72 hours. You will find VHB™ Tape can be the clear replacement for mechanical fasteners in many instances.

Transparent 3M™ VHB™ Single-Sided Adhesive Tape

Transparent 3M™ VHB™ (Very High Bond) Tape is also available with adhesive on only one side. It is most commonly used as a cushion to protect against chipping in installations with glass-to-glass contact, such as frameless shower doors, or in glass display cases.

Translucent Double-Sided Adhesive Tape

Translucent double-sided adhesive tape is an economical alternative to higher priced Transparent Tapes. It's a good choice for adhering edge wipes and seals in frameless shower enclosures.

CRL Transparent Acrylic Very Hi-Bond Adhesive Tape

- Excellent for Use with Glass or Clear Polycarbonates, Seals and Wipes Used in Frameless Shower Installations
- Instant Pressure Sensitive Bonding
- Foldable, Moldable and Compressible
- Will Not Harden or Become Brittle with Age

CRL's Transparent Acrylic Very Hi-Bond Tape is used in adhesive applications involving glass or other clear materials, making it ideal for adhering clear polycarbonates, edge wipes and seals used in frameless shower installations. Other applications include auto trim attachment, window grids, signs, graphics, and construction use to replace mechanical fasteners and welds. This tape possesses a uniform high-tack acrylic adhesive on both surfaces, and will bond to most clean, dry, oil-free substrates. It is non-staining after aged contact, has a solid composition for clean cutting, and is flexible, moldable and compressible, so it can conform to intricate shapes.

- Water Clear

- Available in Two Widths

CAT. NO.	WIDTH	THICKNESS	LENGTH	ROLLS/CASE
AT04012	1/2"	.040"	108 FT.	24
AT0401236	1/2"	.040"	36 FT.	36
AT04014	1/4"	.040"	108 FT.	24
AT0401436	1/4"	.040"	36 FT.	36
AT02014	1/4"	.020"	216 FT.	24
AT0201436	1/4"	.020"	36 FT.	36

Sizes can be combined for quantity pricing.

CRL Translucent Acrylic Very Hi-Bond Adhesive Tape

- Instant Pressure Sensitive Bonding for a Variety of Manufacturing and Construction Uses
- Flexible, Foldable, Moldable and Compressible
- Solid Acrylic Core for Superior Strength
- Excellent Weather Resistance; Will Not Absorb Moisture

Our Translucent Acrylic Double-Sided Very Hi-Bond Adhesive Tape is designed for a variety of applications including skin-to-frame assemblies, furniture, appliances and wherever a waterproof bond in a wide-range of temperature conditions exist. CRL Very Hi-Bond Adhesive Tapes can be applied at 50˚F-100˚F (10˚C-38˚C), and will maintain their adhesion at sub-zero temperatures. It's solid acrylic core gives it superior strength, and allows for clean cuts. It is flexible, moldable and compressible, so you can conform it to intricate shapes. Shelf life is one year when properly stored.

- Translucent Appearance

- Available In Four Widths

CAT. NO.	WIDTH	THICKNESS	LENGTH	ROLLS/CASE
AT04512	1/2"	.040"	108 FT.	24
AT04534	3/4"	.040"	108 FT.	14
AT0451	1"	.040"	108 FT.	14
AT0452	2"	.040"	108 FT.	8

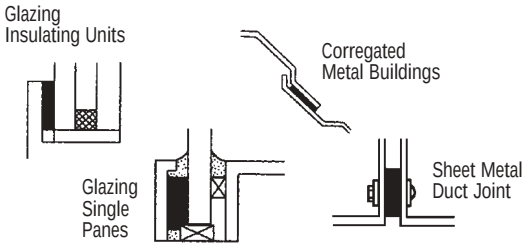
Sizes can be combined for quantity pricing.

CRL Tremco 440 II Butyl Architectural Tape

Tremco 440 II is a pre-formed butyl sealant in tape form. The 100% solids compound of butyl and polyisobutylene contains no solvents or other volatiles that could escape on exposure, causing shrinkage and sealant failure. Tremco 440 II forms a watertight seal to prevent water infiltration, and has superior weather resistance. Highly adhesive, it remains permanently elastic, even at low temperatures, and is adaptable to many different types of glazing systems. It is available in two colors: aluminum or bronze/black.

ALUMINUM CAT. NO.	BRONZE/BLACK CAT NO.	THICKNESS	WIDTH	FEET/ ROLL	ROLLS/ CASE
71009F1	71009H5	1/16"	1/4"	50	22
71049N1	71049Q1	1/16"	3/8"	50	20
71010W1	71010B1	1/16"	1/2"	50	20
71016U1	71016W1	1/8"	3/8"	25	20
71017F1	71017H1	1/8"	1/2"	25	20
71021P1	----------	1/8"	1"	25	10
71024R1	71024G1	3/16"	1/2"	25	20
710GMX1	----------	1/4"	1/4"	20	40
71029G1	71029D1	1/4"	1/2"	20	20

Sizes and colors can be combined for quantity pricing. Minimum order is case quantity.



CRL Tremco Pre-Shimmed Butyl Architectural Tape

Cross Section of Tape Showing Shim

- **Continuous Rubber Shim Results in Less "Squeeze-Out", and Helps Tape Keep a Neater Sight Line**
- **Meets the Requirements of AAMA 800-92 Specifications 804.3, 806.3 and 807.3**

Tremco Pre-Shimmed Architectural Tape is a preformed sealant of polyisobutylene-butyl with a built-in spacer of synthetic rubber. Use it for bedding and sealing lites of glass, steel or aluminum panels, porcelain and plastics.

The continuous rubber shim works to prevent sealant squeeze-out because it is resilient to pressure exerted by building and glass expansion or contraction. It also helps prevent glass breakage by eliminating pressure points created by improper shimming. The continuous shim eliminates the need for preshimming the lite before installing the tape. Tremco Pre-Shimmed Tape has good adhesion, heat resistance, sealant compatibility, and resistance to weathering. It can be used in conjunction with many glazing systems.

CAT. NO.	COLOR	THICKNESS OF TAPE	SHIM DIAMETER	WIDTH	FEET/ ROLL	ROLLS/ CASE
7242YA1	Black	.090"	1/16"	3/8"	50	32
7241XC1	Black	.150"	1/8"	3/8"	40	32
7241YP1	Black	.215"	3/16"	3/8"	25	32
7244SB1	Black	.280"	1/4"	3/8"	20	32

Sizes can be combined for quantity pricing. Minimum order 32 rolls.

CRL Is Your Full Line Tape Source

- **Construction, Industrial, Manufacturing, Glazing, and Automotive Uses**

• Acoustical • Adhesive Transfer • Aluminum Foil • Architectural • Automotive • Barrier • Butyl Autoglass • Carton Sealing • Caulking • Copper Foil • Cork and Rubber • Duct • Electrical • Filament • Flashing • Foam Mounting • Friction • Glazing • Lead Foil • Masking • Mirror Impact • Reflective • Sandblasting • Sealant • Shimmed • Shipping • Sponge Rubber • Strapping • Translucent • Transparent • Trim Securing • Very High Bond • Vinyl Foam • Weather Sealing • Windshield Dam • Many More

See our complete assortment of tape products in the CRL Big Red Master Catalog, or visit **www.crlaurence.com**.

CRL and Sprayway, An Alliance of Two Industry Leaders Bringing You the Best in Glass Cleaners

- CRL is Sprayway's Master Distributor to the Glass Industry
- CRL's Glass Cleaners are Manufactured Exclusively for Distribution Through the Glass Industry
- All Glass Cleaners are Now Available from CRL in Convenient Cases of Twelve, 19 Ounce Cans

NEW

NEW Comfort-Use Finger Pad Nozzle for S50, 1973 and 2000 Glass Cleaners

Four Powerful Glass Cleaners to Fit Every Need

- All Are Also Available With Your Logo or Private Label

CAT. NO. S50

- Ammonia Free
- Spray and Wipe Clean
- Fast Evaporation

CRL S50 is Sprayway's leading glass cleaner, and has the CRL logo on the same 19 oz. can that you are familiar with. It has a fast evaporation rate, which keeps it from leaving a film and adversely interacting with other materials.

CAT. NO. 1973

- A Long Time Favorite of the Glass Industry
- Low-Ammoniated

CRL 1973 Glass Cleaner, a long time favorite of CRL customers, is a low-ammoniated glass cleaner that is now packaged in a new, easier-to-handle 19 oz. can. The same effective cleaning agents and pleasant aroma remain, with the added feature of Sprayway's logo.

CAT. NO. 2000

- CRL's Newest Formula Has Added Ammonia for Maximum Strength

Our new Hi-Shine 2000 Higher Ammoniated Glass Cleaner is formulated to handle your toughest dirt and grime situations with ease. Each 19 oz. can features the CRL logo the glass industry has grown to trust.

CAT. NO. CRL18X

- Our Best All Purpose Glass Cleaner for Around the House
- Extra Strong Ammonia Free Formula for Really Tough Cleaning Jobs

Use extra strong, ammonia free CRL18X Cleaner on glass, mirror, porcelain, enamel surfaces, ceramic tile, aluminum, brass and chrome. Excellent for really tough cleaning problems around the house or on the job site. Large 19 oz. cans include the CRL and Sprayway names known throughout the industry for quality cleaning performance.

Glass Cleaner Starter Kit

- Unsure Which Glass Cleaner is the Best for You?
- Sample Them All with Our Glass Cleaner Starter Kit

Our Starter Kit lets you try four CRL Glass Cleaners. Contains one 19 ounce can of our S50, 1973, 2000 and CRL18X Glass Cleaners.

CAT. NO. 4CSK

CRL Logo Label and Private Label Aerosols

- You Can Now Get Any of the CRL-Sprayway Glass Cleaners and Other Quality Aerosol Products with Your Company's Name and Logo Right on the Can
- A Minimum Order of 35 Cases is All it Takes to Get Started

CRL Logo Label Program

- 35 Case Minimum Order (12 Cans Per Case)
- Choose from Nine of Our Most Popular Formations, Including S50, 1973 and 2000 Glass Cleaners
- Freight Paid to Any Location in the Continental U.S.

The CRL Logo Label Program uses our label templates with designated areas for your company's name or logo, address and product name. We offer the same fine quality glass cleaners and lubricants that you are accustomed to using. We can manufacture and ship your first order in approximately four weeks from the date your input is received at the packaging plant. Call CRL Customer Service at (800) 421-6144 for details and pricing for this unique service.

CRL Private Label Program

- 60 Case Minimum Order (12 Cans Per Case)
- Choose from Many of Our Fine Formulations, Including S50, 1973 and 2000 Glass Cleaners
- Freight Paid to Any Location in the Continental U.S.

CRL's Private Label Program lets you choose from one color silk screen labeled white cans, one or two color cut and stack paper labels, or three and four color roll-fed varnished paper labels. Design your labels within our guidelines for that custom look. Your aerosols will ship to you in oyster white custom stenciled boxes. First orders take approximately six weeks, and re-orders can ship within 10 to 15 business days.

CRL Bio-Clean Water Stain Remover

- **Effectively Removes Water and Mineral Stains, Rust, Tree Sap, Paint Overspray, Soap Scum and Mildew from Glass and Other Surfaces**
- **Works Great On: Shower Doors, Windows, Glass Surfaces, Tile and Fiberglass, Windshields, Chrome, Porcelain, Corian®, Anodized Brass and Aluminum, Stainless Steel and Hard Vinyl**

This professional strength cleaner is recommended for use by glazing contractors and professional window cleaning companies. It is successfully used in hospitals, nursing homes, manufacturing plants, hotels, supermarkets and other public facilities with difficult to clean surfaces. Apply CRL Bio-Clean to a surface with a dry cloth, sponge, brush or oscillating buffer. Press firmly to loosen stain with a rubbing action, then just rinse with water until residue free. Can be reapplied as needed until surface is clean.

CAT. NO.	CONTENTS
WSR1	16 Fl. Oz.

- **Removes Stage I Corrosion Quickly**

Stage I Corrosion is defined as glass with light corrosion, and little or no damage to the glass. Stage II Corrosion occurs when the deposits are no longer on the surface of the glass, but have started to break down the molecular structure of the glass, leaving an etched or white haze on the glass after the stain has been removed. CRL Water Stain Remover will not repair glass with Stage II Corrosion.

CRL Water Spot Remover

- **CRL Finally Solves the Problem of Water Spotting from Sprinklers, Hard Water Sources and Exposure to Acid Rain**
- **Available in Gallon and Quart Sizes**

CRL Water Spot Remover is specifically formulated for use by professional window cleaning contractors and glazing professionals. It is designed to remove any residue left on glass which may alter the optical clarity, and cannot be cleaned using standard methods. CRL Water Spot Remover will make clear again glass that has turned hazy due to caustic and corrosive air pollution, acid rain, auto exhaust, hard water deposits, corrosive cleaning materials, dust and dirt residues. It works by dissolving mineral deposits from the surface of the glass, and prevents their redeposit later. Because CRL Water Spot Remover is an acid-based product, it has the ability to dissolve deposits found in the rough pits and ridges of the glass surface, leaving it looking almost like new.

THIS PRODUCT IS FOR USE ONLY BY GLAZING PROFESSIONALS. IT IS NOT INTENDED OR RECOMMENDED FOR CONSUMER USE, FOR USE ON AUTOMOTIVE GLASS, OR FOR USE ON THE COATED SIDES OF CHEMICALLY-TREATED GLASS.

- **Removes Alkaline Residue, Chemical and Mineral Deposits from Uncoated Clear and Float Glass Surfaces (Typical Stage I Corrosion)**

Stage I Corrosion is defined as glass with light corrosion, and little or no damage to the glass. Stage II Corrosion occurs when the deposits are no longer on the surface of the glass, but have started to break down the molecular structure of the glass, leaving an etched or white haze on the glass after the stain has been removed. CRL Water Spot Remover will not repair glass with Stage II Corrosion.

CAT. NO.	CONTENTS
C2020	1 Gallon
C2030	1 Quart

CRL TPC Surface Protector

- **Transparent Polymer Coating Protects Glass and Many Other Surfaces**
- **Water, Soil and Stain Repellent**

CRL TPC Surface Protector will actually seal the pores of glass, porcelain, ceramic, plastics, polished metals, fiberglass and marble to make the surface water, soil and stain resistant. The clear coating guards against the adhesion and build-up of dirt, grime, mold, mildew, rust and mineral deposits. Environmentally friendly and non-toxic, CRL TPC Surface Protector permits the practice of preventive cleaning and maintenance, reducing costly cleaning, repairs and replacement. Simply spray on and polish off.

CAT. NO.	CONTENTS
TPC16	16 Fl. Oz.

CRL Anti-Fog Spray NEW

- **Eliminates Fog from Any Glass Surface**
- **Convenient and Easy to Use Spray Bottle**

CRL's Anti-Fog Spray is the perfect solution and cleaner to keep bathroom mirrors, auto glass, safety goggles and sunglasses fog free. The spray is effective until the glass or mirror surface needs to be cleaned again, at which time the Anti-Fog and Cleaner solution is reapplied. The easy to use spray bottle contains 8 fluid ounces (236 milliliters).

CAT. NO.	CONTENTS
ZSP1	8 Fl. Oz.

CRL Lint Free Glass Wipes

- New, Convenient Pop-Up Dispenser Box
- Strong, Four-Ply White Paper Wipes are Virtually Lint Free
- Reinforced Nylon Scrim in Both Directions So They Work Great Wet or Dry
- A Favorite of Insulating Glass Unit Fabricators

- Six Pop-Up Boxes in Each Case

CAT. NO. 1550

Extra-tough CRL 1550 Lint Free Glass Wipes bring the absorbing power you need in a lighter weight material that's reinforced with a nylon scrim for extra strength. The ripple texture makes them easy to hold during use, and provides just the right amount of surface area for cleaning solutions to do their work.

CRL 1550 Wipes have no adhesives or binders so they leave nothing behind except clean, lint free surfaces. Besides glass, they are ideal for most of your most demanding shop clean up tasks. Boxes have "issued to" and "date" fields to record usage.

CRL 1550 Lint Free Glass Wipes measure a big 16-1/2" by 9-3/4". Each case is packed with six pop-up boxes containing 150 wipes each for a total of 900 wipes per case.

CRL Lint Free Glass Wipes Dispenser Bracket

- Positions Pop-Up Boxes of 1550 Wipes Right Where You Need Them

Mount the K73900 Dispenser Bracket to walls or work benches for quick and easy pull-down dispensing of CRL Lint Free Glass Wipes. Mounting screws, wall anchors and double face tape patches are included. After attaching the bracket, simply press the perforated edge of the 1550 Wipe box against the two forks to mount.

CAT. NO. K73900

CRL Sprayway Pre-Moistened Glass Cleaner Wipes

NEW

- The Easiest and Quickest Way to Clean Glass
- Uses the Same Great Formula as Our Popular S50 Glass Cleaner
- Lint Free Wipes are Always Fresh and Ready to Use

Once you've tried the convenience of CRL Sprayway Pre-Moistened Glass Cleaner Wipes you'll want to keep them handy in your car, truck and shop. Just pull out the 12" by 12" pre-moistened wipe loaded with ammonia free, perfume grade alcohol cleaning agents and you are ready to clean the toughest glass grime. Removes dust, dirt, oil and grease smudges, water spots, fingerprints and smoke film from any glass surface, and leaves it with a dazzling shine. With its fast evaporation rate, it won't leave a film or adversely interact with other materials. Also great for cleaning and adding a bright luster to mirrors, light fixtures, windshields, display cases, shower doors, glass tables, computer screens, chrome and tile.

CAT. NO.	DESCRIPTION	WIPES/TUB
SW95	Pre-Moistened Glass Cleaner Wipes	70

CRL Kimberly-Clark® Naturally Tuff® Orange Hand Cleaner with Grit

NEW

- Works Effectively Even Without Water
- Grit Formula Removes Tough Grime

CRL Kimberly-Clark® Naturally Tuff® Orange Hand Cleaner with Grit is designed to remove tougher hand soil without water. Contains polymer bead "grit" for scrubbing without the abrasion associated with other grits using pumice or walnut shells. Each rugged one gallon container comes with it's own dispensing pump.

CAT. NO.	CONTENTS
K91035GL	One Gallon

CRL Kimberly-Clark® Sani-Tuff® Waterless Hand Wipes

- Grit Cleaning Power Without the Abrasion
- Fast Cleaning

NEW

On the job, on the go, however your hands get grimy, we've got the way

CAT. NO. K91341

CRL Kimberly-Clark® Wypall® Workhorse® X80 Shop Towels

- High Tech Performance at a Value Price
- Made with Hydroknit® Fast Absorbing Material

CRL Kimberly-Clark® Wypall® Workhorse® X80 Shop Towels are engineered to feel like cloth and work even better. They are made with patented Hydroknit® Fast Absorbing Material that has outstanding tear resistance and exceptionally high performance on tough tasks. Absorbs water and oil faster pound for pound than laundered shop towels, with no holes, strings, metal chips or residue to worry about. Sold in cases containing five pop-up boxes of 80 white towels for convenient dispensing. Minimum order is one case. Towels measure 9-1/8" by 16-3/4".

CAT. NO. K41048

CRL Kimberly-Clark® Wypall® Workhorse® X70 Manufactured Rags

- High Tech Performance at a Value Price
- Made with Hydroknit® Fast Absorbing Material

These big rolls of CRL Kimberly-Clark® Wypall® Workhorse® X70 Manufactured Rags will give you long lasting performance for extended usage and minimal waste. These rags have what it takes to tackle those heavy-duty industrial jobs usually handled by cloth rags. Packed three rolls per case. Each roll contains 275 10" by 13-3/8" manufactured rags. Minimum order is one case.

The K09025 Center Pull Dispenser is available for fast delivery of Workhorse® X70 Manufactured Rags, and can be mounted permanently or temporarily with the included hardware.

CAT. NO.	DESCRIPTION	QTY./CASE
K41702	Workhorse® X70 Manufactured Rags	3 Rolls
K09025	Center Pull Dispenser	1

CRL A-Tork® Maxi Wipes

- Super Absorbent 2-Ply Rolls or Sheets Will Not Deteriorate in Water

CRL A-Tork® Maxi Wipes are the latest addition to the CRL Professional Glass Cleaning System. These 100% cellulose wipes measure 15-1/8" by 12-1/2", and are able to absorb up to four times their own weight in liquids, requiring fewer wipes per job. They will not deteriorate in water, solvent or detergent, making them ideal for use with CRL Professional Water Spot Remover and other cleaners. If you're making insulating glass units, they'll leave your glass lint and streak-free every time. The big 735 sheet roll can be kept clean and contamination-free by using the sealed, consumption control dispenser. The handy 110 sheet pack is the perfect size to carry in your tool box, so you're never without a clean wipe wherever you may be.

CAT. NO.	DESCRIPTION	QTY./CASE
0101311	Single Sheet Maxi-Wipes	2 Rolls
0101353	Center Pull Dispenser	1 Each

CAT. NO.	DESCRIPTION	SHEETS/PKG.
0101380	Single Sheet Maxi-Wipes	110

CRL Wipes in a Bucket

- **Quickly Removes Urethane, Tough Soils, Adhesives, Grease, Etc.**
- **No Rinsing, No Drying, No Residue**

CRL99W Wipes in a Bucket are a patented, waterless hand cleaning system combining both a high quality liquid hand cleaner formula and a heavy-duty, non-scratching, abrasive hand-cleaning towel. Use Wipes in a Bucket to clean up spills, drips and spatters from most non-porous surfaces like shop tools, equipment, counter tops and more. Wipes measure 10-1/2" by 12-1/4".

CAT. NO.	DESCRIPTION
CRL99W	Bucket of 72 Wipes
CRL99WB	Optional Wall Mount Bracket

CRL Disposable Nitrile Gloves

- **Provide Resistance Against Solvents and Other Chemicals**
- **Powder Free**

100% Nitrile Gloves provide better protection against solvents, and resist a broad range of chemicals where more splash protection is required than you can get with latex gloves. Nitrile compound gives greater puncture resistance than comparable natural rubber and vinyl disposable gloves, and reduces hand pressure and fatigue caused by elastomeric stress (that means they feel good on your hands).

CAT. NO.	QTY./BOX
7005NG	100

Minimum Order: 1 Box.

CRL Novus Plastic Polishes

- **No. 2 for Fine Scratches**
- **No. 3 for Heavy Scratches**

CRL offers two new types of plastic polish in convenient 8 ounce bottles. Novus No. 2 removes fine scratches, haziness and abrasion from most plastic surfaces. It is not just a surface cover up, but will restore and protect. Novus No. 3 removes heavy scratches and abrasions from most acrylic surfaces. Both polishes contain a light abrasive, and are not for use on eyeglasses, polycarbonates or coated plastics. Novus No. 2 should be used as a follow up to Novus No. 3 for best results.

CAT. NO.	DESCRIPTION	CONTENTS
PN7030	Novus Polish No. 2 (Fine)	8 Fl. Oz.
PN7080	Novus Polish No. 3 (Heavy)	8 Fl. Oz.

CRL Autosol® Shine Metal Cleaner

- **Cleans and Conditions in a Single Treatment**
- **Produces a Brilliant Gloss**

CRL Autosol® Shine cleans, restores and polishes all metal surfaces. Protects against corrosion and tarnishing. Ideal for all chrome, aluminum, stainless steel, brass, copper, gold, pewter, platinum, silver and tin as well as fiberglass, ceramic, and certain painted surfaces. Mild abrasives help to remove built-up tarnish, oxidation and even rust, leaving behind a protective coating which helps to condition the metal and protect against corrosion while providing a longer lasting shine. Contains an extremely low ammonia content. Ideal for cleaning and maintaining CRL Shower Door Hardware, Door Rails and Transaction Hardware.

CAT. NO.	CONTENTS
1188AS	2.5 Fl. Oz.

CRL Motsenbocker's Lift Off Removers

- **Stain Removal Made Easy with Three Specialized Formulas for the Toughest Stains**
- **Excellent Results on the Job, in the Shop, or in the Home**

Lift Off 2 for Grease, Oils and Adhesives

Lift Off 2 is a petroleum-based, commercially proven formula that effectively removes such items as adhesives, grease, tar, motor oil, gum, sap and oil-based foods. Pistol grip bottles are attractive for over-the-counter sales.

CAT. NO.	CONTENTS
LF2	22 Fl. Oz.

All Lift Off Removers can be combined for quantity pricing

Lift Off 3 for Pen, Ink and Marker Graffiti

Lift Off 3 is a biodegradable, water-based product designed to remove most inks including: permanent markers, indelible inks, ball point pens, hiliters, stamp pad and fountain inks. Pistol grip bottles are attractive for over-the-counter sales.

CAT. NO.	CONTENTS
LF3	22 Fl. Oz.

All Lift Off Removers can be combined for quantity pricing

Lift Off 4 for Spray Paint Graffiti

Lift Off 4 is the first biodegradable, water-based spray paint graffiti remover. It actually breaks the molecular bond between the paint and hard, soft or porous surfaces without damaging them. Pistol grip bottles are attractive for over-the-counter sales.

CAT. NO.	CONTENTS
LF4	22 Fl. Oz.

All Lift Off Removers can be combined for quantity pricing

Popular Aerosol Products from CRL and Sprayway

CRL Plastic Cleaner

- Formulated to be Non-Streaking, Anti-Fog and Anti-Static on All Plastics
- Fast Drying and Economical to Use
- Apply on Acrylic, Plexiglass, Polycarbonates, and Safety Glazing Panels
- Wipes Away Without Streaking

CAT. NO.	CONTENTS	QTY./CASE
CRL848	19 Oz.	12

Minimum Order is One Can.

CRL Heavy-Duty Glass and All Purpose Cleaner

- Extra Strong Ammonia Free Formula for Really Tough Cleaning Jobs
- Works Great on Glass, Mirrors, Porcelain, Enamel Surfaces, Ceramic Tile, Aluminum, Brass and Chrome
- Use Around the House or on the Job Site

CAT. NO.	CONTENTS	QTY./CASE
CRL18X	19 Oz.	12

Minimum Order is One Case.

CRL Mirror Cleaner and Polish

- Strong Working Foaming Action Makes Mirror and Glass Sparkle
- Ammonia Free Formula
- No Streaking or Smearing
- Also Good for Cleaning Chrome, Tile, Porcelain, Formica, Appliance Surfaces and Stainless Steel

CAT. NO.	CONTENTS	QTY./CASE
1982	15 Oz.	12

Minimum Order is One Case.

Sprayway Crazy Clean All Purpose Cleaner

- All Purpose Cleaner that Cleans and Deodorizes
- Great for All Washable, Painted Surfaces, Window Sills, Venetian Blinds, Porcelain and Tile
- Removes Dirty Hand Prints from Walls and Doors, Scuff Marks on Floors, Crayon and Grease Spots, Soot and Smoke Film

CAT. NO.	CONTENTS	QTY./CASE
SW31	19 Oz.	12

Minimum Order is One Case.

Sprayway Stainless Steel Polish and Cleaner

- Cleans, Polishes and Protects
- Resists Finger Prints, Grease and Water Spatter
- Use on All Types of Stainless Steel Window Frames, Doors, Trim, Corridor Guards, Kick Plates, Dishwashers, Refrigerators, Freezers, Sterilizers, Etc.
- Also Excellent for Formica, Porcelain, Ceramic Tile and Chrome

CAT. NO.	CONTENTS	QTY./CASE
SW841	15 Oz.	12

Minimum Order is One Can.

Sprayway Auto Care Instant Shine

- Just Spray On and Buff to Get a Beautifully Renewed Surface
- Great for Weatherstrips, Body Moldings and Other Rubber and Plastic Items
- Use It on Tires, Vinyl Interiors, Bumper Guards, Door Jambs, Engine Compartments and Even Those Hard to Reach Air Conditioner Ducts

CAT. NO.	CONTENTS	QTY./CASE
SW936	11 Oz.	12

Minimum Order is One Can.

Popular Aerosol Products from CRL and Sprayway

CRL Silicone Spray

- Our Best Selling Lube
- Waterproofs, Lubricates and Prolongs Life of Rubber, Leather and Electrical Wiring
- An Effective Squeak Squelcher
- Non-Conducting, Non-Gumming Formula

CAT. NO.	CONTENTS	QTY./CASE
PR02	10.75 Oz.	12

Minimum Order is One Can.

CRL Metal Lube

- Extremely Versatile Lube that Cleans as it Lubricates
- Preserves Metal Finish from Rust and Corrosion
- Frees Sticky Hinges, Rollers, Guides and Other Tool Parts

CAT. NO.	CONTENTS	QTY./CASE
1200	11 Oz.	12

Minimum Order is One Can.

CRL White Grease Lube

- Heavy-Bodied Spray Lube Clings to Sprayed Areas Giving Good Lubricating Performance
- Frees Metal Moving Parts in Locks, Gears, Chains, Cables, Pulleys and More

CAT. NO.	CONTENTS	QTY./CASE
CRL715	11 Oz.	12

Minimum Order is One Can.

CRL Spray Penetrant and Corrosion Preventer

- Penetrates Fast to Unstick Frozen Nuts, Bolts and Machine Parts
- Lubricates Parts and Displaces Moisture
- An Excellent Corrosion Preventative

CAT. NO.	CONTENTS	QTY./CASE
CRL960	13 Oz.	12

Minimum Order is One Can.

CRL Quick Release Agent

- Solvent Blend for Quick Release of Most Adhesives
- Softens Butyl and Other Windshield Sealers
- Makes Removal of Windshield Glass, Weatherstrip, and Carpeting Easier

CAT. NO.	CONTENTS	QTY./CASE
CRL958	14 Oz.	12

Minimum Order is One Can.

Sprayway Dry Lubricant and Release Agent

- Lubricates Dry Without Picking Up Debris
- Excellent for Sliders, Window Channels, Car Seat Adjustment Mechanisms and More
- Acts as a Release Agent for Plastic Molding

CAT. NO.	CONTENTS	QTY./CASE
SW77	12 Oz.	12

Minimum Order is One Can.

CRL Cleanup Dry Cleaner

- Removes Sealants, Adhesives, Uncured Urethane, Fresh Paint and Grease from Carpets, Upholstery, Clothing, Painted Surfaces, Metals and More
- Spray On, Wipe Off Formula Leaves No Residue

CAT. NO.	CONTENTS	QTY./CASE
S732	20 Oz.	12

Minimum Order is One Can.

Sprayway Solvent Cleaner and De-Greaser

- Excellent Spray Cleaner for Grease, Tar, Crayon, Adhesive Marks, Fresh Paint, Lipstick and Ink
- Can Be Used on Electrical Motors
- Also Excellent for Removing Spots from Fabrics, Rugs and Clothing

CAT. NO.	CONTENTS	QTY./CASE
SWC60	16 Oz.	12

Minimum Order is One Can.

Popular Aerosol Products from CRL and Sprayway

CRL Polishing Oil

- Spray On Abrasive Belts and Discs for Faster, Brighter Polishing
- Promotes Longer Belt and Disc Life Because it Helps to Reduce "Loading"
- Improves Finish Edges on All Metals and Glass

CAT. NO.	CONTENTS	QTY./CASE
CRL920	11 Oz.	12

Minimum Order is One Can.

CRL Aerosol Mirror Edge Sealant

- Sprays On Clear to Seal Mirror Edges After Sanding and Beveling
- Easy to Use Aerosol Sealant Prevents Cut Mirror Edges from Turning Black as They React to Moisture

CAT. NO.	CONTENTS	QTY./CASE
S209	10.5 Oz.	12

Minimum Order is One Can.

CRL Spray Adhesive

- Quick Tack and Water Resistant Industrial Strength Formula for Permanent or Temporary Bonds to Cardboard, Paper, Glass, Cloth, Metal, Plastic, Foam Rubber and Wood

CAT. NO.	CONTENTS	QTY./CASE
CRL66	11 Oz.	12

Minimum Order is One Can.

Sprayway Multi-Purpose Spray Adhesive

- Heavier-Bodied Industrial Grade Spray Adhesive
- Makes Permanent or Temporary Bonds on a Variety of Materials
- High Coverage and Repositionable

CAT. NO.	CONTENTS	QTY./CASE
SW88	14 Oz.	12

Minimum Order is One Can.

CRL Freeze-It Spray

- Freeze Glass to Run Scored Circles in Glass with No Flares
- Environmentally Safe Propellant

CAT. NO.	CONTENTS	QTY./CASE
FNB8	7 Oz.	12

Minimum Order is One Can.

Sprayway Clean Jet 100 Non-Flammable Duster

- Strong Air Blasts for Non-Moisture Cleaning of Parts and Equipment
- Leaves No Residue and is Non-Flammable
- Excellent Way to Clean Keyboards

CAT. NO.	CONTENTS	QTY./CASE
SW805	10 Oz.	12

Minimum Order is One Can.

Sprayway Fast Drying Vinyl Application Spray

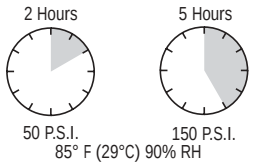
- Wet Application Fluid for Pressure Sensitive Vinyl
- Eliminates Bubbles and Wrinkles, and Allows Repositioning
- Ideal for Cold or High Humidity Conditions

CAT. NO.	CONTENTS	QTY./CASE
707	17 Oz.	12

Minimum Order is One Can.

CRL POWR 600 Series High Viscosity Urethane Adhesive

- **Meets or Exceeds U.S. Federal Motor Vehicle Safety Standards 208, 212, and 216**
- **Fast Curing Adhesive at a Great Price**
- **LYNX Approved**



85° F (29°C) 90% RH

- **V-Cut Nozzles Included with Cartridges**

MEETS OR EXCEEDS OEM AND FMVSS 212 & 216 SPECIFICATIONS

CRL High Viscosity POWR 600 Series Urethane is a fast curing adhesive that passes or exceeds U.S. FMVSS 208, 212 and 216. Fast curing and high viscosity are features you normally find in higher priced urethanes, but CRL offers these same features in our competitively priced PWR600HV. Available in metal cartridges with screw-on nozzles, or sausage packs with bulk gun nozzles.

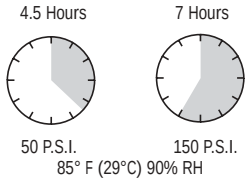
Our new sausage packs provide enough material to complete 95% of the windshields in today's vehicles using a single pack, and they cost less per ounce to use than cartridges. Easy to gun using standard sausage pack caulking guns. Nozzles are 25% larger than standard cartridge nozzles. Completely used sausages are more easily disposed of than aluminum cartridges.

CAT. NO.	CONTENTS	QTY./CASE
PWR600HV	10.5 Fl. Oz. Cartridge	24
PWR615HV	15.2 Fl. Oz. Sausage	24

All automotive sealants can be combined for quantity pricing.

CRL POWR 600 Series Medium Viscosity Urethane Adhesive

- **Meets or Exceeds U.S. Federal Motor Vehicle Safety Standards 208, 212, and 216**
- **Value Priced Quick Curing Adhesive**
- **LYNX Approved**



85° F (29°C) 90% RH

- **Screw-On Nozzles Included with Cartridges**

MEETS OR EXCEEDS OEM AND FMVSS 212 & 216 SPECIFICATIONS

CRL Medium Viscosity POWR 600 Series Urethane Adhesive passes or exceeds U.S. FMVSS 208, 212 and 216. POWR Urethane guns smoothly, is non-sagging, and provides a sure bond. PWR600 is value priced for most competitive markets. Available in metal cartridges with screw-on nozzles, or sausage packs with bulk gun nozzles.

Our new sausage packs provide enough material to complete 95% of the windshields in today's vehicles using a single pack, and they cost less per ounce to use than cartridges. Easy to gun using standard sausage pack caulking guns. Nozzles are 25% larger than standard cartridge nozzles. Completely used sausages are more easily disposed of than aluminum cartridges.

CAT. NO.	CONTENTS	QTY./CASE
PWR600	10.5 Fl. Oz. Cartridge	24
PWR615	15.2 Fl. Oz. Sausage	24

All automotive sealants can be combined for quantity pricing.

CRL Glass and Pinchweld Primer for POWR 600 and 700 Series Urethane

- **Pinchweld/Glass Primer Required for a Secure Bond**

CRL POWR Urethane Primer should be used on bare pinchweld metal and the windshield after the glass has been prepared with PWR22 POWR Cleaner or PWR4GC POWR Glass Conditioner. As always, use the Primer only on bare metal scratches or rust areas that have been properly repaired prior to priming. For EPDM/PVC applications, see PWR12P Primer below.

CAT. NO.	CONTENTS	QTY./CASE
PWR4P	4 Fl. Oz.	6

Primer and Glass Conditioner can be combined for quantity pricing.

CRL EPDM/PVC Primer for POWR 600 and 700 Series Urethane

- **Formulated for Use with EPDM or PVC Moldings**

POWR EPDM/PVC Primer is specially formulated to promote good adhesion of auto glass urethanes to encapsulated or bonded moldings made from Ethylene Propylene Diene Terpolymer (EPDM) or Polyvinyl Chloride (PVC). PWR12P primes these moldings to make them part of the bonding area for a secure seal, and is compatible for use with POWR 600 and 700 Series Urethanes.

CAT. NO.	CONTENTS	QTY./CASE
PWR12P	4 Fl. Oz.	6

Primer and Glass Conditioner can be combined for quantity pricing.

CRL Glass Conditioner for POWR 600 and 700 Series Urethane

- **Cleans, Conditions and Prepares Glass for Primer**

Proper cleaning of the glass is a required step in the linking of the glass frit to the urethane. CRL POWR Urethane Glass Conditioner prepares the bonding area of the windshield by cleaning any contaminates from the area, and preparing the glass frit for priming with PWR4P Primer.

CAT. NO.	CONTENTS	QTY./CASE
PWR4GC	4 Fl. Oz.	6

Primer and Glass Conditioner can be combined for quantity pricing.

CRL POWR Cleaner

- **Formulated for Use with All Auto Glass Urethanes**
- **Properly Cleans Glass for Application of Urethane Primer and Adhesive**
- **Faster and Less Expensive Than Brush-On Conditioners**

CRL POWR Cleaner is an aerosol glass cleaner especially formulated to properly clean auto glass for the application of urethane adhesives and primers. Use it to clean the entire windshield, especially around the perimeter where you would normally use a brush-on Glass Conditioner. Lab tested for superior cleaning, it's compatible with all CRL Primers. POWR Cleaner is faster and less expensive per use, so you save both time and money while you prepare the glass for a maximum bond to the urethane. Large 19 ounce cans are packed 12 per case.

YOU'VE GOT TO TRY IT!

CAT. NO.	CONTENTS	QTY./CASE
PWR22	19 Oz.	12 Cans

Can be combined with CRL Glass Cleaners for quantity pricing.

CRL Wipes in a Bucket

- **Improved Formula Cleans Up Urethane Better Than Ever**

These quick-working, pre-moistened wipes have a safe-for-your-hands formula that cleans up urethane and other hard to remove soils better that ever. Large 10-1/2" by 12-1/4" wipes dispense easily from their own pop-up container. Optional Wall Bracket keeps wipes handy, and frees-up space on your work bench.

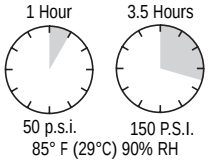
CAT.NO. CRL99WB
Wall Bracket
(Wipes must be ordered separately)

CAT. NO.	WIPES/BUCKET	QTY./CASE
CRL99W	72	6

CRL POWR 700 Series High Modulus/Low Conductive Urethane Adhesive

NEW

- **Required on Most Auto Glass with Embedded Antennas, Most Aluminum Bodied Vehicles, or Vehicles Which Feature High Modulus Glass Retention Systems**
- **LYNX Approved**



CRL PWR750 is specifically formulated for vehicles with special adhesive requirements. High Modulus is a rigidity specification for vehicles incorporating the glass as a body-stiffening device. PWR750 provides the extra strength and resistance needed to reduce torsional twisting for improved handling and driving stability.

There are two primary reasons low conductive urethane is used: vehicles with aluminum bodies need PWR750 to prevent galvanic corrosion. In the presence of an electrolyte and direct contact between aluminum and carbon black found in other adhesives, heavy galvanic corrosion is provoked; auto glass with embedded radio, cellular phone or GPS antennas should be installed with PWR750 to help prevent signal loss.

- **V-Cut Nozzles Included**

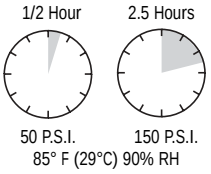
CAT. NO.	CONTENTS	QTY./CASE
PWR750	10.5 Fl. Oz. Cartridge	12

All automotive sealants can be combined for quantity pricing.

CRL POWR 700 Series Heated Urethane Adhesive

NEW

- **Heat Accelerated Curing Provides Fast, Safe Drive Away Times**
- **Meets U.S. Federal Motor Vehicle Safety Standards 212 and 216 in 1/2 Hour**
- **LYNX Approved**



CRL PWR700 is specially formulated as a safe, fast alternative to room temperature applied one-component urethanes. CRL PWR700 Heated Urethane accelerates the curing of the material to provide you with fast, safe driving release times for customers who demand their vehicle back quickly. PWR700 meets or exceeds FMVSS 212 and 216 in approximately 30 minutes. Recommended for use with our Urethane Heater Ovens (below) for quick heating.

- **V-Cut Nozzles Included**

CAT. NO.	CONTENTS	QTY./CASE
PWR700	10.5 Fl. Oz. Cartridge	12

All automotive sealants can be combined for quantity pricing.

CRL Urethane Heater Ovens

NEW

- **Preheats Urethane to Desired Working Temperature in One Hour**
- **Available in 120V AC or 12V DC Models**

- **One Hour Heat Cycle**
- **Two Cartridge Capacity**

This CRL Two Cartridge Urethane Oven is designed to warm CRL POWR Heated Urethane to the ideal application temperature of 185° F (85°C) within one hour. The two-hole design allows you to heat a sufficient amount of material for a single windshield replacement.

CAT. NO.	DESCRIPTION
E9006	120V AC Oven
E9007	12V DC Oven

CRL POWR Primerless 300 Series High Viscosity Urethane Adhesive

NEW

- Primerless-to-Glass
- Accelerated Cure

- Wide Nozzles Included

CRL POWR 300 Series High Viscosity Urethane is a primerless-to-glass high quality adhesive. This new formulation produces moisture as the byproduct of the curing process, thus accelerating the curing process. The new wide nozzle cartridge provides easy gunning, and the formula features an improved decking support viscosity. Meets or exceeds the requirements of U.S. Federal Motor Vehicle Safety Standards 208, 212, 216 and OEM specifications.

CAT. NO.	CONTENTS	QTY./CASE
PP301HV	10.5 Fl. Oz. Cartridge	24

All automotive sealants can be combined for quantity pricing.

CRL POWR Primerless 300 Series Medium Viscosity Urethane Adhesive

NEW

- Primerless-to-Glass
- Accelerated Cure

- Wide Nozzles Included

CRL POWR 300 Series Medium Viscosity Urethane is a primerless-to-glass high quality adhesive. This new formulation produces moisture as the byproduct of the curing process, which accelerates the curing process. This viscosity is great for back filling gasket set glass or, if used with foam sound tapes, saves the cost of using a high viscosity product. The new wide nozzle cartridge provides easy gunning. Meets or exceeds the requirements of U.S. Federal Motor Vehicle Safety Standards 208, 212, 216 and OEM specifications.

CAT. NO.	CONTENTS	QTY./CASE
PP302MV	10.5 Fl. Oz. Cartridge	24

All automotive sealants can be combined for quantity pricing.

CRL POWR Primerless 300 Series High Modulus/Low Conductive Urethane Adhesive

NEW

- Primerless-to-Glass
- Accelerated Cure

- Wide Nozzles Included

CRL POWR 300 Series High Modulus/Low Conductive Urethane is a primerless-to-glass high quality adhesive. Most European and some domestic vehicles now require specialized urethanes, and this product will provide you with the specifications that are needed for these applications. The High Modulus aspect of the formula stiffens the body for improved stability. The Low Conductivity aspect of the formula is required for aluminum bodied vehicles, and for glass with embedded electronic devices. This new formulation produces moisture as the byproduct of the curing process, which accelerates the curing process. The new wide nozzle cartridge provides easy gunning. Meets or exceeds the requirements of U.S. Federal Motor Vehicle Safety Standards 208, 212, 216 and OEM specifications.

CAT. NO.	CONTENTS	QTY./CASE
PP303HL	10.5 Fl. Oz. Cartridge	24

All automotive sealants can be combined for quantity pricing.

CRL POWR 300 Series Pinchweld Primer

To improve adhesion to repaired rust areas and repainted pinchwelds, or to touch up bare metal scratches, use our PP3MP Pinchweld Primer.

CAT. NO.	CONTENTS	QTY./CASE
PP3MP	3.8 Fl. Oz. (100 ml)	6

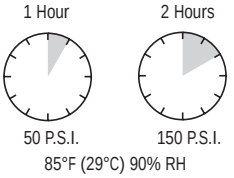
CRL POWR 300 Series Primer and UV Blocker

Use our PP3UV Primer and UV Blocker if the glass does not have a black frit to protect against UV rays. Also promotes adhesion if bonding to EPDM/PVC moldings.

CAT. NO.	CONTENTS	QTY./CASE
PP3UV	3.8 Fl. Oz. (100 ml)	6

CRL Titan T2000HV Speed and Support Urethane Adhesive

- High Viscosity Formula
- No Dam Tape Required



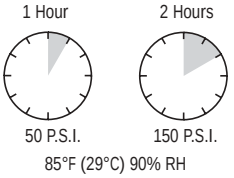
CRL T2000HV is a high viscosity, fast curing, one-part urethane adhesive designed to support auto glass without the use of dam tape. T2000HV meets or exceeds U.S. FMVSS 208, 212 and 216. To ensure manufacturer's standards are met, GP60 Glass Primer and W1P40 Pinchweld Primer must be used as directed.

CAT. NO.	CONTENTS	QTY./CASE
T2000HV	10.5 Fl. Oz. Cartridge	12

Minimum order is 12 cartridges. Must be ordered in increments of 12.
All automotive sealants can be combined for quantity pricing.

CRL Titan T1000 Fast Cure Urethane Adhesive

- Quick Strength Buildup, Even in Colder Temperatures



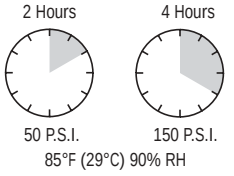
T1000 has the quickest strength buildup of any one-part Titan Urethane available. Its unique balance of tensile, shear and elongation strength provides excellent buildup, even in colder temperatures. Meets or exceeds U.S. FMVSS 208, 212 and 216. In order to meet manufacturer's standards, GP60 Glass Primer and W1P40 Pinchweld Primer must be used as directed.

CAT. NO.	CONTENTS	QTY./CASE
T1000	10.5 Fl. Oz. Cartridge	12

Minimum order is 12 cartridges. Must be ordered in increments of 12.
All automotive sealants can be combined for quantity pricing.

CRL Titan T660 Fast Cure Urethane Adhesive

- High Viscosity
- Sag Resistant
- No Dam Tape Required



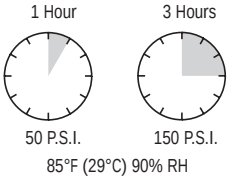
T660 is a high viscosity, one-part urethane adhesive developed to be used without the aid of dam tape. The heavy body formula is sag resistant, and maintains any bead shape. It delivers fast curing, high psi strength, and excellent adhesion to urethane, metal and glass. Meets or exceeds U.S. FMVSS 208, 212 and 216. In order to meet manufacturer's standards you must use GP60 Glass Primer and W1P40 Pinchweld Primer as directed.

CAT. NO.	CONTENTS	QTY./CASE
T660	10.5 Fl. Oz. Cartridge	12

Minimum order is 12 cartridges. Must be ordered in increments of 12.
All automotive sealants can be combined for quantity pricing.

CRL Titan T380 Quick Curing Urethane Adhesive

- Excellent Bond
- Easy Gunning



CRL Titan T380 provides a safe, strong bond, and is designed for windshield and backlite installations. It is easy to gun without sagging, and can be water tested immediately. Meets or exceeds U.S. FMVSS 208, 212 and 216. In order to ensure the manufacturer's standards are met, GP60 Glass Primer and W1P40 Pinchweld Primer must be used as directed.

CAT. NO.	CONTENTS	QTY./CASE
T380	10.5 Fl. Oz. Cartridge	12

Minimum order is 12 cartridges. Must be ordered in increments of 12.
All automotive sealants can be combined for quantity pricing.

CRL Titan 700HV Auto Glass Replacement Adhesive

1/2 Hour

- High Viscosity Two-Part Adhesive
- Quick Drive Away Time
- Solvent-Free

CRL T700HV is a unique, solvent-free, two-part adhesive (moisture is not required for cure) in a non-hazardous formula designed for auto glass installations without the use of supporting dam tape. T700HV exceeds OEM requirements to offer secure installations for vehicles equipped with air bags. T700HV can be used for all industry standard installations. To ensure manufacturer's standards are met, W1P40 and T603A Primers must be used as directed. Mixer Nozzles and Nozzle Retaining Nuts are sold separately. CRL T700HV is dispensed using the PDAG Dual Pneumatic Applicator Gun, which must be ordered separately.

CAT. NO.	DESCRIPTION	QTY./CASE
T700HV*	Dual Cartridge of Adhesive	10
T1218T	Mixer Nozzle for Cartridge	1
T904N	Retaining Nut to Hold Nozzle	1
PDAG	Pneumatic Dual Applicator Gun	1

* All automotive sealants can be combined for quantity pricing.

CRL W1P40 Pinchweld Primer

- For Use with All Titan Adhesives

A one-part, fast drying primer for improving adhesion of Titan Adhesives to metal surfaces. Use to touch up bare metal scratches, or for preparing areas that have been repaired and repainted.

CAT. NO.	CONTENTS	QTY./CASE
W1P40	6 Fl. Oz.	6

CRL T603A Glass Primer

- For Use with Titan T700HV Adhesive

One-part, water based primer specially formulated to work with Titan T700HV Two-Part Auto Glass Adhesive. Improves adhesion to glass and ceramic frit.

CAT. NO.	CONTENTS	QTY./CASE
T603A	2 Fl. Oz.	12

CRL GP60 Glass Cleaner

- For Use with All Titan Adhesives
- Also Acts as a EPDM and PVC Primer for Titan Adhesives

One-part, fast drying glass conditioner for enhanced bond to glass and ceramic frit. Cleans and conditions the surface prior to the application of Titan Adhesives. Not required for use with T700HV.

CAT. NO.	CONTENTS	QTY./CASE
GP60	6 Fl. Oz.	6

CRL Mirror Hang Tags

- Provides Critical Information for Vehicle Owner
- The Professional Finish Touch

CRL Mirror Hang Tags give your windshield replacement customer important information related to their new windshield. Proper care after the installation prevents call backs for leaks and dissatisfied customers. This inexpensive product produces good customer relations and shows you care, even after your customer drives off.

One side of the tag cautions the customer on ways to prevent problems associated with the replacement, while the other side offers your customer information on CRL Truck Sliders and Glass Cleaners you can provide.

CAT. NO. AVD6243PK
24 Tags per Pack.

CRL Duramix Metal Primer

- For Use with All CRL Duramix Two-Part Urethanes

NEW

CRL Duramix Etching Metal Primer provides superior bonding, and is specially formulated for use with CRL Duramix Two-Part Urethanes.

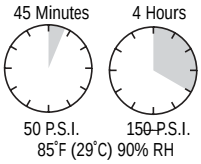
Use PWR22 Glass Cleaner to ensure that the glass surface is prepared for bonding when using this primer.

CAT. NO.	CONTENTS	QTY./CASE
CRL4925	3 Fl. Oz.	6

CRL SikaTack®- Drive

NEW

- Fast Curing with High Initial Strength
- Meets FMVSS 212/216 in as Little as 45 Minutes
- Pre-Cured by Heat
- Comes with Single Use Aktivator Pads



SikaTack® - Drive is one of the most popular Sika® products being used nationwide. This new product is cold applied, and produces safe drive times in as little as 45 minutes. When used with the new Sika® Aktivator Pads, this new system provides all you need for a safe and secure installation. SikaTack® - Drive ships with 17 Aktivator Pads in a case of 24 cartridges.

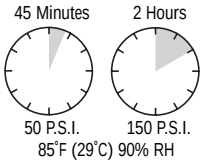
CAT. NO.	DESCRIPTION	CONTENTS	QTY./CASE
271243	SikaTack®-Drive Urethane	10.5 Fl. Oz.	24

All automotive sealants can be combined for quantity pricing. Minimum order is case quantity.

CRL SikaTack® - ASAP Heated Urethane Adhesive

NEW

- 45 Minute Safe Drive Times
- Pre-Cured by Heat
- Cost Effective to Use
- Comes with Single Use Aktivator Pads



SikaTack® ASAP (Any Season, Any Place) has been formulated for use in temperatures down to 0°F (-18°C) and still provide a 45 minute safe drive time. This material must be heated in our Urethane Heater Ovens to provide the chemical reaction for this quick cure. Use Sika® Aktivator Pads as directed for a secure bond. SikaTack® - ASAP ships with 17 Aktivator Pads in a case of 24 cartridges.

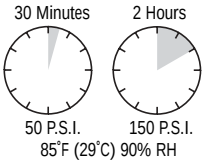
CAT. NO.	DESCRIPTION	CONTENTS	QTY./CASE
270243	SikaTack® ASAP Heated Urethane	10.5 Fl. Oz.	24
ASAPK1T	2 SikaTack® ASAP Cartridges; 1 Aktivator Pad		

All automotive sealants can be combined for quantity pricing. Minimum order for 270243 is case quantity.

CRL SikaTack® - UltraFast II Heated Urethane Adhesive

NEW

- Fast Curing with High Initial Strength
- Meets FMVSS 212/216 in as Little as 30 Minutes
- Pre-Cured by Heat
- Comes with Single Use Aktivator Pads



SikaTack® - Ultrafast II Urethane represents the next generation of the Ultrafast formula. You can expect faster cure rates (30 minute drive times), at lower temperatures, even down to 0° (-18°C), from this new product. SikaTack® - Ultrafast II ships with 17 Aktivator Pads in a case of 24 cartridges.

CAT. NO.	DESCRIPTION	CONTENTS	QTY./CTN.
26924P	SikaTack® - Ultrafast II Urethane	10.5 Fl. Oz.	24

All automotive sealants can be combined for quantity pricing. Minimum order is case quantity.

CRL Urethane Heater Ovens

NEW

- Preheats Urethane to Desired Working Temperature in One Hour
- Available in 120V AC or 12V DC Models

- One Hour Heat Cycle
- Two Cartridge Capacity

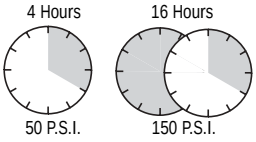
This CRL Two Cartridge Urethane Oven is designed to warm Heated Urethanes to the ideal application temperature of 185º F (85º C) within one hour. The two-hole design allows you to heat a sufficient amount of material for a single windshield replacement.

CAT. NO.	DESCRIPTION
E9006	120V AC Oven
E9007	12V DC Oven

CRL SikaFlex® 220FC Quick Curing Urethane Adhesive

- Quick Curing Windshield Adhesive
- Non-Corrosive, One-Part Formula
- Excellent Resistance to Weathering and Aging

CRL Sikaflex® - 220FC is a quick curing polyurethane based adhesive for bonding windshields. The chemical reaction starts as soon as the adhesive is extruded or the cartridge is opened. Cures to form a high-grade elastomer. S1KA220FC possesses outstanding working characteristics, excellent stability and thixotropy, resulting in rapid strength development and shorter service times. In order to ensure that manufacturer's standards are met S1KA206GP Pinchweld Primer must be used as needed. S1KA215 Primer must be used in PVC and EPDM applications. Prep glass with Sika® Aktivator Pads (see below).



CAT. NO.	DESCRIPTION	CONTENTS	QTY./CTN.
S1KA220	SikaFlex® - 220FC Urethane	10.5 Fl. Oz.	24

All automotive sealants can be combined for quantity pricing. Minimum order is case quantity.

CRL Sika®-Primer 206GP Pinchweld Primer

- For Use with Sika® Urethane Adhesives

A one-component, fast drying, moisture sensitive black liquid for use on glass frit as a blackout, or on repaired pinchweld metal prior to bonding with Sika® Urethane Adhesives.

CAT. NO.	CONTENTS	QTY./CASE
S1KA206GP	8.3 Fl. Oz.	6

CRL Sika®-Primer 215

- For Use with Rigid and Semi-Rigid PVC and EPDM Encapsulated Parts

New encapsulated parts require new primers for OEM bonding strength when urethane is being bonded to the encapsulation rather than to the glass. PVC and EPDM encapsulated parts can not be bonded to the body using normal primers. Select this primer for a sure bond in these cases.

CAT. NO.	CONTENTS	QTY./CASE
S1KA21530	1 Fl. Oz.	6

CRL Daubers

- For Smooth, Quick Application of Glass or Pinchweld Primers

CRL Primer Daubers are a thick tuft of wool fibers on the end of a rigid metal wire.

CAT. NO.	QTY./TUB
PT1U409	100

Minimum order: 100 each. Must order in increments of 100.

CRL Sika®-Aktivator

- Fast Drying Glass Prep
- For Use with Sika® Urethane Adhesives

CRL Sika®-Aktivator is a moisture sensitive liquid that is used to pre-treat glass prior to application of Sika® Adhesives. One-component formula enhances the adhesive bond, is fast drying, and applies easily with wool daubers, such as Cat. No. PT1U409.

CAT. NO.	CONTENTS	QTY./CASE
60D960	8.3 Fl. Oz.	6

CRL Sika®-Aktivator Pads NEW

- For Use with Sika® Urethane Adhesives
- Fast Drying Single Use Size Means Less Waste

Our new Sika®-Aktivator Pads are the easiest and neatest way to apply Sika® Aktivator to glass. They resemble a small paint pad. A quick squeeze of the handle dispenses the Aktivator solution into the drip-free pad, evenly applying it to the targeted surface to clean and prepare the glass for Sika® Urethane Adhesives. Available in packages of five, or cartons of 17, the recommended number of pads for one case of Sika® Urethanes.

Five Pads

CAT. NO.	CONTENTS	PACKAGING
6H12SPK	.37 Fl. Oz.	5 Pads/Pack
6H12S	.37 Fl. Oz.	17 Pads/Ctn.

CRL Problem Solver Nozzles

- **Eliminates the Need to Remove Molding, Windshields or Quarter Glass Panels**
- **Reaches Areas You Never Thought Possible**
- **Rigid or Flexible Styles**

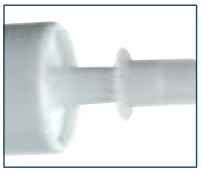
Designed by an auto glass expert, the CRL Problem Solver Nozzle eliminates the need to remove molding, windshields or quarter glass panels to fix leaks. Its narrow tip allows it to fit behind molding, headliners and dash tops, applying urethane directly to the leaking area from inside or outside the auto. It's a real time and money saver because it can pay for itself after only one use. Problem Solver Nozzles fit virtually any caulking cartridge by sliding over the existing nozzle, or screwing onto the threaded nipple. Nozzles are 8" long before trimming.

CAT. NO.	DESCRIPTION	NOTE
PSN2	Rigid Nozzles (4 pack)	Warmed sealant flows
PSN4	Flexible Nozzles (4 pack)	easier and fills the void
PSN6	Combo Pack (2 Flexible, 2 Rigid)	rather than bridging the void.

Packs may be combined for quantity pricing.

Rigid Nozzle **CAT. NO. PSN2**

Flexible Nozzle **CAT. NO. PSN4**



Fits Preformed Nozzles

Reaches Those Hard to Get at Places

Fits Threaded Cartridges

CRL Pre-Cut Urethane Nozzles

- **Helps Direct Urethane to Right Location**

A V-shaped cut in the tip of this nozzle allows for a smooth, consistent bead of adhesive. The tip extension helps you guide the nozzle at an even depth around the pinchweld opening. Pre-Cut Nozzles are helpful when installing rear sliders. The V-shaped notch directs urethane to the right location to make a proper seal, and reduces squeeze-out of excess adhesive. Sold only in packs of 12 Nozzles.

CAT. NO. 690001

CRL Standard Tip Urethane Nozzles

- **Threaded for All Standard Urethane Cartridges**
- **Can Be Trimmed for Larger Sized Bead**

CRL Standard Tip Screw-On Urethane Nozzles can be used as replacement nozzles for all automotive urethane adhesives, and are perfect for back fill operations. Sold individually.

NOTE: These nozzles will not fit silicone cartridges because of a different thread size. For silicone cartridges use the CRL Silicone Nozzle, Cat. No. S1LN0Z.

CAT. NO. UNOZ

CRL Urethane Tube Opener

- **Works Two Ways with Urethane in Metal Cartridges**

CAT. NO. UT0539

With the Urethane Tube Opener you press the rear of the metal cartridge over the serrated circle to remove the rear seal, then turn the cartridge over and press the front seal into the pointed stem. Your cartridge of urethane is ready to use. Made of a special plastic that urethane will not stick to. For use only with metal cartridges.

CRL V-Notch Cutter

- **Cuts Perfect V-Shaped Notches in Nozzles**

CAT. NO. VNT306

Cut Nozzle

Insert Cutter

Cut V-Notch

Cutting the proper V-Notch on a urethane cartridge nozzle can be difficult and dangerous if you don't use the proper tool. This high quality tool comes with chrome metal body, tempered steel jaws, spring loaded handle with non-slip plastic grips, and a thumb controlled jaw locking device. To use this tool, take a utility knife and cut the end of the nozzle tip to give yourself a 1/4" or larger bead. Next, insert the CRL V-Notch Cutter tool inside the nozzle until it stops. Squeeze the handle and you have a perfect V-Notch.

CRL Cordless Caulking Guns

- Cartridge or Sausage Models
- 4.8V DC Model has Plenty of Power to Dispense Automotive Urethanes
- Kit Comes Complete with 4.8 Volt Battery and One Hour Charger

NEW

CAT. NO. CG48SG
Sausage Gun

CAT. NO. CG48
Cartridge Gun

CAT. NO. CG48B

CAT. NO. CG48C

CRL 4.8V DC Cordless Caulking Guns operates on a 4.8 volt rechargeable battery, and can dispense from 30 to 32 standard size cartridges per full charge. They are ideal for auto glass installers, glazing contractors, building contractors, roofers, cabinet makers, OEM fabricators, window manufacturers, or anyone who applies lots of sealant and wants an easier, more professional way of getting the job done, without the restrictions of cords or hoses.

Features include a variable speed dial for controlling the flow of the sealant; a patented dripless mechanism to prevent sealant run-on; a patented rapid plunger release mechanism with a quick release end cap for fast re-loading; a cut-off switch that stops the unit when the plunger reaches the end of the cartridge; a soft grip handle for user comfort; and a safety wrist strap. Total weight of the gun and battery is less than five pounds. For more information on Cordless Caulking guns, see page F347.

CAT. NO.	DESCRIPTION
CG48	4.8V Cordless Cartridge Gun
CG48SG	4.8V Cordless Sausage Gun
CG48B	4.8V DC Rechargeable Battery
CG48C	Battery Charger

CRL Drill-Mate Portable Powered Caulking Gun

- Costs Less Than Battery Operated Caulking Guns
- Develops Up to 300 P.S.I.
- Two Year Limited Warranty

CAT. NO. PR1000

Combine the reliability of a cordless drill with the power of a high ratio caulking gun, and you get the CRL Drill-Mate Portable Powered Caulking Gun. With up to 300 p.s.i. of pressure you can gun just about any material in a cartridge. A quick release clutch keeps the material from continuing to flow once you stop the drill. Made of high impact plastics and backed by a two year warranty. Accepts all 10.1 to 11 ounce standard cartridges.

NOTE: Drill Not Included

CRL Caulk'n Sav'r

- Fits All Standard Size Cartridges
- Pays for Itself Many Times Over in Saved Caulking

CAT. NO. UN0Z

CAT. NO. CSN9

Stop throwing away caulking just because the product has cured in the nozzle. The new CRL Caulk'n Sav'r lets you easily recover that product and use it. Just cut off the end of the cartridge, insert the CRL Caulk'n Sav'r into caulking gun, screw on a nozzle, then drop the cartridge into your favorite caulking gun to finish using the material. Made of an advanced plastic that will not stick to caulking, the CRL Caulk'n Sav'r is completely reusable. Designed to be used with standard size fiber, plastic and metal cartridges. One UN0Z Nozzle is included with each Caulk'n Sav'r.

Cut End Off Cartridge | Insert Caulk'n Sav'r | Dispense Caulking

CRL Portable Hot/Cold Chests

- Preheats Up to 24 Cartridges of Urethane
- Provides Accelerated Cures in Cold Weather
- Makes Gunning of High Viscosity Urethanes Easier

CRL Model P20S Portable Heater Chest can easily keep up to 24 cartridges of urethane at 95˚F(35˚C). Urethane used at this temperature guns easier and cures faster. Trim design allows it to fit between the seats or even behind the seat. Features a long life brushless motor, interior convection fan, and a single handle for easy carrying. Operating off of a 12V DC cigarette lighter receptacle, or the available 110V AC/12V DC multi-purpose power converter, this chest can be used mobile or in the shop.

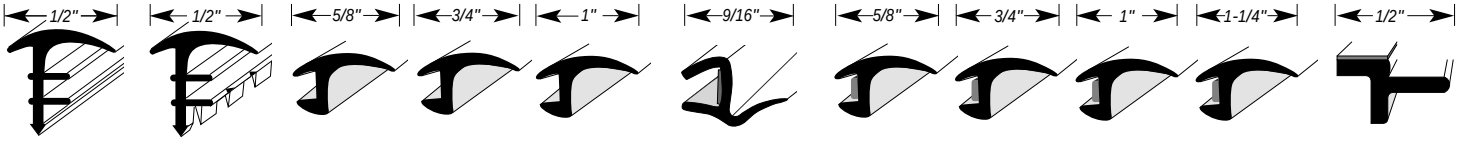
Also available is CRL Model P20C Portable Hot and Cold Chest. It has the same features as the P20S, but with the ability to chill items to 40˚F below ambient temperatures, or heat to 135˚F(57˚C). Both units come with a six foot power cord. Measures 8.5"W by 16"H by 17.5"L.

CAT. NO.	DESCRIPTION
P20S	Compact Heater Chest 12V DC
P20C	Compact Hot/Cold Chest 12V DC
PAC15	110V AC to 12V DC Converter

CRL Universal Windshield Trim Moldings

NEW SIZES

- Better Than Original Equipment
- Shapes and Forms Perfectly in Any Weather
- Over 300 Foreign and Domestic Applications
- Black Finish
- Made in the U.S.A.



Firm Insert Moldings		Channel Moldings			Cavity Molding	Channel Moldings With Butyl				Underside Molding
409T103	409T1031	409T105	409T107	409T108	409T100B	409T105B	409T107B	409T108B	409T109B	409T200

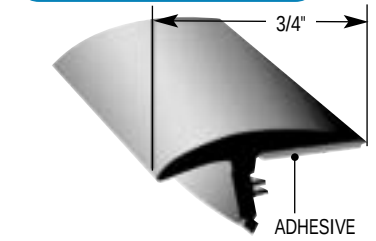
CRL Universal Windshield Trim Moldings are intended to be a replacement for moldings damaged during glass removal. They can be used as a substitute for moldings now being used on General Motors, Chrysler, Ford, Volkswagen, Nissan, Toyota and other vehicles. With their universal styling, they eliminate your need to carry a large inventory of specialized moldings. They can be used in over 300 domestic and foreign applications. The moldings come in four different types; 1) Firm Insert Moldings tend to retain their shape until inserted into the glass channel. The Firm Interlock Molding has tiny notches in the stem, which allow it to create a mechanical grip in the urethane. 2) Channel Moldings can be applied to the glass prior to the actual installation. 3) Channel Moldings with Butyl require no primers to stay permanently affixed to the glass. They can be applied in either extreme heat or cold. 4) Body Underside Molding with pre-applied adhesive replaces the original molding that frequently gets damaged when the glass is removed. Fits many 2000-2003 windshield and back glass applications.

Request our 409TAC Application Chart or 409TSC Molding Samples to help decide which molding will best suit your needs.

CAT. NO.	SIZE	DESCRIPTION
409T103	1/2" x 75 Ft.	Firm Insert Molding
409T1031	1/2" x 75 Ft.	Firm Interlock Molding
409T105	5/8" x 75 Ft.	Channel Molding
409T107	3/4" x 75 Ft.	Channel Molding
409T108	1" x 75 Ft.	Channel Molding
409T100B	9/16" x 120 Ft.	Cavity Molding with Butyl
409T105B	5/8" x 75 Ft.	Channel Molding with Butyl
409T107B	3/4" x 75 Ft.	Channel Molding with Butyl
409T108B	1" x 75 Ft.	Channel Molding with Butyl
409T109B	1-1/4" x 65 Ft.	Channel Molding with Butyl
409T200	100 Ft.	Body Underside Molding

NEW STYLES

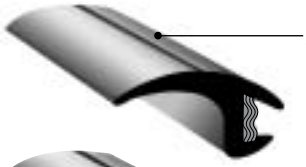
CRL Push-in Moldings with Self-Adhesive Strip

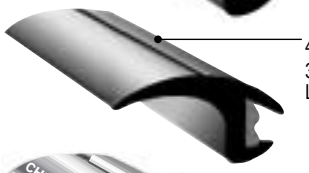


- Adhesive on Body Side of Molding Eliminates Need for Trim Securing Tape While Adhesive Cures
- Matte Black EPDM
- Gloss Black PVC

These CRL Push-In Moldings have a Self-Adhesive Strip on the body side that holds them in place while the windshield adhesive sets. Two materials to choose from to suit a broad range of applications. Cat.No. 409T110 is made of matte black EPDM, while Cat.No. 409T111 is a glossy black PVC material. Both will remain stable and pliable in any temperature range. The face has a 3/4" width; standard rolls are 75 feet long. One roll per carton.

CAT. NO.	WIDTH	LENGTH	TYPE
409T110	3/4"	75 Ft.	Matte Black EPDM
409T111	3/4"	75 Ft.	Glossy Black PVC



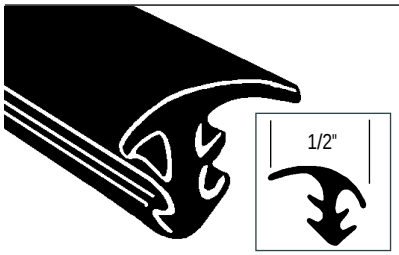


CRL Universal Windshield Trim Moldings

- Feature Line or Chrome Surface Moldings in Popular 5/8" and 3/4" Widths

These Universal Windshield Trim Moldings have something extra. Popular 5/8" and 3/4" widths are now available with an OEM-look "Feature Line" indentation that resembles original equipment. The 3/4" width is also available with chrome-finish surface that will really dress up the installation. All feature butyl in the channel to keep them permanently affixed to the glass. Made of EPDM Rubber or PVC with a matte black, gloss black or chrome finish, they remain flexible in all weather.

CAT. NO.	WIDTH	LENGTH	TYPE
409T105BFL	5/8"	75 Ft.	Feature Line EPDM
409T107BFL	3/4"	75 Ft.	Feature Line EPDM
409T120BC	3/4"	75 Ft.	Chrome Surface PVC



CRL Universal Filler Strip

- Unique Shape Allows Use in Domestic and Imported Vehicles

CAT. NO.	COLOR	LENGTH
WFSR100	Black	100 Ft.

The unique shape of this Universal Filler Strip allows you to apply it in place of many other filler strips used in domestic and imported vehicles. The reveal face measures 1/2" in width. This black colored molding comes in rolls of 100 feet, so you only cut off what you need to do each windshield.

CRL Blue Windshield and Trim Securing Tape*

- Holds Molding While Urethane Cures
- Leaves No Adhesive Residue for Up to Seven Days

This blue crepe paper tape has built-in UV stability and adhesive transfer resistance for up to seven days. Ideal for holding in moldings on urethane-set windshields, also as a masking tape for tooled silicone joints in frameless shower door installations.

CAT. NO.	ROLL SIZE	RLS./CASE
BL9934	3/4" x 60 Yd.	48
BL991	1" x 60 Yd.	36
BL992	2" x 60 Yd.	24

Sizes can be combined for quantity pricing.

*WARNING

These products are not recommended for use on poorly repainted surfaces or lacquered surfaces. Purchaser shall be solely responsible for determining the adequacy of these products for any and all uses to which the purchaser shall apply these products, and the application of these products by the purchaser shall not be subject to any implied warranty of fitness for that purpose. Statements or descriptions of these products are for information only, and not made or given as a warranty of these products in any way.

CRL 3M™ Blue Windshield and Trim Securing Tape*

- Used to Hold Molding While Urethane Cures
- Leaves No Adhesive Residue Up to Seven Days

3M™ Blue Windshield and Trim Securing Tape is most commonly used for holding the trim around newly installed windshields while the urethane sets. It has UV stability and resists adhesive transfer for up to seven days after application. It can also be used in frameless shower door installations as a mask for tooled silicone joints. Comes in your choice of four widths.

CAT. NO.	ROLL SIZE	RLS./CASE
3M6817	3/4" x 60 Yd.	48
3M6818	1" x 60 Yd.	36
3M6819	1-1/2" x 60 Yd.	24
3M6820	2" x 60 Yd.	24

Sizes can be combined for quantity pricing.

CRL Suck-N-Clamp

- Temporary Fastener for Glue-On Windshield and Side Moldings, Emblems and More

The CRL Suck-N-Clamp is a simple and effective tool that provides "Hands-Free" clamping action for glue-on windshield and side moldings, body emblems and more. Suck-N-Clamp works by attaching the suction cup to any smooth, non-porous glass or metal surface. Then the arm is positioned over the item being adhered, and tightened to hold it in position while the adhesive cures. Use them virtually anywhere, they go on quickly, and will not harm paint surfaces. Suck-N-Clamp is available individually, or in cost-saving six packs.

CAT. NO.	DESCRIPTION
SC1	Single Suck-N-Clamp
SC6	Suck-N-Clamp Six Pack

CRL Scrubs™-in-a-Bucket

- Pop-Up Towels Impregnated with Waterless Hand Cleaner
- Cleans Urethane, Adhesives, Grease, Oil, Inks, Tar and More

Use Scrubs™-in-a-Bucket for fast and easy hand cleaning. These pre-moistened towels clean hands of urethanes, adhesives, inks, tar and oils with a gentle-to-the-skin formula that gives pumice performance without the grit. Natural citrus fragrance Scrubs™-in-a-Bucket contain a germ fighter, and leave hands clean without residue or drying. Also great for cleaning tools, work surfaces and spills. Plus, they're recyclable, U.S.D.A. authorized, and carry an E-4 rating. Easy to dispense from pop-up bucket.

CAT. NO.	SIZE	QTY./BUCKET
C422	10-1/2" x 12-1/4"	72

CRL POWR-Cat Oscillating Cut-Out Knife

- Low CFM Usage
- 20,000 Oscillations Per Minute
- Use with All Six and Twelve-Sided Cut-Out Blades

Shown with Wildcat Standard Blade

CAT. NO.	DESCRIPTION
AK60TOOL	POWR-Cat Pneumatic Tool Only
AK70	POWR-Cat Pneumatic Knife Kit
AKB200	Wildcat Standard Blade
AKB300	Wildcat Dodge Ram Blade

Complete blade selection on page F375.

It's tough to find a good auto glass removal tool with a low price, but CRL has it. Our POWR-Cat Cut-Out Knife affords you these benefits with features found on higher priced tools. The long body housing provides a comfortable grip to control the cutting action. Uses all six and twelve-sided cut-out blades. Available in our Deluxe Kit, or just the tool only.

The AK70 Deluxe Kit consists of:
1 each AK60T00L;
1 each of AKB200, AKB300, RD079 and RD081 Blades; Sharpening Stone; Hex Key Wrench; Quick Disconnects; Air Filter Moisture Trap; In-line Oiler; Pneumatic Tool Oil; 25' Coiled Air Hose; 1 roll 2" Duct Tape; 1 roll 1" Blue Tape; 1 roll 2" Blue Tape; High Impact Carrying Case.

CRL Equalizer® Viper Oscillating Cut-Out Knife

- 18 Volt Battery Gives Viper Enough Power to Cut the Widest Urethane with Ease
- Variable Speed from 0 to 22,000 Oscillations per Minute

Viper Cut-Out Tool with Battery Cartridge, 115V AC Charger and One 2" Straight Cut-Out Blade
Cat. No. VCW419

All you need to do is pull the trigger on your Equalizer® Viper and you're cutting. No extension cords or air hoses to get in the way because Viper is powered by the same 18 volt battery used in all DeWalt 18 volt tools. It gives the high torque motor plenty of power to cut the widest urethane with ease. The variable speed trigger allows you to select any speed from 0 to 22,000 oscillations per minute. Viper is designed in a convenient 'L' Shape for comfortable, relaxed yet controlled use. It uses all oscillating cut-out tool blades with a twelve-sided mount, including our Powered Cold Knife Blades. Powerful, easy and convenient, that's the new Equalizer® Viper.

CAT. NO.	DESCRIPTION
VCW419	Viper Cordless Tool with 18 Volt Battery Cartridge 115V AC Charger and One 2" Straight Cut-Out Blade
DW9095	18 Volt Battery Cartridge Only
DW9108	18 Volt Battery Charger (115V AC) Only
DW9109	18 Volt Battery Charger (12V DC) Only
V51851	2-1/8" Straight Cut-Out Blade

Complete blade selection on page F375.

CRL Extractor Pro 18 Volt Cordless Reciprocal Cut-Out Tool

- 2,000 Smooth and Quiet Strokes per Minute
- Full Charge Will Remove 6 to 7 Windshields
- Can Be Used for More Than Just Auto Glass

The CRL Extractor Pro 18 Volt Cordless Cut-Out Tool is one of the fastest and most powerful cut-out tools on the market. The flexible blade design allows the Extractor to remove approximately 95% of all windshields with a smooth, reciprocal action.

The motor provides 2,000 quiet and smooth strokes per minute, with a stroke length of 3/8". This is a multi-faceted tool you can use for windshield removal, mirror removal, insulated glass deglazing, even putty and tile removal.

CAT. NO.	DESCRIPTION
EXTPR0CM2	Extractor Tool with 18 Volt Battery Cartridge, 115V AC Charger, 4" Wide Blade and a Carrying Case
EXTBL	Standard Length 4" Wide Blade for Extractor Tool
EXTBLLG	Extra Long 4" Wide Blade for Extractor Tool
EXTBLN	Narrow 1-1/2" Wide Blade for Extractor Tool
EXTAPE	Extractor Pro Instructional Video Tape

Standard Length 4" Wide Blade

Extra Long 4" Wide Blade

Narrow 1-1/2" Wide Blade

CRL Fein Pneumatic Oscillating Cut-Out Tool

CAT. NO. FK6625

- Low Maintenance, High Quality and Lightweight Compact Design

The economy and ease of a pneumatic cut-out tool can be found in this latest quality-crafted addition from Fein Power Tools. The Fein Pneumatic Cut-Out Tool is compact, weighing only two pounds, and is designed to work at 90 psi with 3 cfm air consumption. The FK6625 comes complete with spanner wrench, maintenance manual and instructions. The tool accepts all standard Fein, Wildcat, Rodcraft, Time Saver and Economy Oscillating Blades.

CRL Oscillating Cut-Out Blades

- Fits All Oscillating Cut-Out Knives
- Wide Range of Sizes and Styles

CRL's Oscillating Cut-Out Blades offer double machined edges and modern tempering techniques for strong, fast cutting. Blades fit six or twelve-sided mounts on either electric or pneumatic cut-out tools. Choose the Straight or Curved Blades for interior cut-outs, and Hook Blades for work from the exterior.

Style A (Hook)

Style C (Curved)

Style F (Straight)

Style H (Bent Up)

Style K (Scraper)

CAT. NO.	DESCRIPTION	STYLE
RD076	Hook Blade with 7/8" Cutting Edge	A
RD079	Hook Blade with 1-1/2" Cutting Edge	A
RD107	Hook Blade with 2-1/2" Cutting Edge	A
RD111	Hook Blade with 2-3/4" Cutting Edge	A
RD072	3-3/8" Long Curved Blade with 2" Cutting Edge	C
RD081	3-3/4" Long Straight Blade with 2" Cutting Edge	F
RD097	5" Long Straight Blade with 2" Cutting Edge	F
RD105	2-5/8" Long Serrated Blade with 1" Cutting Edge	F
RD106	2-5/8" Long Straight Blade with 1-3/8" Cutting Edge	F
RD103	2-5/8" Long 45" Bent Blade with 7/8" Cutting Edge	H
RD115	3-3/16" Scraper Blade 5/8" Width	K

CRL Fein Gator and Specialty Blades

- Fast Cutting Oscillating Blades
- Special Blades for Special Applications
- Hardened and Sharpened for Superior Performance

CAT. NO. FKB128
Mushroom Blade
One per pack

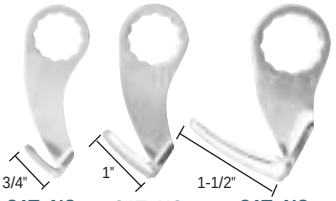
CAT. NO. FKB103
Circular Blade
One per pack

CRL Fein Blades let you finish your work faster and with better results than other blades because of their special configurations. The CRL Fein Circular Saw Blade cuts body panels and roof braces with ease when installing sunroofs. The CRL Fein Mushroom Blade is perfect for deglazing insulated units or individual lites from a wood door or window.

CRL Fein Gator Blades come in two configurations and three lengths. The "U" shaped blades have the ability to swiftly undercut the glass for fast windshield replacements. The "L" shaped blades act as a powered cold knife to quickly remove windshields where you would normally use just a cold knife. Both types have leading edge sharpened and serrated for the best performance you can get.

Close-Up of Gator Blade

CAT. NO. FKB208 Gator Blade
CAT. NO. FKB207 Gator Blade
CAT. NO. FKB209 Gator Blade



CAT. NO. FKB210 Gator Blade
CAT. NO. FKB211 Gator Blade
CAT. NO. FKB212 Gator Blade

CRL Powered Cold Knife Blades for Oscillating Tools

- Fits All Six or Twelve-Sided Mount Oscillating Cut-Out Tools on the Market

CRL Powered Cold Knife Blades have a 12-sided mount that lets you use them with just about any oscillating cut-out tool. They're made of a flexible steel that flexes with applied pressure to reduce the chance of breakage. One side is flat so the blade will ride against the glass and cut the urethane at the point of least resistance. The sharp, tapered points come in the three most popular lengths for cut-out blades: 3/4", 1" and 1-1/2".

CAT. NO. V51847
3/4" Blade

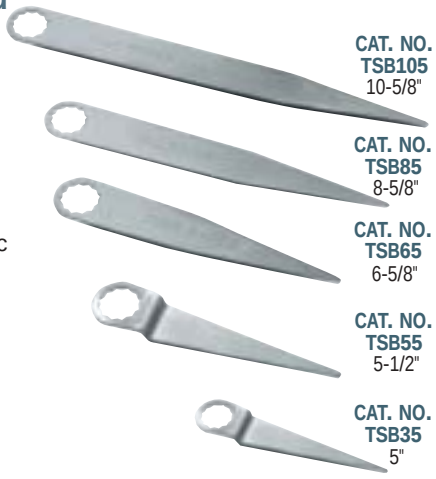
CAT. NO. V51848
1" Blade

CAT. NO. V51849
1-1/2" Blade

CRL Time Saver Blades

- Fits Cut-Out Knives Using a Six or Twelve-Sided Blade Mount

CRL Time Saver Blades give you extra reach to cut out those difficult long dash windshields from inside the vehicle. CRL Time Saver Blades can be used on Ford Taurus, Chevy Truck, Cadillac Seville, Pontiac Bonneville, Dodge Ram Pickup, Olds Aurora, Volvo, BMW, Mercedes and many others where regular length blades won't reach. Available in five lengths to fit Wildcat, Fein, POWR-Cat and other knives using six or twelve-sided mounts.



CAT. NO. TSB105
10-5/8"

CAT. NO. TSB85
8-5/8"

CAT. NO. TSB65
6-5/8"

CAT. NO. TSB55
5-1/2"

CAT. NO. TSB35
5"

All sizes can be combined for quantity pricing.

CRL Equalizer® Ninja Air Powered Oscillating Cold Knife

- The Look and Feel of a Cold Knife, but it Cuts with the Power of 22,000 Cutting Strokes Per Minute
- Uses Super Sharp Ninja Blades

The CRL Equalizer® Ninja is a revolutionary new auto glass removal tool that allows you to remove glass fast and effortlessly. It has the look and feel of a cold knife, but it cuts with the power of 22,000 cutting strokes per minute.

Here is how it works: The blade moves back and forth at 22,000 strokes per minute. As you pull the Equalizer® Ninja forward it is retracting and then thrusting into the urethane at an astonishing rate of 367 times a second. Jobs that took several minutes now take only seconds, and with no strain on your body.

CAT. NO. ENJ147
Knife with 1" Blade

CAT. NO. ENL842
1-1/2" Blade

CAT. NO. EN0841
1" Blade

CAT. NO. ENT840
3/4" Blade

A unique feature is Ninja's ability to cut under hoods, trunk lids or anything that hangs over the glass and obstructs your ability to cut. You simply move the blade around so it sits at a 90° angle. This makes the tool short enough to go under these problem areas.

CAT. NO. ENK148

The Equalizer® Ninja Deluxe Kit consists of the Ninja with one blade in the tool and two each 3/4" , 1" and 1-1/2" blades, all packed in a foam-lined, plastic carrying case.

CAT. NO.	DESCRIPTION
ENJ147	Ninja Air Knife with One EN0841 1" Blade
ENK148	Ninja Deluxe Kit with Blades and Case
ENT840	3/4" Ninja Blade
EN0841	1" Ninja Blade
ENL842	1-1/2" Ninja Blade

NOTE: Ninja Blades will only fit the Ninja Knife. They will not fit other tools. Minimum 90 P.S.I. required.

CRL Equalizer® Freedom Cordless Cut-Out Tool

- Remove 3 to 5 Windshields with One 18 Volt Battery
- Battery Recharges in One Hour
- 0 to 4000 Strokes Per Minute

Freedom is certainly the operative word in describing the latest cut-out tool from Equalizer®. No longer are you limited by the lack of a power source or air compressor. Simply bring out the Freedom Cordless Tool and begin your cut-out. The CRL Equalizer® Freedom features an 18 volt battery which delivers enough power to remove up to five windshields, depending on how difficult the glass is to remove.

The Equalizer® Freedom uses the latest in battery and motor technology, giving it extreme power for those tough jobs. Its battery can deliver 40% more run time than standard batteries, can be charged 1200 times, and never develops a memory. A high torque motor drives the blade at 4,000 strokes per minute.

Each kit comes complete with an Equalizer® Freedom; one each 4", 8", and 12" Sheaths; two each 4", 8", and 12" Blades; one pair of Safety Glasses, one 18 Volt Battery; one 120 Volt One Hour Charger; a Foam Lined Plastic Carrying Case. Note: All Blades and Sheaths are interchangeable with all other Equalizer® reciprocating tools.

CAT. NO.	DESCRIPTION
EQF18	Equalizer® Freedom Cordless Kit
EQB118	18 Volt Heavy-Duty Battery
EQV120	115V AC Battery Charger
EQV121	12V DC Battery Charger

CAT. NO. EQ4235

CRL Equalizer® Tool Rebuild Kit

The Equalizer® Tool Rebuild Kit lets you recondition your Classic Equalizer® cut-out tool (115V AC models) to keep it running at peak performance. Not for use with Equalizer® Magnum tools. Includes full instructions.

CRL Equalizer® Serrated Blades

ESB1312 12" Equalizer Serrated Blade

ESB1308 8" Equalizer Serrated Blade

ESB1304 4" Equalizer Serrated Blade

- Fit Any Equalizer Cut-Out Tool
- Unique Double Serration Edges

These Equalizer® Serrated Blades are made of spring steel and sharpened with a unique double serration method. Each serration is itself serrated to give these blades a smoother, faster cutting action than ever before. Blades will fit any Equalizer® reciprocating tool.

CAT. NO.	DESCRIPTION
ESB1304	4" Serrated Blade
ESB1308	8" Serrated Blade
ESB1312	12" Serrated Blade

NEW

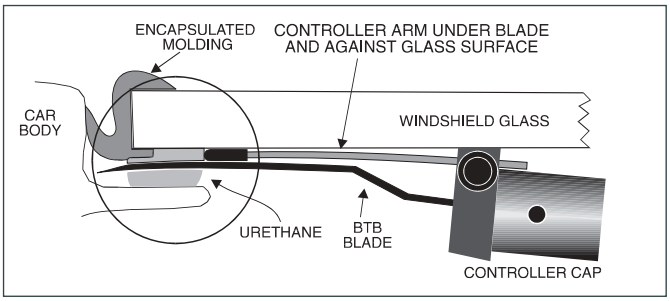
CRL Sheath Cleaning Container

Urethane and butyl should not be allowed to build up inside the sheaths of your Equalizer® tool because they can put excess strain on the drive unit. This specially designed aluminum container holds the three different sizes of Equalizer® Sheaths and just enough sheath cleaner to keep them soaking. We recommend using CRL2032 General Purpose Solvent and Adhesive Cleaner for soaking the sheaths.

CAT. NO. ESC780

CRL BTB Reciprocal Cut-Out Tool

- Powerful but Quiet Reciprocating Action
- Compact "In-Line" Tool with Ergonomic Design
- Variety of Blade Types and Lengths
- Easily Removes Virtually All Domestic and Foreign Glass Parts Without Breakage



The BTB Cut-Out System offers today's auto glass installer all the tools needed for any domestic or foreign glass part removal. With the BTB System the installer can use a variety of blades, either with the power tool, or manually using the handles provided with each kit to remove virtually any glass part without breakage.

The power tool is small and compact, so you can use it in either hand. This air-powered tool provides a strong "in-line" reciprocal stroke, which gives the blade access to all those hard to reach areas. The cut-out depth of the blade is regulated by the use of Depth Controller Arms provided with each kit.

All BTB Blades are made of spring steel, and can be resharpened to ensure constant clean cuts and extended blade life. Each blade is designed for specific cut-out situations. The Serrated Blades combine the "in-out" movement with sideways "sawing" action to speed up removal time. Bent and Offset Blades are designed for curved encapsulated glass.

BTB TOOLS AND ACCESSORIES

CAT. NO.	DESCRIPTION
BTBCL	Complete "Classic" Kit
BTB10HD	Air Power Tool Only

CRL BTB "Classic" Cut-Out Kit

Each Cat. No. BTBCL "Classic" Kit includes: Air Power Tool, 3 Depth Controller Arms, 7 BTB Blades, Manual Blade Handle, Saw Blade, Sharpening Stone, Spray Bottle, Paddle Tool, Air Tool Oil, Allen Key, Velcro Fasteners and an Instructional Video, all packed in a Molded Plastic Carrying Case.

CAT. NO. BTBCL

Individual Blades for BTB Tools

BTB STANDARD BLADES

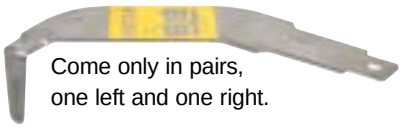
CAT. NO.	DESCRIPTION
BTB1	Extra Long Flat Blade
BTB2	Long Universal Blade
BTB3	General Purpose Blade
BTB4	Extra Curved Glass Bent Blade
BTB5	Trim Blade
BTB6	Pinchweld Cleanup Blade

BTB SERRATED BLADES

CAT. NO.	DESCRIPTION
BTB1SC	Extra Long Flat Serrated Blade
BTB2SC	Long Universal Serrated Blade
BTB3SC	General Purpose Bent Serrated Blade
BTB4SC	Curved Glass Bent Serrated Blade

BTB SPECIALTY BLADES

CAT. NO.	DESCRIPTION
BTB24S	Serrated Bent Blade
BTB24RS	Serrated Reverse Bent Blade
BTB24ZS	Serrated Offset Blade
BTB24ZRS	Serrated Reverse Offset Blade



Come only in pairs, one left and one right.

BTB POWERED COLD KNIFE BLADES

CAT. NO.	DESCRIPTION
BTB27	Powered Cold Knife Blades (L&R)
BTB27R	Reversed Powered Cold Knife Blades (L&R)

CRL BTB Chuck Handles

"One-Handed" Chuck Handle

"Two-Handed" Chuck Handle

- Let You Use All BTB Blades by Hand

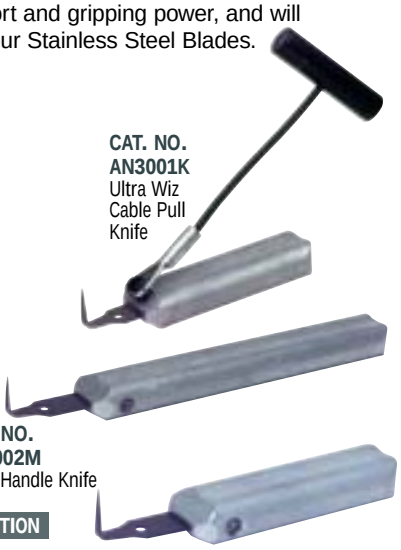
Sometimes a cut-out job requires a "fine touch" that can only be accomplished by hand. You can use any of the BTB Blades with these Chuck Handles. Blades (not included) are secured with a quick twist of a hex screw.

CAT. NO.	LENGTH	DESCRIPTION
BTB7	4-1/2"	"One-Handed" Handle
BTB7L	8"	"Two-Handed" Handle

Blade not included. Must be ordered separately.

CRL Ultra Wiz Windshield Knife

The Ultra Wiz System includes a choice of handles to accompany their super sharp blades. The new Ultra Wiz Knife has a cable pull to make it easier than ever to cut through tough urethanes. All Ultra Wiz Handles are shaped for comfort and gripping power, and will hold any size Ultra Wiz Blade, or our Stainless Steel Blades.



CAT. NO. AN3001K
Ultra Wiz Cable Pull Knife

CAT. NO. AN2002M
Long Handle Knife

CAT. NO. AN2001M
Short Handle Knife

CAT. NO.	DESCRIPTION
AN3001K	Ultra Wiz Cable Pull Knife
AN2002M	8-3/4" Long Handle Knife
AN2001M	4-3/4" Short Handle Knife

CRL Ultra Wiz Blades

- Extremely Sharp Points

Ultra Wiz Blades are made of high quality spring steel sharpened to an extremely thin edge and brought to a sharp point to easily pierce stubborn urethane.

CAT. NO. AN1001

CAT. NO. AN1002

CAT. NO. AN1004

CAT. NO.	DESCRIPTION
AN1001	3/4" Ultra Wiz Blade
AN1002	1" Ultra Wiz Blade
AN1004	1-1/2" Ultra Wiz Blade

All cold knife blades can be combined for quantity pricing.

CRL Ultra Wiz Ultra Thin Blades

- 40% Thinner Than the Original Ultra Wiz Blades

The Ultra Wiz Ultra Thin Blade is the strongest, thinnest, most controllable cold knife blade available, and the only dual angle edge design in the industry!

Ultra Thin Blades average 40% thinner than our original Ultra Wiz Blades. A thinner blade means less pulling force is required; much easier on your back and arms.

CAT. NO. AN5001

CAT. NO. AN5002

CAT. NO. AN5004

CAT. NO.	DESCRIPTION
AN5001	3/4" Ultra Thin Blade
AN5002	1" Ultra Thin Blade
AN5004	1-1/2" Ultra Thin Blade

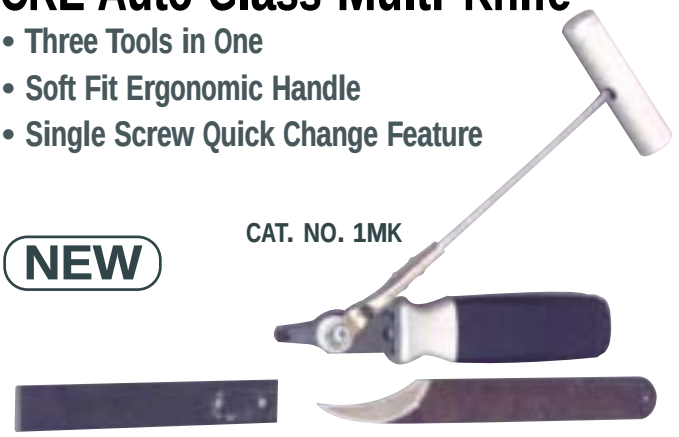
All cold knife blades can be combined for quantity pricing.

CRL Auto Glass Multi-Knife

- Three Tools in One
- Soft Fit Ergonomic Handle
- Single Screw Quick Change Feature

NEW

CAT. NO. 1MK



Scraper Blade

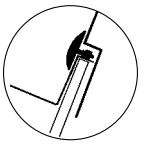
Curved Blade

CRL has combined the three most common tools used for auto glass removal with a single set screw quick change feature! No longer do you have to grab a cold knife for cutting the top and sides of the windshield, a long knife for cutting the bottom bead, and then a scraper to remove the old urethane for replacement. Ergonomic handle is the most comfortable and durable on the market. Kit comes with one each 3/4" Cold Knife Blade, 3/4" wide Scraper Blade, and a 6-1/2" long Curved Blade.

CAT. NO.	DESCRIPTION
1MK	Complete Multi-Knife Kit
1MKH	Handle Only
RSB75	3/4" Wide Scraper Blade
H62750	6-1/2" Long Curved Blade

Blades can be combined for quantity pricing.

CRL Ultra Wiz Molding Removal Blade

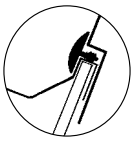


The Ultra Wiz Molding Removal Blade is designed to remove the bonded moldings from the windshields of various Chrysler, Plymouth, Dodge, Nissan, Isuzu, Chevrolet and Toyota vehicles. Its special shape gets the tip under the molding and around the glass edge (see illustration), saving it for reinstallation. Fits new Ultra Wiz Handles, plus other cold knives.

CAT. NO.	DESCRIPTION
AN1005	Molding Removal Blade

All cold knife blades can be combined for quantity pricing.

CRL Ultra Wiz Offset Molding Blade



By using this blade it is no longer necessary to remove the molding first in order to save it. With the Offset Molding Blade the windshield is removed while the molding remains intact. Without the glass, there is greater access to the molding, making it easy to remove and reuse.

CAT. NO.	DESCRIPTION
AN1022M	Offset Molding Blade

All cold knife blades can be combined for quantity pricing.

CRL One Step Push Button Cold Knife

- **Push Button for Quick Blade Change**

Our One Step Cold Knife has a push button blade release system, allowing the installer to change blades in seconds. The ergonomic grip adds handling stability, gripping action and user comfort. The cable pull has been reinforced with 50% more material to withstand maximum pulling torque, and has been coated to prevent damage to the "A" pillars, hood and other painted areas. Comes with one RKB10 Stainless Steel Urethane Cutting Blade.

CAT. NO. RZ500

Push Button Knife Blades

These Stainless Steel Blades are super sharp and cut though the toughest urethane. The RKB75, RKB10 and RKB15 are standard length 3-1/2" blades, while the RKB410 and RKB415 have extra long 4" shanks to provide additional clearance from painted surfaces during cut-out procedures. Six blades per box.

CAT. NO.	BLADE DESCRIPTION
RKB75	*3/4" Blade 3-1/2" Length and 3/4" Body
RKB10	*1" Blade 3-1/2" Length and 3/4" Body
RKB15	*1-1/2" Blade 4" Length and 3/4" Body
RKB410	*1" Blade 4" Length and 3/4" Body
RKB415	*1-1/2" Blade 4" Length and 3/4" Body

All cold knife blades can be combined for quantity pricing.

CRL Short Handle Cold Knife

This Short Handle Cold Knife was designed for use on vehicles where the hood comes up over the bottom edge of the windshield, so close that it is very difficult to get a normal cold knife under the hood to cut the urethane. Also useful on vans and RV's where the roof overhangs the top of the windshield. Comes with one RKB141 Blade.

CAT. NO. RK160S

Cold Knife Blades

Our assortment of Cold Knife Blades fit the RK160, RK160S, Euro-Knife and all standard cold knives. Six blades per box.

Standard Tempered Steel

Standard Tempered Steel Blades are our best sellers.

CAT. NO.	BLADE DESCRIPTION
RKB141	*7/8" Blade 1/2" Body
RKB146	*3/8" Blade 1/2" Body

Easy-Cutting Coated Blade

Produces unsurpassed performance when cutting through tough urethanes.

CAT. NO.	BLADE DESCRIPTION
RKB142	*1-3/8" Blade 1/2" Body
RKB143	*7/8" Blade 1/2" Body

Super Strong Stainless Steel

With tips that can be re-sharpened, these stainless steel blades will give you extended cutting life.

CAT. NO.	BLADE DESCRIPTION
RKB75	*3/4" Stainless Steel Blade 3/4" Body
RKB10	*1" Stainless Steel Blade 3/4" Body
RKB15	*1-1/2" Stainless Steel Blade 3/4" Body

All cold knife blades can be combined for quantity pricing.

CRL Euro-Knife

NEW

- **Ergonomic Design Reduces Strain and Arm Fatigue**
- **Uses All Cold Knife Blades Shown on This Page**
- **New Cam-Action Quick Blade Change Feature**

The CRL Euro-Knife brings a completely new design to a tool that has remained unchanged for many years. The comfortable grip, ergonomic arm position, and unblocked view of the work make the Euro-Knife a "must have" tool for any auto glass technician who uses a cold knife. The grip position allows the user to rest his hand on the glass during the cut-out, reducing arm fatigue. You no longer have to "float" above the glass as you perform the cut-out. The handle design also allows you to use it around the hood and cowl. The Cable Pull eliminates the stress of pulling on a "T" handle because the cable strap rests comfortably on the back of your wrist (safety gloves recommended whenever you work with glass). Euro-Knife uses all standard cold knife blades. New Cam-Action Blade Change feature allows blade changes in seconds.

CAT. NO.	DESCRIPTION
EURO9	Euro-Knife Handle with Cable Pull
EURO9CP	Replacement Cable Pull

CRL Cobra Cut-Out Blades

- **Rounded Blade Surface for Less Drag**
- **Fits Euro-Knife, Push Button and Ultra-Wiz Cold Knives**

Cobra Blades remain flexible, stay sharp and last longer than other cold knife blades. The rounded blade surface provides less flat surfaces for adhesives to stick to during cut-out. These blades work in RZ500 and RK500 Push Button Cold Knives, Euro-Knife, Ultra Wiz or standard cold knives.

CAT. NO.	BLADE DESCRIPTION
RCB175	*3/4" Cobra Blade 3/4" Body
RCB110	*1" Cobra Blade 3/4" Body

All cold knife blades can be combined for quantity pricing.

CRL Long Handle Cut-Out Knives and Blades

- Affordably Priced
- Two Sizes to Choose From

CRL's 24" Long Knife features 1" flat stock aluminum construction. CRL's new 18" Sur-Grip Long Knife features a cushioned, positive grip foam handle. Both have a single set screw to secure the blade, and are finished with a powder-coated baked on black crinkle paint.

CRL Long Knife Blades increase the overall length of your Long Knife, and provide the ultimate in cutting action. These blades fit most common long knives on the market, and both Straight or Serrated Edge Blades are available.

CAT. NO.	DESCRIPTION
HT532	24" Long Knife
HT531	18" Long Sur-Grip Knife
RKB471	4-1/2" Straight Blade
RKB472	4-1/2" Serrated Blade

Blades can be combined for quantity pricing.

CRL Pipe Handle Cut-Out Knives

- Now with Soft Vinyl Grip Handle

CAT. NO. PK19PS
Extra Blade Clamp Plate and Screw Set

CAT. NO. PK19 13" Long

CAT. NO. PK19XL 18" Long

Our 13" standard length and 18" extra long Pipe Handle Cut-Out Knives give you extra reach to cut hardened urethane down at the dash line. The soft vinyl handle is easy to grip, and changing the included Utility Blade takes just seconds. Uses 1992C and 1993X10 Utility Blades, which conveniently store in the hollow handle.

CRL Rigid Urethane Knives

- Solid Aluminum Handles Resist Flexing

UK9 Super Grip Knife

UK18 and UK24 Rigid Knives

These solid aluminum handle knives use 1992C and 1993X10 Heavy Duty Utility Knife Blades to cut through hardened sealants with ease. The long, thin knife works well for below-dash cut-outs. Super Grip Knife has finger grooves for a sure grip.

CAT. NO.	DESCRIPTION
UK9	9" Super Grip Knife
UK18	18" Rigid Knife
UK24	24" Rigid Knife

CRL Replacement Blades for PK19, PK19XL, UK9, UK18 and UK24 Cut-Out Knives

- Heavy-Duty Steel
- Convenient Dispenser Holds 100 Blades

CAT. NO. 1992C

CRL Extra Long Utility Knife Blades

- Fits Urethane Knives Using Utility Blades

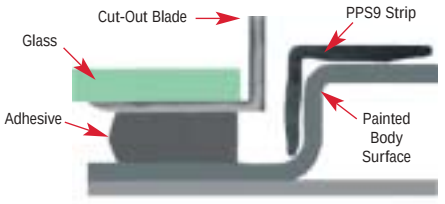
Extra Long Utility Knife Blades give an exposed cutting edge of at least 2-1/4", more than double the cutting edge of standard utility knife blades. Fit all Long Urethane Knives on this page. Knife must be ordered seperately.

CAT. NO.	QTY./PKG.
1993X10	10 Blades

CRL Paint Protection Strip

- Protects Body Paint from Cut-Out Blade Damage
- Soft Vinyl Strip is Reusable

CRL's new Paint Protection Strip is a soft vinyl that protects the paint on vehicles during the removal of glass. Insert the PPS9 after the molding has been removed (or on new vehicles where there is no molding) between the glass and the body. Use Molding Securing Tape across the PPS9 to hold it in place. Whether you use a cold knife or a power tool, you have a barrier of protection between the blade and the vehicle's paint. Cut to exact length you need from the roll.



CAT. NO.	COLOR	FEET/ROLL
PPS9	Black	25

CRL Thermo-Hygro

- Measures Humidity at Installation Site
- Helps You Determine Drive-Away Times

CAT. NO. TH7999

Know your urethane cure rates before you start your installation. Almost all one part urethanes are moisture curing, and knowing the humidity level will allow you to estimate safe drive-away times. CRL's new Thermo-Hygro Temperature and Humidity Gauge has 'max-min' settings that allow you to track the temperature and humidity levels in your shop throughout the day. An outside probe also registers the outside temperature. Temperature Range: Interior -14˚F to 122˚F (-25˚C to 50˚C); Exterior -58˚F to 158˚F (-50˚C to 70˚C); Humidity Range: 25% to 95%RH.

CRL Humidity / Temperature Pen

- A Must for Determining Urethane Cure Rates

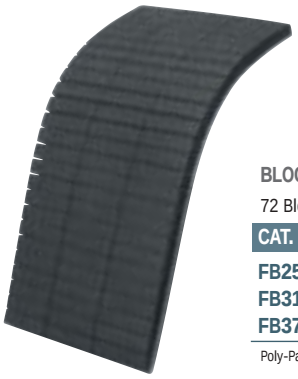
The CRL Humidity/Temperature Pen has fast response solid-state sensors which continuously and simultaneously display both Relative Humidity and Air Temperature (°F/°C) with a dual-recall memory. The large, 1/2" LCD memory display registers the highest and lowest humidity/temperature achieved overnight, or during any time period.

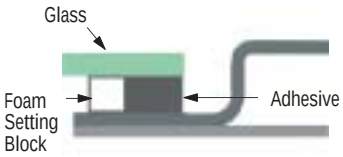
CAT. NO.	DESCRIPTION
HTP4093	Humidity/Temperature Pen
1039RB	Replacement Battery 1.5V DC

CRL Foam Windshield Setting Blocks

- Help Support Position of Glass While Adhesive Cures
- Pre-Cut Pads of Blocks Are Simple to Use

CRL Foam Windshield Setting Blocks are designed to prevent the windshield from sinking before the urethane cures, which may happen even with high viscosity urethanes. Blocks are made of high density foam that effectively supports the glass. Available in 1/4", 5/16" and 3/8" heights to meet all your needs. Adhesive on one side keeps blocks in place during installation.





BLOCKS IN POLY-PACKS

72 Blocks Per Pad/10 Pads Per Pack

CAT. NO.	BLOCK SIZE
FB250P	1/4" x 5/16" x 1"
FB312P	1/4" x 1/4" x 1"
FB375P	1/4" x 3/8" x 1"

Poly-Packs can be combined for quantity pricing.

MONEY-SAVING FULL CASES

72 Blocks Per Pad/100 Pads Per Case

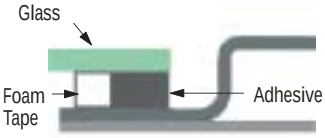
CAT. NO.	BLOCK SIZE
FB250C	1/4" x 5/16" x 1"
FB312C	1/4" x 1/4" x 1"
FB375C	1/4" x 3/8" x 1"

Full cases can be combined for quantity pricing.

CRL Foam Dam Setting Tape

- Supports Windshield While Adhesive Cures
- Reduces Wind Noise

CRL Foam Dam Setting Tape retains most of its height to create more glass-to-adhesive contact area. Tape with adhesive on one side allows glass to be repositioned after urethane is applied. Tape with adhesive on two sides will increase initial adhesion strength. It's aggressive adhesive bonds to pinchweld, and it's high-density foam bends easily, forming a smooth finish on inside of car.



- Choice of Single or Double Sided Adhesive

Note: If foam tape is found on the original installation, the OEM has installed this as an additional sound deadening device. Tape must be reinstalled or additional noise levels will be evident to the customer.

ADHESIVE ON TWO SIDES

CAT. NO.	TAPE SIZE	MIN. ORDER
FD250R	1/4" x 1/4" x 16 Ft.	12 Rolls
FD312R	1/4" x 5/16" x 16 Ft	12 Rolls
FD375R	1/4" x 3/8" x 16 Ft.	12 Rolls

Rolls can be combined for quantity pricing.
Minimum order is case quantity.

ADHESIVE ON ONE SIDE

CAT. NO.	TAPE SIZE	MIN. ORDER
FC250R	1/4" x 1/4" x 16 Ft.	12 Rolls
FC312R	1/4" x 5/16" x 16 Ft.	12 Rolls
FC375R	1/4" x 3/8" x 16 Ft.	12 Rolls
FC250C	1/4" x 1/4" x 500* Ft.	1 Case
FC312C	1/4" x 5/16" x 500* Ft.	1 Case
FC375C	1/4" x 3/8" x 500* Ft.	1 Case

Rolls can be combined for quantity pricing.
* 50' Rolls packed ten per case.

CRL 3M™ Radial and Roloc Bristle Discs

- Cleaner, Faster, Safer Than a Wire Wheel
- Sweeps Away Contamination While Exposing Fresh Abrasive

When used for pinchweld rust repair work, 3M™ Radial Bristle and Roloc Bristle Discs are the fastest, cleanest and most efficient way to prepare the surface for rebonding. Use the Radial Disc for long straight areas, and the Roloc Bristle Disc for corners and hard to get at edges. The patented abrasive-filled bristles apply a continuous, fresh supply of sharp 3M™ Regalite mineral to the workpiece.

CAT. NO.	DESCRIPTION
3M4094	50 Grit 3" Radial Disc
3M7530	50 Grit 1" Bristle Disc
3M5538	Holder for 1" Bristle Disc and 3" Radial Disc
3M7524	2" Bristle Disc
3M5539	Holder for 2" Bristle Disc

CRL Folding Work Seat

- Large 12" X 12" Heavy Canvas Seat
- Strong Tubular Legs
- Compact Design

Convenience and strength are the hallmarks of the CRL Folding Work Seat. This handy, portable seat is designed to go anywhere you need a seat. Fold it up and put it in your tool chest or behind the seat of your truck. It is compact and rugged, featuring four strong, tubular alloy legs and a heavy canvas seat. The seat stands 16" high assembled, and comes with a convenient carrying strap. Great for work or leisure.

CAT. NO. CRL197

CRL Portable Windshield Stand

- Strong-Holds Up to 500 Pounds
- Lightweight-Weighs Just 16 Pounds
- Foam Padding Protects Glass
- Adjustable Height from 33" to 44"
- Assembles Easily in Minutes
- Folds to Just 4" Thick

Our New WS85 Portable Windshield Stand will support even the largest windshield or back glass while you apply your urethane adhesive and primers. Constructed of steel tubing with 1/2" foam padding on top, this lightweight yet strong stand will hold up to 500 pounds. Measures a big 40" wide, with an adjustable height from 33" to 44", and will fold to just 4" thick for easy storage. Ships economically via U.P.S., and is very easy to assemble.

CAT. NO.	DESCRIPTION
WS85	Portable Windshield Stand
FWST	Carpeted Table Top for WS85

CRL Wheel Step

- Gives Easy Access to Windshields on Large Vehicles
- Perfect for Trucks and SUV's
- Rated to 500 Pounds

The CRL Wheel Step makes it easier for you to reach windshields on large vehicles, such as pick-ups and SUV's. Simply unfold Wheel Step, hook it over the tire, and step up to work on the windshield. Wheel Step gives you a 12" to 20" boost, depending on tire size. It has a non-slip surface, and folds flat for storage.

CAT. NO. SL493

CRL Mechanix Gloves

CRL Mechanix Gloves may be most comfortable gloves you will ever work in. CRL is the exclusive distributor to the glass industry for these popular gloves. CRL stocks three models: the M-Pact, which absorb vibration and are great for use with power tools; the original Mechanix Gloves with velcro cuffs; the Fast-Fit Gloves that offer the best value with an uncompromising fit.

- The Tool That Fits Like a Glove
- Absorb Vibration from Power Tools

CAT. NO.	DESCRIPTION	SIZE
MP010	M-Pact Gloves	Large
MP011	M-Pact Gloves	X-Large
MP012	M-Pact Gloves	XX-Large

Sold only by the pair.

- Quick On and Off Elastic Cuffs

CAT. NO.	DESCRIPTION	SIZE
MFF03010	Blue Fast-Fit Gloves	Large
MFF05010	Black Fast-Fit Gloves	Large
MFF03011	Blue Fast-Fit Gloves	X-Large
MFF05011	Black Fast-Fit Gloves	X-Large

Sold only by the pair.

- The Original with Superior Fit and Feel

CAT. NO.	DESCRIPTION	SIZE
MG03010	Blue Mechanix Gloves	Large
MG05010	Black Mechanix Gloves	Large
MG03011	Blue Mechanix Gloves	X-Large
MG05011	Black Mechanix Gloves	X-Large

Sold only by the pair.

CRL Folding Windshield Stands

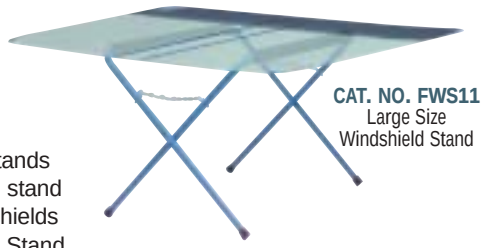
- Easily Transportable and Very Sturdy
- Now Available in Two Sizes

These easily transportable, sturdy metal stands are designed for mobile or in-shop use. Each stand provides a working platform to support windshields for sealant application. Our Large Windshield Stand measures a full 46" wide to handle today's larger cab-forward design windshields. Also available for the Regular 26-1/2" wide Windshield Stand is a 30" x 24" Carpeted Table Top to convert the stand to a portable glass cutting table.

CAT. NO.	DESCRIPTION
FWS11	Large Windshield Stand *
FWS10	Regular Windshield Stand Δ
FWST	30" x 24" Carpeted Table Top for FWS10 Δ

* Must ship common carrier. Δ Okay to ship U.P.S.

- Made by CRL in the U.S.A.



CAT. NO. FWS11
Large Size
Windshield Stand

CAT. NO. FWS10
Regular Size
Windshield Stand

CAT. NO. FWST
Carpeted
Table Top

CRL Sidewinder Tool Kit

CRL Sidewinder is the ideal tool for one man windshield wire cut-outs. Attach the powerful vacuum cup to the inside of the windshield. An aluminum swivel, riding on ball bearings, allows the swivel to follow the wire. Attached to the swivel is a spring that acts as a second person; you pull the wire, make your cut and the spring pulls the wire back so you can make another cut. Kit contains one Sidewinder Cut-Out Tool, one roll TW72 Triple Strand Braided Wire, one WS782 Wire Starter Tool, and one TWH500 Tightwire Grip.

CAT. NO. VSR73

CRL Grip-Tite Handles

- Wire Gripping Handles with Quick Wire Release

A hollowed out, wedged shaped shaft is the secret to these unique wire grips. Feed the wire through the hole in the brass wedge shaft, loop it through the hole at the top of the shaft and then back into the large plastic handle to hold the wire in place. Grip-Tite's design keeps the wire away from your fingers at any angle. Contoured handle gives you a non-slip grip. Sold only by the pair.

CAT. NO. LWH200

CRL Centerstart Wire Starter

- Pushes Wire Below Windshield at Dash Line

On many late model cars, where the urethane is far below the dash, cut-out wire can be almost impossible to start. The Wire Starter is designed to push the wire far below the dash and through the urethane. Insert the wire in the slot cut in the sharpened tip, then penetrate the urethane until tip is through the other side. Measures 13-3/8" long.

CAT. NO. PK789

CRL Long Shaft Wire Guide

The Long Shaft Wire Guide is long and narrow enough to protect the dash and interior moldings from being damaged. Run cut-out wire through the hole at the end of the tool, attach the end of the wire in the hole midway, and lock it in place with the set screw. As the tool is moved inside the vehicle, the outside person follows and cuts. Measures 11-1/8" long.

CAT. NO. DGE100

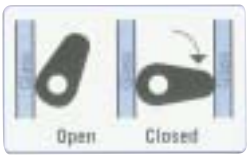
CRL Burco Redi Racks®

- **Constructed of Heavy Gauge Steel with Weather Resistant Black Powder Coat Finish**
- **All Glass Contact Areas Have Rubber Pads to Help Prevent Breakage**
- **Masts are 15" High, 3" on Center**

These new Burco Redi Racks® offer the best ride for your glass because all glass contact areas are protected by rubber pads to help prevent glass breakage. They're constructed of heavy gauge steel with a highly durable, black powder coat finish for all-weather protection and low maintenance. 5-Lite or 9-Lite models have 15" masts placed 3" on center, and each has the proprietary Finger-Lock® to hold glass snugly. Both models come with a Slick Eddy Glass Slide to ease loading and unloading of glass. Mast Extensions are also available to extend the height of individual masts to 36". 5-Lite Redi Rack® measures 18"L by 30"W by 18"H and weighs 32 pounds; 9-Lite Redi Rack® measures 30"L by 30"W by 18"H and weighs 48 pounds. Both sizes will ship U.P.S.

CAT. NO.	DESCRIPTION
S05B	5-Lite Redi Rack
S09B	9-Lite Redi Rack
EX21	Mast Extension to 36"
SE46	Slick Eddy Glass Slide

Redi Racks and accessories ship F.O.B. all CRL warehouses.



Burco Finger-Lock®

Each mast is topped by a Finger-Lock®, which has an open/close position to secure the glass in place for a more dependable hold.

The Slick Eddy Glass Slide that comes with every Redi Rack® makes loading and unloading windshields easier by reducing friction between the glass and the rubber base.

CRL Glass Truck Racks

- **Custom Built to Fit Specific Pick-Ups and Vans**
- **Lots of Available Options**

Contact CRL Customer Service for a quote on a Glass Truck Rack specially built for your pick-up or van. Lots of accessories are available so you can design the rack that's just right for your mini-, mid- or full-size truck, or full-size van. Contact CRL Customer Service for pricing.

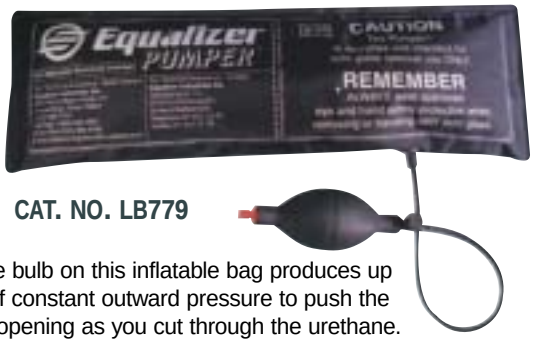
CRL Neck Saver

- **Every Auto Glass Installer Will Love 'em**

The Neck Saver helps separate the windshield from the pillars during cut-out. Especially helpful for gaining blade access near dash line when cutting out from the inside of the vehicle. Sold only in pairs.

CAT. NO. 19NS

CRL Pumper Installer's Aid



CAT. NO. LB779

Squeezing the bulb on this inflatable bag produces up to 200 pounds of constant outward pressure to push the glass out of the opening as you cut through the urethane. The Pumper is placed between the windshield and the body, and protects you from having to push out the glass with your head and shoulders. Best when used in pairs. Tough, vinyl-encased bag is made in the U.S.A.

CRL Glass Handler Kit

- Allows One Man to Set Large Windshields
- Reduces Back Strain

The CRL Glass Handler Kit is the ultimate tool for setting auto glass. Ergonomic handle design allows for easier sets without strain on arms and back. Foam elbow pad rests on hood/cowl area for pivot point which reduces strain. Step-by-step instruction video included.

CAT. NO. K1T1710

CRL Multi-Spanner™ Door Glass Tool

NEW

- Fits the Majority of Window Retainer Nuts
- Snaps on Your 1/4" Drive Socket Wrench

The MultiSpanner™ is made of a sturdy steel block. It has five different sizes and configurations of pins to fit most retaining nuts in today's vehicles. Find the size that fits, put the socket in the other side, and take the nut off. The MultiSpanner™ is designed for use with a 1/4" socket wrench with a short extension.

CAT. NO. DZ623

CRL Double Swivel Vacuum Cup

- Double Vacuum Pads for Secure Grip
- Approximately 150 Pounds of Lifting Capacity

The CRL Double Swivel Vacuum Cup is specially designed for lifting, positioning and fitting of windshields, or truck and bus side glass. Its strong plastic body has double swivel points to allow fast attachment to a wide variety of curved and flat surfaces.

CAT. NO.	DESCRIPTION
911VC	Double Swivel Vacuum Cup
RR911	Replacement Rubber Pad

CRL 6" Automotive Suction Cup

- Great Gripping Power
- An Extremely Versatile Tool

The CRL 6" Automotive Suction Cup is ideal for all those lifting jobs you have around the shop, from pulling out dents in door panels to lifting sheet metal or plastic. The steel bar handle swivels and flexes, and permits pulls with a rope or chain. A thick rubber pad gives the tool a long life and strong gripping power.

Note: Not recommended for use on automotive glass.

CAT. NO. VC81810

CRL Pin Removal Pliers

CRL's Pin Removal Pliers have five adjustable settings that will fit any "swing out" window or sunroof latch. This tool not only takes out these difficult to remove pins, but also reinstalls them.

Swing Out Window Hinges

Sunroof Latch Handles

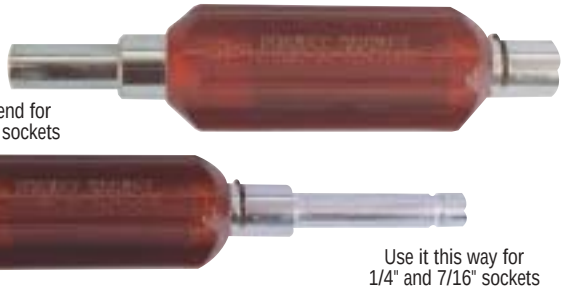
- Removes and Replaces Retaining Pins in Swing Out Side Windows and Sunroof Latch Handles

Open the jaws wide enough to fit around latch. As you close the jaws the pin pusher in the lower jaw swivels to push the latch pin in a straight line. As the jaws are brought together the latch pin is pushed out.

CAT. NO. PRT305

CRL Pocket Socket Nutdriver

- Four Socket Sizes in One Handle



Push to this end for 5/16" and 3/8" sockets

Use it this way for 1/4" and 7/16" sockets

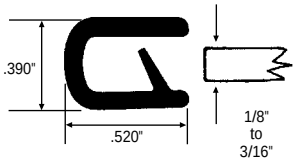
CRL's Pocket Socket is a hand held nutdriver that has four different size sockets: 1/4", 5/16", 3/8" and 7/16", all in one handle. Great for working on door panels and door glass.

CAT. NO. PS356

CRL Safety Trim

- Bright Orange Color
- Snaps on Without Fasteners or Adhesives

Use CRL Safety Trim wherever edges are a hazard. Highly visible and flexible trim snaps on to any 1/8" to 3/16" metal, fiberglass, plastic or other edge. Easy to cut and apply.



CAT. NO.	COLOR	FOOT/ROLL
75000332	Orange	100

CRL Windshield Lock Strip for Chevy/GMC

Chrome finish or all black windshield gasket Locking Strips for specific GM vehicles. Each strip is 16' 2" long, and will repair one vehicle. Strips are also available in 100 foot rolls.

CAT. NO.	COLOR	LENGTH	FITS
WLS466	Black	16'2"	Chevy/GMC Truck, Blazer and Chevette
WLS466R100	Black	100'	Chevy/GMC Truck, Blazer and Chevette
WLS848	Chrome	16'2"	1975-1985 Chevy/GMC Truck Windshields
WLS848R100	Chrome	100'	1975-1985 Chevy/GMC Truck Windshields

16'2" strips can be combined for quantity pricing.

CRL Auto Channel Chains

- The Easy Way to Select the Right Channel

Selecting the right auto glass channels, weatherstrips or push-on bulb seals is easier if you can match the part in the vehicle to a short segment with a part number. Our Auto Channel Chains make this possible, saving you the time and expense of ordering the wrong part to fit the job.

CAT. NO.	DESCRIPTION
75002500	Auto Channel Chain
75002505	Push-On Trim Seals Chain

CRL "Tree" Molding Removal Tool

- Coated Tip Won't Chip Glass

CAT. NO. RFN683

Tree moldings are often difficult to remove because the moldings lie tight against the glass. Even if you get a flat screwdriver under them, you can damage the moldings since you can't get the proper leverage to remove them. The Tree Molding Removal Tool is thin enough to fit under moldings, and wide enough so the tool will not tear them. The long curve gives you leverage to pry against the glass. The wide tip is coated so it absorbs shock and is less likely to break the glass.

CRL Swivel Tip Locking Strip Tool

- Two Double-Ended Tips to Fit Most Applications

Standard Tip

Tip Swivels 90° in Either Direction

Dodge Tip

Unique design allows tip to swivel 90° in either direction to work where others won't. Just select the tip with opening that most closely fits locking strip, and then feed locking strip into eyelet.

CAT. NO.	DESCRIPTION
L47000	Complete Tool
L47030	Dodge Tip
L47040	Standard Tip

CRL Super Scraper

- Surgically Sharp Blades Are Available in 1/2", 5/8", and 3/4" Widths

The CRL Super Scraper saves you the time it takes to stop and sharpen your scraper blades. Our blades are surgically sharp and inexpensive to replace. Use the blade until it dulls, then replace with a new one. The built-in quick blade release lets you change the blade in seconds. The CRL Super Scraper has a lightweight aluminum shaft with a flip-top handle that stores extra blades. Comes with five 1/2" wide blades and a blade cover for safety.

Blade Cover

Blades Store in Handle

CAT. NO.	DESCRIPTION
SC300	Super Scraper Tool with 5 Blades
SC301	5-Pack of 1/2" Wide Blades
SC302	5-Pack of 5/8" Wide Blades
SC303	5-Pack of 3/4" Wide Blades

CRL Slip-N-Grip® Seat Protectors

- Protect Your Customer's Seats for Pennies Each

Slip-N-Grip® Seat Protectors can save you the cost of cleaning soiled seats. Innovative and economical to use, these disposable Seat Protectors have a unique two-sided design that clings to the seat without slipping, protecting the interior of your customer's vehicles. 33" by 56" size fits virtually any seat. There are 250 large ready-to-use covers per dispenser box.

CAT. NO.	QTY./BOX
600088	250

CRL Aegis Windshield Repair Kits

• Two Great Systems for Small or Large Shops

CAT. NO. K1T1500
Advantage Kit

CAT. NO. ARK1000
Standard Professional Kit

CAT. NO. AFK1037
Long Crack Repair Kit

Aegis Professional Kits are well engineered, ruggedly built windshield repair systems made for glass professionals. They are designed to repair the four common types of windshield breaks: bull's-eye, star break, combination break, and small cracks.

The Standard Repair Kit comes in a durable carrying case, and consists of a cast aluminum repair fixture, precision engineered vacuum pressure pump with gauge, ultraviolet lamp, instructions and accessories, along with enough polymer to repair more than 90 windshields.

The Deluxe Kit also has a U.V. lamp holder, cordless drill, pit fill kit, multiple repair adaptors, and extra repair fixture. Both Deluxe and Standard Professional Kits are available in battery or 12V DC powered versions. The Aegis Advantage Kit is a compact version of the Aegis Professional Windshield Repair System. The Advantage Kit comes in its own durable carrying case and consists of a repair fixture, precision engineered vacuum pressure pump with gauge, ultraviolet lamp, instructions and all necessary accessories, along with enough polymer to repair more than 90 windshields. Aegis accessories and polymer refills are stocked in all CRL warehouses.

CAT. NO.	DESCRIPTION
ARK1000	Standard Professional Kit
ARK1001	12V. Standard Professional Kit
ARK1050	Deluxe Professional Kit
ARK1051	12V. Deluxe Professional Kit
K1T1500	Aegis Advantage Kit
AFK1037	Aegis Long Crack Repair Kit
DRL2021C	Carbide Drill Bits (Set of 10)
ADK3D	Diamond Drill Bit
ALH2025	U.V. Lamp Holder
ARK2010	Medium Viscosity Bullseye Resin (4ml)
ARK2015	Low Viscosity Bullseye Resin (4ml)
AFK2013	Aegis Small Chamber + Quad Rings
HDW3000	Mylar Squares (100/pk)

CRL Super Vac Deluxe Ultraviolet Windshield Repair System

CAT. NO.	DESCRIPTION
SVD100	Super Vac Deluxe Kit
UCH1	One Ounce Bottle Resin (25cc)
UCH12	1/2 Ounce Bottle Resin (12cc)
UV10	10 Injection Repair Kit (10cc)
UV25	25 Injection Repair Kit (25cc)
UVSTR1PS	25 Mylar Strips
CSP6	25 Pedestals
CSTR6	25 Adhesive Rings

• Includes Everything Needed to Make Professional Repairs

The Super Vac Deluxe is a complete windshield repair system that includes a glass drill and two types of UV lamps for in-shop, as well as mobile repairs. Repairs with the Super Vac Deluxe Windshield Repair System are fast. The quick mounting pedestal and resin chambers mount in seconds and are easy to load. There's no mixing, no waste, no mess. The vacuum injector and dual action valve injects a specially formulated liquid ultraviolet light curing resin to fill the entire cavity. There's never any guessing. Once the cavity is filled, the ultraviolet lamp hardens the resin in minutes. Stone damage is repaired, all distortion is eliminated, and the damage never spreads. Repairs are fast and easy.

Best of all, the Super Vac Deluxe Windshield Repair System costs much less per repair than other systems. Makes crystal clear repairs in half the time — at half the cost.

The Super Vac Deluxe Windshield Repair System comes complete with all the tools and materials you need to make up to 100 repairs in a neat, compact and portable kit. Replacement pedestals, adhesive rings, and resin can be ordered separately.

CRL Rear Defroster Connection Repair Kit

• Two Part Conductive Silver Epoxy for Reattaching Power Tabs to Rear Window Defroster Grid

CAT. NO. RDCRK

The Rear Defroster Connector Repair Kit is easy to use. Just mix equal parts of Part A Epoxy with Part B Hardener and apply with reusable applicator stir stick to rear defroster power tabs (not grids) for quick bonding. Can cure as quickly as 10 minutes, depending on temperature and volume, with full bond in 24 hours.

CRL Rear Window Grid Repair Kit

• Conductive Paint-On Repair for Scratched Rear Defroster Lines

CAT. NO. 2100RK

This CRL Rear Window Grid Repair Kit reliably repairs scratched or broken automotive defroster lines in minutes. Damaged grid traces are masked off and repaired by painting the Grid Repair Conductive Paint over the damaged area. The conductor dries quickly, and is color-matched to the defroster for nearly invisible repairs.

The kit contains of one .35 ounce bottle of conductive paint, one 36" by 1/4" roll of grid masking tape, and three cotton applicator swabs.

CRL Truck and Van Air Compressors

- Mobile Truck Size
- Gas or Electric Power Available
- Reliable Honda Engine

These Truck Bed Compressors are the perfect size for mobile auto glass trucks and vans. The Gas Compressor offers you the reliability of a 4-hp Honda engine with overhead valves, dual element air cleaner and electronic ignition. Both heavy-duty, single stage compressors feature ball bearings, splash lubrication, metal filter w/silencer, stainless steel reed valves, fan cooled and fixed rotations speed. The Electric Compressor comes with a 2-hp 3,400 RPM motor that features overload protection with manual reset. If you add the Five Gallon Portable Air Tank to your compressor you can boost the storage to 9.5 gallons of air, which will reduce the cycle times of the compressor, and provide enough air to cut out any windshield. Compressors measure 16"L by 16"W by 16"H for the electric model, and 22"L by 17"W by 17"H for the gas model.

GD1500 2-hp Electric Powered Compressor

GD4000 4-hp Gas Powered Compressor

AT05 Five Gallon Portable Air Tank

CAT. NO.	DESCRIPTION
GD4000	4-hp Gas Powered Compressor
GD1500	2-hp Electric Powered Compressor
AT05	Five Gallon Portable Air Tank

CRL Power Inverters

Use CRL ProWatt and ProSine Inverters to power vacuums, cut-out tools and other power tools required for mobile glass operations. The compact design allows these units to be mounted under the seat for security. The ProSine 1000 can be connected to the optional Cat. No. RP1800 Remote On/Off Monitor for easy access to your new power source.

Optional RP1800 Remote Monitor

The ProSine 1000 also produces a true sine wave, which is the same as you get from a wall outlet, and is required to run the Fein Knife. The ProWatt 1750 will also run all power tools not requiring a true sine wave, and comes with a remote On/Off monitor.

PW1750
1750 Watt
Inverter

- Provides 115V AC from 12V DC Source
- Quiet Power for All Power Tools
- Small Enough to Fit Under the Seat

PR01000
1000 Watt Inverter

CAT. NO.	DESCRIPTION
PR01000	ProSine 1000 Watt Inverter
PW1750	ProWatt 1750 Watt Inverter
RP1800	Remote Monitor

CRL Ultrasonic Leak Detector

- Find Leaks Quickly, Professionally
- 12 Volt Power Port Transmitter
- Wand Style Detector with Headset

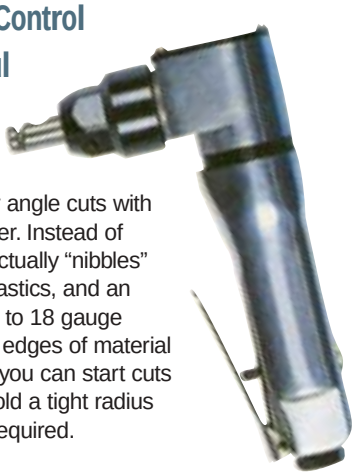
NEW

The new CRL Ultrasonic Leak Detector will provide you with the professional expertise to quickly locate wind noise and water leaks around door, sunroof and auto glass seals. This unique tool is easy to use. Just plug the Transmitter into the vehicle's power port (cigarette lighter outlet), roll up all the windows and close the doors. Place the provided Headset over your ears and rotate the two-position switch on the Detector either forward or backward to activate. You will hear a Geiger Counter type clicking in your ear to know the Detector is activated. Move the Detector around the suspected area until the beats-per-minute increases. It's just that easy to use, and inexpensive when compared to what a customer with a leaky seal can cost your business.

CAT. NO. ALB3050

CRL Heavy-Duty Air Nibbler

- Cuts Up to 18 Gauge Metal
- Easy to Operate and Control
- Efficient and Powerful
- Great for Sunroof Cut-Outs



Get a bigger bite and better angle cuts with the CRL Heavy-Duty Air Nibbler. Instead of shearing or sawing, this tool actually "nibbles" aluminum, cold rolled steel, plastics, and an assortment of other metals up to 18 gauge thickness. It will not distort the edges of material being cut, and is designed so you can start cuts in the center of a panel and hold a tight radius with great accuracy. 90 P.S.I. required.

CAT. NO.	DESCRIPTION
AK80T00L	Heavy-Duty Air Nibbler
AKRP1	Replacement Punch

CRL Bosch Unishear

- A Super Tool for Sunroof Cut-Outs
- Cuts Up to 14 Gauge Metal at 5,000 Strokes Per Minute
- Cuts Aluminum, Mild and Stainless Steel Quickly and Efficiently

The Bosch Unishear Tool is a lightweight easy-to-maneuver electric shear for mild and stainless steel, and aluminum. Small in size and well balanced, it is designed to cut up to 14 gauge metal efficiently and quickly at up to 5,000 strokes per minute. The cutting head allows full visibility of the blade so that the intended cut-out can be made precisely on the template markings. This is especially helpful when using Unishear for sunroof cut-outs, where tolerances must be exact. Unishear is double insulated for operator safety, and plugs into grounded 115V AC outlets.
Capacities – Mild Steel: 16 gauge;
Stainless Steel: 18 gauge; Aluminum: 14 gauge.

CAT. NO.	DESCRIPTION
B1500	Bosch Unishear
3607010028	Replacement Blade Set

CRL Dremel Mini-Mite Cordless Rotary Tool

- Small, Powerful and Lightweight
- Runs at 5,000 and 10,000 RPM

This small yet powerful tool for the home and shop fits right into your hand, giving you the kind of maneuverability not usually found in a rotary tool. The D750 accepts Dremel and other bits with shanks up to 1/8" diameter. Battery pack, charger and five bits included. Excellent for windshield repairs where star breaks must be drilled for injection of resin, or for rust removal on pinchwelds.

CAT. NO.	DESCRIPTION
D750	Mini-Mite Rotary Tool
*D482	1/16" Collet for DRL2021C and ADK3D Bits

*Note: 1/16" Collet required for windshield repair bits.

CRL Dremel Moto Tool Kit

- 40 Piece Bit Assortment Included
- Variable Speeds 5,000 to 30,000 RPM

The Dremel Moto Tool Kit features: Model 395 variable-speed Moto-Tool (5,000-30,000 RPM) with ball bearing motor construction to reduce friction for longer life; double insulated motor so grounding is not required; thrust bearing for greater drilling capacity; compact two wire coil cord for convenient storage in kit box. Tapered housing shape is comfortable for fingertip control. The keyless chuck allows fast replacement of bits with shanks up to 1/8". Adapter uses collets from 1/32" to 1/8" for fine control. Excellent for windshield repairs where star breaks must be drilled for injection of resin.

CAT. NO. D3950

CRL Draco Shears

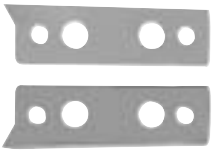
- Excellent for Sunroof or Van Window Cut-Outs
- Easily Cuts Tight Radius Corners

The CRL Draco Shear is designed to cut light to medium gauge sheet metal without distortion. This lightweight tool is an excellent choice for sunroof or van window installations. Tight radius corners are no problem for this quality tool. The cutting blade is designed so that it can cut over the top of most support bows in the roof of a vehicle.

CAPACITIES-
Sheet Metal: 19 Gauge
Stainless Steel: 24 Gauge
Non-Ferous Metal: 17 Gauge

CAT. NO. SD5
Heavy-Duty Metal Shears

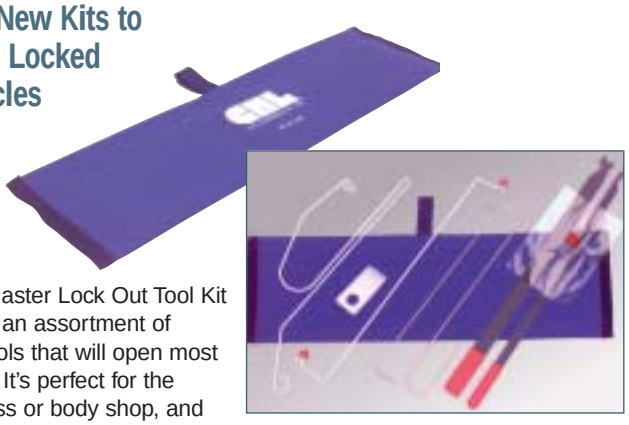
CAT. NO. SD5BL
Replacement Blade for SD5



CAT. NO. SD5JW
Jaw Set for SD5

CRL Lock Out Tool Kits

- **Two New Kits to Open Locked Vehicles**



The Master Lock Out Tool Kit contains an assortment of seven tools that will open most vehicles. It's perfect for the local glass or body shop, and includes a 60-page instruction manual that describes in detail entry methods used on a variety of vehicles.

CAT. NO.	DESCRIPTION
LK500	Master Lock Out Tool Kit

The Deluxe Lock Out Tool Kit comes in a three-fold carrying case, with 14 tools in individual slots marked for specific opening applications. Designed for the professional locksmith or glass installer, the kit includes a 60-page instruction manual that describes in detail entry methods used on a variety of vehicles.

CAT. NO.	DESCRIPTION
LK600	Deluxe Lock Out Tool Kit

CRL Booster Cables

Don't be caught with a dead battery. Our 12 foot Booster Cables are heavy 10 gauge wire with vinyl grip clamps.

CAT. NO. BC1210

CRL Auto Wire

Heavy gauge auto wire for rewiring power windows, dome lights, etc. Comes on convenient 100 foot spools.

CAT. NO.	GAUGE	FT./ROLL
AW16	16	100
AW18	18	100

CRL Krytox® High-Performance Lubricant

- **Excellent for Stopping Persistent Squeaks**
- **Insoluble in Common Solvents**
- **High Temperature Stability Up to 650°F**

CRL Krytox High Performance Lubricant is excellent for windshield molding and door squeaks, and is compatible with plastics, rubber, ceramics and metals. Krytox Lubricant is also ideal for use on machinery, tools, bearings or virtually any area where lubrication is required. Since GPL205 Lubricant is fluorinated, it can be used around chemicals, and is non-flammable. It is safe to work with in almost any application.

CAT. NO.	CONTENTS	QTY./CASE
GPL205	1/2 Fl. Oz.	12

CRL Wiper Puller

- **Easily Removes Pressure Fit Wiper Arms**

Large wiper arms are pressure fitted to posts so they will not slip. This makes it almost impossible to remove these wiper arms without breaking or damaging them, or scratching the cowl. Corroded battery terminals are an equally tough problem. This simple device removes tight fitting wiper arms and battery terminals from posts easily and in just seconds. A truly handy tool for the auto body or glass shop.

CAT. NO. L54150

CRL Cavalier/Sunfire Wiper Arm Puller

- **Prevents Breakage of Wiper Arm**
- **OEM Specific for These Vehicles**

The CRL Wiper Puller for Cavalier and Sunfire eliminates removal problems. Large wiper arms are pressure fitted to the posts, then are secured with a nut to hold the arm in place so they will not lift. This makes it almost impossible to remove these wiper arms without breaking or damaging them, or scratching the cowl. Remove the wiper nut, slide the tool over them arm until the jaws touch the wiper post, then turn the bolt clockwise until the wiper arm pops from the wiper post.

CAT. NO. J41401

CRL Multi-Purpose Emergency Escape Tool

- Safety Protection for Any Vehicle in an Emergency Situation
- Get One for Each of Your Vehicles

CAT. NO. EDMP1

CRL's Multi-Purpose Emergency Escape Tool provides every motorist a swift and effective means of escaping from a dangerous situation. Statistics show that after an accident in which the seat belts have performed their function of saving car occupant's lives, the release mechanism may no longer be accessible. In an overturned vehicle the full weight of an occupant's body on the seat belts makes them virtually impossible to release. In addition, damage to doors may mean that window frames have been wrenched out of alignment and can no longer be opened.

The EDMP1 Multi-Purpose Emergency Escape tool has a protected razor sharp retractable knife that can cut the seat belt loose in one motion, and a compact hammer with a sharp carbide steel point. The point enables the windows to be shattered if necessary for quick escape, something not easily achieved by kicking. There's even a small battery powered light built into the handle to aid in visibility. Every car should have one.

CRL Retainer Clip Insertion Tool

- Eases Clip Installation for Bonded Sliders

CAT. NO. RC1T

The CRL Retainer Clip Insertion Tool is a vast improvement over the first clip tools introduced years ago.
THE PROBLEM:
Clips have a tendency to wobble off center when placing them onto the pinchweld. The tight proximity of trim panels around the pinchweld only aggravates this condition.
THE SOLUTION: The RC1T Clip insertion Tool. The jaws of the tool are machined with recesses so proper grip depth is assured. A handle is welded on the side of the tool so articulation of the tool can be accomplished without your hand pressing against the glass of the slider. This tool securely grips the spring clip so accurate placement can be made without deflection.

CRL Rope Insert Tool for Rubber Gaskets

- Time and Effort Saving Tool for Installing Rubber Gaskets

CAT. NO. RT752

Use our Rope Insert Tool to insert the rope into the groove of rubber backlite gaskets to make the job easier than ever. The contour-grip plastic handle feeds rope through its stem as you pull it around the gasket, and has enough sturdy rope to fit around even the largest backlites or rear truck sliders. Extra handy for all installers.

CRL Slider Buddy

- Speeds Slider Installation Times
- Easy Ratchet Action Application

CAT. NO. BST1
Sold only by the pair

CRL's Slider Buddy Installation Tool will speed your installation time and cut your labor costs. Slider Buddy saves you from having another installer holding the slider in place while you apply the retainer clips on the interior. Easy to use, just insert between the cab and the bed of the truck, adjust the height to center the pads on the middle of the fixed panels, and then pump the handle until contact with the glass. Minimal pressure is required to hold the slider in place.

CRL Window Guide Pliers

- **Lets You Reuse Hard to Replace Window Guides**

There are many different window guides on today's cars, but you never seem to have the right one to replace the one you just destroyed. Window Guide Pliers were developed by an auto glass technician to save the old window guide and assist in putting it back on the new glass. The jaws are made so they will go around the window guide without damaging it, and exert the pressure on the part that snaps together. The handle is made with a slotted area that can be used to pry the plastic snap loose so you can reuse the guide. Saves you both time and money.

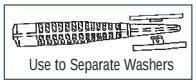
CAT. NO. JP685

CRL Window Washer Holder/Separator

This handy tool works to solve two problems. Rivets often spin while being drilled out of broken door glasses. Wedge this tool in the plastic washer to hold it while drilling out the rivet. Then insert the tool between the plastic washers to separate them without breaking. Simple and convenient.

CAT. NO. CST522

Use to Hold While Drilling


Use to Separate Washers

CRL Power Window Bypass Kit

- **Operates Power Windows Without the Ignition Key**
- **Saves Time and Effort for the Auto Glass Professional**

- **Works on Any Domestic or Imported Vehicle with Power Windows**

The Power Window Bypass Kit helps auto glass technicians replace power operated door glass with safety and control. It bypasses “express down” window switches, which are becoming more widespread on current production automobiles, and can cause injury when working within the confines of the door. It plugs into power port or attaches to battery with alligator clips, eliminating battery drain of customer’s vehicle by operating window without the key on.

CAT. NO. WBK662

CRL 10-in-1 Universal Trim Tool

- **10 Tools in One Handy, Easy to Use Tool**

- **Made in U.S.A. of Tempered Spring Steel**

CAT. NO. 21510T

- **Eliminates Many Single Application Tools You Probably Use Now**

The 10-in-1 Universal Trim Tool is a must for every auto glass installer. This handy tool does many of the jobs you normally have to do with a variety of other more expensive tools. It's made of tempered spring steel and is comfortable to hold. Why pay for an assortment of specialty tools, then try to keep track of them, when the 10-in-1 Universal Trim Tool will do it all?

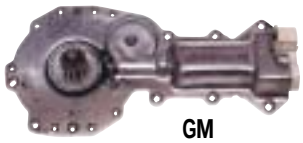
CRL Digital Auto-Range Multimeter

- **1 Millivolt to 400 Volts AC/DC**
- **Large LCD Display**
- **Shirt Pocket Size - Only 3 Ounces**
- **Features an Audible Beep for Checking Continuity**

The perfect unit to test automotive electrical circuits (power windows, defoggers), electrical instrumentation and batteries. Saves money and time by solving problems and eliminating costly repairs. Units ranges are from 1 millivolt to 400 volts AC/DC, and 0.1 to 2,000,000 ohms. Accuracy is 2 units or 2% of the reading. The Multimeter instantly displays the correct answer by automatically selecting the proper range. Four digit LCD display shows the exact resistance or voltage unit, and even indicates negative polarity with a minus sign. Comes complete with case, batteries, probes and instructions.

CAT. NO.	DESCRIPTION
CT3250	Digital Auto-Range Multimeter
1039RB	Replacement Battery 1.5V DC

CRL Power Window Lift Motors



GM MOTOR

For both driver side and passenger side doors in these GM vehicles:
Buick, Olds, Pontiac 1979-96
Cadillac, Chevrolet 1979-94
GM Light Trucks 1979-95
UNIT PACKAGE 1

Replaces 5048907, 5048908, 9341352, 14012381, 14012382, 14056095, 14056096, 20105348, 20105349, 20201150, 20201151, 20299831, 20329501, 20421231, 20435574, 20435575, 20480564, 22010457, 22010458, 22020900, 22029187, 22029188, 22029191, 22029192, 22029848, 22049766, 22121553 & 93413451

CAT. NO. CP937107

FORD MOTOR

Replaces D20Z5323394A, D3AZ5723394A, D3A5723394B, D3AZ6523394A, D7WY6523394A, D8TZ9823394A, D9BZ3623394A, D9BZ5423394A, D0AZ5323394A, D0AZ5723394A, E3A5423394A, E43Z5423394A & E5TZ1023394A

CAT. NO. CP937110

FORD MOTOR

Aerostar 1986-11/89
Bronco 1990-93
Fairmont 1980-83
LTD, Marquis 1980-89
Grenada 1980-86
Lincoln Continental 1980-83
Ranger 1985-87
Tempo, Topaz 1983+
Thunderbird, Cougar 1981-86
Light Trucks 1985-93
UNIT PACKAGE 1

Replaces D20Z5323395A, D3AZ5723395A, D3A5723395B, D3AZ6523395A, D7WY6523395A, D8TZ9823395A, D9BZ3623395A, D9BZ5423395A, D0AZ5323395A, D0AZ5723395A, E3A5423396A, E43Z5423395A & E5TZ1023395A

CAT. NO. CP937111

CRL Marson "Big Daddy™" Riveter

Replace window regulator and glass stop rivets on GM, Ford and Chrysler models with the "Big Daddy"™ Riveter. Use the provided nose piece to replace door handle rivets on Fords, Mercurys and Lincolns. 3/16" and 1/4" nose pieces for other applications are stored in the body of the tool. For those extremely narrow or tight applications you can purchase the Long Nose Piece Adapter for use with your "Big Daddy™" Riveter.

CAT. NO.	DESCRIPTION
39010	Marson "Big Daddy™" Riveter Kit
96026	3/16" Nose Piece Replacement
96027	1/4" Nose Piece Replacement
96028	Klik-Split™ Nose Piece Replacement
39009	Long Nose Piece Adapter
39010JAWS	Replacement Jaws (Set)

CAT. NO. 39010

CRL "Big Brute™" Riveter

CAT. NO. 250AH

This extra heavy-duty tool allows riveting in areas where other tools will not reach. Exerts tremendous pulling power for large rivets. Equipped with six nose pieces conveniently stored on the shock resistant, curved handles. Nose pieces set 3/32", 1/8", 5/32", 3/16" and 1/4" rivets, plus a special nose piece for inserting door handle rivets for the automotive industry.

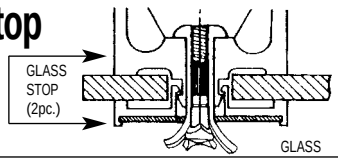
- **Tremendous Power for Large Rivets**
- **Excellent for Door Handle Rivets**

CAT. NO.	DESCRIPTION
250AH	"Big Brute™" Riveter
250AHJAWS	Replacement Jaws (Set)

CRL Auto Glass Rivets

Important Information About Automotive Rivets: Automotive Rivets used for regulator and door handle applications are the split rivet type. The stem is part of the structural strength of the rivet, and must remain in the rivet after application. Two important factors make this happen: Using the proper grip range rivet, and being sure to use the special automotive nose piece in your rivet gun. The rivet stem has serrations on it that are crimped tightly at the rivet head by the special automotive nose piece. If you use a rivet that does not fall in the proper grip range, the serrations will be below the crimping area, and when the rivet stem breaks, the stem will be propelled into the outer door panel causing a "dimple" dent. Use caution and select the proper rivet for your application.

Glass Stop Rivets

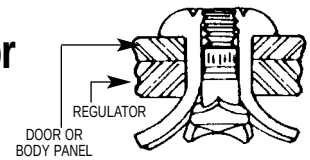


These rivets are used to secure the glass stop to the window glass.

Glass Grip Range: .520" to .620"

50/TUB **CAT. NO. 42376**
2,000/CASE **CAT. NO. 52376**

Window Regulator Rivets



These rivets are used to connect the regulator to the door or body panel.

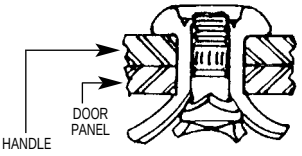
Grip Range: .032" to .140" Matches: GM 9436175; FORD 385189; CHRY 6031115

50/TUB **CAT. NO. 42371**
3,000/CASE **CAT. NO. 52371**

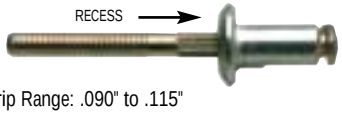
Grip Range: .140" to .187"
Matches: GM 9437486; CHRY 6032926

50/TUB **CAT. NO. 42374**
2,000/CASE **CAT. NO. 52374**

Door Handle Rivets

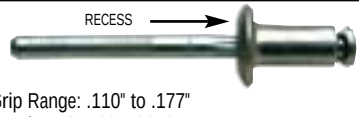


These rivets are used to mount recessed door handles to the door panel.



Grip Range: .090" to .115"
Matches: FORD 388047-S100

50/TUB **CAT. NO. 42372**
3,000/CASE **CAT. NO. 52372**



Grip Range: .110" to .177"
Matches: GM 20713843

50/TUB **CAT. NO. 42373**
2,000/CASE **CAT. NO. 52373**

CRL Window Things

• Virtually Eliminate the Need for Auto Glass Rivets in GM, Ford and Chrysler Products

Install door glass the easy way with Window Things. This handy item will virtually eliminate the need for most auto glass rivets now in use. Window Things fit Ford, GM and Chrysler products, and replace traditional snap-through or screw type retainers. Simply snap the Window Thing through hole in glass, line up carrier and insert screw. Glass breakage is almost impossible because Window Things are made of Zytel ST801 by DuPont, and have been tested in extreme heat and cold (-40°F to +170°F). Window Things are designed to be as universal as possible, and install with just a Phillips screwdriver.

Window Things are packed 50 to a package, along with 50 screws and 12 washers for installations where a spacer is required.

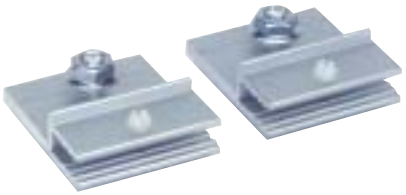
CAT. NO.	DESCRIPTION
WT50	Window Things

CRL Window Roller Nut Tool for Saturn

Window Roller Nut Tool for Saturn vehicles '91/. Not available from O.E.M.

CAT. NO.	DESCRIPTION
CP937174	Roller Nut Tool

CRL Universal Auto Glass Brackets

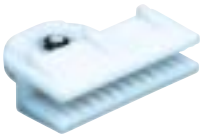


Repair any defective door glass attachment with this new, easy to use regulator bracket. For use on either foreign or domestic door glass applications.

CAT. NO.	QTY./PKG.
AGB1	1 Pair

CRL Door Window Bracket

Replaces 69951-12180. Door Window Bracket. Plastic w/M6-1.0 Threaded Steel Insert. Can be used on various import and domestic vehicles.



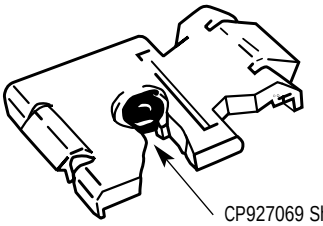
CAT. NO.	QTY./PKG.
CP937102	5

Rivet Nylon, Blind Type. M4 Hole P.R. 2.5-5.5 mm; 15 mm x 8 mm Rectangle Head; Door Weatherstrip Retainer; Saturn '91/.

CAT. NO.	QTY./PKG.
CP927041	50

3/32" Alum. Rivet; 1/8" Dia. Shoulder w/Steel Mandrel; Shoulder Length-1/8"; Flange Dia. 7/32"; Replaces Weld-On Stud for Attaching Stud Style Molding Clips to Panels.

CAT. NO.	QTY./PKG.
CP927069	50



CP927069 Shoulder Rivet In Set Position

Replaces 21093072 Blind Rivet. 1/4" Rivet w/1/2" Flange; .062-.125 Grip Range; Steel Olive Drab Rivet w/Steel Zinc Mandrel; GM Saturn '91/.

CAT. NO.	QTY./PKG.
CP947239	25

Replaces 22578214 Blind Rivet. 1/4" Rivet w/ 1/2" Flange; .086-.129 Grip Range; Steel Rivet w/Steel Mandrel; Window Regulator GM "N" Bodies '91/.

CAT. NO.	QTY./PKG.
CP947240	15

Replaces 3540146 Blind Rivet. 1/4" Rivet w/ 3/4" Flange; .060-.083 Grip Range; Steel Rivet w/Steel Mandrel; Window Channel, GM "E" Bodies and Cadillac "C" Body '93/.

CAT. NO.	QTY./PKG.
CP947241	15

Replaces No. 20465395. Blind Rivet, Super Tough Nylon; 5 mm Hole Diameter; 3-4 mm Panel Range; 9 mm Head Diameter; Window Regulator Attachments; GM/Cadillac.

CAT. NO.	QTY./PKG.
CP876311	25

Replaces 20612732. Blind Rivet, Super Tough Nylon; 4.75 mm Hole Diameter; 1.5-4.5 mm Panel Range; 9 mm Head Diameter; General Purpose; GM "A" and "C" Bodies.

CAT. NO.	QTY./PKG.
CP876312	25

Replaces 20325696 Blind Rivet. 1/8" Rivet w/5/16" Flange; .125-.187 Grip Range; Alum. Rivet, Steel Mandrel (Zinc); GM Rear Window Gasket, Various Models.

CAT. NO.	QTY./PKG.
CP947237	50

Bright Aluminum Rivet w/Aluminum Mandrel; 3/16" Rivet with 5/8" Flange; .501-.625 Grip Range for Glass Stop/ Roller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO.	QTY./PKG.
CP906792	25

Replaces 388047-S102 Rivet Blind Type (Peel-style). Black Aluminum Rivet w/Steel Mandrel; 1/4" Dia., 1/2" Flange; Grip Range .520-.620 (Outside Door Handle); Ford Products '88/.

CAT. NO.	QTY./PKG.
CP906793	25

Rivet Blind Type (Leg-Retention Style). Aluminum Rivet w/Aluminum Mandrel; 1/4" Rivet. 1/2" Flange; .120-.400 Grip Range; Window Sash and Door Lock Actuator Rod. GM "U" Vans '90.

CAT. NO.	QTY./PKG.
CP906794	15

All clips and fasteners can be combined for quantity pricing.

CRL Automotive Clips and Fasteners for Late Model Vehicles

Replaces 6002263. Windshield and Rear Window Reveal Molding Clip; Upper and Side; Chrysler and Dodge '65-'72.

CAT. NO.	QTY./PKG.
CP957418	25

Replaces 91541-SM4-003. Clip, Back Glass Side Molding; Blue Plastic (adjustable); Honda Accord '90/.

CAT. NO.	QTY./PKG.
CP987771	10

Replaces 90605-SF1-003. Clip, Rear Pillar Garnish Molding; White Plastic; Honda Prelude '88/.

CAT. NO.	QTY./PKG.
CP906769	10

Clip, Windshield Molding; White Plastic; GM Geo Storm '90/.

CAT. NO.	QTY./PKG.
CP906770	10

Replaces 6004036. Clip, Windshield and Back Glass; Black Plastic; Chrysler LeBaron Coupe '87.

CAT. NO.	QTY./PKG.
CP906786	15

Replaces 6004184. Clip, Windshield and Back Glass Molding; White Plastic; Chrysler Acclaim and Spirit '89/.

CAT. NO.	QTY./PKG.
CP906796	25

Replaces 90657-SF1-003. Clip, Back Glass Molding; Black Plastic; Honda Prelude '88-'89.

CAT. NO.	QTY./PKG.
CP906809	10

Replaces KA01-506G7. Clip, Rear Window Molding; Gray Plastic; Ford Probe '89/.

CAT. NO.	QTY./PKG.
CP906811	15

Replaces B092-50-919 and E7GZ-6142308-B. Clip, Rear Window Molding; Gray Plastic; Mazda 323 and Mercury Tracer '88/.

CAT. NO.	QTY./PKG.
CP906812	15

Replaces B093-50918. Clip, Rear Glass Molding; White Plastic; Mercury Tracer and Ford Probe '88/.

CAT. NO.	QTY./PKG.
CP906867	25

Replaces 75545-89102. Clip, Windshield Molding Chrome; L.H. and R.H. Side; White Plastic w/Center Tab; Toyota Truck '88/.

CAT. NO.	QTY./PKG.
CP906869	15

Replaces 75545-89103. Clip, Windshield Molding Chrome; L.H. and R.H. Side; White Plastic w/o Center Tab; Toyota Truck '88/.

CAT. NO.	QTY./PKG.
CP906870	15

Replaces 75547-89104. Clip, Windshield Molding Chrome; Upper R.H. Corner; White Plastic; Toyota Truck '88/.

CAT. NO.	QTY./PKG.
CP906871	10

Replaces 75547-89105. Clip, Windshield Molding Chrome; Upper L.H. Corner; Yellow Plastic; Toyota Truck '88/.

CAT. NO.	QTY./PKG.
CP906872	10

Replaces 75547-89106. Clip, Windshield Molding Chrome; Lower R.H. Corner; Black Plastic; Toyota Truck '88/.

CAT. NO.	QTY./PKG.
CP906873	10

Replaces 75547-89107. Clip, Windshield Molding Chrome; Lower L.H. Corner; Gray Plastic; Toyota Truck '88/.

CAT. NO.	QTY./PKG.
CP906874	10

Replaces 8545 50609. Clip, Windshield Molding; Black Plastic; Ford Festiva '88/.

CAT. NO.	QTY./PKG.
CP916882	15

Replaces 91524-SM4-A11. Clip, Windshield Molding Side. White Plastic; (Use w/CP906736) Honda Accord '90/.

CAT. NO.	QTY./PKG.
CP916889	15

Replaces 90604-SF1-003. Clip, Rear Window Molding; Green Plastic; Honda Prelude '88/.

CAT. NO.	QTY./PKG.
CP916891	25

Replaces LA01-50-6A9A. Clip, Windshield Molding; Brown Plastic; Mazda MPV Van '89.

CAT. NO.	QTY./PKG.
CP916892	10

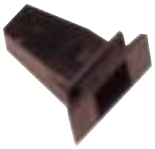
Replaces 75961-22030. Clip, Windshield Molding; Top Corner R.H. White Plastic; Toyota Cressida '88/.

CAT. NO.	QTY./PKG.
CP917000	10

All clips and fasteners can be combined for quantity pricing.

Automotive Clips and Fasteners for Late Model Vehicles

Replaces 01553-03361. Grommet, Windshield Molding Retainer; Lower Corner Molding; (Use w/CP916901). Black Plastic; Nissan Pathfinder '90/.



CAT. NO.	QTY./PKG.
CP916900	15

Replaces 01553-03371. Retainer, Windshield Molding; Lower Corner Molding; (Use w/CP916900). Black Plastic; Nissan Pathfinder '90/.

CAT. NO.	QTY./PKG.
CP916901	15

Replaces 73856-51E00. Clip, Roof Side Molding; White Plastic; Nissan Stanza '90/.

CAT. NO.	QTY./PKG.
CP916907	25

Replaces 91530-SM4-003. Clip, Rear Glass Side Molding. Brown Plastic; Honda Accord '90/.

CAT. NO.	QTY./PKG.
CP916916	10

Replaces 7634583. Clip, Rear Glass Reveal Molding; GM '66/.

CAT. NO.	QTY./PKG.
AV9275	50

Replaces 20632190. Clip, Rear Window Garnish Molding; Upper and Side; Black Plastic; GM '80/.

CAT. NO.	QTY./PKG.
CP916935	10.

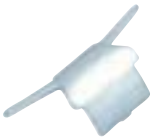
Grommet w/Sealer. Windshield Side Molding; Black Plastic; M4 Screw; Nissan Maxima '90/.

CAT. NO.	QTY./PKG.
CP916948	15

Replaces 79796-71E00. Clip, Back Glass Molding; Black Plastic; Nissan Maxima '90/.

CAT. NO.	QTY./PKG.
CP916950	25

Replaces No. 7279630P00. Clip, Windshield Molding Side; White Plastic; Nissan 300ZX '90/.



CAT. NO.	QTY./PKG.
CP916951	15

Replaces 75546-22070. Clip, Windshield Molding Top; Blue Plastic; Toyota Cressida '88/.

CAT. NO.	QTY./PKG.
CP916997	15

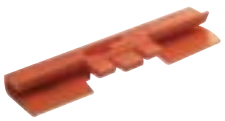
Replaces 75546-22060. Clip, Windshield Molding Side; Blue Plastic; Toyota Cressida '88/.

CAT. NO.	QTY./PKG.
CP916998	15

Replaces 75962-22040. Clip, Windshield Molding Top Corner L.H.; Yellow Plastic; Toyota Cressida '88/.

CAT. NO.	QTY./PKG.
CP916999	10

Replaces 91520-SR3-003. Clip, Windshield Molding Side; Orange Plastic; (Use w/CP927004); Honda Civic '92/.



CAT. NO.	QTY./PKG.
CP927003	15

Replaces 91520-SR3-003. Clip, Windshield Molding Side; Red Plastic; (Use w/CP927003); Honda Civic '92/.

CAT. NO.	QTY./PKG.
CP927004	15

Replaces 91511-SP0-003. Clip, Windshield Molding Side; Blue Plastic; (Use w/CP927007); Acura Legend 4 Door '91/.

CAT. NO.	QTY./PKG.
CP927006	10

Replaces 91513-SP0-003. Clip, Windshield Molding Side; Blue Plastic; (Use w/CP927006); Acura Legend 4 Door '91/.

CAT. NO.	QTY./PKG.
CP927007	10

Replaces 91528-SP0-003. Clip, Windshield Molding Side; Yellow Plastic; (Use w/CP927009); Acura Legend 2 and 4 Door '91/.

CAT. NO.	QTY./PKG.
CP927008	15

Replaces 91529-SP0-003. Clip, Windshield Molding Side; Black Plastic; (Use w/CP927008); Acura Legend 4 Door '91/.

CAT. NO.	QTY./PKG.
CP927009	15

Replaces 91512-SP0-003. Clip, Windshield Molding Upper; White Plastic; Acura Legend 4 Door '91/.

CAT. NO.	QTY./PKG.
CP927010	10

Replaces 91512-SE0-003. Clip, Windshield Washer Hose; Gray Plastic; Honda '88/.

CAT. NO.	QTY./PKG.
CP927028	10

Replaces 91579-SL4-003. Clip, Windshield Molding Upper; Black Plastic; Acura Vigor '92/.

CAT. NO.	QTY./PKG.
CP927030	25

All clips and fasteners can be combined for quantity pricing.

Automotive Clips and Fasteners for Late Model Vehicles

Replaces 91572-SL4-003.
Clip, Windshield Molding Upper; Black Plastic;
Acura Vigor '92/.

CAT. NO.	QTY./PKG.
CP927031	10

Replaces 91568-SL4-003.
Clip, Windshield Molding Side; Black Plastic;
Acura Vigor '92/.

CAT. NO.	QTY./PKG.
CP927032	15

Replaces 91567-SL4-003.
Clip, Windshield Molding Side; White Plastic;
(Use with CP927034);
Acura Vigor '92/.

CAT. NO.	QTY./PKG.
CP927033	25

Replaces 91569-SL4-003.
Clip, Windshield Molding Side;
White Plastic;
(Use w/CP927033);
Acura Vigor '92/.

CAT. NO.	QTY./PKG.
CP927034	25

Replaces 91526-SM2-004.
Holder, Rear Window;
Gray Plastic w/ Screw and Sealer;
Honda Accord Coupe '90/.

CAT. NO.	QTY./PKG.
AV18112	5

Replaces 91526-SM4-004.
Holder, Rear Window;
Black Plastic w/Screw and Sealer;
Honda Accord 4-Door '90/.

CAT. NO.	QTY./PKG.
CP927095	5

Replaces 91518-SR4-003.
Clip, Windshield Side Molding; Gray Plastic;
Honda Civic '92/.

CAT. NO.	QTY./PKG.
CP937149	10

Replaces 91519-SR4-003.
Clip, Windshield Side Molding; Blue Plastic;
Honda Civic '92/.

CAT. NO.	QTY./PKG.
CP937150	10

Replaces 75545-32020.
Clip, Windshield Molding;
White Plastic;
Toyota Camry '92/.

CAT. NO.	QTY./PKG.
CP937175	10

Replaces 91572-SV4-003.
Clip, Windshield Molding Side;
Pink Plastic;
(Use with CP927006);
Honda Accord '94/.

CAT. NO.	QTY./PKG.
CP937205	10

Replaces 91573-SV4-003.
Clip, Windshield Molding Side;
Blue Plastic;
(Use with CP927008);
Honda Accord '94/.

CAT. NO.	QTY./PKG.
CP937206	10

Replaces 91562-SV4-003.
Clip, Windshield Molding Side;
Yellow Plastic;
Honda Accord '94/.

CAT. NO.	QTY./PKG.
CP937207	5

Replaces 91574-SV4-003.
Clip, Windshield Molding Side;
White Plastic;
Honda Accord '94/.

CAT. NO.	QTY./PKG.
CP937208	5

Replaces 91576-SV4-003.
Clip, Windshield Molding R/H Corner;
Green Plastic;
Honda Accord '94/.

CAT. NO.	QTY./PKG.
CP937209	5

Replaces 91577-SV4-003.
Clip, Windshield Molding L/H Corner;
Red Plastic;
Honda Accord '94/.

CAT. NO.	QTY./PKG.
CP937210	5

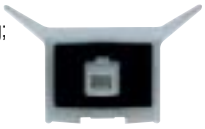
Replaces 90675-SR4-003.
Grommet Pin Retainer w/Sealer;
7 mm Hole; (Use with CP947213)
White Plastic;
Rear Window Lower Molding;
Honda Accord '94 and Civic '92/.

CAT. NO.	QTY./PKG.
CP947212	10

Replaces 90676-SR4-003.
Pin Retainer (Use with CP947212 Grommet);
Black Plastic; Rear Window Lower Molding;
12 mm HD;
Honda Accord '94 and Civic '92/.

CAT. NO.	QTY./PKG.
CP947213	15

Replaces 91537-SP0-003.
Clip, Windshield Lower Molding;
White Plastic w/Sealer;
Acura Legend '91/.



CAT. NO.	QTY./PKG.
CP947259	5

Replaces 91513-SP1-003.
Clip, Windshield Side;
Gray Plastic;
Acura Legend Coupe '91-'93.

CAT. NO.	QTY./PKG.
CP947289	10

Replaces 91528-SP1-003.
Clip, Windshield Side;
Yellow Plastic;
Acura Legend Coupe '91-'93.

CAT. NO.	QTY./PKG.
CP947290	5

Replaces 91529-SP1-003.
Clip, Windshield Side;
Brown Plastic;
Acura Legend Coupe '91-'93.

CAT. NO.	QTY./PKG.
CP947291	5

All clips and fasteners can be combined for quantity pricing.

Automotive Clips and Fasteners for Late Model Vehicles

Replaces 90601-SK7-003.
Clip, Windshield Side;
Green Plastic;
Acura Integra
3 and 4 Door '90-'93.

CAT. NO.	QTY./PKG.
CP947292	15

Replaces 90602 SK7-003.
Clip, Windshield Side;
Green Plastic;
Acura Integra
3 and 4 Door '90/.

CAT. NO.	QTY./PKG.
CP947293	15

Replaces 91525-SS0-003.
Clip, Windshield Side;
White Plastic;
Honda Prelude '92-'94.

CAT. NO.	QTY./PKG.
CP947294	15

Replaces 73155-SS0-004.
Clip, Windshield R/H Corner;
Black Plastic;
Honda Prelude '92-'94.

CAT. NO.	QTY./PKG.
CP947295	5

Replaces 73156-SS0-004.
Clip, Windshield L/H Corner;
Black Plastic;
Honda Prelude '92-'94.

CAT. NO.	QTY./PKG.
CP947296	5

Replaces 90612-SK7-003.
Clip, Windshield Side;
White Plastic;
Acura Integra '90-'93.

CAT. NO.	QTY./PKG.
CP947301	10

Replaces 91512-SP1-003.
Clip, Windshield Upper;
Brown Plastic;
Acura Legend
2 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947302	5

Replaces 90611-SK7-003.
Clip, Windshield Corner;
White Plastic;
Acura Integra '90-'93.

CAT. NO.	QTY./PKG.
CP947320	5

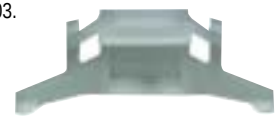
Replaces 90621-SK7-003.
Clip, Windshield Corner;
Black Plastic;
Acura Integra '90-'93.

CAT. NO.	QTY./PKG.
CP947321	5

Replaces 91514-SP0-003.
Clip, Windshield Side;
Yellow Plastic;
Acura Legend
4 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947322	5

Replaces 91526-SP0-003.
Clip, Windshield Side;
White Plastic;
Acura Legend
4 Door '91-'93.



CAT. NO.	QTY./PKG.
CP947323	5

Replaces 91536-SP0-003.
Clip, Windshield Corner;
Blue Plastic;
Acura Legend
4 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947324	5

Replaces 91535-SP0-003.
Clip, Windshield Corner;
Green Plastic;
Acura Legend
4 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947325	5

Replaces 91527 SP1-003.
Clip, Windshield Side;
Green Plastic;
Acura Legend
2 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947326	5

Replaces 91526-SP1-003.
Clip, Windshield Side;
Blue Plastic;
Acura Legend
2 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947327	5

Replaces 91514-SP1-003.
Clip, Windshield Side;
Red Plastic;
Acura Legend
2 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947328	5

Replaces 3936399.
Not Available from O.E.
(Formerly CP713515)
Windshield Reveal Molding Clip;
Corvette '68-'75.

CAT. NO.	QTY./PKG.
CP957397	25

Not Available from O.E.
Clip, Windshield Reveal
Molding;
Chrysler '68-'72

CAT. NO.	QTY./PKG.
CP957440	50

Replaces 73158-SM4-003.
Clip, Windshield Side Front;
Red Plastic;
Honda Accord 4 Door and
Station Wagon '90-'93.

CAT. NO.	QTY./PKG.
CP957487	10

Replaces 91531-SM4-003.
Clip, Windshield Upper
Front; Yellow Plastic;
Honda Accord 4 Door and
Station Wagon '90-'93.

CAT. NO.	QTY./PKG.
CP957488	10

Replaces 91532-SM4-003.
Clip, Windshield Side
Front; Gray Plastic;
Honda Accord 4 Door and
Station Wagon '90-'93.

CAT. NO.	QTY./PKG.
CP957489	10

All clips and fasteners can be combined for quantity pricing.

Automotive Clips and Fasteners for Late Model Vehicles

Replaces 90601-SK7-003.
Clip, Windshield Side;
Green Plastic;
Acura Integra
3 and 4 Door '90-'93.

CAT. NO.	QTY./PKG.
CP947292	15

Replaces 90602 SK7-003.
Clip, Windshield Side;
Green Plastic;
Acura Integra
3 and 4 Door '90/.

CAT. NO.	QTY./PKG.
CP947293	15

Replaces 91525-SS0-003.
Clip, Windshield Side;
White Plastic;
Honda Prelude '92-'94.

CAT. NO.	QTY./PKG.
CP947294	15

Replaces 73155-SS0-004.
Clip, Windshield R/H Corner;
Black Plastic;
Honda Prelude '92-'94.

CAT. NO.	QTY./PKG.
CP947295	5

Replaces 73156-SS0-004.
Clip, Windshield L/H Corner;
Black Plastic;
Honda Prelude '92-'94.

CAT. NO.	QTY./PKG.
CP947296	5

Replaces 90612-SK7-003.
Clip, Windshield Side;
White Plastic;
Acura Integra '90-'93.

CAT. NO.	QTY./PKG.
CP947301	10

Replaces 91512-SP1-003.
Clip, Windshield Upper;
Brown Plastic;
Acura Legend
2 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947302	5

Replaces 90611-SK7-003.
Clip, Windshield Corner;
White Plastic;
Acura Integra '90-'93.

CAT. NO.	QTY./PKG.
CP947320	5

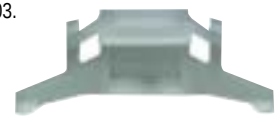
Replaces 90621-SK7-003.
Clip, Windshield Corner;
Black Plastic;
Acura Integra '90-'93.

CAT. NO.	QTY./PKG.
CP947321	5

Replaces 91514-SP0-003.
Clip, Windshield Side;
Yellow Plastic;
Acura Legend
4 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947322	5

Replaces 91526-SP0-003.
Clip, Windshield Side;
White Plastic;
Acura Legend
4 Door '91-'93.



CAT. NO.	QTY./PKG.
CP947323	5

Replaces 91536-SP0-003.
Clip, Windshield Corner;
Blue Plastic;
Acura Legend
4 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947324	5

Replaces 91535-SP0-003.
Clip, Windshield Corner;
Green Plastic;
Acura Legend
4 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947325	5

Replaces 91527 SP1-003.
Clip, Windshield Side;
Green Plastic;
Acura Legend
2 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947326	5

Replaces 91526-SP1-003.
Clip, Windshield Side;
Blue Plastic;
Acura Legend
2 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947327	5

Replaces 91514-SP1-003.
Clip, Windshield Side;
Red Plastic;
Acura Legend
2 Door '91-'93.

CAT. NO.	QTY./PKG.
CP947328	5

Replaces 3936399.
Not Available from O.E.
(Formerly CP713515)
Windshield Reveal Molding Clip;
Corvette '68-'75.

CAT. NO.	QTY./PKG.
CP957397	25

Not Available from O.E.
Clip, Windshield Reveal
Molding;
Chrysler '68-'72

CAT. NO.	QTY./PKG.
CP957440	50

Replaces 73158-SM4-003.
Clip, Windshield Side Front;
Red Plastic;
Honda Accord 4 Door and
Station Wagon '90-'93.

CAT. NO.	QTY./PKG.
CP957487	10

Replaces 91531-SM4-003.
Clip, Windshield Upper
Front; Yellow Plastic;
Honda Accord 4 Door and
Station Wagon '90-'93.

CAT. NO.	QTY./PKG.
CP957488	10

Replaces 91532-SM4-003.
Clip, Windshield Side
Front; Gray Plastic;
Honda Accord 4 Door and
Station Wagon '90-'93.

CAT. NO.	QTY./PKG.
CP957489	10

All clips and fasteners can be combined for quantity pricing.

Automotive Clips and Fasteners for Late Model Vehicles

Replaces 90687-SB0-003, 90687-SB0-013.
Rivet, Screw Type; M6 Hole Size; 2.0-6.0 mm Pan. Range; Washer Face: 13 mm;
Black Plastic; Air Scoop Grille (Cowl Vent Panel);
Honda Prelude '83/.

CAT. NO.	QTY./PKG.
CP866079	25

Replaces 91525-SE0-003
Rivet, Screw Type;
M6 Hole; Grip Range 3-7 mm;
Washer Face: 17.5 mm;
Plastic Cowl Retainer;
Honda Accord '86-'89;
Acura Vigor '92/.

CAT. NO.	QTY./PKG.
CP906749	25

Replaces 600642-SB3-003
Grommet Nut; M4 Screw;
Black Plastic w/Sealer;
Cowl Screen;
Honda Civic '84-'87.

CAT. NO.	QTY./PKG.
CP906768	10

Cowl Screen Retainer;
Black Plastic;
Hole Dia. 7/32";
Length 1-3/8";
Head Dia. 19/32";
Chevrolet Caprice '91/.

CAT. NO.	QTY./PKG.
CP906798	25

Replaces 96057846 and 09409-07308-281
Rivet, Drive Type;
(Removable) Cowl Screen Retainer;
Hole Size M6; Washer Face 15 mm;
Grip Range 2-5 mm; Black Plastic;
GM Geo Tracker and Suzuki Sidekick '89/.

CAT. NO.	QTY./PKG.
CP906806	10

Replaces 94113207.
Clip, Cowl Cover;
White Plastic;
GM Spectrum '85/.

CAT. NO.	QTY./PKG.
CP906813	15

Replaces 91501-SM4-003.
Retainer, Cowl Top;
Head Dia. 14mm;
Black Plastic;
Honda Accord '90/.

CAT. NO.	QTY./PKG.
CP916939	15

Replaces 80874-85E00.
Grommet, Cowl Grille;
White Plastic w/Sealer;
Nissan Maxima '90/.

CAT. NO.	QTY./PKG.
CP916949	15

Rivet, Screw Type Cowl Grille;
Black Plastic;
M6 Sq. Hole 8 mm x 12 mm Head;
Grip Range 5 mm - 7 mm;
Nissan 300ZX '90/.

CAT. NO.	QTY./PKG.
CP916952	25

Replaces 01553-01781.
Retainer, Cowl Grille; Black Plastic;
Hole Size 5 mm; Head Dia.: 12 mm;
15 mm O/L; Nissan 240SX '90/.

CAT. NO.	QTY./PKG.
CP916954	15

Replaces 91508-SM4-003.
Retainer, Cowl Grille; Black Plastic;
M8 Hole Size;
17 mm Head Dia;
Honda Accord '90/.

CAT. NO.	QTY./PKG.
CP916996	10

Replaces 6501699.
Nut, Cowl Screen;
Black Plastic; M7 Square Hole;
4.2 mm Screw; Chrysler Minivans and Various Cars '90/.

CAT. NO.	QTY./PKG.
CP927005	25

Replaces 66820-88E00.
Clip, Cowl Screen; Black Plastic;
(Use w/CP916949);
Head Dia. 10 mm; O/L 18 mm;
Nissan Maxima '90/.

CAT. NO.	QTY./PKG.
CP927012	25

Cowl Vent Rivet, Drive Type;
Black Plastic;
6 mm Hole;
Flange 15 mm;
P.R. 5 mm;
GM Saturn '91/.

CAT. NO.	QTY./PKG.
CP927025	25

Replaces BWOA-50-792, FICZ-5802316-A.
Grommet, Cowl Screen w/Sealer;
Gray Plastic; M10 Sq. Hole;
M4 Screw; 24 x 24 mm Face;
Ford Escort and Tracer '91/.

CAT. NO.	QTY./PKG.
CP937151	15

Not Available from O.E.
Rivet, Screw Type Cowl Screen;
Black Plastic;
Hole 1/4" Square;
15/32" Washer Face;
Chrysler LH Models '93/.

CAT. NO.	QTY./PKG.
CP937176	15

Not Available from O.E.
ROC Retainer, Cowl Screen;
Black Plastic;
Chrysler LH Models '93/.

CAT. NO.	QTY./PKG.
CP937177	15

Replaces 6502148.
Retainer, Cowl Screen;
Black Plastic;
Chrysler Minivans.

CAT. NO.	QTY./PKG.
CP937183	25

Replaces 06503336.
Retainer, Cowl Screen;
(Use w/CP947254).
Black Plastic; 1/4-20 Hole Size;
9/16" Flange; 1" O/L;
Dodge Ram Full Size Pick Up '94/.

CAT. NO.	QTY./PKG.
CP947253	15

Replaces 06503339.
Retainer, Cowl Screen
w/Torx Recess;
(Use w/CP947253); Black Plastic;
Fits 1/4-20 Stud;
Dodge Ram Full Size Pick Up '94/.

CAT. NO.	QTY./PKG.
CP947254	15

Replaces W700505S300. Grommet Nut;
Off White Plastic; 20 mm Face;
Screw Size 4.8 mm;
Hole: 11.5 x 8.2 mm;
Cowl and Various Trim Panels;
Ford Contour and Mercury Mystique '95/.

CAT. NO.	QTY./PKG.
CP957368	25

All clips and fasteners can be combined for quantity pricing.

Automotive Clips and Fasteners for Late Model Vehicles

Replaces 6034336, 6034812.
Clip, Door Panel; Fits 1/2" x 1/8" Slot;
Panel Range .050-.125; No. 6 Screw;
Chrysler LH Models '93/.

CAT. NO.	QTY./PKG.
CP957479	25

Replaces F58Z-16237A02-A.
Retainer, Door Panel;
Yellow Plastic; Hole: 5/16;
Head Dia: 1/2"; O/A Length:
15/16"; Ford Windstar '95/.

CAT. NO.	QTY./PKG.
CP967501	100

Replaces 15963179.
Clip, Door Trim Panel;
Black Plastic; Hole: 6.5 mm;
Head Dia: 14 mm; O/A Length:
23 mm; GM "S" Trucks '91/.

CAT. NO.	QTY./PKG.
CP967512	50

Replaces N811006-S.
Clip, Door Trim Panel;
White Plastic; Hole: 7 mm;
Head Dia: 6.20 x 11 mm;
O/A Length : 27.5 mm;
Lincoln Towncar '95/.

CAT. NO.	QTY./PKG.
CP967513	25

Replaces N807874-S.
Clip, Door Trim Panel, Upper;
Yellow Plastic; Hole: 7 mm;
Head: 6 x 11 mm;
O/A Length: 34.5 mm;
Lincoln Continental '95/.

CAT. NO.	QTY./PKG.
CP967514	25

Replaces N807875-S.
Clip, Door Trim Panel, Lower;
Green Plastic; Hole: 7 mm;
Head 6 x 11 mm;
O/A Length 44.5 mm;
Lincoln Continental '95/.

CAT. NO.	QTY./PKG.
CP967515	25

Replaces 6504014, 6503896.
Retainer, Door Panel;
Orange Plastic;
Hole 6.7 mm;
Chrysler Neon '95/.

CAT. NO.	QTY./PKG.
CP967521	100

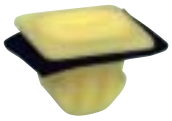
Replaces N620370-S36.
Stamped Nut M4-0.7 w/14 mm
Flange w/Sealer; 9 mm A/F;
Ford Trucks, Back and Side
Glass, General Usage.

CAT. NO.	QTY./PKG.
CP927026	50

Replaces 8799350.
Clip, Belt Molding;
Gray Plastic; Chevrolet,
Olds, Buick and Pontiac '70/.

CAT. NO.	QTY./PKG.
CP927092	50

Replaces 91536-SM4-003.
Grommet Nut W/Sealer; M4 Screw;
10 mm x 7 mm Hole;
Yellow Plastic; Roof Drip Rail;
Honda Accord '90/.



CAT. NO.	QTY./PKG.
CP916993	15

Not Available From O.E.M.
Clip, Weatherstrip;
Black Plastic;
Lincoln '89/.

CAT. NO.	QTY./PKG.
CP927013	50

Replaces 4001916.
Nylon Weatherstrip Clip;
Hole Size 5/16";
Jeep and GM Trucks.

CAT. NO.	QTY./PKG.
CP937173	50

Replaces 15647709.
Guide, Rear Side Door
Windows; Black Plastic;
GM S-10, Blazer 4 Door.

CAT. NO.	QTY./PKG.
CP927002	15

Replaces 22547112.
Rear Guide, Front Window;
Black Plastic;
GM 'J' Bodies '90/.

CAT. NO.	QTY./PKG.
CP947300	25

Not Available From O.E.M. Guide,
Front Door Window Regulator;
Plastic Guide Only,
No Stud; GM '85/.

CAT. NO.	QTY./PKG.
CP947307	5

Replaces 15953718, 15985762.
Guide, Front Door Window;
Black Plastic;
GM 'S' Series Trucks '91/.

CAT. NO.	QTY./PKG.
CP947231	15

Replaces 10087223, 10103130.
Guide, Front Door Window (Rear);
Black Plastic;
GM Corsica '87/.

CAT. NO.	QTY./PKG.
CP947232	15

Replaces 3696693, 3696691, 3744734.
Lower Channel to Glass Fastener;
GM, Ford and Chrysler Vehicles '73/;
General Purpose.

CAT. NO.	QTY./PKG.
CP947226	5

Replaces 20096585.
Retainer Window Roller Bushing;
White Plastic;
Various GM Models '82/.

CAT. NO.	QTY./PKG.
CP998059	15

Replaces 20178799.
Bushing Window Roller;
Black Plastic;
Various GM Models '82/.

CAT. NO.	QTY./PKG.
CP916975	25

Window Roller Repair Kit Contains:
CP998059 (Bushing Ret.),
CP916975 (Bushing) and
CP845813 (Rivet);
Various GM Models '82/.

CAT. NO.	QTY./PKG.
CP998060	10

All clips and fasteners can be combined for quantity pricing.

Automotive Clips and Fasteners for Late Model Vehicles

Rear Hood Seal Retainer;
Black Nylon;
Head Dia: 3/4";
Stem Length: 1-3/8";
Fits Into 3/16" Hole;
GM '83/.

CAT. NO.	QTY./PKG.
AV14036	25

Vent Grill Panel Retainer;
Head Dia: 19/32";
Stem Length: 3/4";
Fits Into 1/8" Hole;
Various GM.

CAT. NO.	QTY./PKG.
AV15367	50

Retainer, Black Nylon;
Door Window Glass
To Regulator Nut;
Ford Contour and Mystique.

CAT. NO.	QTY./PKG.
AV19280	5

Windshield Setting Block;
For use on vehicles
without support brackets;
80 durometer neoprene.

CAT. NO.	MIN. ORDER
SB586	100

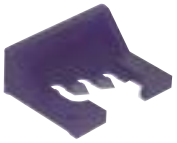
Replaces 20353101.
Not Supplied by O.E.M.
Windshield Supports;
Black Plastic;
Five Hole Adjustment;
GM.

CAT. NO.	QTY./PKG.
CP937138	10

Replaces 20353101.
Windshield Support;
Black Plastic;
Two Hole Adjustment;
GM '77/.

CAT. NO.	QTY./PKG.
CP855939	50

Replaces 20173225.
Adjustable Windshield
Setting Block;
Black Plastic;
GM 'B' Bodies '80/.



CAT. NO.	QTY./PKG.
CP855889	50

Replaces 951519-SP0-033.
Upper Molding Clip;
White Plastic;
Acura Legend '91/.

CAT. NO.	QTY./PKG.
CP957485	10

Replaces 90677-SD2-003.
Quarter Glass Molding Clip;
White Plastic;
Acura Integra '86-'89.

CAT. NO.	QTY./PKG.
CP967510	5

Replaces 91524-SP0-003.
Rear Upper Molding Clip;
White Plastic;
Acura Legend '91-'95.

CAT. NO.	QTY./PKG.
CP967533	10

Replaces 91513-SP1-003.
Upper Molding Clip;
Gray Plastic;
Acura Legend '91-'95.

CAT. NO.	QTY./PKG.
CP967534	5

Replaces 91511-SR2-004.
Front Side Clip;
Yellow Plastic;
Honda Civic '93/.

CAT. NO.	QTY./PKG.
CP967535	5

Replaces 091572-SV2-003.
Front Side Clip;
White Plastic;
Honda Accord '94/.

CAT. NO.	QTY./PKG.
CP967536	10

Replaces 6502991.
Door Trim Clip; Yellow Plastic;
Hole Dia: 7.5 mm; O/L: 32.5 mm;
Mid Head Dia:16 mm;
Chrysler Sebring '96;
Jeep Cherokee '93/.

CAT. NO.	QTY./PKG.
CP967547	25

Replaces W701649-S.
Cowl Retainer;
Black Plastic;
Stem Length: 25 mm;
Head Dia: 14 mm;
Ford Taurus, Sable '96/.

CAT. NO.	QTY./PKG.
CP987806	50

Replaces 10262143.
Cowl Retainer; Black Plastic;
Fits 5 mm Stud;
Washer Dia: 20 mm; 10 mm A/F;
GM "W" Bodies '96/.

CAT. NO.	QTY./PKG.
CP967563	25

Replaces 10158124.
Interior Trim Retainer;
White Plastic; Hole: 7 mm;
Head Dia: 13 mm;
O/L: 31 mm; GM '92/.

CAT. NO.	QTY./PKG.
CP967579	25

Guide; Front and Rear
Door Window;
White Plastic;
Saturn '96/.

CAT. NO.	QTY./PKG.
CP967597	5

Replaces 2495701. Front and Rear
Peel Type Aluminum
Rivet/Steel Mandrel;
Hole: M5; Head: 9.8 mm;
Grip Range: 11-13 mm;
GM "W", "V" & "Y" Body '88/.

CAT. NO.	QTY./PKG.
CP967599	25

Replaces 9838109.
Clip, Door Peak Molding
and Body Side Molding;
(Formerly CP743955);
GM '71/.

CAT. NO.	QTY./PKG.
CP967615	25

Replaces 10287971, 15600382.
Door Panel Retainer; White Plastic;
Hole Dia: M7, O/L 20 mm;
Head Dia: 18 mm, P.R. 2-7 mm;
GM "U" & "W" Bodies '97.

CAT. NO.	QTY./PKG.
CP977621	50

All clips and fasteners can be combined for quantity pricing.

Automotive Clips and Fasteners for Late Model Vehicles

Replaces 10285935.
Door Panel Retainer; White Plastic;
Hole Dia: M7; O/L 30 mm;
Head Dia: 18 mm;
GM; "U", "W" & "Y" Bodies '97/.

CAT. NO.	QTY./PKG.
CP977622	50

Replaces 15986343.
Door Trim Panel Retainer;
Gray Plastic; Hole Dia: M7;
O/L: 35 mm; Head Dia: 19 mm;
Stem Lgth: 32 mm;
GM "M" Vans '94/.

CAT. NO.	QTY./PKG.
CP977623	25

Replaces 15694099.
Rear Door Trim Panel Retainer;
White Plastic; Hole Dia: M7;
O/L: 35 mm; Head Dia: 13 mm;
Stem Lgth: 30 mm;
GM "M" Vans '94/.

CAT. NO.	QTY./PKG.
CP977624	25

Not Supplied By O.E.
Clip, Door and Quarter Glass Channel;
Green Metal; (Formerly SC3166);
GM Cars.

CAT. NO.	QTY./PKG.
CP977664	50

Replaces 20369894.
Guide, Front Door Regulator;
(Formerly CP855988);
Right Side;
GM "C" & "N" Bodies '85/.

CAT. NO.	QTY./PKG.
CP977666	2

Replaces 20369895.
Guide, Front Door Regulator;
(Formerly CP855989);
Left Side;
GM "C" and "N" Bodies '85/.

CAT. NO.	QTY./PKG.
CP977667	2

Replaces 3538281.
Cowl Vent Retainer;
Black Rubber;
Hole Dia: M7; Head Dia: 25 mm;
GM, Cadillac '97.

CAT. NO.	QTY./PKG.
CP977678	10

Replaces 4658673, 10293674.
Door Weatherstrip Clip;
Black Plastic; Hole: M5;
Stem Length: 15.5 mm;
Head Dia: 10 mm;
Neon '95/& GM

CAT. NO.	QTY./PKG.
CP977686	50

Replaces 75546-12060.
Windshield Side Molding Clip;
White Plastic;
Toyota Corolla Sedan
and Wagon '88-'92.

CAT. NO.	QTY./PKG.
CP977711	15

Replaces E0AZ-5442487-A.
Back Glass Retainer;
Lower Molding;
Black Plastic;
Ford '80/.

CAT. NO.	QTY./PKG.
CP977736	15

Replaces 91519-SR3-003.
Windshield Molding Side Clip;
Green Plastic;
Honda Civic 2, 3 and 4
Door '92-'95.

CAT. NO.	QTY./PKG.
CP977738	10

Replaces 91521-SR3-003.
Windshield Molding Side Clip;
Purple Plastic;
Honda Civic 2, 3 and 4
Door '92-'95.

CAT. NO.	QTY./PKG.
CP977739	10

Replaces HG30-50-6B9A.
Windshield Molding Clip;
Front and Rear;
Brown Plastic;
Mazda 929 '92-'95.

CAT. NO.	QTY./PKG.
CP977740	10

Replaces HG30-50-609.
Windshield Side Molding Clip;
White Plastic;
Mazda 929 '92-'95.

CAT. NO.	QTY./PKG.
CP977741	10

Replaces MB880455.
Windshield Molding Clip;
Light Blue Plastic;
Mitsubishi Montero '92-'95.

CAT. NO.	QTY./PKG.
CP977742	10

Replaces 75545-24030.
Windshield Top Molding Clip;
White Plastic;
Lexus SC300,
400 '92-'95.

CAT. NO.	QTY./PKG.
CP977743	10

Replaces 75545-32040.
Windshield Side Molding
Clip; White Plastic;
Lexus ES300 '92-'95.

CAT. NO.	QTY./PKG.
CP977744	10

Replaces 75961-32050.
Windshield Corner Molding
Clip; Black Plastic;
Lexus ES300 '92-'95.

CAT. NO.	QTY./PKG.
CP977745	10

Not Supplied By O.E.
Power Window Regulator Gear;
2-1/2" O.D. Nylon Gear Only;
Use with Cat. No.6437 Bushings;
Ford '89/.

CAT. NO.	QTY./PKG
CP977746	1

CRL Window Motor Bushing Kits

This kit contains three high density polyethylene bushings to replace worn bushings in power window motors used in many domestic cars and trucks. It's a simple repair that saves the cost of replacing an entire motor or gear. One kit repairs one motor.

Cat. No. 6437
Bushing Kit

Motors and Gears
Not Included

All clips and fasteners can be combined for quantity pricing.

Automotive Clips and Fasteners for Late Model Vehicles

Replaces OEM 10082288.
Front Door Window Molding Retainer for Cars w/Vinyl Top;
'87+ GM Corsica.

CAT. NO.	QTY./PKG.
CP916987	25

Replaces OEM 21218415.
Rear End Belt Molding Clip for Cars w/Vinyl Tops;
'81-'88 Olds, Cutlass "G" Body.

CAT. NO.	QTY./PKG.
CP947227	15

Replaces OEM 72727-W1000.
Windshield Molding Clip;
Nissan

CAT. NO.	QTY./PKG.
AV15470	15

Replaces OEM 5208776,4006529.
Headliner Fastener; 3/16" Hole, 3/4" Head;
Panel Range 3/32"-13/32";
(Formerly CP866143);
'84-'88 Chrysler/AMC.

CAT. NO.	QTY./PKG.
CP987807	50

Window Regulator Roller.
Diameter: 11/16"; Thick: 7/32";
Stud Diameter: 196"; Length: 1/8";
GM General Use.

CAT. NO.	QTY./PKG.
CP987818	5

Not Supplied By O.E.
Roller, Quarter Window Channel; Roller Diameter 1";
Stud 1/4-20" x 1/2";
'67 + GM Compact & Chevelle.

CAT. NO.	QTY./PKG.
CP987820	5

Replaces CP693270, CP703358;
Regulator Roller Front and Rear Window;
Stud 1/4"-20 x 1/2"; Roller 1" Diameter;
11/32" Thickness;
'69-'74 GM Sport Coupe Conv.

CAT. NO.	QTY./PKG.
CP987843	5

Replaces RK133.
Regulator Roller;
'57-'66 GM, '63-'66 AMC

CAT. NO.	QTY./PKG.
CP987885	15

Replaces RK171.
'57-'56 GM Suburban Rear Power Window;
'63-'65 AMC Regulator Roller Kit;
1-Roller, 1-Rivet.

CAT. NO.	QTY./PKG.
CP987886	10

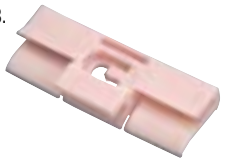
Replaces OEM 10142872.
Front Door Glass Guide;
(Formerly CP906758);
1990+ GM "A" Body.

CAT. NO.	QTY./PKG.
CP998031	10

Replaces OEM 48796498.
Door Weatherstrip Fastener;
M45 Hole; 5 x 13 mm Head;
Panel Range 6 mm;
All '63+ GM, '65+ Ford.

CAT. NO.	QTY./PKG.
CP998033	50

Replaces OEM 91525-SM4-003.
Windshield Molding Clip;
(Use with CP916889);
'90+ Honda Accord.



CAT. NO.	QTY./PKG.
CP998046	10

Replaces CP733904.
Door Glass Assembly Washer for Use with Nut and Bolt (Not Supplied);
'66-'76 Ford, Chrysler and GM.

CAT. NO.	QTY./PKG.
CP998047	10

Replaces OEM 10064327, 20681617.
Cowl Screen Fastener;
M7 Hole;
15 mm Head;
2-5 mm Panel Range;
'87+ GM Fiero.

CAT. NO.	QTY./PKG.
CP998069	25

Replaces OEM 91534-SM4-003.
Clip, Windshield Molding,
'90+ Accord, '91+ Acura.

CAT. NO.	QTY./PKG.
AV17282	10

Replaces OEM 6003426.
Clip, Windshield Molding;
'73+ Chrysler.

CAT. NO.	QTY./PKG.
AV11427	100

Replaces OEM F5RZ 5421416B.
Door Glass to Regulator Plastic Nut and Bolt Assembly;
'95+ Ford.

CAT. NO.	QTY./PKG.
AV19281	2

Replaces OEM 6003878.
Molding Clip, Windshield and Back Glass; Metal Clip with Plastic Shroud;
'84+ Chrysler "K" Cars.

CAT. NO.	QTY./PKG.
AV13567	25

All clips and fasteners can be combined for quantity pricing.

CRL Automotive Fasteners

Our selection of Automotive Fasteners includes hundreds of items for vehicles back to the 1950's.
If you don't see what you need here, see pages 156-186 of the CRL "Big Red" Master Catalog.
You can also call the CRL Automotive Technical Center at (800) 732-7663 for assistance.
Ask for Extension 789.

Automotive Clips and Fasteners for Late Model Vehicles

Replaces OEM 9427977. Phillips Flat Top Washer Head Screw, #10 x 3/4"; Washer Head O.D. 15/32"; Chrysler.

CAT. NO.	QTY./PKG.
AV13709	50

Replaces OEM 20429451. Door Trim Panel Fastener; '84/ GM Fiero.

CAT. NO.	QTY./PKG.
AV13992	25

Phillips Flat Top Washer Head Tapping Screw, #8 x 1/2"; Washer Head O.D. 13/32"; Zinc.

CAT. NO.	QTY./PKG.
AV14859	100

Phillips Low Profile Round Washer Head with #2 Teks Point, #8 x 1/2"; Washer Head O.D. 23/64"; Zinc.

CAT. NO.	QTY./PKG.
AV15171	100

Phillips Low Profile Round Washer Head with #2 Teks Point, #8 x 1/2"; Washer Head O.D. 13/32"; Zinc.

CAT. NO.	QTY./PKG.
AV15172	100

Replaces OEM 1689827. Phillips Washer Head #8 x 1/2"; Tek Point 7/16" O.D.; Zinc; GM Molding to Panel.

CAT. NO.	QTY./PKG.
AV12095	50

Phillips Oval Washer Head Screw, #8 x 3/8"; 3/8" O.D; for Wheel Opening Moldings; Zinc; Ford.

CAT. NO.	QTY./PKG.
AV10642	100

"Snap On" Style Mirror Bracket; '96+ Chrysler, GM.

CAT. NO.	QTY./PKG.
CP957478	10

Mirror Bracket Adapter; Black Plastic; Slips Over GM Wedge Style Bracket to Allow Mounting of Mirrors with Standard Bracket.

CAT. NO.	QTY./PKG.
700006	10

Phillips Washer Head Screw, #8 x 7/16"; Washer Head O.D. 3/8"; Zinc.

CAT. NO.	QTY./PKG.
AV2805	100

Phillips Pan Head Tapping Screw, #10 x 5/8"; Zinc.

CAT. NO.	QTY./PKG.
AV2808	100

Phillips Oval Head Tapping Screw, #4 x 3/4"; Chrome.

CAT. NO.	QTY./PKG.
AV3069	100

Phillips Pan Head Tapping Screw, #8 x 1"; Zinc.

CAT. NO.	QTY./PKG.
AV3079	100

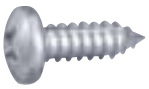
Phillips Pan Head Tapping Screw, #10 x 1; Zinc.

CAT. NO.	QTY./PKG.
AV3082	100

Phillips Oval Head Tapping Screw, #12 x 1"; Zinc.

CAT. NO.	QTY./PKG.
AV3086	100

Phillips Pan Head Tapping Screw, #14 x 1/2"; Zinc.



CAT. NO.	QTY./PKG.
AV3089	100

Phillips Pan Head Tapping Screw, #14 x 3/4"; Zinc.

CAT. NO.	QTY./PKG.
AV3090	100

Spring Type Washers, Grade 5; 1/4" ID; Zinc.

CAT. NO.	QTY./PKG.
AV5720	200

All clips and fasteners can be combined for quantity pricing.

CRL Sample Service

Need a replacement clip, fastener, molding or weatherstrip for a certain vehicle, but haven't been able to find it? CRL can help! We have numerous sources for auto glass replacement parts. Contact the CRL Automotive Technical Sales Department at (800) 421-6144, Ext 789, and let us know what you're looking for. You may also send a sample of what you need to: CRL Automotive Technical Sales, 2503 E. Vernon Avenue, Los Angeles, CA 90058. We'll do our best to help you find the right part.

1/8" x 3/4" x 25' Sponge Rubber Weatherstrip Material.

CAT. NO.	QTY.
AV19341	25 Foot Roll

CRL "Perfect Fit" Flexible Flange Sliders

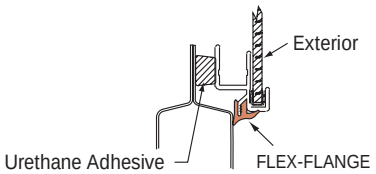
Another First for CRL-
Next Generation Truck Sliders for 2002 and Beyond

CRL is again re-inventing the truck slider market with the newest in slider design. New "Perfect Fit" Sliders with the Exclusive Flexible Flange represent a huge step forward in truck slider design and function. It offers you a no-nonsense, trouble free, customer satisfied fit every time. Guaranteed.

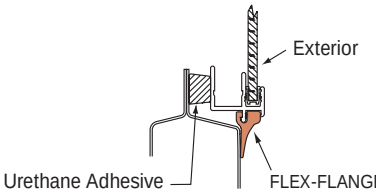
- **Available in Both Manual Tri-Vent and Electrically Operated POWR-Slider Models**
- **Choice of Glass Colors for Most Models**

Sliders Now

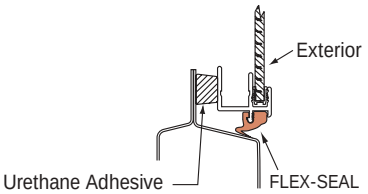
Flex-Flange Design for Chevy/GMC Silverado/Sierra



Flex-Flange Design for Dodge Ram, Dakota, Chevy/GMC "S' Series and Toyota Tundra

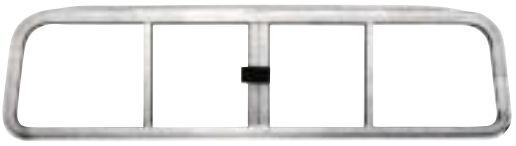


Flex-Flange Self-Centering Frame Design for New 2002 Dodge Ram 1500



Not only has the exterior design of sliders been updated for the 21st Century, but CRL has also made installations easier. CRL has added bend-over tabs on the interior side of the frame for fast, easy alignment to the pinchweld, and to hold the slider in place for the urethane bond to cure. This speeds up the installation time, and makes for a trouble-free installation. Another first from CRL, the leader in slider technology.

Sliders Then

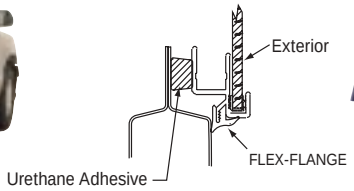


If you follow the transition that truck sliders have made through the last 30 years it's hard to believe the changes. Today's truck sliders are a completely different product than that of their predecessors. The original slider was designed more for ventilation into unairconditioned cabs than for style. These sliders had heavy aluminum frames, filler strips, and flat clear tempered glass. Wide vertical stiles and interlocks made these sliders look almost bulletproof. If you see a truck on the road today with one of these old sliders, you can really notice the difference when compared with current model sliders with their slim lines, smooth powder-coated frames and dark curved glass panels.

CRL has always been an innovator in truck sliders, leading the market in new designs, and offering the most complete line in the world. Innovation has brought the truck slider of yesterday to the 21st Century, and CRL carries the torch with the introduction of our new line of "Perfect Fit" Sliders.

CRL "Perfect Fit" Sliders

1999+ Chevy/GMC Silverado/Sierra



FRAME CROSS SECTION

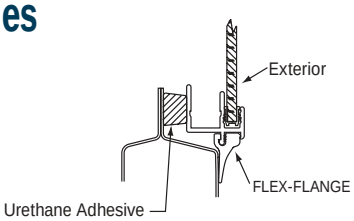
See page F410 for the complete selection of Chevy/GMC Sliders

Perfect Fit Sliders are available in both manual Tri-Vent and Electric POWR-Slider models for current Chevy/GMC full-size and mid-size trucks. Contoured extruded frames with Flex-Flange technology, silk screened curved glass, and our Exclusive Self-Locking Latch (on Tri-Vent models) are features that make CRL Sliders for Chevy/GMC trucks the best you can install.

1999+ CHEVY/GMC SILVERADO/SIERRA

CAT. NO.	MODEL	GLASS
EPC899S	Perfect Fit POWR-Slider	Solar Privacy
ECT899S	Perfect Fit Tri-Vent	Solar Privacy
ECT899LT	Perfect Fit Tri-Vent	Light Tint
ECT899B	Perfect Fit Tri-Vent	Clear

1994+ Chevy/GMC "S" Series



FRAME CROSS SECTION

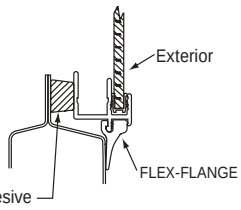
1994+ "S" SERIES

CAT. NO.	MODEL	GLASS
EPC894S	Perfect Fit POWR-Slider	Solar Privacy
ECT894S	Perfect Fit Tri-Vent	Solar Privacy
ECT894LT	Perfect Fit Tri-Vent	Light Tint
ECT894B	Perfect Fit Tri-Vent	Clear

CRL "Perfect Fit" Sliders

1994-2001 Dodge Ram All Cabs
1995-1997 Dodge Ram Extended Cab
2002-2003 Dodge Ram 2500/3500

See page F411 for the complete selection of Dodge Sliders



FRAME CROSS SECTION

2002+ Dodge Ram 1500

Perfect Fit Sliders for the full-size Dodge Ram have Flex-Flange technology built into their contoured extruded frames. All models feature silk screened curved glass, and our Exclusive Self-Locking Latch makes securing our manual Tri-Vents a simple, one-handed operation. For the deluxe treatment, there's the electrically powered POWR-Slider, the ultimate in slider luxury and convenience for all Ram owners.

1994-2001 DODGE RAM ALL CABS; 2002-2003 2500/3500 CABS

CAT. NO.	MODEL	GLASS
EPC904S	Perfect Fit POWR-Slider	Solar Privacy
ECT904S	Perfect Fit Tri-Vent	Solar Privacy

1995-1997 DODGE RAM EXTENDED CAB*

CAT. NO.	MODEL	GLASS
EPC944S	Perfect Fit POWR-Slider	Solar Privacy
ECT944S	Perfect Fit Tri-Vent	Solar Privacy

* Supplied with Interior Shroud.

2002+ DODGE RAM 1500

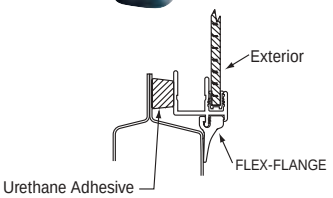
CAT. NO.	MODEL	GLASS
EPC924S	Perfect Fit POWR-Slider	Solar Privacy
ECT924S	Perfect Fit Tri-Vent	Solar Privacy
ECT924LT	Perfect Fit Tri-Vent	Light Tint
ECT924B	Perfect Fit Tri-Vent	Clear

CRL "Perfect Fit" Sliders

1997+ Dodge Dakota

- Curved Glass in Three Tint Options
- Flex-Flange Design Curved Profile Frame Matches Body Contours
- Pre-Attached Tabs for Easy Installation
- Exclusive Self-Locking Latch on Tri-Vent
- One Touch Electric Operation on POWR-Slider

The Dodge Dakota is a hit with truck owners, and CRL makes manual and electric sliders built exclusively for it. Contemporary features such as silk screened curved glass, contoured extruded frames, pre-attached installation tabs, and hidden weep holes make this the best slider for the Dakota. Exclusive Flex-Flange Frame assures a "Perfect Fit" every time.



FRAME CROSS SECTION

1997+ DODGE DAKOTA

CAT. NO.	MODEL	GLASS
EPC410S	Perfect Fit POWR-Slider	Solar Privacy
ECT410S	Perfect Fit Tri-Vent	Solar Privacy
ECT410LT	Perfect Fit Tri-Vent	Light Tint
ECT410B	Perfect Fit Tri-Vent	Clear

See page F411 for the complete selection of Dodge Sliders

CRL Sliders

1986-1997 Ranger Super Cabs
1994-1997 Mazda Cab Plus
1998-2003 All Ranger and Mazda Cabs

- Three Panel and Four Panel Models for Standard and Super Cabs
- Four Glass Color Choices, Including Solar Privacy
- Bonded Models Feature Black Silk Screen Frit

See page F411 for the complete selection of Ford Sliders

CRL manufactures sliders in the most popular frame styles and glass colors for the Ford Ranger and Mazda, giving you the product depth you need to answer all your customer requests. Three panel and four panel sliders, along with our patented POWR-Slider, will cover just about any Ranger or Mazda owner's needs.

1986-1997 RANGER SUPER CABS; 1994-1997 MAZDA CAB PLUS; 1998-2003 ALL RANGER AND MAZDA CABS

CAT. NO.	MODEL	GLASS
EPS965S	POWR-Slider	Solar Privacy
EPS965SQ ▲	POWR-Slider	Solar Privacy
ETRV965S	3-Panel Tri-Vent	Solar Privacy
ETRV965BT	3-Panel Tri-Vent	Dark Tint
ETRV965LT	3-Panel Tri-Vent	Light TInt
EDV965BT	4-Panel Duo-Vent	Dark Tint
EDV965B	4-Panel Duo-Vent	Clear

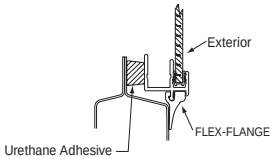
▲ 1999+ Ranger Quad Cab Models

CRL "Perfect Fit" Sliders

1999+ Toyota Tundra

See page F413 for the complete selection of Toyota Sliders

As one of the most popular imported trucks, the Toyota Tundra also deserves our "Perfect Fit" Sliders. They are available in both Tri-Vent and POWR-Slider with solar privacy glass and fully contoured Flexible Flange Frame.



FRAME CROSS SECTION

1999+ TOYOTA TUNDRA

CAT. NO.	MODEL	GLASS
EPC1550S	Perfect Fit POWR-Slider	Solar Privacy
ECT1550S	Perfect Fit Tri-Vent	Solar Privacy

CRL "All Glass Look" Sliders

1997+ Ford F-150/250
2002+ Lincoln Blackwood

- "All Glass Look" O.E.M. Style and Appearance
- Deluxe Curved Glass with Bolt-in Installation
- Tri-Vent Available in Three Glass Shades
- Electric POWR-Slider has Solar Privacy Glass
- Close-Fitting Tolerance Ensures "Gap-Free" Fit

See page F411 for the complete selection of Ford Sliders

CRL's 1997+ F-Series Sliders offer our exclusive "All Glass Look", and feature curved glass technology, black silk screen frit edges, and bolt-in installation–just like the original factory backglass! Our popular Tri-Vent model has our Exclusive Self-Locking Latch, or choose the famous electric POWR-Slider, with a dashboard-mounted switch for safety and convenience. This slider is also the perfect choice for the 2002+ Lincoln Blackwood.

'97+ FORD LIGHT-DUTY TRUCKS AND 2002+ LINCOLN BLACKWOOD

CAT. NO.	MODEL	GLASS
EPC990S	Deluxe POWR-Slider	Solar Privacy
ECT990S	Deluxe Tri-Vent	Solar Privacy
ECT990LT	Deluxe Tri-Vent	Light Tint
ECT990B	Deluxe Tri-Vent	Clear

CRL Sliders for 1999+ Ford Super-Duty F-Series Trucks

Ford's Super-Duty F-Series Truck has the largest backglass of any pickup, and CRL has the perfect sliders to replace the O.E.M. glass. Our Deluxe manual Tri-Vents and electric POWR-Sliders feature curved solar privacy glass surrounded by an extruded black finish frame that fits the original gasket without modifications. The manual Tri-Vent has our Exclusive Self-Locking Latch, while the famous POWR-Slider features the convenience and security of electric operation. Note: these sliders will only fit Ford's F-250SD, F-350SD, F-450SD and F-550SD trucks. For F-150 and F-250 Light-Duty models, see our New "All-Glass Look" Sliders above. Note: WBL450 gasket included with POWR-Slider.

1999+ FORD SUPER-DUTY F-SERIES

CAT. NO.	MODEL	GLASS
PSC998S*	Deluxe POWR-Slider	Solar Privacy
TRC998S	Deluxe Tri-Vent	Solar Privacy

*Gasket Included.

- Curved Solar Privacy Glass
- Exclusive Self-Locking Latch on Deluxe Tri-Vent
- Available in Both Electric POWR-Slider and Manual Tri-Vent Models

CRL Sliders for 1998+ Nissan Frontier

- Manual Model Features Three Glass Shades
- Sleek Frame Gives Almost 100% Rear Visibility
- Pre-Attached Tabs for Easy Installation

The Frontier is Nissan's first redesign of their pickup since 1986. It's a great truck, and CRL has the great sliders to go with it! Features include bonded installation, sleek powder-coated aluminum frame, and our Exclusive Self-Locking Latch on Tri-Vent Models. Once again, CRL is your first choice in sliders!

1998+ NISSAN FRONTIER

CAT. NO.	MODEL	GLASS
EPS660S	POWR-Slider	Solar Privacy
ETRV660S	3-Panel Tri-Vent	Solar Privacy
ETRV660LT	3-Panel Tri-Vent	Light Tint
ETRV660B	3-Panel Tri-Vent	Clear

See page F412 for the complete selection of Nissan Sliders

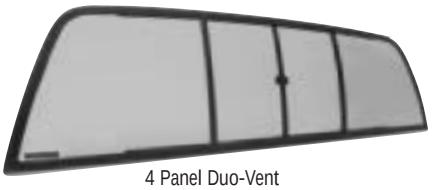
- Exclusive Self-Locking Latch on Tri-Vent
- Electric Switch Operation on POWR-Slider

CRL Truck Slider Catalog Numbers Explained

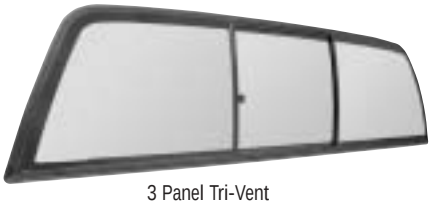
CRL's Catalog Numbers are meant to help you determine the slider configuration and installation type. See the chart below for explanations that will assist with your orders and installations. Starting with older sliders and working towards the newer products, you will see how easy it is to know what you are ordering, plus what tools and products will be required.

DESIGNATIONS	SLIDER TYPE	DESCRIPTION OF SLIDER	INSTALLATION
DVW	Duo-Vent	Traditional Four Panel Slider	Gasket Set
EDV	Bonded Duo-Vent	Same as DVW, but bonded to body	Urethane
TSW	Older Model Truck Slider	DVW for truck models 10 years or older	Gasket Set
BRW	Big Rig Truck Slider	Slider for large commercial trucks	Gasket Set
RVW	Camper Boot Slider	Added flange for camper boot attachment	Gasket Set
RVE	Bonded Camper Boot	Same as RVW, but bonded to body	Urethane
TRV	Tri-Vent	Three Panel Slider	Gasket Set
TRC	Deluxe Tri-Vent	Same as TRV, only with curved glass	Gasket Set
ETRV	Bonded Tri-Vent	Same as TRV, but bonded to body	Urethane
ECT	Deluxe Bonded Tri-Vent	Same as ETRV, only with curved glass	Urethane
PS	POWR-Slider	Electrically powered Tri-Vent	Gasket Set
PSC	Deluxe POWR-Slider	Same as PS, only with curved glass	Gasket Set
EPS	Bonded POWR-Slider	Same as PS, but bonded to body	Urethane
EPC	Deluxe Bonded POWR-Slider	Same as EPS, only with curved glass	Urethane

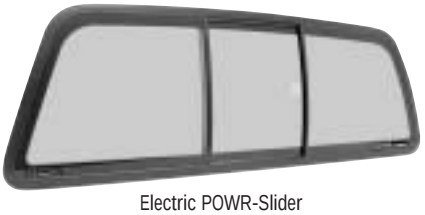
NOTE: The ECT990 and EPC990 Series for Ford require butyl tape in place of urethane, and is supplied with these sliders.



4 Panel Duo-Vent



3 Panel Tri-Vent



Electric POWR-Slider

Light Transmittance By Glass Type

B=Clear Glass

LT=55%* Light Gray Tint Glass

BT=31%* Dark Gray Tint Glass

S=28%* Solar Glass

* % of Light Transmittance

DOMESTIC SLIDER APPLICATION CHART

CHEVY/GMC — 1948 TO 2003

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS — CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS	TRI-VENT (THREE PANELS DARK TINT GLASS)	POWR-SLIDER (THREE PANELS DARK TINT GLASS OR SOLAR GLASS)	CAMPER BOOT SLIDER (FOUR PANELS CLEAR GLASS)	REPLACEMENT REAR GASKET
FULL SIZE GASKET SET	'48-'55	STANDARD CAB	31-1/8" x 10-3/8"	——	——	TSW1829T	——	——	——	——	WKT4266
FULL SIZE GASKET SET	'55-1/2-'59	STANDARD CAB	35" x 10-5/8"	——	——	TSW1835T	——	——	——	——	WKT4266
FULL SIZE GASKET SET	'60-'66	SMALL WINDOW	36-7/8" x 9-7/8"	TSW1816	——	——	——	——	——	——	WKT4266
FULL SIZE GASKET SET	'60-'66	CUSTOM CAB	60-1/2" x 14-3/4"	TSW1825	——	——	——	——	——	——	WKT6266
FULL SIZE GASKET SET	'67-'72	SMALL WINDOW	41-1/8" x 11"	TSW1832	——	——	——	——	——	——	WBL1091
FULL SIZE GASKET SET	'67-'72	STANDARD CAB	58-7/8" x 13-15/16"	TSW100B	TSW100LT	TSW100BT	——	TRV100BT	PS100	RVW100BFC	WBL1092
MID SIZE BUTYL SET	'68-'72	EL CAMINO/ SPRINT	55-1/4" x 14-11/16"	——	——	TSW1823T	——	——	——	——	——
MINI SIZE GASKET SET	'72-'80	LUV	46-1/8" x 13-1/16"	TSW550B	TSW550LT	TSW550BT	——	——	——	——	——
MID SIZE BUTYL SET	'73-'77	EL CAMINO/ SPRINT	51-5/8" x 12-3/4"	——	——	TSW1824T	——	——	——	——	——
FULL SIZE GASKET SET	'73-'87	'C/K' CABS	62-3/4" x 14-1/2"	DVW850B	DVW850LT	DVW850BT	——	TRV850BT	PS850	RVW850BFC	WBL1135
MINI SIZE GASKET SET	'81-'83	LUV	46-3/4" x 12-1/4"	TSW575B	TSW575LT	TSW575BT	——	——	——	RVW575BFC	——
MID SIZE GASKET SET	'82-'93	S-10/ S-15	52-13/16" x 13-15/16"	DVW875B	DVW875LT	DVW875BT	DVW875S	TRV875BT	PS875	RVW875BFC	WBL6425
FULL SIZE GASKET SET	'88-'92	'R/V' CABS	62-3/4" x 14-1/2"	DVW850B	DVW850LT	DVW850BT	——	TRV850BT	PS850	RVW850BFC	WBL1135
FULL SIZE BONDED	'88-'01	'C/K' CABS	64-1/8" x 18-1/2"	EDV880B	EDV880LT	EDV880BT	EDV880S	——	EPS880	RVE880BFC	——
				TRI-VENT THREE PANEL MANUAL REAR SLIDERS — CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS		POWR-SLIDER (THREE PANELS DARK TINT OR SOLAR GLASS)	CAMPER BOOT SLIDER (THREE PANELS CLEAR GLASS)	REPLACEMENT REAR GASKET
FULL SIZE BONDED	'88-'01	'C/K' CABS	64-1/8" x 18-1/2"	——	——	ETRV880BT	ETRV880S	——	EPS880	RVE880BFC	——
MID SIZE BONDED	'94-'03	'S' SERIES	55-13/16" x 15-3/4"	ECT894B~#	ECT894LT~#	——	ECT894S~#	——	EPC894S~#	RVEC894B#	——
FULL SIZE BONDED	1999+	SILVERADO/SIERRA	64-3/4" x 18-1/8"	ECT899B~#	ECT899LT~#	——	ECT899S~#	——	EPC899S~#	——	——

~ Flexible Flange Model # Deluxe Slider with Curved Glass

All truck sliders can be combined for quantity pricing

PICK-UP TRUCK SLIDERS

FORD/LINCOLN — 1953 TO 2003

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS				TRI-VENT (THREE PANELS DARK TINT GLASS)	POWR-SLIDER (THREE PANELS DARK TINT OR SOLAR GLASS)	CAMPER BOOT SLIDER (THREE OR FOUR PANELS, CLEAR OR LIGHT TINT GLASS)	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS				
FULL SIZE GASKET SET	'53-'56	ALL CABS	50-1/4" x 11"	——	——	TSW1826T	——	——	——	——	WBL1103
FULL SIZE GASKET SET	'57-'60	ALL CABS	44-3/4" x 11"	TSW1827	——	TSW1827T	——	——	——	——	WBL1015
FULL SIZE GASKET SET	'61-'66	ALL CABS	49-13/16" x 13-11/16"	TSW1450	——	——	——	——	——	——	WBL1052
FULL SIZE GASKET SET	'67-'72	ALL CABS	55-5/16" x 13-3/16"	TSW200B	TSW200LT	TSW200BT	——	TRV200BT	PS200	——	WBL1089
MINI SIZE GASKET SET	'72-'76	COURIER	45-1/8" x 12-5/8"	TSW1810	——	——	——	——	——	——	——
OEM REPLACEMENT	'73-'79	F-SERIES	59-3/8" x 17"	——	7130ET	7130EP	——	——	——	——	PROVIDED
FULL SIZE GASKET SET	'73-'96	F-SERIES ■	59-3/8" x 17"	DVW950B	DVW950LT	DVW950BT	DVW950S	——	PS950	RVW950BFC	WBL1158
MINI SIZE GASKET SET	'76-1/2-'77	COURIER	46-1/2" x 13"	——	——	TSW1319T	——	——	——	——	——
MINI SIZE GASKET SET	'77-'82	COURIER	48-3/4" x 13-1/16"	——	TSW375LT	TSW375BT	——	——	——	——	WBL1148
MID SIZE GASKET SET	'83-'97	RANGER STANDARD CAB	49" x 14-3/8"	DVW1200B	DVW1200LT	DVW1200BT	——	TRV1200BT	PS1200	RVW1200BFC	WBL1163
OEM REPLACEMENT	'83-'97	RANGER STANDARD CAB	49" x 14-3/8"	——	7140ET	7140EP	——	——	——	——	PROVIDED
MID SIZE BONDED	'86-'97	RANGER SUPER CAB	53" x 17-13/16"	EDV965B	——	EDV965BT	——	——	EPS965S	RVE965LT	——
FULL SIZE GASKET SET	'97-'98	F-250HD, F350	59-3/8" x 17"	DVW950B	DVW950LT	DVW950BT	DVW950S	——	PS950	RVW950BFC	WBL1158
MID SIZE BONDED	'98-'03	RANGER	53" x 17-13/16"	EDV965B	——	EDV965BT	——	——	EPS965S	RVE965LT	——
MID SIZE BONDED	'99-'03	RANGER QUAD	53" x 17-13/16"	EDV965B	——	EDV965BT	——	——	EPS965SQ	RVE965LT	——

				TRI-VENT THREE PANEL MANUAL REAR SLIDERS					POWR-SLIDER (THREE PANELS DARK TINT OR SOLAR GLASS)	CAMPER BOOT SLIDER (THREE OR FOUR PANELS, CLEAR OR LIGHT TINT GLASS)	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS				
FULL SIZE GASKET SET	'73-'96	F-SERIES	59-3/8" x 17"	——	——	TRV950BT	TRV950S	——	PS950	RVW950BFC	WBL1158
MID SIZE BONDED	'86-'97	RANGER SUPER CAB	53" x 17-13/16"	——	ETRV965LT	ETRV965BT	ETRV965S	——	EPS965S	RVE965LT	——
FULL SIZE ALL GLASS BOLT-IN	'97-'03	F-150 & F-250 ◉	58-7/8" x 18-1/4"	ECT990B#	ECT990LT#	——	ECT990S#	——	EPC990S#	——	——
FULL SIZE GASKET SET	'97-'98	F-250HD, F350	59-3/8" x 17"	——	——	TRV950BT	TRV950S	——	PS950	RVW950BFC	WBL1158
MID SIZE BONDED	'98-'03	ALL RANGER CABS	53" x 17-13/16"	——	ETRV965LT	ETRV965BT	ETRV965S	——	EPS965S	RVE965LT	——
MID SIZE BONDED	'99-'03	RANGER QUAD CAB	53" x 17-13/16"	——	ETRV965LT	ETRV965BT	ETRV965S	——	EPS965SQ	RVE965LT	——
FULL SIZE GASKET SET	'99-'03	F-SERIES SUPER DUTY	64-5/8" x 18-1/2"	——	——	——	TRC998S#	——	PSC998S#◆	——	WBL450
FULL SIZE ALL GLASS BOLT-IN	2002+	LINCOLN BLACKWOOD	58-7/8" x 18-1/4"	ECT990B#	ECT990LT#	——	ECT990S#	——	EPC990S#	——	——

DODGE — 1967 TO 2003

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS				TRI-VENT (THREE PANELS DARK TINT OR SOLAR GLASS)	POWR-SLIDER (THREE PANELS DARK TINT GLASS)	CAMPER BOOT SLIDER (FOUR PANELS CLEAR GLASS)	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS				
FULL SIZE GASKET SET	'67-'71	ALL CABS	58-1/8" x 13-5/8"	——	——	TSW1814T	——	——	——	——	——
FULL SIZE GASKET SET	'72-'75	ALL CABS	55" x 13-5/8"	——	——	TSW1307T	——	——	——	——	WBL1129
FULL SIZE GASKET SET	'75-1/2-'93	ALL RAM CABS	55-11/16" x 14-3/8"	DVW900B	DVW900LT	DVW900BT	——	TRV900BT	PS900	RVW900BFC	WBL1129
MINI SIZE GASKET SET	'79-'86	D-50	46-11/16" x 14-1/8"	TSW925B	TSW925LT	TSW925BT	——	——	——	RVW925BFC	——
MID SIZE GASKET SET	'86-'93	DAKOTA STANDARD CAB	55-3/4" x 16"	DVW910B	DVW910LT	DVW910BT	DVW910S	——	PS910	RVW910BFC	WBL7158
MID SIZE GASKET SET	'86-'96	DAKOTA EXTENDED CAB	55-3/4" x 16"	DVW910B	DVW910LT	DVW910BT	DVW910S	——	PS910	RVW910BFC	WBL7158
MINI SIZE GASKET SET	'87-'96	D-50	53-1/8" x 13-7/8"	DVW935B	DVW935LT	DVW935BT	DVW935S	TRV935BT	PS935	RVW935BFC	WBL3429
MID SIZE BONDED	'94-'96	DAKOTA STANDARD CAB	55-3/4" x 16"	EDV910B	EDV910LT	EDV910BT	——	——	EPS910	——	——

				TRI-VENT THREE PANEL MANUAL REAR SLIDERS					POWR-SLIDER (THREE PANELS DARK TINT OR SOLAR GLASS)	CAMPER BOOT SLIDER (FOUR PANELS CLEAR GLASS)	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS				
MID SIZE GASKET SET	'86-'93	DAKOTA STANDARD CAB	55-3/4" x 16"	——	——	TRV910BT	TRV910S	——	PS910	RVW910BFC	WBL7158
MID SIZE GASKET SET	'86-'96	DAKOTA EXTENDED CAB	55-3/4" x 16"	——	——	TRV910BT	TRV910S	——	PS910	RVW910BFC	WBL7158
MID SIZE BONDED	'86-'96	DAKOTA EXTENDED CAB	55-3/4" x 16"	——	——	——	ETRV911SΔ	——	EPS911Δ	——	——
MID SIZE BONDED	'94-'96	DAKOTA STANDARD CAB	55-3/4" x 16"	——	——	ETRV910BT	ETRV910S	——	EPS910	——	——
FULL SIZE BONDED	'94-'01	ALL RAM CABS	65-1/2" x 18"	——	——	——	ECT904S~#	——	EPC904S~#	——	——
FULL SIZE BONDED	'94-'03	RAM 2500/3500	65-1/2" x 18"	——	——	——	ECT904S~#	——	EPC904S~#	——	——
FULL SIZE BONDED	'95-'97	RAM EXTENDED CAB	65-1/2" x 18"	——	——	——	ECT944SΔ~#	——	EPC944SΔ~#	——	——
MID SIZE BONDED	'97-'03	ALL DAKOTA CABS	56-11/16" x 16-9/16"	ECT410B~#	ECT410LT~#	——	ECT410S~#	——	EPC410S~#		——
FULL SIZE BONDED	2002+	RAM 1500	65-1/2" x 19-3/8"	ECT924B~#	ECT924LT~#	——	ECT924S~#	——	EPC924S~#	——	——

JEEP — 1967 TO 1992

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS				TRI-VENT (THREE PANELS DARK TINT GLASS)	POWR-SLIDER (THREE PANELS DARK TINT GLASS)	CAMPER BOOT SLIDER (FOUR PANELS CLEAR GLASS)	REPLACEMENT REAR GASKET
				CLEAR GLASS		DARK TINT GLASS	SOLAR GLASS				
FULL SIZE GASKET SET	'67-'88	J10-J20	53-1/4" x 15-3/8"	TSW1700	——	TSW1700T	——	——	——	——	——
MINI SIZE GASKET SET	'81-3/'83	SCRAMBLER	47" x 17-1/4"	TSW1852	——	——	——	——	——	——	——
MINI SIZE GASKET SET	3/'83-'86	SCRAMBLER	46-3/4" x 17-1/4"	TSW1859	——	——	——	——	——	——	——
MID SIZE BONDED	'86-'92	COMANCHE	56-5/8" x 16-1/4"	——	EDV700LT	EDV700BT	EDV700S	ETRV700BT	EPS700	RVW700BFC	——

INTERNATIONAL TRUCK — 1963 TO 1981

FULL SIZE GASKET SET	'63-'78	TRAVEL ALL PICKUP	49-3/4" x 12-1/2"	——	——	TSW1813T	——	——	——	——	——
MID SIZE GASKET SET	'76-'81	SCOUT II	46-1/4" x 12-5/8"	TSW1818	——	——	——	——	——	——	——

Deluxe Slider with Curved Glass ■ Plus 1997-98 F-250HD and F-350HD Cabs. ◉ Except 1997-98 F250HD and F350HD Cabs. ◆ Comes with Gasket. Δ Comes with Interior Shroud. ~ Flexible Flange Model.

ISUZU — 1981 TO 2003

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS				TRI-VENT	POWR-SLIDER	CAMPER BOOT SLIDER	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS	THREE PANELS DARK TINT GLASS	THREE PANELS DARK TINT GLASS	FOUR PANELS CLEAR GLASS	
MINI SIZE GASKET SET	'81-'87	STANDARD CAB	46-3/4" x 12-1/4"	TSW575B	TSW575LT	TSW575BT	——	——	——	RVW575BFC	——
MINI SIZE GASKET SET	'86-'87	SPACE CAB	49-3/16" x 15-5/8"	TSW600B	TSW600LT	TSW600BT	——	——	——	——	——
MINI SIZE GASKET SET	'88-'95	ALL CABS	52-11/16" x 14-3/16"	DVW610B	DVW610LT	DVW610BT	——	TRV610BT	——	RVW610BFC	——
				TRI-VENT THREE PANEL MANUAL REAR SLIDERS					DELUXE POWR-SLIDER THREE PANELS SOLAR GLASS	CAMPER BOOT SLIDER THREE PANELS CLEAR GLASS	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS				
MID SIZE BONDED	'96-'03	ALL CABS	55-13/16" x 15-3/4"	ECT894B~#	ECT894LT~#	——	ECT894S~#	——	EPC894S~#	RVEC894B	——

MAZDA — 1972 TO 2003

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS				TRI-VENT	POWR-SLIDER	CAMPER BOOT SLIDER	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS	THREE PANELS DARK TINT GLASS	THREE PANELS DARK TINT OR SOLAR GLASS	THREE OR FOUR PANELS, CLEAR OR LIGHT TINT GLASS	
MINI SIZE GASKET SET	'72-'76	STANDARD CAB	45-1/8" x 12-5/8"	TSW1810	——	——	——	——	——	——	WBL1148
MINI SIZE GASKET SET	'74-'77	ROTARY ONLY	46-1/2" x 13"	——	——	TSW1319T	——	——	——	——	WBL1148
MINI SIZE GASKET SET	'77-'85	STANDARD CAB	48-3/4" x 13-1/16"	——	TSW375LT	TSW375BT	——	——	——	——	WBL1148
MINI SIZE GASKET SET	'86-'93	STANDARD AND CAB PLUS	50-1/8" x 14-9/16"	DVW325B	DVW325LT	DVW325BT	——	TRV325BT	PS325	RVW325BFC	WCR3098
OEM REPLACEMENT	'94-'97	STANDARD CAB	49" x 14-3/8"	——	7140ET	7140EP	——	——	——	——	PROVIDED
MID SIZE GASKET SET	'94-'97	STANDARD CAB	49" x 14-3/8"	DVW1200B	DVW1200LT	DVW1200BT	——	TRV1200BT	PS1200	RVW1200BFC	WBL1163
MID SIZE BONDED	'94-'97	CAB PLUS	53" x 17-13/16"	EDV965B	——	EDV965BT	——	——	EPS965S	RVE965LT	——
MID SIZE BONDED	'98-'03	ALL CABS	53" x 17-13/16"	EDV965B	——	EDV965BT	——	——	EPS965S	RVE965LT	——
				TRI-VENT THREE PANEL MANUAL REAR SLIDERS					POWR-SLIDER THREE PANELS SOLAR GLASS	CAMPER BOOT SLIDER THREE PANELS LIGHT TINT GLASS	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS				
MID SIZE BONDED	'94-'97	CAB PLUS	53" x 17-13/16"	——	ETRV965LT	ETRV965BT	ETRV965S	——	EPS965S	RVE965LT	——
MID SIZE BONDED	'98-'03	ALL CABS	53" x 17-13/16"	——	ETRV965LT	ETRV965BT	ETRV965S	——	EPS965S	RVE965LT	——

MITSUBISHI — 1979 TO 1996

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS				TRI-VENT	POWR-SLIDER	CAMPER BOOT SLIDER	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS	THREE PANELS DARK TINT GLASS	THREE PANELS DARK TINT GLASS	FOUR PANELS CLEAR GLASS	
MINI SIZE GASKET SET	'79-'86	STANDARD CAB	46-11/16" x 14-1/16"	TSW925B	TSW925LT	TSW925BT	——	——	——	RVW925BFC	——
MINI SIZE GASKET SET	'87-'96	ALL CABS	53-1/8" x 13-7/8"	DVW935B	DVW935LT	DVW935BT	DVW935S	TRV935BT	PS935	RVW935BFC	WBL3429

NISSAN/ DATSUN — 1967 TO 2003

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS				TRI-VENT	POWR-SLIDER	CAMPER BOOT SLIDER	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS	THREE PANELS DARK TINT GLASS	THREE PANELS DARK TINT GLASS	FOUR PANELS CLEAR GLASS	
MINI SIZE GASKET SET	'67-'72	STANDARD CAB	42-5/8" x 10-11/16"	TSW1400	——	——	——	——	——	——	——
MINI SIZE GASKET SET	'72-1/2-'79	STANDARD CAB	45-13/16" x 10-1/8"	TSW350B	TSW350LT	TSW350BT	——	——	——	——	WBL1142
MINI SIZE GASKET SET	'76-'79	KING CAB	48-1/8" x 13"	TSW675B	TSW675LT	TSW675BT	——	——	——	——	WBL1149
MINI SIZE GASKET SET	'80-'86	STANDARD CAB	49-1/16" x 12-3/4"	TSW1080B	TSW1080LT	TSW1080BT	——	TRV1080BT	PS1080	——	WBL1988
MINI SIZE GASKET SET	'80-'86	KING CAB	52-1/8" x 14-15/16"	TSW1090B	TSW1090LT	TSW1090BT	——	——	——	——	WBL1989
MINI SIZE GASKET SET	'86-1/2-'97	ALL CABS	53-1/2" x 14-15/16"	DVW1060B	DVW1060LT	DVW1060BT	DVW1060S	TRV1060BT	PS1060	RVW1060BFC	WBL3230
				TRI-VENT THREE PANEL MANUAL REAR SLIDERS					POWR-SLIDER THREE PANELS SOLAR GLASS		REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS				
MINI SIZE BONDED	'98-'03	FRONTIER	54-1/16" x 15"	ETRV660B	ETRV660LT	——	ETRV660S	——	EPS660S	——	——

SUBARU — 1978 TO 1991

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS				TRI-VENT	POWR-SLIDER	CAMPER BOOT SLIDER	REPLACEMENT REAR GASKET
				CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS	THREE PANELS DARK TINT GLASS	THREE PANELS DARK TINT GLASS	FOUR PANELS CLEAR GLASS	
MINI SIZE GASKET SET	'78-'81	BRAT	43-1/2" x 13-1/2"	TSW1975	TSW1975T	——	——	——	——	——	——
MINI SIZE GASKET SET	'82-'91	BRAT	46" x 13"	DVW1375B	——	——	——	——	——	——	——

~ Flexible Flange Model. # Deluxe Slider with Curved Glass

PICK-UP TRUCK SLIDERS

TOYOTA — 1969 TO 2003

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS — CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS	TRI-VENT (THREE PANELS DARK TINT GLASS)	POWR-SLIDER (THREE PANELS DARK TINT OR SOLAR GLASS)	CAMPER BOOT SLIDER (FOUR PANELS CLEAR GLASS)	REPLACEMENT REAR GASKET
MINI SIZE GASKET SET	'69-'72	STANDARD CAB	46-1/2" x 12-1/8"	——	——	TSW1819T	——	——	——	——	——
MINI SIZE GASKET SET	'73-'78	STANDARD CAB	44-13/16" x 12-1/16"	TSW1050B	TSW1050LT	TSW1050BT	——	——	——	——	WBL1143
MINI SIZE GASKET SET	'79-'83	STANDARD CAB	45-3/8" x 11-1/2"	TSW1025B	TSW1025LT	TSW1025BT	——	——	——	——	WBL3971
MINI SIZE GASKET SET	'84-'88	SR5 EXTENDED CAB	51-1/4" x 15-13/16"	DVW1425B	DVW1425LT	DVW1425BT	——	TRV1425BT	PS1425	RVW1425BFC	WBL2674
MINI SIZE GASKET SET	'84-'95	SR5 STANDARD CAB	50-1/16" x 13-3/16"	DVW1400B	DVW1400LT	DVW1400BT	DVW1400S	TRV1400BT	PS1400	RVW1400BFC	WBL2669/ '84-'88 WBL2669A/ '89-'95
MINI SIZE GASKET SET	'89-'95	SR5 XTRA CAB	50-1/2" x 14-7/8"	DVW1460B	DVW1460LT	DVW1460BT	——	TRV1460BT	PS1460	RVW1460BFC	WBL3894
MID SIZE GASKET SET	'93-'98	T100	58-3/8" x 14-7/8"	DVW500B	DVW500LT	DVW500BT	——	TRV500BT	PS500	RVW500BFC	WBL4798
MINI SIZE GASKET SET	'95-'03	TACOMA	50-1/16" x 13-3/16"	DVW1500B	DVW1500LT	DVW1500BT	DVW1500S	——	PS1500S	RVW1500BFC	WBLF5475
				TRI-VENT THREE PANEL MANUAL REAR SLIDERS — CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS		POWR-SLIDER (THREE PANELS SOLAR GLASS)	CAMPER BOOT SLIDER (FOUR PANELS CLEAR GLASS)	
MID SIZE GASKET SET	'95-'03	TACOMA	50-1/16" x 13-3/16"	——	——	TRV1500BT	TRV1500S	——	PS1500S	RVW1500BFC	WBLF5475
FULL SIZE BONDED	'99-'02	TUNDRA	60" x 16-1/2"	——	——	——	ECT1550S#	——	EPC1550S#	——	——

VOLKSWAGEN — 1980 TO 1983

BODY SIZE AND INSTALLATION TYPE	YEARS	MODEL	DIMENSIONS (WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H)	DUO-VENT FOUR PANEL MANUAL REAR SLIDERS — CLEAR GLASS	LIGHT TINT GLASS	DARK TINT GLASS	SOLAR GLASS	TRI-VENT (THREE PANELS DARK TINT GLASS)	POWR-SLIDER (THREE PANELS DARK TINT GLASS)	CAMPER BOOT SLIDER (FOUR PANELS CLEAR GLASS)	REPLACEMENT REAR GASKET
MINI SIZE GASKET SET	'80-'83	RABBIT	45" x 14"	TSW1070B	TSW1070LT	——	——	——	——	——	——

Deluxe Slider with Curved Glass

CRL OEM Style Replacement Sliders

- OEM Style and Fit
- Quick Installation
- Gaskets Included

Looking for an OEM Dual-Vent replacement slider and you don't want to pay dealer prices? CRL now stocks OEM slider replacements for 1973-1996 Ford F-Series, 1983-1997 Ford Ranger, and 1994-1997 Mazda trucks. These sliders are provided pre-installed in the gasket. Just pull them from the box and rope them in. Quick and easy. NAGS® numbers are provided for easy reference.

1973-1996 FORD F-SERIES

CAT. NO.	NAGS NUMBER	GLASS COLOR
7130EP	DB08399YP1CRL	Dark Tint
7130ET	DB08399GT1CRL	Green Tint

1983-1997 RANGER STANDARD CAB

CAT. NO.	NAGS NUMBER	GLASS COLOR
7140EP	DB08400YP1CRL	Dark Tint
7140ET	DB08400GT1CRL	Green Tint

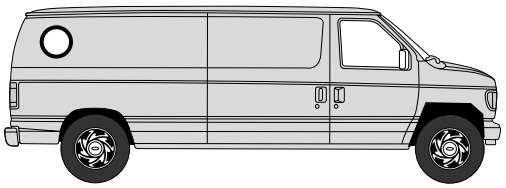
1994-1997 MAZDA STANDARD CAB

CAT. NO.	NAGS NUMBER	GLASS COLOR
7140EP	DB08400YP1CRL	Dark Tint
7140ET	DB08400GT1CRL	Green Tint

Custom Van Porthole

- The Classic Van Accessory
- Glazed with Tinted Tempered Glass

Custom Van Portholes give vans a classic look. They install in either 1/8" or 1-1/2" thick van walls, and their black finish aluminum frames yield a professionally installed appearance. This traditional porthole design has 31% tinted tempered flat glass.



CAT. NO.	SIZE	WALL	GLASS COLOR
11035S	12" Circle	1/8" or 1-1/2"	Dark Tint

C.R. Laurence Co., Inc. Forms an Alliance with Stretch Forming Corporation

SFC/CRL SUNROOFS

The Worldwide Symbol for Sunroof Excellence

NewPort

AutoPort

Genesis

On March 1, 2000, an alliance between C. R. Laurence Co., Inc. (CRL) and Stretch Forming Corporation (SFC) was announced to provide the industry with leading edge technology sunroofs and the best North American distribution system. CRL became the exclusive manufacturing distributor of SFC Sunroofs for North America. Donald Friese, President and CEO of CRL stated, “We are very excited about this new alliance because it creates a winning opportunity for both companies, and for our customers. We now have the opportunity to present our customers with the highest quality sunroof products in the industry, and all are available for shipment from each of our 17 distribution centers throughout the United States and Canada. As always, we are committed to providing our customers with an expanding line of high quality products, and the best customer service in the industry.”

Mr. Friese added, “CRL's Automotive Products Manager, Mario Beltran, who spent more than 20 years with SFC as Director of Services spearheads the new SFC Sunroof Division here at CRL. Peter Ascherl, who was Director of Sales at SFC, has also joined CRL to work in this division, creating continuity, and servicing our customer's sunroof needs.”

Stretch Forming Corporation is known worldwide for their commitment to the sunroof industry. As a supplier to the aircraft, architectural and aerospace industries since 1968, SFC incorporates the same impeccable standards into its line of sunroof products. You can expect the highest degree of excellence in engineering, research, product development and manufacturing. SFC has become the sunroof manufacturer of choice for O.E. suppliers, installers, new car dealers and enthusiasts world wide. Unique design innovations, such as the NewPort DCS (Dual Contoured Sunroof) and the Genesis, an entirely new class of sunroof, further confirms SFC’s commitment to manufacturing the right sunroof for all popular applications. CRL’s commitment, as always, is to provide fast delivery along with the service and technical assistance you would expect.

Look for This Alliance to Fulfill Your 21st Century Sunroof Needs

The CRL/SFC Auto Technical Center can handle all of your selection and installation questions regarding Sunroofs, Rear Sliders and Van Windows. You can even get expert advice on auto glass replacement. Call our Auto Tech Center at (800)-SFC-ROOF (732-7663), and ask for Extension 789. Weekday hours are 6:00 am to 5:00 pm, Pacific Time.

Our manufacturing facilities are located in Vernon, California, where our automotive products are manufactured under the most strict standards. C.R. Laurence Automotive Products is a supplier to several Original Equipment Manufacturers, as well as many of the glass industry’s major distributors.

SFC/CRL SUNROOFS

The Worldwide Symbol for Sunroof Excellence

NewPort

- **Contemporary Radius Corner Design with Curved Leading Edge**
- **Solar High Performance Glass Provides 92% U.V. Protection**
- **Six Sizes to Fit Most Cars, Trucks, SUV's and Vans**
- **Dual Contour Frames and Glass on 18"x 28" and 20"x 32" Models**
- **Flush Fitting Frame with Weather-Tight Silicone Seal**
- **Bio-Mechanical Latch with Two Opening Positions**

From small economy to high-end cars and trucks, NewPort Sunroofs are the answer. The installation of NewPort Sunroofs is simple. Shipped assembled and ready to install, the universal and molded trim rings provide numerous installation trim options. The aluminum spacer within the universal trim ring provides better compression between the sunroof and the car body. The molded trim ring comes with styrofoam spacers that hold the headliner tightly against the inside trim ring. From the 14" x 32" to the 22" x 38", and everything in between, the curved leading edge, low frame-to-body profile and contemporary corner design of a NewPort Sunroof follows vehicle lines to perfection.

The Solar High Performance Glass used in all NewPort Sunroofs provides 92% U.V. protection. The classic style of black dot matrix glass is available in selected models. It's also easy to remove for that "top down feeling". 18"x 28" and 20"x 32" Dual Contour models conform to the round roof lines of today's most popular vehicles.

TECHNICAL DATA

FRAME SIZE:

14-9/16" x 32-3/16" O.D. (14" x 32")
16-13/16" x 36-13/16" O.D. (16" x 36")
16-7/8" x 32-3/16" O.D. (17" x 32")
18-13/16" x 28-13/16" O.D. (18" x 28")
20-13/16" x 32-3/16" O.D. (20" x 32")
23-1/16" x 39-1/16" O.D. (22" x 38")

CUT OUT SIZE:

13-3/4" x 31-3/8" (14" x 32")
16" x 36" (16" x 36")
16-1/16" x 31-3/8" (17" x 32")
18" x 28" (18" x 28")
20" x 31-3/8" (20" x 32")
22" x 38" (22" x 38")

GLASS SIZE:

12-1/2" X 30-1/8" (14" x 32")
14-3/4" x 34-3/4" (16" x 36")
14-13/16" x 30-1/8" (17" x 32")
16-3/4" x 26-3/4" (18" x 28")
18-3/4" x 30-1/8" (20" x 32")
20-3/4" x 36-3/4" (22" x 38")

FRAME: Extruded Aluminum, Black Powder-Coated Paint

HANDLE: Three Position, Positive Latching

SEAL: Extruded Silicone Sponge

TRIM RINGS: Universal and Molded

14" X 32" NEWPORT SUNROOFS

CAT. NO.	GLASS	TRIM RING*
NP1432B5H	Solar H.P.	Universal
NP1432B6H	Solar H.P.	Molded
NP1432B5B	Dot Matrix	Universal
NP1432B6B	Dot Matrix	Molded

16" X 36" NEWPORT SUNROOFS

CAT. NO.	GLASS	TRIM RING*
NP1636B5H	Solar H.P.	Universal
NP1636B6H	Solar H.P.	Molded

17" X 32" NEWPORT SUNROOFS

CAT. NO.	GLASS	TRIM RING*
NP1732B5H	Solar H.P.	Universal
NP1732B6H	Solar H.P.	Molded
NP1732B5B	Dot Matrix	Universal

18" X 28" NEWPORT SUNROOFS

CAT. NO.	GLASS	TRIM RING*
NP1828B5H	Solar H.P	Universal
NP1828B6H	Solar H.P.	Molded
NP1828B5HD▲	Solar H.P.	Universal
NP1828B6HD▲	Solar H.P.	Molded

▲ Dual Contoured model

20" X 32" NEWPORT SUNROOFS

CAT. NO.	GLASS	TRIM RING*
NP2032B5H▲	Solar H.P.	Universal
NP2032B6H▲	Solar H.P.	Molded

▲ Dual Contoured model

22" X 38" NEWPORT SUNROOFS

CAT. NO.	GLASS	TRIM RING*
NP2238B5H	Solar H.P.	Universal
NP2238B6H	Solar H.P.	Molded

* For the correct trim ring, contact your trim specialist, or the SFC/CRL Auto Technical Center at (800) 732-7663, Ext. 789.

SFC/CRL SUNROOFS

The Worldwide Symbol for Sunroof Excellence

AutoPort

With its contemporary and traditional design, the AutoPort Sunroof is ideal for car, truck or van applications. It features flush fitting high performance solar glass that is easily removed and replaced, providing 92% U.V. protection. The classic style of black dot matrix glass is available on selected models. The interior trim ring can be installed under or over the headliner, depending on the application or customer preference. AutoPort delivers remarkable quality with unsurpassed fit and finish, offering the budget minded consumer a remarkable combination of style and value.

- **Traditional Design Replaces Most Other Sunroofs on the Market**
- **Solar High Performance Glass Provides 92% U.V. Protection**
- **Glass Can Be Quickly and Easily Removed**
- **Flush Fitting Frame with Weather-Tight Silicone Seal**
- **Latch Has Two Open Positions**

TECHNICAL DATA

FRAME SIZE:	CUT OUT SIZE:	GLASS SIZE:
15-3/16" x 34-3/16" (14" x 33")	14-1/8" x 33-18" (14" x 33")	12-5/8" x 31-5/8" (14" x 33")
16-3/16" x 31-3/16" O.D. (15" x 30")	15-1/8" x 30-1/8" (15" x 30")	13-5/8" x 28-5/8" (15" x 30")
18-3/16" x 36-3/16" O.D. (17" x 35")	17-1/8" x 35-1/8" (17" x 35")	15-5/8" x 33-5/8" (17" x 35")

FRAME:	HANDLE:	SEAL:	TRIM RINGS:
Extruded Aluminum, Black Powder-Coated Paint	Three Position, Positive Latching	Extruded Silicone Sponge	Universal, Molded, and Van

14" X 33" AUTOPORT SUNROOFS

CAT. NO.	GLASS	TRIM RING*
AP1433B5B	Dot Matrix	Universal
AP1433B6B	Dot Matrix	Molded

15" X 30" AUTOPORT SUNROOFS

CAT. NO.	GLASS	TRIM RING*
AP1530B5H	Solar H.P.	Universal
AP1530B6H	Solar H.P.	Molded

17" X 35" AUTOPORT SUNROOFS

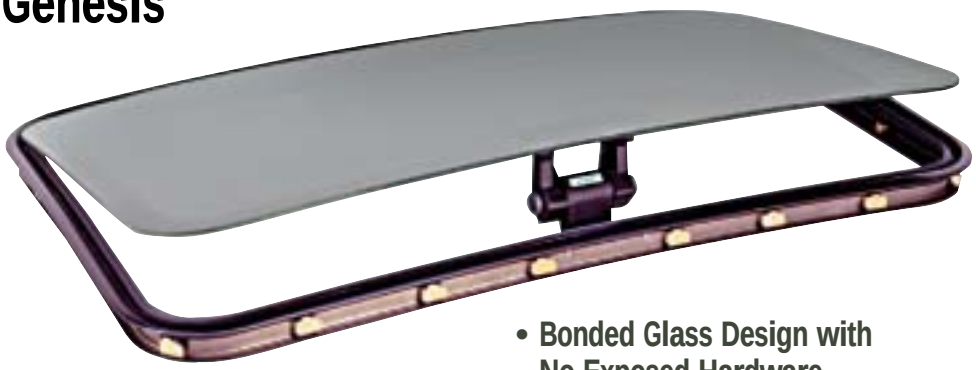
CAT. NO.	GLASS	TRIM RING*
AP1735B5H	Solar H.P.	Universal
AP1735B6H	Solar H.P.	Molded
AP1735B4H	Solar H.P.	Van
AP1735B5B	Dot Matrix	Universal
AP1735B6B	Dot Matrix	Molded

* For the correct trim ring, contact your trim specialist, or the SFC/CRL Auto Technical Center at (800) 732-7663, Ext. 789.

SFC/CRL SUNROOFS

The Worldwide Symbol for Sunroof Excellence

Genesis



- **Bonded Glass Design with No Exposed Hardware**

- **Solar High Performance Glass Can Be Completely Removed, and Provides 92% U.V. Protection**
- **Bio-Mechanical Latch with Two Opening Positions**
- **Ultra-Thin Exterior Aluminum Frame with Weather-Tight Silicone Seal**
- **Patented Cam-Lock System Ensures the Easiest of Installations**

The Genesis is an entirely new class of sunroof, offering the easiest of pop-up installations. Genesis brings sunroof style and installation to a new level. Features unlike any other sunroof combine the upscale appearance of an in-built, with the ease of installation of a pop-up. This is the ideal sunroof for consumers who want the best of both worlds.

Genesis comes ready for quick, fully wrapped headliner installation with a patented Cam-Lock System that gives a positive clamping between the frame and vehicle roof. The bonded glass and ultra-thin exterior frame provide the look of an expensive in-built sunroof at a price everyone can afford. Genesis is the ideal sunroof for any application.

TECHNICAL DATA

FRAME SIZE:
15-1/4" x 28-3/4" O.D. (15" x 28")
16-3/4" x 31-3/4" O.D. (17" x 32")
20-9/16" x 32-5/8" O.D. (20" x 32")

CUT OUT SIZE:
14-5/8" x 28-1/8" (15" x 28")
16-1/8" x 31-1/8" (17" x 32")
20" x 32-1/16" (20" x 32")

GLASS SIZE:
14" x 27-1/2" (15" x 28")
15-1/2" x 30-1/2" (17" x 32")
19-5/16" x 31-5/16" (20" x 32")

FRAME:
Extruded Aluminum, Black Powder-Coated Paint

HANDLE:
Three Position, Positive Latching

SEAL:
Extruded Silicone Sponge

TRIM RING:
Universal

15" X 28" GENESIS SUNROOF

CAT. NO.	GLASS	TRIM RING
GS1528BH	Solar H.P.	Universal

17" X 32" GENESIS SUNROOF

CAT. NO.	GLASS	TRIM RING
GS1732BH	Solar H.P.	Universal

20" X 32" GENESIS SUNROOF

CAT. NO.	GLASS	TRIM RING
GS2032BH	Solar H.P.	Universal

SFC/CRL SUNROOFS

The Worldwide Symbol for Sunroof Excellence

His N' Hers Sunroofs

- Perfect for Vans and Trucks
- Independently Adjustable

Two words describe the His 'N Hers Sunroof: versatile and practical. The compact 17" x 17" size makes this sunroof the perfect choice for use as either a single or double unit. Placed side by side, they offer installation flexibility, as well as separate control of ventilation for individual comfort. The high performance solar glass can be removed easily for the exhilaration of "open-top" driving. The factory styling of this sunroof is also popular with van enthusiasts. Single units can be installed over the back portion of the vehicle to illuminate and ventilate the rear compartment. Trucks and vans with center overhead consoles limit the space to install a single sunroof. Our His N' Hers Sunroofs are the solution.

17" X 17" HIS 'N HERS SUNROOFS

CAT. NO.	GLASS	TRIM RING*
VT1717B4H	Solar H.P.	Van
VT1717B5H	Solar H.P.	Universal
VT1717B6H	Solar H.P.	Molded

* For the correct trim ring application, ask your trim specialist, or the SFC/CRL Auto Technical Center at (800) 732-7663 Ext. 789.

TECHNICAL DATA

FRAME:
Extruded Aluminum,
Black Powder-Coated Paint

HANDLE:
Three Position;
Positive Latching

SEAL:
Extruded Silicone Sponge

TRIM RINGS:
Universal, Molded
and Van

FRAME SIZE:
17-5/8" x 17-5/8" O.D. (His 'N Hers)
18-3/16" x 36-3/16" O.D. (17" x 35")
20-3/16" x 32-3/16" O.D. (20" x 32")

CUT OUT SIZE:
16-5/8" x 16-5/8" (His 'N Hers)
17-1/8" x 35-1/8" (17" x 35")
20" x 31-3/8" (20" x 32")

GLASS SIZE:
15-1/8" x 15-1/8" (His 'N Hers)
15-5/8" x 33-5/8" (17" x 35")
18-3/4" x 30-1/8" (20" x 32")

Jeep Cherokee and Grand Cherokee Sunroofs

- Specially Designed Frames to Go Over Roof Ridges of the Cherokee
- High Performance Glass Provides 92% U.V. Protection
- 100% Silicone Seal

1991 through 2001 Jeep Cherokee, and Grand Cherokee from 1993 through 1998 require a special sunroof with indents to go over the roof ridges. These AutoPort and NewPort Sunroofs meet those requirements while maintaining all of the quality features that make the AutoPort and NewPort so popular. The high performance glass provides 92% UV protection. The extruded aluminum frame has a black powder-coated paint finish, extruded silicone sponge seal, and a three position handle.

17" X 35" JEEP CHEROKEE AUTOPORT SUNROOF

CAT. NO.	GLASS	TRIM RING
AP1735B5H1	Solar H.P.	Universal

20" X 32" JEEP GRAND CHEROKEE NEWPORT SUNROOF

CAT. NO.	GLASS	TRIM RING
NP2032B5H7	Solar H.P.	Universal

CRL Electric Spoiler Sunroofs

- **Illuminated Switch Gives Convenient Push-Button Electric Open and Close Operation**
- **Adds Value, Luxury and Style to Any Car or Truck**
- **Extremely Low Profile, with No Exposed Exterior Hardware**
- **Dark Tint Solar Privacy Glass**
- **Multiple Position Flexibility**

Variolite® Sunshade in full open position.

Variolite® Sunshade shown closed with European Trim Finish

The convenient design and function of the CRL Electric Spoiler Sunroof offers multiple positioning of the flush, factory-style tempered safety glass. With just a touch of the illuminated switch, the Electric Spoiler Sunroof can be vented, closed or opened up to 12-1/4". With its built-in air deflector and flush-mount, thin line frame, this CRL Sunroof is a plus for any vehicle.

Dark tint solar privacy glass lets the sunshine in while maintaining interior comfort. Our 20"x 32" model ES500 has a built-in Variolite Sunshade that slides open and shut, allowing fresh air to enter while keeping sunlight out.

Our ES100 and ES300 models have all of the great features of the ES500. Optional spring-loaded Sunshade Screens attach with screws, and are concealed when not in use. The ES300 is the same size as ES500, while the 18"x 31" ES100 is a great choice for narrow rooflines and compact vehicles. Whichever size you choose, CRL Electric Spoiler Sunroofs are an excellent alternative to factory-installed electric sunroofs.

Retractable Screen Sunshades

Our fully retractable and concealed Sunshades are an easy-to-install accessory for both sizes of CRL Electric Spoiler Sunroofs.

Optional Dome Lamp

Incorporates a built-in switch for convenient operation, and is integrated into the inner trim for a factory finished appearance.

CAT. NO.	DESCRIPTION
ES500	20" x 32" Electric Sunroof with Variolite Sunshade
ES300	20" x 32" Electric Sunroof without Sunshades
ES100	18" x 31" Electric Sunroof without Sunshades
SS1300	Retractable Sunshades (Pair) for ES300
SS1100	Retractable Sunshades (Pair) for ES100
RM175	Optional Dome Lamp for All Models

OPERATION: Electric, with Optional Illuminated Switch
FRAME: Composite Polymer
SEAL: 100% Silicone
WARRANTY: 5 Year Limited

TECHNICAL DATA

CAT. NO.	OPTIONAL SUNSHADES	FRAME SIZE	GLASS SIZE	CUTOUT SIZE	INTERIOR TRIM	DAYLIGHT OPENING
ES500	INTEGRATED	20" x 32-1/4"	18-1/4" x 30-3/4"	18-3/4" x 31-3/8"	24" x 33-1/4"	12-3/4" x 24-1/2"
ES300	SS1300	20" x 32-1/4"	18-1/4" x 30-3/4"	18-3/4" x 31-3/8"	24" x 33-1/4"	14-3/4" x 25-1/2"
ES100	SS1100	17-1/2" x 30-3/4"	16" x 29-1/8"	16-5/8" x 29-3/16"	21-7/8" x 32"	12-1/4" x 23-3/8"

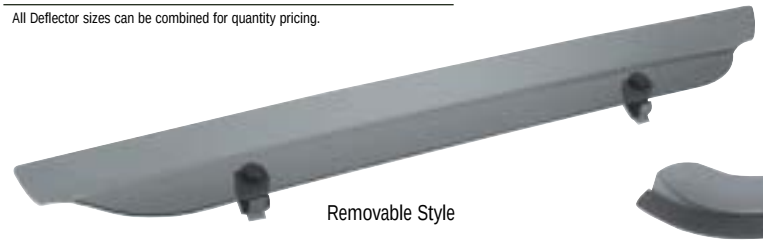
CRL Removable Wind Deflectors

- Directs Wind Over the Sunroof Opening to Reduce Noise
- Easily Snaps Into Place When Glass Panel is Removed
- Smoke Finish Acrylic
- Available in Six Sizes

REMOVABLE WIND DEFLECTORS

CAT. NO.	SPECIFIC APPLICATION
XW30SA	AutoPort 15" x 30"
XW33SA	AutoPort 14" x 33"
XW35SA	AutoPort 17" x 35"
XW36SA	NewPort 16" x 36"
XW38SA	NewPort 22" x 38"
XW32SA	NewPort 32" Wide Units

All Deflector sizes can be combined for quantity pricing.



Removable Style

CRL Permanent Mount Wind Deflectors

- Made from High Quality Acrylic with Smoke Finish
- Aerodynamically Stable at Highway Speeds
- Available in Seven Sizes

Permanent Mount Style

PERMANENT MOUNT WIND DEFLECTORS

CAT. NO.	TYPICAL APPLICATION
XD28SA	28" Wide Sunroofs
XD30SA	30" Wide Sunroofs
XD32SA	32" Wide Sunroofs
XD33SA	33" Wide Sunroofs
XD35SA	35" Wide Sunroofs
XD36SA	36" Wide Sunroofs
XD38SA	38" Wide Sunroofs

All Deflector sizes can be combined for quantity pricing.

All SFC/CRL Sunroofs offer the opportunity to open your interior up to sun and fun. Add a Wind Deflector to your sunroof to complete the open-air experience. Permanent Mount or Removable Wind Deflectors reduce noise and turbulence. If it's the look of a factory sunroof, or the style and function of pop-up or electric spoiler sunroof, SFC/CRL Wind Deflectors will suit your needs.

CRL Deluxe Sunroof Storage Bags

- Protects Glass Panel When Removed from Frame
- Made from Heavy-Duty Black Vinyl with Padded Lining and Hook and Loop Tabs

SUNROOF STORAGE BAGS

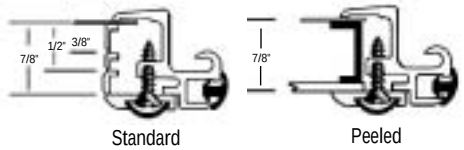
CAT. NO.	FITS GLASS APPLICATION
XB1001	14" x 32", 15" x 30", 17" x 32", 18" x 28", 20" x 32"
XB1004	14" x 33", 16" x 36", 22" x 38"
B362	Dual Glass and His 'N Hers Sunroofs

Sizes can be combined for quantity pricing.

All SFC/CRL Sunroofs offer removable glass panels. Don't let the worry of scratches and scuffs keep you from an open air experience. Our Deluxe Sunroof Storage Bags are the perfect way to protect the glass panel.

Trim Ring Styles for AutoPort, NewPort and His 'N Hers Sunroofs

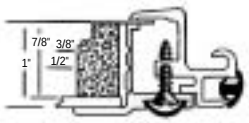
Our engineers have designed all SFC/CRL Sunroofs with features that allow you to tuck the fabric into the frame for that OEM look. That makes them easy to install, and the results will please even your most demanding customers.



Standard Peeled

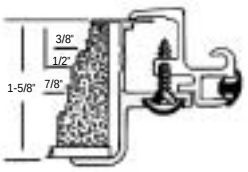
Universal Trim

Universal trim ring with multiple peel away options allows highest degree of installation flexibility.



Molded Trim

Speeds and simplifies installation on hard or thick molded headliner. Allows further flexibility with installation approach.

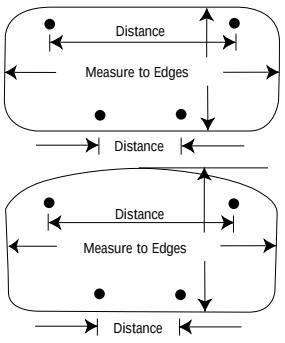


Van Trim

New “modified” van trim ring for deep headliner or panel. Features metal-to-metal contact, eliminating the need for blocking.

Sunroof Replacement Parts Service

We maintain a complete inventory of replacement parts for CRL/SFC Sunroofs, as well as for many other brands. When ordering replacement parts it is extremely important to have the following information: Sunroof part number (if available), brand of sunroof, overall size of sunroof, straight front edge or curved, description of hardware, glass size and type (solar, reflective, dot matrix pattern, etc.), distance between outer hardware on glass, and any other information available. At right we have shown examples of how and where to measure for the required information.



For more assistance call the CRL/SFC Auto Technical Center at (800) SFC-ROOF (732-7663), and ask for Extension 789.

Solar High Performance

Reflective

Dot Matrix

Glass Types

Single Hole Narrow Solid Latch

Double Hole Wide Solid Latch

Double Hole Hollow Center Latch

Bio-Mechanical Solid Latch

Sunroof Installation Tools

CRL Heavy-Duty Air Nibbler

- Cuts Up to 18 Gauge Metal
- Efficient and Powerful
- Easy to Operate and Control

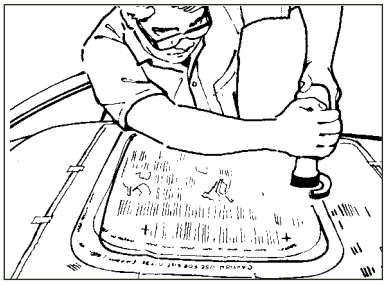
Get a bigger bite and better angle cuts with CRL's Heavy-Duty Air Nibbler. Instead of shearing or sawing, this tool actually "nibbles" aluminum, cold rolled steel, plastics and an assortment of other metals up to 18 gauge thickness. It will not distort the edges of material being cut, and is designed so you can start cuts in the center of a panel and hold a tight 1/4" radius with great accuracy. 90 P.S.I. required.

CAT. NO.	DESCRIPTION
AK80TOOL	Heavy-Duty Air Nibbler

CRL Bosch Unishear

- A Super Tool for Sunroof Cut-Outs
- Cuts Up to 14 Gauge Metal at 5,000 Strokes Per Minute
- Cuts Aluminum, Mild and Stainless Steel Quickly and Efficiently

CAT. NO.	DESCRIPTION
B1500	Bosch Unishear
3607010028	Replacement Blade Set



The Bosch Unishear Tool is lightweight, easy-to-manuever electric shear for mild and stainless steel, and aluminum. Small in size and well balanced, it is designed to cut up to 14 gauge metal efficiently and quickly at up to 5,000 strokes per minute. The cutting head allows full visibility of the blade so that the intended cut-out can be made precisely on the template markings. This is especially helpful when using Unishear for sunroof cut-outs, where tolerances must be exact. Unishear is double insulated for operator safety, and plugs into grounded 115V AC outlets. Capacities - Mild Steel: 16 gauge; Stainless Steel: 18 gauge; Aluminum: 14 gauge.

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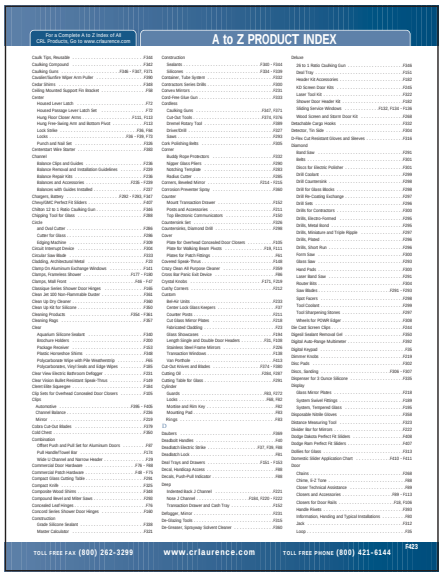

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