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.
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.
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!

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.

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 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**

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**

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**
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.
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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.
“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!
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

Designers of store fronts 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
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
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

Wedge-Lock Glass Securing System

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

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.

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**: 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

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

<table>
<thead>
<tr>
<th>WITHOUT LOCK</th>
<th>WITH LOCK</th>
<th>FINISH</th>
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<tbody>
<tr>
<td>DR4TSA12S</td>
<td>DR4TSA12SL</td>
<td>Clear Anodized</td>
</tr>
<tr>
<td>DR4TDU12S</td>
<td>DR4TDU12SL</td>
<td>Duranodic Bronze</td>
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<td>Polished Stainless</td>
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<td>DR4TPS12S</td>
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<td>DR4TPB12S</td>
<td>DR4TPB12SL</td>
<td>Polished Brass</td>
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35-3/4" LENGTH

4" TAPERED DOUBLE DOOR RAILS

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<tr>
<th>WITHOUT LOCK</th>
<th>WITH LOCK</th>
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<td>DR4TPB12DL</td>
<td>Polished Brass</td>
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35-13/16" LENGTH

4" CUSTOM LENGTH** TAPERED SINGLE DOOR RAILS

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<tr>
<th>WITHOUT LOCK</th>
<th>WITH LOCK</th>
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<td>Clear Anodized</td>
</tr>
<tr>
<td>DR4TDU12C</td>
<td>DR4TDU12CL</td>
<td>Duranodic Bronze</td>
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<tr>
<td>DR4TSS12C</td>
<td>DR4TSS12CL</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>DR4TPS12C</td>
<td>DR4TPS12CL</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>DR4TPB12C</td>
<td>DR4TPB12CL</td>
<td>Polished Brass</td>
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</tbody>
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4" CUSTOM LENGTH** SQUARE SINGLE DOOR RAILS

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<td>Polished Brass</td>
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</tbody>
</table>

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

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

<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
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<td>Polished Brass</td>
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</table>

35-3/4" LENGTH

4" SQUARE DOUBLE DOOR RAILS

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<tr>
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<td>DR4SPB12DL</td>
<td>Polished Brass</td>
</tr>
</tbody>
</table>

35-13/16" LENGTH

All Door Rails can be combined for quantity pricing.

END CAPS FOR 4" TAPERED DOOR RAILS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<tbody>
<tr>
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<tr>
<td>DREC4TDU</td>
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</tr>
<tr>
<td>DREC4TPS</td>
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</tr>
<tr>
<td>DREC4TBS</td>
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</tr>
<tr>
<td>DREC4TPB</td>
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</tr>
</tbody>
</table>

All End Caps can be combined for quantity pricing.

END CAPS FOR 4" SQUARE DOOR RAILS

<table>
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</tr>
<tr>
<td>DREC4SPB</td>
<td>Polished Brass</td>
</tr>
</tbody>
</table>

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

6” SQUARE SINGLE DOOR RAILS
35-3/4” LENGTH

<table>
<thead>
<tr>
<th>WITHOUT LOCK</th>
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<tbody>
<tr>
<td>DR6SSA12S</td>
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</tr>
<tr>
<td>DR6SB12S</td>
<td>DR6SB12SL</td>
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</tr>
<tr>
<td>DR6SPB12S</td>
<td>DR6SPB12SL</td>
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6” SQUARE DOUBLE DOOR RAILS
35-13/16” LENGTH

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<tbody>
<tr>
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<tr>
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</tr>
<tr>
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6” CUSTOM LENGTH** SQUARE SINGLE DOOR RAILS

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<tr>
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All Door Rails can be combined for quantity pricing.

END CAPS FOR 6” SQUARE DOOR RAILS

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<tr>
<td>DREC6SPB</td>
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</tbody>
</table>

All End Caps can be combined for quantity pricing.

- 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

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

TOLL FREE FAX (800) 262-3299  www.crlaurence.com  TOLL FREE PHONE (800) 421-6144
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

All Door Rails can be combined for quantity pricing.

### 10" Square Single Door Rails

<table>
<thead>
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</thead>
<tbody>
<tr>
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<tr>
<td>DR10SPS12S</td>
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<td>DR10SPS12SL</td>
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<tr>
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<td>Brushed Stainless</td>
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<tr>
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### 10" Square Double Door Rails

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<tbody>
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<tr>
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<td>Polished Stainless</td>
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<tr>
<td>DR10SBS12D</td>
<td>Brushed Stainless</td>
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<tr>
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### 10" Custom Length** Single Door Rails

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### End Caps for 10" Square Door Rails

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<tbody>
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<tr>
<td>Polished Brass</td>
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</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>10&quot; SQUARE SINGLE DOOR RAILS</th>
<th>35-3/4&quot; LENGTH</th>
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<th>WITH LOCK</th>
<th>FINISH</th>
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<tbody>
<tr>
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<td>DR10SB34S</td>
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<table>
<thead>
<tr>
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<th>35-13/16&quot; LENGTH</th>
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<td>DR10SPB34D</td>
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<td>Polished Brass</td>
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10" CUSTOM LENGTH** SQUARE SINGLE DOOR RAILS

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<td>DR10SPB34C</td>
<td>DR10SPB34CL</td>
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4" Square Door Rails

- Available With or Without Lock

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

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<tr>
<th>4&quot; SQUARE SINGLE DOOR RAILS</th>
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<th>FINISH</th>
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<tbody>
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<td>DR4SB34S</td>
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<th>FINISH</th>
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<tr>
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<td>DR4SPB34C</td>
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END CAPS FOR 10" SQUARE DOOR RAILS

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<tr>
<td>DREC10SPB34</td>
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All Door Rails can be combined for quantity pricing.

All End Caps can be combined for quantity pricing.

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

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<td>DR4TBS12P</td>
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<tr>
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### 4" Square 9-1/2" Patch Door Rails

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**End Caps for 4" Tapered 9-1/2" Patch Door Rails**

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**End Caps for 4" Square 9-1/2" Patch Door Rails**

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<tr>
<td>DREC4SPB</td>
<td>Polished Brass</td>
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</tbody>
</table>

End Caps can be combined for quantity pricing.

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

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.

CRL Pile Weatherstrips for Door Rails

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

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.

CRL Snug Strip Nylon Pile

- Apply to Vertical Edge of Glass Door to Reduce Drafts

CRL Residential/Commercial 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!

CRL Stainless Steel Saddle Thresholds

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>TYPE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRA10SA</td>
<td>Key Cylinder</td>
<td>Clear Anodized</td>
</tr>
<tr>
<td>DRA10DU</td>
<td>Key Cylinder</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>DRA10PS</td>
<td>Key Cylinder</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>DRA10BS</td>
<td>Key Cylinder</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>DRA10PB</td>
<td>Key Cylinder</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>DRA20SA</td>
<td>Thumbturn</td>
<td>Clear Anodized</td>
</tr>
<tr>
<td>DRA20DU</td>
<td>Thumbturn</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>DRA20PS</td>
<td>Thumbturn</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>DRA20BS</td>
<td>Thumbturn</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>DRA20PB</td>
<td>Thumbturn</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>DRA30SA</td>
<td>Dummy Cylinder</td>
<td>Clear Anodized</td>
</tr>
<tr>
<td>DRA30DU</td>
<td>Dummy Cylinder</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>DRA30PS</td>
<td>Dummy Cylinder</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>DRA30BS</td>
<td>Dummy Cylinder</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>DRA30PB</td>
<td>Dummy Cylinder</td>
<td>Polished Brass</td>
</tr>
</tbody>
</table>

Finishes can be combined for quantity pricing.

Straight Cylinder Rings
For Spacing Mortise Key Cylinders

• 3 Thicknesses to Fit Cylinders and Thumbturns Above

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRA100BS</td>
<td>.100&quot;</td>
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<tr>
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<td>.100&quot;</td>
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<td>DRA100PS</td>
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<td>DRA100SA</td>
<td>.100&quot;</td>
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</tr>
<tr>
<td>DRA256BS</td>
<td>.256&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>DRA256PB</td>
<td>.256&quot;</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>DRA256PS</td>
<td>.256&quot;</td>
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<td>DRA256SA</td>
<td>.256&quot;</td>
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<tr>
<td>DRA360BS</td>
<td>.360&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>DRA360DU</td>
<td>.360&quot;</td>
<td>Duranodic Bronze</td>
</tr>
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<td>DRA360PB</td>
<td>.360&quot;</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>DRA360PS</td>
<td>.360&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>DRA360SA</td>
<td>.360&quot;</td>
<td>Clear Anodized</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRACAM</td>
<td></td>
</tr>
</tbody>
</table>

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
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.

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

Gripping Jaw Replacements for Door Rails

• Custom Sizes Available

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>JAW SIZE</th>
<th>RAIL SIZE</th>
<th>GLASS SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGJ12</td>
<td>Large</td>
<td>10&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>SGJ12</td>
<td>Small</td>
<td>4&quot; &amp; 6&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>SGJ38</td>
<td>Small</td>
<td>4&quot; &amp; 6&quot;</td>
<td>3/8&quot;</td>
</tr>
</tbody>
</table>

Sold only in sets of two.

Contact CRL Technical Sales at (800) 421-6144, Ext 777 for information.
CRL Overhead Concealed Door Closers for Patch Fittings and Door Rails

- 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

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**  
--- | --- | ---  
CRL8520 | A.D.A. - 8.5 lb. | 36” (915 mm)  
CRL8530 | Medium | 46” (1168 mm)  
CRL8540 | Heavy | 54” (1372 mm)  
CRL8550 | Heavy | 60” (1524 mm)

All CRL Door Closers can be combined for quantity pricing.

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**  
--- | --- | ---  
CRL8330 | 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.

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

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SPRING SIZE</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRL8460</td>
<td>Medium</td>
<td>180° Hold Open @ 90°</td>
</tr>
<tr>
<td>CRL8462</td>
<td>Medium</td>
<td>180° Hold Open</td>
</tr>
</tbody>
</table>

All CRL Door Closers can be combined for quantity pricing.

All CRL Door Closers can be combined for quantity pricing.

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.
GLASS ENTRANCE SYSTEM

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
CRL9040CPBB 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. HANDBING FINISH
AGT2LBB Left Hand Brushed Stainless
AGT2LPS Left Hand Polished Stainless
AGT2RBB 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
3/4" Offset Bottom Pivot Arm for use with CRL Door Rails, as well as standard wood, aluminum and hollow metal doors.

RH/LHR

CAT. NO. FINISH
CRL9077PB Polished Brass
CRL9077PS Polished Stainless
CRL9077BS Brushed Stainless
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

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
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.

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>STOCK LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDGC98</td>
<td>Sliding Door Gap Closing Polycarbonate</td>
<td>98” (2490mm)</td>
</tr>
</tbody>
</table>

Stock lengths are individually packed to protect them during shipping.

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

<table>
<thead>
<tr>
<th>X</th>
<th>XX</th>
<th>X[(OX)]</th>
<th>X[O]X</th>
<th>OX</th>
<th>OXO</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINISH</td>
<td>4” TAPERED RAIL TOP AND BOTTOM</td>
<td>FINISH</td>
<td>4” SQUARE RAIL TOP AND BOTTOM</td>
<td>FINISH</td>
<td>4” SQUARE RAIL TOP, 6” SQUARE RAIL BOTTOM</td>
</tr>
<tr>
<td>Brushed Stainless</td>
<td>SDR1ABS</td>
<td>Brushed Stainless</td>
<td>4SDR1ABS</td>
<td>Brushed Stainless</td>
<td>6SDR1ABS</td>
</tr>
<tr>
<td>Duranodic Bronze</td>
<td>SDR1ADU</td>
<td>Duranodic Bronze</td>
<td>4SDR1ADU</td>
<td>Duranodic Bronze</td>
<td>6SDR1ADU</td>
</tr>
<tr>
<td>Polished Brass</td>
<td>SDR1APB</td>
<td>Polished Brass</td>
<td>4SDR1APB</td>
<td>Polished Brass</td>
<td>6SDR1APB</td>
</tr>
<tr>
<td>Polished Stainless</td>
<td>SDR1APS</td>
<td>Polished Stainless</td>
<td>4SDR1APS</td>
<td>Polished Stainless</td>
<td>6SDR1APS</td>
</tr>
<tr>
<td>Satin Anodized</td>
<td>SDR1ASA</td>
<td>Satin Anodized</td>
<td>4SDR1ASA</td>
<td>Satin Anodized</td>
<td>6SDR1ASA</td>
</tr>
</tbody>
</table>

### NEW

- **Closes Gaps Up to 1-13/16” Wide**

Closes Gaps Up to 1-13/16” Wide

<table>
<thead>
<tr>
<th>Inside Panel</th>
</tr>
</thead>
</table>
GLASS ENTRANCE SYSTEM

Overhead Track Sliding and Bi-Fold Doors

- 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.

Sliding Door Configurations

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>TYPE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTS1SA</td>
<td>Sliding</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>OTS1DU</td>
<td>Sliding</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>OTS1PS</td>
<td>Sliding</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>OTS1BS</td>
<td>Sliding</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>OTS1PB</td>
<td>Sliding</td>
<td>Polished Brass</td>
</tr>
</tbody>
</table>

TYPICAL USES

- Stadium Luxury Boxes
- Conference Rooms
- Display Cases
- Large Entry Doors
- “Open Air” Rooms

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  |

Full Leaf Bi-Fold Door Handle

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

- 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

- 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

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

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>K3319</td>
<td>Series K80 Steel Track 157&quot; (4 meters) Long</td>
</tr>
<tr>
<td>K3387</td>
<td>Series K80 Steel Wall Bracket (10 per Pack)</td>
</tr>
<tr>
<td>K3924</td>
<td>Series K80 2 Rollers and 2 Stops</td>
</tr>
<tr>
<td>K3925</td>
<td>Series K80 2 Regulator Bolts</td>
</tr>
<tr>
<td>K3926</td>
<td>Series K80 2 Clamps and 1 Guide</td>
</tr>
<tr>
<td>K3938</td>
<td>Series K80/K180 Bottom Guide</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>K3611</td>
<td>Series K180 Steel Track 157&quot; (4 meters) Long</td>
</tr>
<tr>
<td>K3686</td>
<td>Series K180 Steel Wall Bracket (10 per Pack)</td>
</tr>
<tr>
<td>K3927</td>
<td>Series K180 2 Rollers and 2 Stops</td>
</tr>
<tr>
<td>K3928</td>
<td>Series K180 2 Regulator Bolts</td>
</tr>
<tr>
<td>K3929</td>
<td>Series K180 2 Clamps and 1 Guide</td>
</tr>
<tr>
<td>K3938</td>
<td>Series K80/K180 Bottom Guide</td>
</tr>
</tbody>
</table>

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

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

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

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.

For more information contact CRL Technical Sales at (800) 421-6144, Ext. 777, or e-mail techsales@crlaurence.com
CRL Top Hung Double Track Sliding Door System

- 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

TYPICAL APPLICATIONS:
• Closets  • Display Cases  • Cabinets  • Pass-thru

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

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>K3907</td>
<td>Aluminum Track 118&quot; (3 meters) Long</td>
</tr>
<tr>
<td>K3924</td>
<td>2 Rollers and 2 Stops</td>
</tr>
<tr>
<td>K3925</td>
<td>2 Regulator Bolts</td>
</tr>
<tr>
<td>K3926</td>
<td>2 Clamps and 1 Guide</td>
</tr>
<tr>
<td>K3938</td>
<td>Bottom Guide</td>
</tr>
</tbody>
</table>

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.

4" SIDELITE RAILS

<table>
<thead>
<tr>
<th>4&quot; TAPERED</th>
<th>4&quot; SQUARE</th>
<th>FINISH</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SREC6SPB</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SREC6SPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SREC6SDU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SREC6SSA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6" SIDELITE RAILS

<table>
<thead>
<tr>
<th>6&quot; SQUARE</th>
<th>FINISH</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Clear Anodized</td>
<td>SREC6SSA</td>
</tr>
<tr>
<td></td>
<td>Duranodic Bronze</td>
<td>SREC6SDU</td>
</tr>
<tr>
<td></td>
<td>Polished Stainless</td>
<td>SREC6SPS</td>
</tr>
<tr>
<td></td>
<td>Brushed Stainless</td>
<td>SREC6SSB</td>
</tr>
<tr>
<td></td>
<td>Polished Brass</td>
<td>SREC6SPB</td>
</tr>
</tbody>
</table>

END CAPS FOR 4" SIDELITE RAILS

<table>
<thead>
<tr>
<th>4&quot; TAPERED</th>
<th>4&quot; SQUARE</th>
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<th>CAT. NO.</th>
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</thead>
<tbody>
<tr>
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<tr>
<td></td>
<td>SREC4TBS</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SREC4TPB</td>
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</tr>
<tr>
<td></td>
<td>SREC4TBS</td>
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END CAPS FOR 6" AND 10" SIDELITE RAILS

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<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Clear Anodized</td>
<td>SREC6SSA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Duranodic Bronze</td>
<td>SREC6SDU</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Polished Stainless</td>
<td>SREC6SPS</td>
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</tr>
<tr>
<td></td>
<td>Brushed Stainless</td>
<td>SREC6SSB</td>
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</tr>
<tr>
<td></td>
<td>Polished Brass</td>
<td>SREC6SPB</td>
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</tr>
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</table>

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

<table>
<thead>
<tr>
<th>TAPERED CAT. NO.</th>
<th>SQUARE CAT. NO.</th>
<th>GLASS SIZE</th>
<th>FEET/ROLL</th>
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</thead>
<tbody>
<tr>
<td>GG38100</td>
<td>GG38100</td>
<td>3/8&quot; (10mm)</td>
<td>100</td>
</tr>
<tr>
<td>GG38500</td>
<td>GG38500</td>
<td>3/8&quot; (10mm)</td>
<td>500</td>
</tr>
<tr>
<td>GG12100</td>
<td>GG12100</td>
<td>1/2&quot; (12mm)</td>
<td>100</td>
</tr>
<tr>
<td>GG12500</td>
<td>GG12500</td>
<td>1/2&quot; (12mm)</td>
<td>500</td>
</tr>
</tbody>
</table>
CRL Sidelite Rails for 3/4" (19mm) Glass

- Two Styles in Five Stock Finishes:
  - Brushed Stainless
  - Polished Brass
  - Clear Anodized
  - 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.

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

- 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.

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

END CAPS FOR 10" SQUARE SIDELITE RAILS

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR10SSA4QL</td>
<td>Clear Anodized</td>
</tr>
<tr>
<td>SR10SDU4QL</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>SR10SPS4QL</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>SR10SPB4QL</td>
<td>Polished Brass</td>
</tr>
</tbody>
</table>

** Sidelite Rail length (including End Caps) must be specified when ordering. - Maximum length 120", 240" for SA and DU.

END CAPS FOR 4" SQUARE SIDELITE RAILS

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DREC10SSA4</td>
<td>Clear Anodized</td>
</tr>
<tr>
<td>DREC10SDU4</td>
<td>Duranodic Bronze</td>
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<tr>
<td>DREC10SPS4</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>DREC10SPB4</td>
<td>Polished Brass</td>
</tr>
</tbody>
</table>

** Sidelite Rail length (including End Caps) must be specified when ordering. - Maximum length 120", 240" for SA and DU.

END CAPS FOR 4" SQUARE SIDELITE RAILS

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SREC4SSA4</td>
<td>Clear Anodized</td>
</tr>
<tr>
<td>SREC4SDU4</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>SREC4SPS4</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>SREC4SPB4</td>
<td>Polished Brass</td>
</tr>
</tbody>
</table>

** Sidelite Rail length (including End Caps) must be specified when ordering. - Maximum length 120", 240" for SA and DU.

END CAPS FOR 4" SQUARE SIDELITE RAILS

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>GG12100</td>
<td>3/4&quot; (19mm)</td>
</tr>
<tr>
<td>GG12500</td>
<td>3/4&quot; (19mm)</td>
</tr>
</tbody>
</table>

TOLL FREE FAX (800) 262-3299  TOLL FREE PHONE (800) 421-6144
CRL “U” Channel with Top Load Roll-In Gasket

**Regular “U” Channel**
- Accepts 3/8” (10mm) or 1/2” (12mm) Glass

**Shallow “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 feet 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.

**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.

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

- **3/8” Glass**
  - **GG38100**: 3/8” (10mm) - 100 FEET/ROLL
  - **GG38500**: 3/8” (10mm) - 500 FEET/ROLL
  - **GG12100**: 1/2” (12mm) - 100 FEET/ROLL
  - **GG12500**: 1/2” (12mm) - 500 FEET/ROLL

Glazing Gasket, End Caps and Setting Blocks sold separately.
CRL Combination Wide “U” Channel and Narrow Header

- 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

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

<table>
<thead>
<tr>
<th>Stock Length</th>
<th>Stock Length</th>
<th>Finish</th>
<th>End Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>120”</td>
<td>240”</td>
<td>Clear Anodized</td>
<td>NHECSA</td>
</tr>
<tr>
<td>NH2SASL</td>
<td>NH2SA240#</td>
<td>Duranodic Bronze</td>
<td>NHEEDU</td>
</tr>
<tr>
<td>NH2DUSL</td>
<td>NH2DU240#</td>
<td>Polished Brass</td>
<td>NHECPB</td>
</tr>
<tr>
<td>NH2PBSL</td>
<td>NH2PBSL</td>
<td>Polished Stainless</td>
<td>NHECPS</td>
</tr>
<tr>
<td>NH2PSSL</td>
<td>NH2PSSL</td>
<td>Brushed Stainless</td>
<td>NHECBS</td>
</tr>
</tbody>
</table>

### Wide “U” Channel for 3/4” (19mm) Glass

<table>
<thead>
<tr>
<th>Stock Length</th>
<th>Stock Length</th>
<th>Finish</th>
<th>End Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>120”</td>
<td>240”</td>
<td>Clear Anodized</td>
<td>NHECSA</td>
</tr>
<tr>
<td>NH3SASL</td>
<td>NH3SA240#</td>
<td>Duranodic Bronze</td>
<td>NHEEDU</td>
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<tr>
<td>NH3DUSL</td>
<td>NH3DU240#</td>
<td>Polished Brass</td>
<td>NHECPB</td>
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<tr>
<td>NH3PBSL</td>
<td>NH3PBSL</td>
<td>Polished Stainless</td>
<td>NHECPS</td>
</tr>
<tr>
<td>NH3PSSL</td>
<td>NH3PSSL</td>
<td>Brushed Stainless</td>
<td>NHECBS</td>
</tr>
</tbody>
</table>

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

### New CRL Wet Glaze “U” Channel

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.

### 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.

<table>
<thead>
<tr>
<th>Cat No.</th>
<th>Glass Size</th>
<th>Feet/Roll</th>
</tr>
</thead>
<tbody>
<tr>
<td>RG38100</td>
<td>3/8” (10mm)</td>
<td>100</td>
</tr>
<tr>
<td>RG38500</td>
<td>3/8” (10mm)</td>
<td>500</td>
</tr>
<tr>
<td>RG12100</td>
<td>1/2” (12mm)</td>
<td>100</td>
</tr>
<tr>
<td>RG12250</td>
<td>1/2” (12mm)</td>
<td>500</td>
</tr>
</tbody>
</table>

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

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

- 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 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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>LENGTH</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HH4WHS</td>
<td>36” Single Door</td>
<td></td>
</tr>
<tr>
<td>HH4WHD</td>
<td>72” Double Door</td>
<td></td>
</tr>
<tr>
<td>HH4WHCS</td>
<td>Custom* Single Door</td>
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</tr>
<tr>
<td>HH4WHCD</td>
<td>Custom* Double Door</td>
<td></td>
</tr>
</tbody>
</table>

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

HAT CHANNEL

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

<table>
<thead>
<tr>
<th>CAT NO.</th>
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</thead>
<tbody>
<tr>
<td>HC1WHSL</td>
<td>120”*</td>
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</tr>
<tr>
<td>HC1WH240</td>
<td>240”* #</td>
<td></td>
</tr>
<tr>
<td>HC1WHCL</td>
<td>Custom* **</td>
<td></td>
</tr>
</tbody>
</table>

** 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.

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com
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

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).

### 36" SINGLE DOOR HEADERS

<table>
<thead>
<tr>
<th>Width</th>
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<tbody>
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<td>DCH4SAS</td>
<td>DCH4DUS</td>
<td>DCH4PPS</td>
</tr>
<tr>
<td></td>
<td>4-1/2&quot; x 1-3/4&quot;</td>
<td>4-1/2&quot; x 1-3/4&quot;</td>
<td>4-3/16&quot; x 1-7/8&quot;</td>
</tr>
<tr>
<td>4-1/2&quot;</td>
<td>DCH4SCS</td>
<td>DCH4DUCS</td>
<td>DCH4PPCS</td>
</tr>
<tr>
<td></td>
<td>4-1/2&quot; x 1-3/4&quot;</td>
<td>4-1/2&quot; x 1-3/4&quot;</td>
<td>4-3/16&quot; x 1-7/8&quot;</td>
</tr>
<tr>
<td></td>
<td>DCH4BSS</td>
<td>DCH4BSS</td>
<td>DCH4BSS</td>
</tr>
<tr>
<td></td>
<td>4-3/16&quot; x 1-7/8&quot;</td>
<td>4-3/16&quot; x 1-7/8&quot;</td>
<td>4-3/16&quot; x 1-7/8&quot;</td>
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<tr>
<td></td>
<td>DCH4BPS</td>
<td>DCH4BPS</td>
<td>DCH4BPS</td>
</tr>
<tr>
<td></td>
<td>4-3/16&quot; x 1-7/8&quot;</td>
<td>4-3/16&quot; x 1-7/8&quot;</td>
<td>4-3/16&quot; x 1-7/8&quot;</td>
</tr>
</tbody>
</table>

### CUSTOM LENGTH * SINGLE DOOR HEADERS

<table>
<thead>
<tr>
<th>Width</th>
<th>Rectangular</th>
<th>Rectangular</th>
<th>Rectangular</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>DCH4SCS</td>
<td>DCH4DUCS</td>
<td>DCH4PPCS</td>
</tr>
<tr>
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<td>4-3/16&quot; x 1-7/8&quot;</td>
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</tr>
</tbody>
</table>

### 72" DOUBLE DOOR HEADERS

- 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).

### CUSTOM LENGTH * DOUBLE DOOR HEADERS

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</table>

### 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.

**Header length must be specified when ordering.**

Headers do not include Door Closers. Finishes and sizes can be combined for quantity pricing.
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.

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

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

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 DoorRails. 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.

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

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.

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.

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.
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.

12 Volt Current Draw: 300mA (standby); Face: 1-5/16" x 8-5/16" (33 mm x 211 mm)
24 Volt Current Draw: 150mA (standby); 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).

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).

Digital Keypad

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

- 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

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

12V DC Transformer

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

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.
**CRL 4" x 10" Center Locks and Glass Keepers**

**Center Lock with Deadlatch**
- 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.

**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.

---

**CRL Center Lock Strike**
- 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.

---

**Other Glass Mounted Latches and Keepers Available from CRL**

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

**Glass Mounted Passage Latch for Single or Double Doors**

**Glass Mounted Latch Keeper for Either Latch Above**

See page F71 for details.
CRL 4" x 10" Center Locks and Glass Keepers

Custom Center Lock with Deadlatch

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).

• 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

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.

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

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" (12mm) heavy glass doors. Extra gaskets available on special order for doors using 3/8" (10mm) 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).

<table>
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<tr>
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<td>DT410PS</td>
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</tr>
<tr>
<td>DT410SC</td>
<td>Non-Handed</td>
<td>Satin Chrome</td>
</tr>
</tbody>
</table>

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.

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</table>

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.

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 outside. Available in four attractive finishes for 1/2" (12mm) heavy glass doors. Extra gaskets available on special order for doors using 3/8" (10mm) 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).

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<td>DH410PS</td>
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</tr>
<tr>
<td>DH410SC</td>
<td>Non-Handed</td>
<td>Satin Chrome</td>
</tr>
</tbody>
</table>

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" (12mm) heavy glass doors. Extra gaskets are available on special order for doors using 3/8" (10mm) glass. Center Locks with Deadlock are shown above.

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<tr>
<th>CAT NO.</th>
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<tr>
<td>DTK410SC</td>
<td>Non-Handed</td>
<td>Satin Chrome</td>
</tr>
</tbody>
</table>

Glass Cut-Out Required
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)

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.

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.

NEW
CRL Panic and Deadbolt Handles

NEW

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.

Specifications:
- 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.

PANIC HANDLES

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DEADBOLT HANDLES

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<tr>
<td>DB3696LPS</td>
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DOOR STOP/STRIKE

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Optional Keyed Access Device

KEYED ACCESS DEVICE

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ELECTRIC STRIKE KEEPER

<table>
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ELECTRIC STRIKE

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</tbody>
</table>

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

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com
CRL Electronic Egress Control Handles

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**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>HANDING*</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EG3696LBS</td>
<td>Left Hand</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>EG3696LPS</td>
<td>Left Hand</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>EG3696RBS</td>
<td>Right Hand</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>EG3696RPS</td>
<td>Right Hand</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

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

**KEYED ACCESS DEVICE**

<table>
<thead>
<tr>
<th>LEFT HAND</th>
<th>RIGHT HAND</th>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>KAD2LBS</td>
<td>KAD2RBS</td>
<td>KAD2LPS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>KAD2LPS</td>
<td>KAD2RPS</td>
<td></td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

Can be combined for quantity pricing.

**LOCKING OPTIONS**

- Concealed Magnetic Locks
- Surface Mounted Magnetic Locks
- Electric Deadbolts

**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

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

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

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

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

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

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
CRL Extra Length Ladder Style Pull Handles

- 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

---

CRL Frameless Sliding Door Handles

- 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 are 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

---

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

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

---

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.

---

### CRL Frameless Mail Slot

<table>
<thead>
<tr>
<th>CAT/NO.</th>
<th>OVERALL LENGTH</th>
<th>MOUNTING HOLES CENTER-TO-CENTER</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMS500BN</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Brushed Nickel</td>
</tr>
<tr>
<td>FMS500BR</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Lacquered Brass</td>
</tr>
<tr>
<td>FMS500CH</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Chrome</td>
</tr>
<tr>
<td>FMS500SC</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Satin Chrome</td>
</tr>
</tbody>
</table>

Finishes can be combined for quantity pricing.

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### CRL Frameless Sliding Door Handles

<table>
<thead>
<tr>
<th>CAT/NO.</th>
<th>OVERALL LENGTH</th>
<th>MOUNTING HOLES CENTER-TO-CENTER</th>
<th>FINISH</th>
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<tbody>
<tr>
<td>SGH8BN</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Brushed Nickel</td>
</tr>
<tr>
<td>SGH8BR</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Lacquered Brass</td>
</tr>
<tr>
<td>SGH8CH</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Chrome</td>
</tr>
<tr>
<td>SGH8SC</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Satin Chrome</td>
</tr>
</tbody>
</table>

Finishes can be combined for quantity pricing.

---

### CRL Extra Length Ladder Style Pull Handles

<table>
<thead>
<tr>
<th>CAT/NO.</th>
<th>OVERALL LENGTH</th>
<th>MOUNTING HOLES CENTER-TO-CENTER</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>48LPBS</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>48LPBS</td>
<td>48&quot;</td>
<td>36&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>60LPBS</td>
<td>60&quot;</td>
<td>48&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>60LPBS</td>
<td>60&quot;</td>
<td>48&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>72LPBS</td>
<td>72&quot;</td>
<td>60&quot;</td>
<td>Brushed Stainless</td>
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<tr>
<td>72LPBS</td>
<td>72&quot;</td>
<td>60&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>84LPBS</td>
<td>84&quot;</td>
<td>72&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>84LPBS</td>
<td>84&quot;</td>
<td>72&quot;</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

Finishes can be combined for quantity pricing.

---

**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.
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

**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

CRL Glass Mounted Straight and Offset Combination Push and Pull Handles

**INCLUDES:**
1 Set: CM10X28, CM12X28, 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
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)

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>CC12X12BR</td>
<td>Polished Brass</td>
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<tr>
<td>CC12X12BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>CC12X12PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>CX17X17BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>CX17X17PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV12X12BR</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>CV12X12BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>CV12X12PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

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)

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CQ10X10BR</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>CQ10X10CH</td>
<td>Chrome Plated</td>
</tr>
<tr>
<td>CQ10X10ABR</td>
<td>Antique Brass</td>
</tr>
<tr>
<td>CQ10X10BSC</td>
<td>Brushed Satin Chrome</td>
</tr>
<tr>
<td>CQ10X10BN</td>
<td>Brushed Nickel</td>
</tr>
<tr>
<td>CQ10X10PN</td>
<td>Polished Nickel</td>
</tr>
<tr>
<td>CQ10X10GP</td>
<td>Gold Plated</td>
</tr>
<tr>
<td>CQ10X10ORB</td>
<td>Oil Rub Bronze</td>
</tr>
</tbody>
</table>
CRL Mall Front Clamps for Fixed Glass Panels

- 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”.

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. | 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.

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

<table>
<thead>
<tr>
<th>One Clamp Centered</th>
<th>Two Clamps Equally Spaced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum of one clamp centered, not to exceed 48” (1.2m) spacing from top or bottom edges of glass</td>
<td>Minimum of two clamps equally spaced, not to exceed 48” (1.2m) apart</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>One Clamp Centered</th>
<th>Two Clamps Equally Spaced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum of one clamp centered, not to exceed 48” (1.2m) spacing from top or bottom edges of glass</td>
<td>Minimum of two clamps equally spaced, not to exceed 48” (1.2m) apart</td>
</tr>
</tbody>
</table>
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

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

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.
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
Maximium Door Weight: 176 lbs. (80kg)
Maximium 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
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

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.

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

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.
**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

---

**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

---

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:
- 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

**Incomplete Door Patch Fitting:**
Glass Fabrication Required:
- One 3/4" (19mm) Diameter Hole and Corner Notch

**COMPLETE TOP DOOR PATCH FITTING**
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.

**COMPLETE TOP DOOR PATCH FITTING**
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

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

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

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

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.

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TOLL FREE FAX (800) 262-3299 www.crlaurence.com TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
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

 incluses:
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

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.

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

 incluses:
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

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.
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

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.

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

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.
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

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.

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

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.
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

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.

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

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 TRANSMOUNTED PATCH CONNECTOR WITH SUPPORT FIN BRACKET**

**CAT. NO.**
- 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.**
- 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.**
- 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

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

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

For PH34 Wall Mounted Transom Patch Fittings

For PH40 Sidelite Mounted Transom Patch Fittings

INCLUDES:
1 Set of Two Cover Plates

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<td>Aluminum</td>
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Replacement Cover Plates can be combined for quantity pricing.

CRL Replacement Gaskets and Grommets for Patch Fittings

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

For PH40 Sidelite Mounted Transom Patch Fittings

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

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Replacement Gaskets can be combined for quantity pricing.

CRL Replacement Screws

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

REPLACEMENT HEX SOCKET MACHINE OR ALLEN SCREWS

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<tr>
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<tr>
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<td>8mm x 25mm</td>
<td>Flat Head Hex Socket</td>
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<td>M6X25F</td>
<td>6mm x 25mm</td>
<td>Flat Head Hex Socket</td>
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<tr>
<td>M6X20C</td>
<td>6mm x 20mm</td>
<td>Cap Head Hex Socket 1NT300, 1NT303, 1NT306, AMR305 Inserts</td>
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<tr>
<td>M6X175F</td>
<td>6mm x 17.5mm</td>
<td>Flat Head Hex Socket 1NT301, 1NT302, 1NT304 Inserts</td>
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<td>M4X7UC</td>
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<td>Undercut Allen</td>
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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

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.

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

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

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.
### 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)

**COMPLETE ADJUSTABLE TOP DOOR PATCH INSERT**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1NT303</td>
<td>Adjustable Top Door Patch Insert with Screws</td>
</tr>
</tbody>
</table>

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 Door Closers; Door Closers with International Type Pivot; 1NT402 Bottom Free Swinging Pivot; 1NT403 and 1NT406 Adjustable Bottom Free Swinging Pivots

**COMPLETE BOTTOM DOOR PATCH INSERT**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1NT301</td>
<td>Bottom Door Patch Insert with Screws</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1NT304</td>
<td>Top Door Closer Patch Insert with Screws</td>
</tr>
</tbody>
</table>

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

**COMPLETE BOTTOM DOOR PATCH INSERT**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1NT302</td>
<td>Bottom Door Patch Insert with Screws</td>
</tr>
</tbody>
</table>

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.
### CRL Surface Mounted Top Free Swinging Pivot

**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:
1-1/16" (28mm) deep hole for pivot cup.

### CRL Top Free Swinging Walking Beam Pivot

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

**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: 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 Adjustable Bottom Free Swinging Pivot

**Includes:**
1 Each: 1NT404 Adjustable Bottom Free Swinging Pivot, Cover Plate, Machine Screw (to Secure Cover Plate); 2 Each: Flat Head Screws (for Securing Pivot)

**SPECIFICATIONS:**
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:
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: 1NT406 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.
### 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**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>LOCKABLE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMR208BR</td>
<td>No</td>
<td>Brass</td>
</tr>
<tr>
<td>AMR208PS</td>
<td>No</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>AMR209BR</td>
<td>Yes</td>
<td>Brass</td>
</tr>
<tr>
<td>AMR209PS</td>
<td>Yes</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

All Keepers can be combined for quantity pricing.

### CRL Dust Proof Keeper

**DUST PROOF KEEPER FOR AMR205 PATCH LOCK**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMR207BR</td>
<td>Brass</td>
</tr>
<tr>
<td>AMR207PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

All Keepers 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**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1NT307A</td>
<td>Aluminum</td>
</tr>
<tr>
<td>1NT307BR</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>1NT307BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>1NT307PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1NT308A</td>
<td>Aluminum</td>
</tr>
<tr>
<td>1NT308BR</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>1NT308BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>1NT308PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

All Door Stops can be combined for quantity pricing.

### CRL Aluminum Edge Weatherstrips for 1/2" Glass Doors

- **Female Strip with Pile**
- **Male Strip without Pile**

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>STRIP TYPE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW12MBA</td>
<td>Male (No Pile)</td>
<td>Brite Anodized</td>
</tr>
<tr>
<td>DW12FBA</td>
<td>Female (with Pile)</td>
<td>Brite Anodized</td>
</tr>
<tr>
<td>DW12MDU</td>
<td>Male (No Pile)</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>DW12FDU</td>
<td>Female (with Pile)</td>
<td>Duranodic Bronze</td>
</tr>
</tbody>
</table>

Types and Finishes can be combined 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**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>777SPSA</td>
<td>Clear Anodized</td>
</tr>
<tr>
<td>777SPDU</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>777SPBS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>777SPPS</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>777SPBB</td>
<td>Polished Brass</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>GLASS THICKNESS</th>
<th>RECOMMENDED CLEARANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW12</td>
<td>1/2&quot;</td>
<td>5/16&quot; to 3/8&quot;</td>
</tr>
</tbody>
</table>
### 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)

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.

### 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

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 North American Patch Lock

**Cat. NO.:** AMR205A
**Finish:** Aluminum

**Cat. NO.:** AMR205DU
**Finish:** Bronze

**Cat. NO.:** AMR205BR
**Finish:** Polished Brass

**Cat. NO.:** AMR205BS
**Finish:** Brushed Stainless

**Cat. NO.:** AMR205PS
**Finish:** Polished Stainless

**All Patch Locks can be combined for quantity pricing.**

### Double Keyed Cylinders

**Cat. NO.:** AMR205CCA
**Finish:** Aluminum

**Cat. NO.:** AMR205CCDU
**Finish:** Bronze

**Cat. NO.:** AMR205CCBR
**Finish:** Polished Brass

**Cat. NO.:** AMR205CCBS
**Finish:** Brushed Stainless

**Cat. NO.:** AMR205CCPS
**Finish:** Polished Stainless

**All Keyed Cylinders can be combined for quantity pricing.**

### Keyed Cylinder and Thumbturn

**Cat. NO.:** AMR205CTA
**Finish:** Aluminum

**Cat. NO.:** AMR205CTDU
**Finish:** Bronze

**Cat. NO.:** AMR205CTBR
**Finish:** Polished Brass

**Cat. NO.:** AMR205CTBS
**Finish:** Brushed Stainless

**Cat. NO.:** AMR205CTPS
**Finish:** Polished Stainless

**All Keyed Cylinders can be combined for quantity pricing.**

### Complete European Patch Lock

**Cat. NO.:** EUR205A
**Finish:** Aluminum

**Cat. NO.:** EUR205BR
**Finish:** Polished Brass

**Cat. NO.:** EUR205BS
**Finish:** Brushed Stainless

**Cat. NO.:** EUR205PS
**Finish:** 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

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.

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

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.

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

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

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>GLASS THICKNESS</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1NT685BR</td>
<td>3/8” (10mm)</td>
<td>Brass</td>
</tr>
<tr>
<td>1NT685CH</td>
<td>3/8” (10mm)</td>
<td>Chrome</td>
</tr>
<tr>
<td>1NT686BR</td>
<td>1/2” (12mm)</td>
<td>Brass</td>
</tr>
<tr>
<td>1NT686CH</td>
<td>1/2” (12mm)</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

Includes Main Body, Set of Two Cover Plates, Three Keys. All Patch Locks can be combined for quantity pricing.

CAT NO: SL1PK
DESCRIPTION: 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.

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.

CRL Keyed Cylinder Lock with Thumbtum
Replacement Keyed Cylinder Lock with Thumbtum fits these Patch Lock Series:
EUR205, EUR680, EUR681 and PTH311.

GLASS MOUNTED PATCH LOCK

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR680A</td>
<td>Aluminum</td>
</tr>
<tr>
<td>EUR680BR</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>EUR680BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>EUR680PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

Sold only as a complete lock. All Patch Locks can be combined for quantity pricing.

COMPLETE CENTER HOUSED GLASS MOUNTED PATCH LOCK

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR681A</td>
<td>Aluminum</td>
</tr>
<tr>
<td>EUR681BR</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>EUR681BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>EUR681PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

All Patch Locks can be combined for quantity pricing.

COMPLETE CENTER HOUSED GLASS MOUNTED PATCH KEEPER

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR682A</td>
<td>Aluminum</td>
</tr>
<tr>
<td>EUR682BR</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>EUR682BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>EUR682PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

All Keepers can be combined for quantity pricing.
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;
- 1NT403 Adjustable Bottom Free Swinging Pivot;
- CRL8400 Series Floor Closer;
- CRL8300 Series Floor Closer;
- For Use With:

Glass Fabrication Required:
- One Corner Notch

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

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 Wall Mount Transom Patch;
- 1NT401 Top Free Swinging Pivot;
- 1NT405 Top Free Swinging Pivot;
- CRL8040MBP Walking Beam Pivot

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.

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 Wall Mount Transom Patch;
- 1NT401 Top Free Swinging Pivot;
- 1NT405 Top Free Swinging Pivot;
- CRL8040MBP Walking Beam Pivot

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.

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.

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ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. ■ CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. ■ PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
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; CRL8400/8500 Series Door Closers; 1NT402 Bottom Free Swinging Pivot; 1NT405 Header Mount Top Pivot.

**GLASS FABRICATION REQUIRED:**
- Two 13/16” (20mm) Diameter Holes and One Notch (Template Included).

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).

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).

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).

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).

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).
CRL Glass Mounted Latch with Lock and Thumbturn
• Works on Single or Double Doors

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; PTH601/302/303/304 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

INCLUDES: Stamped Body with Cover Plates; Strike. Handles Not Included (Must be Ordered Separately).

FOR USE WITH: PTH614 Series Latch Keeper; PTH601/302/303/304 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: PTH611 Series Latch with Lock; PTH612 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

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 | N/A

SET INCLUDES: One Pair of Handles; Washers; Hex Wrench.

FOR USE WITH: PTH611 Series Latch with Lock; PTH612 Series Passage Latch.

Styles and finishes can be combined for quantity pricing. Sold only by the set.
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

**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

**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

**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

**FINISHES:**
- Polished Brass
- Brushed Stainless
- Polished Stainless
CRL Center Locks and Strikes
• For 3/8" and 1/2" (10mm and 12mm) Glass Doors

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 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

CRL Mechanical Panic Handles and Egress Control Handles
• For 1/2" (12mm) Glass Doors

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.

GLASS DOOR PANIC 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.

ELECTRONIC EGRESS CONTROL HANDLES

NEW

For more information, see pages F40-F41.

CRL Center Locks and Strikes
• Stock Configurations are Ready to Ship
• Most Custom Orders Ship Within One Week

NEW

• 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

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CRL Pivot Door System

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

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 Transom/Sidelite Bracket for Use with Single Doors with Sidelites on Both Sides

Cat. No. MS6BS

Pivot Door System (In)

Pivot Door System (Out)
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.

MS10BS Set for use with single or double free-swinging doors

MS20BS Set for use with single or double free-swinging doors and glass transom

MS30BS Set for use with single or double free-swinging doors with sidelite and glass transom

MS14BS Set for use with single or double doors mounted on floor closer

MS24BS Set for use with single or double doors and glass transom

MS34BS Set for use with single or double doors with sidelite and glass transom

Top Arm with Pivot

Bottom Arm with Pivot

Floor Closers Sold Separately
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

- Most Popular Model

Available in clear satin anodized and dark bronze duranodic finishes, these Standard-Duty Hinges are stocked in lengths of 83" and 95".

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>21083A</td>
<td>83&quot;</td>
<td>Satin</td>
</tr>
<tr>
<td>21083DU</td>
<td>83&quot;</td>
<td>Bronze</td>
</tr>
<tr>
<td>21095A</td>
<td>95&quot;</td>
<td>Satin</td>
</tr>
<tr>
<td>21095DU</td>
<td>95&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

Heavy-Duty Full Surface Hinge

- Twice the Number of Load Bearings

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>210HD83A</td>
<td>83&quot;</td>
<td>Satin</td>
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<tr>
<td>210HD83DU</td>
<td>83&quot;</td>
<td>Bronze</td>
</tr>
<tr>
<td>210HD95A</td>
<td>95&quot;</td>
<td>Satin</td>
</tr>
<tr>
<td>210HD95DU</td>
<td>95&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

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".

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>21283A</td>
<td>83&quot;</td>
<td>Satin</td>
</tr>
<tr>
<td>21283DU</td>
<td>83&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

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".

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>LENGTH</th>
<th>TYPE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>22483A</td>
<td>83&quot;</td>
<td>Standard</td>
<td>Satin</td>
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<tr>
<td>22483DU</td>
<td>83&quot;</td>
<td>Standard</td>
<td>Bronze</td>
</tr>
<tr>
<td>224HD83A</td>
<td>83&quot;</td>
<td>Heavy-Duty</td>
<td>Satin</td>
</tr>
<tr>
<td>224HD83DU</td>
<td>83&quot;</td>
<td>Heavy-Duty</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

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".

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>25383A</td>
<td>83&quot;</td>
<td>Satin</td>
</tr>
<tr>
<td>25383DU</td>
<td>83&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

Full Surface Retrofit Hinge

Available in clear satin anodized and dark bronze duranodic finishes, Full Surface Retrofit Hinges are stocked in lengths of 83".

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>25783A</td>
<td>83&quot;</td>
<td>Satin</td>
</tr>
<tr>
<td>25783DU</td>
<td>83&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>
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**

- **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)**

Finishes can be combined for quantity pricing. Minimum order is one kit.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>DL1099A</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>DL1099DU</td>
<td>Bronze Duranodic</td>
</tr>
</tbody>
</table>

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.

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>QTY./BOX</th>
<th>SIZE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>1</td>
<td>4-7/8&quot; x 3&quot;</td>
<td>Aluminum</td>
</tr>
<tr>
<td>USBL</td>
<td>1</td>
<td>4-7/8&quot; x 3&quot;</td>
<td>Black</td>
</tr>
</tbody>
</table>

Finishes can be combined for quantity pricing. Minimum order is one kit.

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>QTY./BOX</th>
<th>SIZE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BB31A</td>
<td>3</td>
<td>4-1/2&quot; x 4-1/2&quot;</td>
<td>Satin Chrome</td>
</tr>
<tr>
<td>BB31BRZ</td>
<td>3</td>
<td>4-1/2&quot; x 4-1/2&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

Finishes can be combined for quantity pricing. Minimum order is one pair.

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.

| CAT. NO. | M50 | Metal retainer slides to adjust holding strength from 0 to 50 pounds |
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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>HANDING</th>
<th>APPLICATION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP27NHA</td>
<td>Reversible</td>
<td>Flush with Frame Face</td>
<td>Aluminum</td>
</tr>
<tr>
<td>OP27NHDU</td>
<td>Reversible</td>
<td>Flush with Frame Face</td>
<td>Bronze</td>
</tr>
<tr>
<td>OP28NHA</td>
<td>Reversible</td>
<td>Recessed 1/8&quot;</td>
<td>Aluminum</td>
</tr>
<tr>
<td>OP28NHDU</td>
<td>Reversible</td>
<td>Recessed 1/8&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>HANDING</th>
<th>APPLICATION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP30LHA</td>
<td>Left Hand</td>
<td>Flush with Frame Face</td>
<td>Aluminum</td>
</tr>
<tr>
<td>OP30LHDU</td>
<td>Left Hand</td>
<td>Flush with Frame Face</td>
<td>Bronze</td>
</tr>
<tr>
<td>OP30RHA</td>
<td>Right Hand</td>
<td>Flush with Frame Face</td>
<td>Aluminum</td>
</tr>
<tr>
<td>OP30RHDU</td>
<td>Right Hand</td>
<td>Flush with Frame Face</td>
<td>Bronze</td>
</tr>
<tr>
<td>OP31LHA</td>
<td>Left Hand</td>
<td>Recessed 1/8&quot;</td>
<td>Aluminum</td>
</tr>
<tr>
<td>OP31LHDU</td>
<td>Left Hand</td>
<td>Recessed 1/8&quot;</td>
<td>Bronze</td>
</tr>
<tr>
<td>OP31RHA</td>
<td>Right Hand</td>
<td>Recessed 1/8&quot;</td>
<td>Aluminum</td>
</tr>
<tr>
<td>OP31RHDU</td>
<td>Right Hand</td>
<td>Recessed 1/8&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>HANDING</th>
<th>APPLICATION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0P34LHA</td>
<td>Left Hand</td>
<td>Flush with Frame Face</td>
<td>Aluminum</td>
</tr>
<tr>
<td>0P34LHDU</td>
<td>Left Hand</td>
<td>Flush with Frame Face</td>
<td>Bronze</td>
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<td>0P34RHA</td>
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<td>0P34RHDU</td>
<td>Right Hand</td>
<td>Flush with Frame Face</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<th>APPLICATION</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>0P40LHA</td>
<td>Left Hand</td>
<td>Recessed 1/8&quot;</td>
<td>Aluminum</td>
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<tr>
<td>0P40LHDU</td>
<td>Left Hand</td>
<td>Recessed 1/8&quot;</td>
<td>Bronze</td>
</tr>
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<td>0P40RHA</td>
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</tr>
<tr>
<td>0P40RHDU</td>
<td>Right Hand</td>
<td>Recessed 1/8&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<th>APPLICATION</th>
<th>FINISH</th>
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<tbody>
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<td>Bronze</td>
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<tr>
<td>0P50RHA</td>
<td>Right Hand</td>
<td>Recessed 1/8&quot;</td>
<td>Aluminum</td>
</tr>
<tr>
<td>0P50RHDU</td>
<td>Right Hand</td>
<td>Recessed 1/8&quot;</td>
<td>Bronze</td>
</tr>
</tbody>
</table>
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.

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)

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)

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)

CRL Optional Faceplates

- For Use with All Deadlocks and Deadlatch Locks Above
- All Faceplates Measure 1" x 6-7/8"

Use with Lock Series

<table>
<thead>
<tr>
<th>Use with Lock Series</th>
<th>Finish</th>
<th>CAT NO.</th>
<th>CAT NO.</th>
<th>CAT NO.</th>
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<tr>
<td>DL2110</td>
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<td>DL2112A</td>
<td>DL2113A</td>
<td>DL2114A</td>
<td>DL2115A</td>
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<td>DL2110</td>
<td>Bronze</td>
<td>DL2111DU</td>
<td>DL2112DU</td>
<td>DL2113DU</td>
<td>DL2114DU</td>
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<td>DL2130</td>
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<td>DL2131A</td>
<td>DL2132A</td>
<td>DL2133A</td>
<td>DL2134A</td>
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<td>DL2134DU</td>
<td>DL2135DU</td>
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<tr>
<td>DL2140</td>
<td>Aluminum</td>
<td>DL2141A</td>
<td>DL2142A</td>
<td>DL2143A</td>
<td>DL2144A</td>
<td>DL2145A</td>
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<tr>
<td>DL2140</td>
<td>Bronze</td>
<td>DL2141DU</td>
<td>DL2142DU</td>
<td>DL2143DU</td>
<td>DL2144DU</td>
<td>DL2145DU</td>
</tr>
</tbody>
</table>
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.

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.

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.

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.

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.
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.

CRL Straight Cylinder Rings
- For Spacing Mortise Key Cylinders
- Three Thicknesses
- Two Finishes

Straight Cylinder Rings are used to obtain proper cylinder depth so the locking cam and the lock mechanism align. One per package.

CRL Flared Cylinder Rings
- For Spacing Mortise Key Cylinders
- Two Thicknesses
- Two Finishes

Flared Cylinder Rings are used to obtain proper cylinder depth so the locking cam and the lock mechanism align. One per package.

CRL Header Sign
- Adhesive Backed Decal with Black Letters on Aluminum Color Background

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.

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.

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.

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.

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.

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.
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

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.

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

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.

CRL Center Lock Strike

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

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.
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.

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.

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.

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.

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

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL950A</td>
<td>Aluminum Finish</td>
</tr>
<tr>
<td>DL960DU</td>
<td>Bronze Finish</td>
</tr>
<tr>
<td>DL950SS</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

Finishes can be combined for quantity pricing.

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

<table>
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<tr>
<th>CAT. NO.</th>
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<tr>
<td>DL1180A</td>
<td>Concealed Vertical Rod</td>
<td>Satin Aluminum</td>
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<td>DL1180DU</td>
<td>Concealed Vertical Rod</td>
<td>Dark Bronze</td>
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<tr>
<td>DL1190LHRA</td>
<td>Left Hand-Reverse Bevel Rim</td>
<td>Satin Aluminum</td>
</tr>
<tr>
<td>DL1190RHRA</td>
<td>Right Hand-Reverse Bevel Rim</td>
<td>Satin Aluminum</td>
</tr>
<tr>
<td>DL1190LHRDU</td>
<td>Left Hand-Reverse Bevel Rim</td>
<td>Dark Bronze</td>
</tr>
<tr>
<td>DL1190HRDU</td>
<td>Right Hand-Reverse Bevel Rim</td>
<td>Dark Bronze</td>
</tr>
</tbody>
</table>

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:**

**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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>BACK-TO-BACK FINISH</th>
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<tbody>
<tr>
<td>CRL915A</td>
<td>Polished Brass</td>
</tr>
<tr>
<td>CRL915DU</td>
<td>Satin Anodized</td>
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<tr>
<td>CRL916A</td>
<td>Duranodic Bronze</td>
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<tr>
<td>CRL916DU</td>
<td>Brushed Stainless</td>
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<tr>
<td>CRL917</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

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:**

**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

<table>
<thead>
<tr>
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<th>FINISH</th>
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</thead>
<tbody>
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<td>Polished Brass</td>
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<tr>
<td>CD10X10SA</td>
<td>Satin Anodized</td>
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<tr>
<td>CD10X10DU</td>
<td>Duranodic Bronze</td>
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<tr>
<td>CD10X10BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>CD10X10PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

All Door Handles can be combined for quantity pricing.

CRL Extruded Aluminum 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>DL915A</td>
<td>Pull Handle</td>
<td>Satin Anodized</td>
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<tr>
<td>DL915DU</td>
<td>Pull Handle</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>DL916A</td>
<td>Mounting Plate</td>
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<tr>
<td>DL916DU</td>
<td>Mounting Plate</td>
<td>Duranodic Bronze</td>
</tr>
</tbody>
</table>

All Door Handles 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.

CRL Sex Bolts

CRL Push-Pull Indicator Decals

- **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".

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>TYPE</th>
<th>COLOR</th>
<th>STYLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>566VA</td>
<td>Push</td>
<td>Aluminum/Black</td>
<td>Vertical</td>
</tr>
<tr>
<td>566HA</td>
<td>Pull</td>
<td>Aluminum/Black</td>
<td>Horizontal</td>
</tr>
<tr>
<td>567VA</td>
<td>Push</td>
<td>Aluminum/Black</td>
<td>Vertical</td>
</tr>
<tr>
<td>567HA</td>
<td>Pull</td>
<td>Aluminum/Black</td>
<td>Horizontal</td>
</tr>
</tbody>
</table>

25 per package. Minimum order is 25 each.

CRL Decals for Business Doors

- **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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>TDK13GRY</td>
<td>Light Gray</td>
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<tr>
<td>TDK13BRZ</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

CRL Engraved Aluminum Push-Pull Signs

- **Letters Engraved in Aluminum Plates with Adhesive Foam Tape Backing**
- **Choose Black on Aluminum or White on Bronze**

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>TYPE</th>
<th>COLOR</th>
<th>STYLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1445G</td>
<td>Push</td>
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<td>Vertical</td>
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<tr>
<td>1445GW</td>
<td>Push</td>
<td>White/Bronze</td>
<td>Vertical</td>
</tr>
<tr>
<td>1446G</td>
<td>Pull</td>
<td>Black/Aluminum</td>
<td>Vertical</td>
</tr>
<tr>
<td>1446GW</td>
<td>Pull</td>
<td>White/Bronze</td>
<td>Vertical</td>
</tr>
</tbody>
</table>

CRL Deadlatch Electric Strike Set

- **Non-Handed**
- **12 Volt DC Current**

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST125A</td>
<td>Electric Strike with Aluminum Face Plate</td>
</tr>
<tr>
<td>ST125DU</td>
<td>Electric Strike with Bronze Face Plate</td>
</tr>
<tr>
<td>ST125TR</td>
<td>12V DC/1.2 Amp Transformer</td>
</tr>
<tr>
<td>STL61</td>
<td>Lip Extension for 4&quot; Tube</td>
</tr>
<tr>
<td>STL615</td>
<td>Lip Extension for 4-1/2&quot; Tube</td>
</tr>
</tbody>
</table>

All Strike Sets can be combined for quantity pricing.

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDK13GRY</td>
<td>Light Gray</td>
</tr>
<tr>
<td>TDK13BRZ</td>
<td>Bronze</td>
</tr>
</tbody>
</table>
CRL Door Closer Program
A Complete Line of Overhead, Floor and Surface Mounted Door Closers

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

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

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.

Concealed Floor Closers
Pages F110-F112
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

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)

Surface Mounted Closer Universal Mounting Options

- Non-Handed, Reversible Closers Can Be Mounted Three Different Ways

<table>
<thead>
<tr>
<th>Regular Projecting Arm Installation</th>
<th>Closest installed on “PULL” side of the door.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parallel Arm Installation</td>
<td>Closest installed on “PUSH” side of the door.</td>
</tr>
<tr>
<td>Top Jamb Installation</td>
<td>Closest installed above door on “PUSH” side.</td>
</tr>
</tbody>
</table>

CLOSER SELECTION DATA

<table>
<thead>
<tr>
<th>CLOSER MODEL</th>
<th>FINISH</th>
<th>SIZE</th>
<th>CLOSER DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>DC51A</td>
<td>Aluminum</td>
<td>1</td>
<td>Light Commercial / Residential</td>
</tr>
<tr>
<td>DC51BRZ</td>
<td>Dark Bronze</td>
<td>1</td>
<td>Light Commercial / Residential</td>
</tr>
<tr>
<td>DC52A</td>
<td>Aluminum</td>
<td>2</td>
<td>Light-Duty</td>
</tr>
<tr>
<td>DC52BRZ</td>
<td>Dark Bronze</td>
<td>2</td>
<td>Light-Duty</td>
</tr>
<tr>
<td>DC53A</td>
<td>Aluminum</td>
<td>3</td>
<td>Standard-Duty</td>
</tr>
<tr>
<td>DC53BRZ</td>
<td>Dark Bronze</td>
<td>3</td>
<td>Standard-Duty</td>
</tr>
<tr>
<td>DC54A</td>
<td>Aluminum</td>
<td>4</td>
<td>Standard-Duty</td>
</tr>
<tr>
<td>DC54BRZ</td>
<td>Dark Bronze</td>
<td>4</td>
<td>Standard-Duty</td>
</tr>
<tr>
<td>DC55A</td>
<td>Aluminum</td>
<td>5</td>
<td>Heavy-Duty Commercial</td>
</tr>
<tr>
<td>DC55BRZ</td>
<td>Dark Bronze</td>
<td>5</td>
<td>Heavy-Duty Commercial</td>
</tr>
</tbody>
</table>

All CRL Door Closers can be combined for quantity pricing.
CRL Surface Mounted Door Closers

DC50 Series Features

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.

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

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>DC51</th>
<th>DC52</th>
<th>DC53</th>
<th>DC54</th>
<th>DC55</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: Length of Closer Body</td>
<td>7-1/8&quot; (181mm)</td>
<td>8-7/8&quot; (225mm)</td>
<td>8-7/8&quot; (225mm)</td>
<td>9-3/4&quot; (247mm)</td>
<td>9-3/4&quot; (247mm)</td>
</tr>
<tr>
<td>B: Horizontal Mounting Holes</td>
<td>6-1/2&quot; (165mm)</td>
<td>8-3/16&quot; (208mm)</td>
<td>8-3/16&quot; (208mm)</td>
<td>9-1/16&quot; (230mm)</td>
<td>9-1/16&quot; (230mm)</td>
</tr>
<tr>
<td>C: Vertical Mounting Holes</td>
<td>3/4&quot; (19mm)</td>
<td>3/4&quot; (19mm)</td>
<td>3/4&quot; (19mm)</td>
<td>3/4&quot; (19mm)</td>
<td>3/4&quot; (19mm)</td>
</tr>
<tr>
<td>D: Closer Body Height</td>
<td>1-5/8&quot; (41mm)</td>
<td>1-31/32&quot; (50mm)</td>
<td>1-31/32&quot; (50mm)</td>
<td>1-31/32&quot; (50mm)</td>
<td>1-31/32&quot; (50mm)</td>
</tr>
<tr>
<td>E: Projection from Door</td>
<td>2-15/32&quot; (63mm)</td>
<td>2-29/32&quot; (73mm)</td>
<td>2-29/32&quot; (73mm)</td>
<td>2-29/32&quot; (73mm)</td>
<td>2-29/32&quot; (73mm)</td>
</tr>
</tbody>
</table>

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

- 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)

**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**

<table>
<thead>
<tr>
<th>CLOSER NO.</th>
<th>FINISH</th>
<th>SIZE</th>
<th>CLOSER DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR80A</td>
<td>Aluminum</td>
<td>2 - 5</td>
<td>Adjustable</td>
</tr>
<tr>
<td>PR80DU</td>
<td>Dark Bronze</td>
<td>2 - 5</td>
<td>Adjustable</td>
</tr>
<tr>
<td>PR82BFA</td>
<td>Aluminum</td>
<td>1 - 4</td>
<td>Barrier Free / Adjustable</td>
</tr>
<tr>
<td>PR82BFU</td>
<td>Dark Bronze</td>
<td>1 - 4</td>
<td>Barrier Free / Adjustable</td>
</tr>
</tbody>
</table>

**SUPPLIED WITH BODY COVERS**

- Aluminium CAT. NO. DCSCVRA
- Dark Bronze CAT. NO. DCSCVBRZ

**DIMENSIONS**

- A: Length of Closer Body
- B: Horizontal Mounting Holes
- C: Vertical Mounting Holes
- D: Closer Body Height
- E: Projection From Door

**SPECIFICATION PR80 SERIES WITH COVER**

<table>
<thead>
<tr>
<th>A: Length of Closer Body</th>
<th>B: Horizontal Mounting Holes</th>
<th>C: Vertical Mounting Holes</th>
<th>D: Closer Body Height</th>
<th>E: Projection From Door</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-3/4”</td>
<td>9-1/16”</td>
<td>3/4”</td>
<td>1-25/32”</td>
<td>2-29/32”</td>
</tr>
<tr>
<td>(248 mm)</td>
<td>(230mm)</td>
<td>(19mm)</td>
<td>(45mm)</td>
<td>(73mm)</td>
</tr>
<tr>
<td>10-5/8”</td>
<td>9-1/16”</td>
<td>3/4”</td>
<td>2-1/16”</td>
<td>2-15/16”</td>
</tr>
<tr>
<td>(270mm)</td>
<td>(230mm)</td>
<td>(19mm)</td>
<td>(53mm)</td>
<td>(75mm)</td>
</tr>
</tbody>
</table>
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.

Body Covers
Simple slip on installation.

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.

Wide Drop Plates
For use with DC50 and PR80 Series Closers. Screw pack included.

Sex Bolt Sets
Fits all CRL Surface Mounted Closers. Four per pack.

Parallel Arm Brackets
For use with Regular Non-Hold Open Arms.

Regular Arms
For use with DC50 and PR80 Series Closers

Narrow Drop Plates
For use with DC50 and PR80 Series Closers. Screw pack included.

Replacement Screw Packages
Complete set of Replacement Screws.
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

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 particularly 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.

**CAT. NO.**

<table>
<thead>
<tr>
<th>PR70BFA</th>
<th>PR70BFDU</th>
<th>PR72DA</th>
<th>PR72DADU</th>
<th>PR74BCA</th>
<th>PR74BCDU</th>
<th>PR76DAA</th>
<th>PR76DADU</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR70BF</td>
<td>PR70BDU</td>
<td>PR72DA</td>
<td>PR72DADU</td>
<td>PR74BC</td>
<td>PR74BCDU</td>
<td>PR76DA</td>
<td>PR76DADU</td>
</tr>
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</table>

**FINISH**

<table>
<thead>
<tr>
<th>Aluminum</th>
<th>Dark Bronze</th>
<th>Aluminum</th>
<th>Dark Bronze</th>
<th>Aluminum</th>
<th>Dark Bronze</th>
<th>Aluminum</th>
<th>Dark Bronze</th>
</tr>
</thead>
</table>

**SIZE**

<table>
<thead>
<tr>
<th>1/2 - 4</th>
<th>1/2 - 4</th>
<th>1/2 - 4</th>
<th>1/2 - 4</th>
<th>2 - 6</th>
<th>2 - 6</th>
<th>2 - 6</th>
<th>2 - 6</th>
</tr>
</thead>
</table>

**CLOSER DESCRIPTION**

- Barrier-Free / Adjustable
- Barrier-Free / Adjustable
- Delayed Action / Adjustable
- Delayed Action / Adjustable
- Adjustable
- Adjustable
- Delayed Action / Adjustable
- Delayed Action / Adjustable

**PR70 SERIES SURFACE MOUNTED DOOR CLOSERS**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>SIZE</th>
<th>CLOSER DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR70BFA</td>
<td>Aluminum</td>
<td>1/2 - 4</td>
<td>Barrier-Free / Adjustable</td>
</tr>
<tr>
<td>PR70BFDU</td>
<td>Dark Bronze</td>
<td>1/2 - 4</td>
<td>Barrier-Free / Adjustable</td>
</tr>
<tr>
<td>PR72DA</td>
<td>Aluminum</td>
<td>1/2 - 4</td>
<td>Delayed Action / Adjustable</td>
</tr>
<tr>
<td>PR72DADU</td>
<td>Dark Bronze</td>
<td>1/2 - 4</td>
<td>Delayed Action / Adjustable</td>
</tr>
<tr>
<td>PR74BCA</td>
<td>Aluminum</td>
<td>2 - 6</td>
<td>Adjustable</td>
</tr>
<tr>
<td>PR74BCDU</td>
<td>Dark Bronze</td>
<td>2 - 6</td>
<td>Adjustable</td>
</tr>
<tr>
<td>PR76DAA</td>
<td>Aluminum</td>
<td>2 - 6</td>
<td>Delayed Action / Adjustable</td>
</tr>
<tr>
<td>PR76DADU</td>
<td>Dark Bronze</td>
<td>2 - 6</td>
<td>Delayed Action / Adjustable</td>
</tr>
</tbody>
</table>

All CRL Door Closers can be combined for quantity pricing.

**CLOSER SELECTION DATA**

<table>
<thead>
<tr>
<th>CLOSER MODELS</th>
<th>CLOSER SIZE</th>
<th>APPLICABLE DOOR SIZE (WIDTH)</th>
<th>APPLICABLE DOOR WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR70BF</td>
<td>1/2 - 4</td>
<td>28” - 48” (0.71 - 1.22m)</td>
<td>22-187 Lbs. (10 - 85 kg)</td>
</tr>
<tr>
<td>PR72DA</td>
<td>1/2 - 4</td>
<td>28” - 48” (0.71 - 1.22m)</td>
<td>22-187 Lbs. (10 - 85 kg)</td>
</tr>
<tr>
<td>PR74BC</td>
<td>2 - 6</td>
<td>36” - 58” (0.91 - 1.47m)</td>
<td>66-330 Lbs. (30 - 150 kg)</td>
</tr>
<tr>
<td>PR76DA</td>
<td>2 - 6</td>
<td>36” - 58” (0.91 - 1.47m)</td>
<td>66-330 Lbs. (30 - 150 kg)</td>
</tr>
</tbody>
</table>
CRL Adjustable Spring Power Surface Mounted Door Closers

PR70 Series Features

- Needle Bearing for Higher Efficiency and Smooth Operation
- Non-Corrosive, Long-Lasting Heavy-Duty Cast Aluminum Body
- Heat Treated Steel Precision Rack and Pinion Gears
- Latching Speed Control
- Delayed Action (PR72 & PR76)
- Standard Adjustable Backcheck Control
- High-Tensile, Oil-Tempered Steel Spring
- Spring Power Adjustment

**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.

**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

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.

**Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Length of Closer Body</td>
</tr>
<tr>
<td>B</td>
<td>Horizontal Mounting Holes</td>
</tr>
<tr>
<td>C</td>
<td>Vertical Mounting Holes</td>
</tr>
<tr>
<td>D</td>
<td>Closer Body Height</td>
</tr>
<tr>
<td>E</td>
<td>Projection from Door</td>
</tr>
</tbody>
</table>
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

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.

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.

Flat Drop Plates

Narrow and Wide Drop Plates for use with PR70 Series Closers. Screw Pack included.

Sex Bolt Sets

Fit all CRL Surface Mounted Closers. Four per pack.

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.

Parallel Arm Brackets

For use with a Regular Non-Hold Open Arm.
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.

- 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.

CLOSERS SELECTION DATA

<table>
<thead>
<tr>
<th>CLOSER MODEL</th>
<th>CLOSER SIZE</th>
<th>APPLICABLE DOOR SIZE (WIDTH)</th>
<th>APPLICABLE DOOR WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC62A</td>
<td>2</td>
<td>30&quot;-32&quot; (0.76-0.81m)</td>
<td>66-99 Lbs. (30-45 kg)</td>
</tr>
<tr>
<td>DC62BRZ</td>
<td>2</td>
<td>30&quot;-32&quot; (0.76-0.81m)</td>
<td>66-99 Lbs. (30-45 kg)</td>
</tr>
<tr>
<td>DC63A</td>
<td>3</td>
<td>36&quot;-38&quot; (0.91-0.96m)</td>
<td>99-143 Lbs. (45-65 kg)</td>
</tr>
<tr>
<td>DC63BRZ</td>
<td>3</td>
<td>36&quot;-38&quot; (0.91-0.96m)</td>
<td>99-143 Lbs. (45-65 kg)</td>
</tr>
<tr>
<td>DC64A</td>
<td>4</td>
<td>42&quot;-44&quot; (1.07-1.11m)</td>
<td>143-187 Lbs. (65-85 kg)</td>
</tr>
<tr>
<td>DC64BRZ</td>
<td>4</td>
<td>42&quot;-44&quot; (1.07-1.11m)</td>
<td>143-187 Lbs. (65-85 kg)</td>
</tr>
</tbody>
</table>

DIMENSIONS

- Contemporary European Slim Rectangular Design
- Independent Valves to Adjust Closing and Latching Speeds
- Aluminum and Dark Bronze Finishes
- 10 Year Warranty
- U.L. Listed

All CRL Door Closers can be combined for quantity pricing.
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)

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>SIZE</th>
<th>CLOSER DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR40A</td>
<td>Aluminum</td>
<td>1 - 4</td>
<td>Barrier Free / Adjustable</td>
</tr>
<tr>
<td>PR40DU</td>
<td>Dark Bronze</td>
<td>1 - 4</td>
<td>Barrier Free / Adjustable</td>
</tr>
<tr>
<td>PR42A</td>
<td>Aluminum</td>
<td>2 - 5</td>
<td>Adjustable</td>
</tr>
<tr>
<td>PR42DU</td>
<td>Dark Bronze</td>
<td>2 - 5</td>
<td>Adjustable</td>
</tr>
<tr>
<td>PR44DA</td>
<td>Aluminum</td>
<td>2 - 5</td>
<td>Delayed Action / Adjustable</td>
</tr>
<tr>
<td>PR44DADU</td>
<td>Dark Bronze</td>
<td>2 - 5</td>
<td>Delayed Action / Adjustable</td>
</tr>
</tbody>
</table>

All CRL Door Closers can be combined for quantity pricing.

CLOSER SELECTION DATA

<table>
<thead>
<tr>
<th>CLOSER MODELS</th>
<th>APPLICABLE DOOR SIZE (WIDTH)</th>
<th>APPLICABLE DOOR WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR40</td>
<td>32 - 48” (0.81 - 1.22m)</td>
<td>33 - 187 Lbs. (15 - 85 kg)</td>
</tr>
<tr>
<td></td>
<td>28 - 42” (0.71 - 1.07m)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24 - 36” (0.61 - 0.91m)</td>
<td></td>
</tr>
<tr>
<td>PR42</td>
<td>36 - 54” (0.91 - 1.37m)</td>
<td>66 - 264 Lbs. (30 - 120 kg)</td>
</tr>
<tr>
<td></td>
<td>32 - 48” (0.81 - 1.22m)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>28 - 42” (0.71 - 1.07m)</td>
<td></td>
</tr>
<tr>
<td>PR44DA</td>
<td>36 - 54” (0.91 - 1.37m)</td>
<td>66 - 264 Lbs. (30 - 120 kg)</td>
</tr>
<tr>
<td></td>
<td>32 - 48” (0.81 - 1.22m)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>28 - 42” (0.71 - 1.07m)</td>
<td></td>
</tr>
</tbody>
</table>

DIMENSIONS

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

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)

CLOSER SELECTION DATA

<table>
<thead>
<tr>
<th>CLOSER MODELS</th>
<th>PR50</th>
<th>PR52</th>
<th>PR54DA</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIZE</td>
<td>1 - 4</td>
<td>2 - 5</td>
<td>2 - 5</td>
</tr>
<tr>
<td>APPLICABLE DOOR SIZE (WIDTH)</td>
<td>32 - 48&quot; (0.81 - 1.22m)</td>
<td>36 - 54&quot; (0.91 - 1.37m)</td>
<td>36 - 54&quot; (0.91 - 1.37m)</td>
</tr>
<tr>
<td>APPLICABLE DOOR WEIGHT</td>
<td>33 - 187 Lbs. (15 - 85 kg)</td>
<td>66 - 264 Lbs. (30 - 120 kg)</td>
<td>66 - 264 Lbs. (30 - 120 kg)</td>
</tr>
</tbody>
</table>

DIMENSIONS

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>BODY ONLY</th>
<th>WITH COVER</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: Length of Closer</td>
<td>12-9/16&quot; (319mm)</td>
<td>13&quot; (330mm)</td>
</tr>
<tr>
<td>B: Horizontal Mounting Holes</td>
<td>11-15/16&quot; (304mm)</td>
<td>11-15/16&quot; (303mm)</td>
</tr>
<tr>
<td>C: Vertical Mounting Holes</td>
<td>3/4&quot; (19mm)</td>
<td>3/4&quot; (19mm)</td>
</tr>
<tr>
<td>D: Closer Body Height</td>
<td>1-3/4&quot; (45mm)</td>
<td>2-15/16&quot; (75mm)</td>
</tr>
<tr>
<td>E: Projection from Door</td>
<td>2-3/16&quot; (56mm)</td>
<td>2-5/16&quot; (59mm)</td>
</tr>
</tbody>
</table>
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

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).

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.

Backcheck Control

Barrier Free Feature
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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
<th>DIMENSIONS</th>
<th>CLOSER APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR40DPA</td>
<td>Aluminum</td>
<td>9-3/4&quot; X 3-3/8&quot;</td>
<td>PR40 Series</td>
</tr>
<tr>
<td>PR40DPDU</td>
<td>Dark Bronze</td>
<td>9-3/4&quot; X 3-3/8&quot;</td>
<td>PR40 Series</td>
</tr>
<tr>
<td>PR50DPA</td>
<td>Aluminum</td>
<td>13&quot; X 3-9/16&quot;</td>
<td>PR50 Series</td>
</tr>
<tr>
<td>PR50DPDU</td>
<td>Dark Bronze</td>
<td>13&quot; X 3-9/16&quot;</td>
<td>PR50 Series</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
<th>DIMENSIONS</th>
<th>CLOSER APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR90DPA</td>
<td>Aluminum</td>
<td>12-1/4&quot; X 3-7/16&quot;</td>
<td>Hinge (Pull) Side</td>
</tr>
<tr>
<td>PR90DPDU</td>
<td>Dark Bronze</td>
<td>12-1/4&quot; X 3-7/16&quot;</td>
<td>Hinge (Pull) Side</td>
</tr>
<tr>
<td>PR90DFMA</td>
<td>Aluminum</td>
<td>12-1/4&quot; X 3-7/16&quot;</td>
<td>Rush Top Jamb</td>
</tr>
<tr>
<td>PR90DFMDU</td>
<td>Dark Bronze</td>
<td>12-1/4&quot; X 3-7/16&quot;</td>
<td>Rush Top Jamb</td>
</tr>
<tr>
<td>PR90DFUMA</td>
<td>Aluminum</td>
<td>12-1/4&quot; X 3-7/16&quot;</td>
<td>Top Jamb</td>
</tr>
<tr>
<td>PR90DFUMDU</td>
<td>Dark Bronze</td>
<td>12-1/4&quot; X 3-7/16&quot;</td>
<td>Top Jamb</td>
</tr>
</tbody>
</table>

Hold Open Arms

Non-Handed friction type Arm provides hold open function between 90° and 180°. For use with reveal up to 4" (102 mm).

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
<th>CLOSER APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR4050HOAA</td>
<td>Aluminum</td>
<td>PR40 and PR50 Series</td>
</tr>
<tr>
<td>PR4050HOADU</td>
<td>Dark Bronze</td>
<td>PR40 and PR50 Series</td>
</tr>
<tr>
<td>PR90HOAA</td>
<td>Aluminum</td>
<td>PR90 Series</td>
</tr>
<tr>
<td>PR90HOADU</td>
<td>Dark Bronze</td>
<td>PR90 Series</td>
</tr>
</tbody>
</table>

Sex Bolt Sets

For use with 1-3/4" (19 mm) thick doors. 1/4-20 screw size; four per pack.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
<th>CLOSER APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC58A</td>
<td>Aluminum</td>
<td>PR40, PR50 and PR90 Series</td>
</tr>
<tr>
<td>DC58BEBRZ</td>
<td>Dark Bronze</td>
<td>PR40, PR50 and PR90 Series</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
<th>DIMENSIONS</th>
<th>CLOSER APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR40NDPA</td>
<td>Aluminum</td>
<td>9-3/4&quot; X 2-9/16&quot;</td>
<td>PR40 Series</td>
</tr>
<tr>
<td>PR40NPDPU</td>
<td>Dark Bronze</td>
<td>9-3/4&quot; X 2-9/16&quot;</td>
<td>PR40 Series</td>
</tr>
<tr>
<td>PR50NDPA</td>
<td>Aluminum</td>
<td>13&quot; X 2-3/16&quot;</td>
<td>PR50 Series</td>
</tr>
<tr>
<td>PR50NPDU</td>
<td>Dark Bronze</td>
<td>13&quot; X 2-3/16&quot;</td>
<td>PR50 Series</td>
</tr>
</tbody>
</table>

Parallel Arm Drop Plates

Will permit parallel arm installations when there is insufficient door rail height.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
<th>DIMENSIONS</th>
<th>CLOSER APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR50DPPAA</td>
<td>Aluminum</td>
<td>13&quot; X 4-13/16&quot;</td>
<td>PR50 Series</td>
</tr>
<tr>
<td>PR50DPPADU</td>
<td>Dark Bronze</td>
<td>13&quot; X 4-13/16&quot;</td>
<td>PR50 Series</td>
</tr>
<tr>
<td>PR90DPPAA</td>
<td>Aluminum</td>
<td>12-1/4&quot; X 5-1/4&quot;</td>
<td>PR90 Series</td>
</tr>
<tr>
<td>PR90DPPADU</td>
<td>Dark Bronze</td>
<td>12-1/4&quot; X 5-1/4&quot;</td>
<td>PR90 Series</td>
</tr>
</tbody>
</table>

Parallel Hold Open Arm Brackets

For use with Hold Open Arms. Works with all PR40, PR50 and PR90 Series Closers.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
<th>CLOSER APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR459HOPABA</td>
<td>Aluminum</td>
<td>PR40, PR50 and PR90 Series</td>
</tr>
<tr>
<td>PR459HOPADU</td>
<td>Dark Bronze</td>
<td>PR40, PR50 and PR90 Series</td>
</tr>
</tbody>
</table>

Replacement Screw Packages

Complete sets of Replacement Screw Packages.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
<th>CLOSER APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR40SA</td>
<td>Aluminum</td>
<td>PR40 Series</td>
</tr>
<tr>
<td>PR40SDU</td>
<td>Dark Bronze</td>
<td>PR40 Series</td>
</tr>
<tr>
<td>PR50SA</td>
<td>Aluminum</td>
<td>PR50 Series</td>
</tr>
<tr>
<td>PR50SDU</td>
<td>Dark Bronze</td>
<td>PR50 Series</td>
</tr>
<tr>
<td>PR90SA</td>
<td>Aluminum</td>
<td>PR90 Series</td>
</tr>
<tr>
<td>PR90SDU</td>
<td>Dark Bronze</td>
<td>PR90 Series</td>
</tr>
</tbody>
</table>
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

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.

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.

Accessories Available
A large selection of arms, bottom pivots
and mounting brackets to accommodate
center-hung or offset hung doors.
(See following pages)

MODELS AVAILABLE:

<table>
<thead>
<tr>
<th>SPRING SIZE</th>
<th>DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>Up to 30&quot; Wide x 96&quot; Hgh</td>
</tr>
<tr>
<td>Medium</td>
<td>31&quot; to 41&quot; Wide x 96&quot; Hgh</td>
</tr>
<tr>
<td>Heavy</td>
<td>42&quot; to 48&quot; Wide x 96&quot; Hgh</td>
</tr>
<tr>
<td>ADA-5 lb.</td>
<td>36&quot; to 48&quot; Wide x 96&quot; Hgh</td>
</tr>
<tr>
<td>ADA-8.5 lb.</td>
<td>36&quot; to 48&quot; Wide x 96&quot; Hgh</td>
</tr>
</tbody>
</table>

SPRING SIZE
- Light
- Medium
- Heavy
- ADA-5 lb. (Interior)
- ADA-8.5 lb. (Exterior)

DOOR SIZE
- Up to 30" Wide x 96" Hgh
- 31" to 41" Wide x 96" Hgh
- 42" to 48" Wide x 96" Hgh
- 36" to 48" Wide x 96" Hgh

Stable Hydraulic Door Check Fluid
For any climatic operation
and constant lubrication.

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)
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.

### Included in "S" Package

**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 "S" PACKAGE

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>SPRING SIZE</th>
<th>TYPE</th>
</tr>
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<tbody>
<tr>
<td>CRL8160S</td>
<td>Medium</td>
<td>90° Hold Open</td>
</tr>
<tr>
<td>CRL8162S</td>
<td>Medium</td>
<td>90° No Hold Open</td>
</tr>
<tr>
<td>CRL8170S</td>
<td>Medium</td>
<td>105° Hold Open</td>
</tr>
<tr>
<td>CRL8172S</td>
<td>Medium</td>
<td>105° No Hold Open</td>
</tr>
</tbody>
</table>

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 Door 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.

### Included in "A" Package

**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

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>SPRING SIZE</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRL8160A</td>
<td>Medium</td>
<td>90° Hold Open</td>
</tr>
<tr>
<td>CRL8162A</td>
<td>Medium</td>
<td>90° No Hold Open</td>
</tr>
<tr>
<td>CRL8170A</td>
<td>Medium</td>
<td>105° Hold Open</td>
</tr>
<tr>
<td>CRL8172A</td>
<td>Medium</td>
<td>105° No Hold Open</td>
</tr>
</tbody>
</table>

All CRL Door Closers can be combined for quantity pricing.
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.

**STANDARD MODEL CLOSER BODIES**

<table>
<thead>
<tr>
<th>SPRING SIZE</th>
<th>90° HOLD OPEN</th>
<th>90° NO HOLD OPEN</th>
<th>105° HOLD OPEN</th>
<th>105° NO HOLD OPEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light</td>
<td>CRL7060</td>
<td>CRL7062</td>
<td>CRL7070</td>
<td>CRL7072</td>
</tr>
<tr>
<td>Medium</td>
<td>CRL7160</td>
<td>CRL7162</td>
<td>CRL7170</td>
<td>CRL7172</td>
</tr>
<tr>
<td>Heavy</td>
<td>CRL7260</td>
<td>CRL7262</td>
<td>CRL7270</td>
<td>CRL7272</td>
</tr>
</tbody>
</table>

**A.D.A. COMPLIANCE MODEL CLOSER BODIES MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT**

<table>
<thead>
<tr>
<th>SPRING SIZE</th>
<th>90° HOLD OPEN</th>
<th>90° NO HOLD OPEN</th>
<th>105° HOLD OPEN</th>
<th>105° NO HOLD OPEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.D.A. -5 lb.</td>
<td>CRL6860</td>
<td>CRL6862</td>
<td>CRL6870</td>
<td>CRL6872</td>
</tr>
<tr>
<td>A.D.A. -8.5 lb.</td>
<td>CRL6890</td>
<td>CRL6892</td>
<td>CRL6970</td>
<td>CRL6972</td>
</tr>
</tbody>
</table>

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.

**“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.

**“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.

**“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.
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.

"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

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. CRL8010F

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).

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

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

- Conveniently Packaged with Instructions

CRL Patch Fittings for Overhead Concealed Door Closers

- Fits All Closers Listed Above
- Available in Four Finishes

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

Model PH10C for use with:
Floor Closers with Dorma Type Spindle

Model PH10D for use with:
Floor Closers with "MAB" Type Spindle

**TOLL FREE FAX (800) 262-3299           www.crlaurence.com TOLL FREE PHONE (800) 421-6144** 

F106
CRL Replacement Overhead Concealed Door Closers for Original Kawneer® Husky®

- Spindle Set in the Diamond Position at 0°
- 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.

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.
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

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).

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.
CRL Floating Header for Overhead Concealed Door Closers

- 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.

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

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.
CRL Low Profile Floor Mounted Door Closers

- 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)

CRL Narrow Width Floor Mounted Door Closers

- 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°.
CRL Heavy Weight Floor Mounted Door Closers

- U.L. Listed [UL]
- 800 Lb. Capacity, 54" Doors
- Interchangeable Spindle Heights
- Variable Delayed Action
- Multi-Point Hold-Open Position

All CRL Door Closers can be combined for quantity pricing.

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.

Center-Hung Floor Closer Arms

Fits CRL8300, CRL8400 and CRL8500 Series Floor Mounted Door Closers with flat tapered spindle.

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

1-1/2" Offset Arms

Walking Beam Pivot Cover Plate

Conceals CRL9040WBP Walking Beam Pivot in overhead tube extrusion.

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.

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.

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.
CRL Jackson 990 Heavy-Duty Floor Mounted Door Closer

- 1000 Pound Capacity
- 10 Year Warranty

Interchangeable Spindle System Adapts to Door and Floor Clearance Needs

Temperature Stabilizing Fluid with Thermal Sensitive Valves Gives Automatic Seasonal Adaptability

Visible Bubble Port Aids Leveling of Closer

3° Centering Adjustment Simplifies Double Swing Door Alignment

Tapered Roller Bearings Carry Thrust of Spindle with Ease, Providing Very Heavy Capacity and 80% Closing Energy Efficiency

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
- Adjustable Top Pivot
- Center-Hung and Offset Arms
- 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.

Dorma BTS-80 Retrofit Kit

Consists of:
- 990 Closer Body
- Cement Case
- Installation Package
- Retrofit Bracket
- Center-Hung Spindle

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.

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.
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.

CRL Center Hung Free-Swing Arm and Bottom Pivot

The NDC100 works on most existing floor closer spindles to make the door swing free.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDC100</td>
<td>Center Hung Free-Swing Arm and Bottom Pivot</td>
</tr>
</tbody>
</table>

CRL Offset Free-Swing Arm with Bottom Pivot

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDC101LH</td>
<td>Left Hand 3/4” Offset Floor Closer Arm</td>
</tr>
<tr>
<td>NDC101RH</td>
<td>Right Hand 3/4” Offset Floor Closer Arm</td>
</tr>
<tr>
<td>NDC101LH15</td>
<td>Left Hand 1-1/2” Offset Floor Closer Arm</td>
</tr>
<tr>
<td>NDC101RH15</td>
<td>Right Hand 1-1/2” Offset Floor Closer Arm</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDC102</td>
<td>Center Hung Free-Swing End Load Top Arm</td>
</tr>
</tbody>
</table>

CRL Center Hung Free-Swing Side Load Top Arm

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).

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>NDC102SLH</td>
<td>Left Hand Center Hung Free-Swing Side Load Top Arm</td>
</tr>
<tr>
<td>NDC102SLRH</td>
<td>Right Hand Center Hung Free-Swing Side Load Top Arm</td>
</tr>
</tbody>
</table>

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.

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.

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Husky® and Kawneer® are registered trademarks of Kawneer Company, Inc.
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

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.

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

- 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.

Typical Applications

- Hand Rails for Stairways and Mezzanines
- Office Partitions
- Wind Breaks for Balconies

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.
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.

For 1/4" (6mm) and 5/16" (8mm) Glass

For 3/8" (10mm) Glass

For 1/2" (12mm) Glass

All Z-Series Clamps can be combined for quantity pricing.
CRL Z-Series Round Type Flat Base Glass Clamps

SPECIFICATIONS:
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.

For 1/4" (6mm) and 5/16" (8mm) Glass

For 3/8" (10mm) Glass

For 1/2" (12mm) Glass
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.

For 1/4" (6mm) and 5/16" (8mm) Glass

For 3/8" (10mm) Glass

For 1/2" (12mm) Glass
CRL Z-Series Square Type Flat Base Glass Clamps

SPECIFICATIONS:
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.

For 1/4" (6mm) and 5/16" (8mm) Glass

For 3/8" (10mm) Glass

For 1/2" (12mm) Glass
CRL Mini Z-Series Glass Clamps
Round Shape - Flat Base
• For 1/4" (6mm) Thick Glass
• Fits 1" Diameter Tubing
• No Hole Drilling; Pressure Fit
• Ideal for Small Displays and Glass Barriers

CRL Mini Z-Series Glass Clamps
Round Shape - Radius Base
• For 3/8" (10mm) Glass

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

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

CRL Z-Series Large Round Glass Clamps
For 1/4" (6mm) Glass
• May be Used on Radius or Flat Surfaces

CRL Z-Series Large Round Glass Clamps
For 3/8" (10mm) Glass
• May be Used on Radius or Flat Surfaces

For Pricing on CRL Products, Call Toll Free
(800) 421-6144 or Visit www.crlaurence.com
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.

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>GLASS THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH3312BR</td>
<td>Brass</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>RH3333BR</td>
<td>Brass</td>
<td>3/8” (10mm)</td>
</tr>
<tr>
<td>RH3332CH</td>
<td>Chrome</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>RH3333CH</td>
<td>Chrome</td>
<td>3/8” (10mm)</td>
</tr>
</tbody>
</table>

SLANT OPEN CENTER ‘B’
Reversible center clamps at 52° slant for use with 3/8” or 1/2” thick glass.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>GLASS THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH4412BR</td>
<td>Brass</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>RH4433BR</td>
<td>Brass</td>
<td>3/8” (10mm)</td>
</tr>
<tr>
<td>RH4442CH</td>
<td>Chrome</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>RH4443CH</td>
<td>Chrome</td>
<td>3/8” (10mm)</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>GLASS THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RH5512BR</td>
<td>Brass</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>RH5533BR</td>
<td>Brass</td>
<td>3/8” (10mm)</td>
</tr>
<tr>
<td>RH5542CH</td>
<td>Chrome</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>RH5543CH</td>
<td>Chrome</td>
<td>3/8” (10mm)</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>LENGTH</th>
<th>GLASS THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1230CHR</td>
<td>Chrome</td>
<td>1-1/4”</td>
<td>3/8” (10mm)</td>
</tr>
<tr>
<td>1270CHR</td>
<td>Chrome</td>
<td>2-3/4”</td>
<td>3/8” (10mm)</td>
</tr>
<tr>
<td>1270GP</td>
<td>Gold</td>
<td>2-3/4”</td>
<td>3/8” (10mm)</td>
</tr>
<tr>
<td>1430CHR</td>
<td>Chrome</td>
<td>1-1/4”</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>1430GP</td>
<td>Gold</td>
<td>1-1/4”</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>1470CHR</td>
<td>Chrome</td>
<td>2-3/4”</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>1470GP</td>
<td>Gold</td>
<td>2-3/4”</td>
<td>1/2” (12mm)</td>
</tr>
</tbody>
</table>

**ROUND CLAMPS WITH SINGLE MOUNTING HOLE**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>DIAMETER</th>
<th>GLASS THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1020CHR</td>
<td>Chrome</td>
<td>25/32”</td>
<td>3/8” (10mm)</td>
</tr>
<tr>
<td>1222CHR</td>
<td>Chrome</td>
<td>15/16”</td>
<td>1/2” (12mm)</td>
</tr>
<tr>
<td>1222GP</td>
<td>Gold</td>
<td>15/16”</td>
<td>1/2” (12mm)</td>
</tr>
</tbody>
</table>

All Clamps can be combined for quantity pricing.
CRL Glass Awning Support System

- 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

NOTE: Glass Panel Not Included

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GLASS AWNING SYSTEM COMPONENTS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAS37BS</td>
<td>Rod for 36&quot; (914mm) Panel</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>GAS45BS</td>
<td>Rod for 42&quot; (1067mm) Panel</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>GAS54BS</td>
<td>Rod for 48&quot; (1219mm) Panel</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>GAS90BS</td>
<td>Mounting Kit Only</td>
<td>Brushed Stainless</td>
</tr>
</tbody>
</table>

* 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.

AWNING PANEL FABRICATION AND DIMENSIONS

Installations Conditions
The slope of the awning panel is limited to a maximum 5° slope from level.

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.
CRL Spider Fittings

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

1-WAY REGULAR-DUTY POST MOUNTED FITTING
CAT. NO.   FINISH
SPP1PS    Polished Stainless
SPP1BS    Brushed Stainless

POST MOUNTED STAND-OFF FITTING
CAT. NO.   FINISH
SPP0PS    Polished Stainless
SPP0BS    Brushed Stainless

4-WAY REGULAR-DUTY POST MOUNTED FITTING
CAT. NO.   FINISH
SPP4PS    Polished Stainless
SPP4BS    Brushed Stainless

2-WAY "V" REGULAR-DUTY POST MOUNTED FITTING
CAT. NO.   FINISH
SPP2VPS    Polished Stainless
SPP2VBS    Brushed Stainless

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

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" (16 mm) 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

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

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

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

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

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FOR FIN SIZE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTF12PS</td>
<td>12&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>FTF12BS</td>
<td>12&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>FTF16PS</td>
<td>16&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>FTF16BS</td>
<td>16&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>FTF20PS</td>
<td>20&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>FTF20BS</td>
<td>20&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>FTF24PS</td>
<td>24&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>FTF24BS</td>
<td>24&quot;</td>
<td>Brushed Stainless</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS:**
- **FOR USE WITH:** 3/4" (19 mm) Tempered Glass
- **DO NOT USE WITH:** Annealed or Raw Glass

**Glas 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FOR FIN SIZE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSF12PS</td>
<td>12&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>FSF12BS</td>
<td>12&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>FSF16PS</td>
<td>16&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>FSF16BS</td>
<td>16&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>FSF20PS</td>
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<td>Polished Stainless</td>
</tr>
<tr>
<td>FSF20BS</td>
<td>20&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>FSF24PS</td>
<td>24&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>FSF24BS</td>
<td>24&quot;</td>
<td>Brushed Stainless</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FOR FIN SIZE</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSU12PS</td>
<td>12&quot; to 20&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>FSU12BS</td>
<td>12&quot; to 20&quot;</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>FSU24PS</td>
<td>24&quot;</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>FSU24BS</td>
<td>24&quot;</td>
<td>Brushed Stainless</td>
</tr>
</tbody>
</table>

**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.
CRL Spider Fittings

Corner, Circular and Link Brackets

90° Corner Bracket
Used to secure glass at 90° corners. Supplied with four rigid countersunk glass connecting screws.

135° Corner Bracket
Used to secure glass at 135° corners. Supplied with four rigid countersunk glass connecting screws.

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.

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.

Link Bracket
Used to connect two 1/2" (12mm) glass inline panels together to reduce differential deflection. Supplied with two glass connecting screws.

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.
**CRL Spider Fittings**

**Fastener Hardware**

**Rigid Countersunk Fastener for 1/2" (12 mm) to 5/8" (16 mm) Glass**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP4999PS</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>SP4999BS</td>
<td>Brushed Stainless</td>
</tr>
</tbody>
</table>

**Glass Fabrication:**

One 5/8" (16mm) Countersunk Hole

**Swivel Countersunk Fastener for 1/2" (12 mm) to 5/8" (16 mm) Glass**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCF12PS</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>SCF12BS</td>
<td>Brushed Stainless</td>
</tr>
</tbody>
</table>

**Glass Fabrication:**

One 1" (25mm) Countersunk Hole

**Swivel Countersunk Fastener for 3/4" (19 mm) Glass**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCF34PS</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>SCF34BS</td>
<td>Brushed Stainless</td>
</tr>
</tbody>
</table>

**Glass Fabrication:**

One 1-7/16" (36mm) Countersunk Hole

**Rigid Cap Fastener for 1/2" (12 mm) to 5/8" (16 mm) Glass**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>RCF12PS</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>RCF12BS</td>
<td>Brushed Stainless</td>
</tr>
</tbody>
</table>

**Glass Fabrication:**

One 1-7/16" (36mm) Standard Hole

**Swivel Cap Fastener for 1/2" (12 mm) to 13/16" (20 mm) Glass**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCAP34PS</td>
<td>Polished Stainless</td>
</tr>
<tr>
<td>SCAP34BS</td>
<td>Brushed Stainless</td>
</tr>
</tbody>
</table>

**Glass Fabrication:**

One 2-5/16" (59mm) Standard Hole

**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)

**NEW**

For additional information, 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

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 will 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

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

F.O.B. All CRL Warehouses.
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.

SPECIFICATIONS:

Materials: Aluminum Extrusions, Pile Weatherstrip, Glazing Vinyl, Stainless Steel Shelf with Control Panel Assembly

Glazing: 1/4" Clear Tempered Glass

Stock Finishes: Satin Anodized or Duranodic Bronze

Configuration: Fully Automatic Bi-Fold


Power Requirements: 115V AC

To Determine Rough Opening: Add 1/2" to Width, 1/4" to Height

CRL Manual Bi-Fold Service Windows

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.

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
CRL All Electric Fully Automatic Deluxe Sliding Service Windows

Stock Sizes and Custom Sizes Available

控制面板组件

控制面板组件包含一个红外感应设备和一个自动/手动开关，分别安装在不锈钢框架中。

STOCK WINDOW SPECIFICATIONS:

材料：铝合金型材、Pile Weatherstrip、Glazing Vinyl、Stainless Steel Control Panel Assembly

密封：1/4" 清玻璃

外观：Satin Anodized or Duranodic Bronze

配置：XO or OX

控制：红外感应设备和自动/手动开关

框装推拉按钮开关用于手动操作，头朝向上安装主电源开关和推拉复位主保险丝

电源要求：硬线连接到115V AC电源

确定开口尺寸：增加宽度1/2"，高度1/4"

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)

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>OVERALL SIZE</th>
<th>SERVICE OPENING</th>
<th>CONFIGURATION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDW4830XOA</td>
<td>48&quot; W x 30&quot; H</td>
<td>20-7/8&quot; W x 23-1/8&quot; H</td>
<td>XO</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>EDW48300XA</td>
<td>48&quot; W x 30&quot; H</td>
<td>20-7/8&quot; W x 23-1/8&quot; H</td>
<td>OX</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>EDW4830XD</td>
<td>48&quot; W x 30&quot; H</td>
<td>20-7/8&quot; W x 23-1/8&quot; H</td>
<td>OX</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>EDW48300XD</td>
<td>48&quot; W x 30&quot; H</td>
<td>20-7/8&quot; W x 23-1/8&quot; H</td>
<td>OX</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>EDW4836XOA</td>
<td>48&quot; W x 36&quot; H</td>
<td>20-7/8&quot; W x 29-1/8&quot; H</td>
<td>XO</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>EDW48360XA</td>
<td>48&quot; W x 36&quot; H</td>
<td>20-7/8&quot; W x 29-1/8&quot; H</td>
<td>OX</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>EDW4836XD</td>
<td>48&quot; W x 36&quot; H</td>
<td>20-7/8&quot; W x 29-1/8&quot; H</td>
<td>OX</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>EDW48360XD</td>
<td>48&quot; W x 36&quot; H</td>
<td>20-7/8&quot; W x 29-1/8&quot; H</td>
<td>OX</td>
<td>Duranodic Bronze</td>
</tr>
</tbody>
</table>

* Determined From Clerksite  X = Sliding Panel  O = Fixed Panel (Specify when ordering). F.O.B. All CRL Warehouses.
CRL All Electric Fully Automatic Deluxe Sliding Service Windows

24V DC Electric Motor
1. Master Push-to-Reset Fuse
2. Master Power On/Off Switch
3. Removable Header Access Panel
4. Microprocessor Logic Control Module
5. Heavy-Duty Anti-Lift Ball Bearing Carrier
6. Thumbturn Hook Throw Deadlock
7. Locked/Unlocked Indicator
9. Vinyl Track (No Metal-to-Metal Rubbing)
10. Poly-Pile Weatherstripping with Fin
11. Electric Motor
12. Master Push-to-Reset Fuse
13. Narrow Siteline
14. Removable Header Access Panel for Servicing

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).

NEW

CAT. NO. EDW1803P
Aluminum Full Bottom Track
Window includes full bottom track. Provides clear service opening - (shown with Header Panel Removed).

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.

- 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 CX Aluminum Half Bottom Track Satin Anodized
EDW1801DU XO or CX Aluminum Half Bottom Track Duranodic Bronze
EDW1801P XO or CX Aluminum Half Bottom Track Painted (Specify)
EDW1802A XO or CX Aluminum Full Bottom Track Satin Anodized
EDW1802DU XO or CX Aluminum Full Bottom Track Duranodic Bronze
EDW1802P XO or CX Aluminum Full Bottom Track Painted (Specify)
EDW1803A XO or CX Stainless Steel Sill Satin Anodized
EDW1803DU XO or CX Stainless Steel Sill Duranodic Bronze
EDW1803P XO or CX Stainless Steel Sill Painted (Specify)
EDW1804A XO or CX Stainless Steel Shelf Satin Anodized
EDW1804DU XO or CX Stainless Steel Shelf Duranodic Bronze
EDW1804P XO or CX Stainless Steel Shelf Painted (Specify)
EDW3403A OXO Stainless Steel Sill Satin Anodized
EDW3403DU OXO Stainless Steel Sill Duranodic Bronze
EDW3403P OXO Stainless Steel Sill Painted (Specify)
EDW3404A OXO Stainless Steel Shelf Satin Anodized
EDW3404DU OXO Stainless Steel Shelf Duranodic Bronze
EDW3404P OXO 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.
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.

• 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

Use This Menu to Design the Deluxe Sliding Window of Your Choice

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

Finish:
- Satin Anodized
- Duranodic Bronze
- Any of the 187 RAL Powder Paints (Specify Color)
- Custom Kynar Paint (Specify Color)

Glazing:
- Thickness: 1/4"
- Type:
  - Tempered
  - Wire
  - Tinted
  - Laminated
  - Insulating (1/2" only)

Screen:
- With
- Without

CAT. NO. | CONFIGURATION | SCREEN | FINISH
--- | --- | --- | ---
DW1800A | X or XO* | No | Satin Anodized
DW1800DU | X or XO* | No | Duranodic Bronze
DW1800P | X or XO* | No | Painted (Specify)
DW2000A | X or XO* | Yes | Satin Anodized
DW2000DU | X or XO* | Yes | Duranodic Bronze
DW2000P | X or XO* | Yes | Painted (Specify)
DW2600A | XO | No | Satin Anodized
DW2600DU | XO | No | Duranodic Bronze
DW2600P | XO | No | Painted (Specify)
DW2800A | XO | Yes | Satin Anodized
DW2800DU | XO | Yes | Duranodic Bronze
DW2800P | XO | Yes | Painted (Specify)
DW3400A | OXO | No | Satin Anodized
DW3400DU | OXO | No | Duranodic Bronze
DW3400P | OXO | 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 | XOXO | Yes | Satin Anodized
DW5200DU | XOXO | Yes | Duranodic Bronze
DW5200P | XOXO | Yes | Painted (Specify)

* Determined From Clerkside X= Sliding Panel O= Fixed Panel F.O.B. All CRL Warehouses.
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.

Vertical Format Series 1000 to 1400

<table>
<thead>
<tr>
<th>SERIES</th>
<th>WITH SCREEN</th>
<th>WITHOUT SCREEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW1000</td>
<td>X</td>
<td>O</td>
</tr>
<tr>
<td>SW1200</td>
<td>X</td>
<td>O</td>
</tr>
<tr>
<td>SW1400</td>
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</tbody>
</table>

CLERK’S SIDE

Horizontal Format Series 1600 to 5600

<table>
<thead>
<tr>
<th>SERIES</th>
<th>WITH SCREEN</th>
<th>WITHOUT SCREEN</th>
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</thead>
<tbody>
<tr>
<td>SW1600</td>
<td>X</td>
<td>O</td>
</tr>
<tr>
<td>SW1800</td>
<td>X</td>
<td>O</td>
</tr>
<tr>
<td>SW2000</td>
<td>X</td>
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<tr>
<td>SW2400</td>
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<td>SW2600</td>
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<td>SW2800</td>
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<td>SW3000</td>
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</tr>
<tr>
<td>SW5600</td>
<td>X</td>
<td>O</td>
</tr>
</tbody>
</table>

CLERK’S SIDE

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

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

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
## 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

<table>
<thead>
<tr>
<th>LEVEL</th>
<th>M.P.S.A.</th>
<th>H.P.S.A.</th>
<th>S.P.S.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LEVEL 1</strong></td>
<td>Medium Power Small Arms (9mm)</td>
<td>High Power Small Arms (.357 Magnum)</td>
<td>Not Rated as Bullet Resistant</td>
</tr>
<tr>
<td><strong>LEVEL 2</strong></td>
<td>1-5/8” Bullet Resistant Glass</td>
<td>1-1/4” Bullet Resistant Lexgard</td>
<td></td>
</tr>
<tr>
<td><strong>LEVEL 3</strong></td>
<td>1-7/8” Bullet Resistant Glass</td>
<td>1-1/4” Bullet Resistant Lexgard</td>
<td></td>
</tr>
</tbody>
</table>

### U.L. 752 Ballistics

<table>
<thead>
<tr>
<th>Glazing Materials</th>
<th>Speak-Thrus</th>
<th>Counter / Shelf</th>
<th>Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-5/16” Bullet Resistant Glass</td>
<td>CAD101; TTU1 with Bullet Resistant Disc.</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td>1-1/4” Bullet Resistant Acrylic</td>
<td>TTU3 Matches Glazing Protection Level.</td>
<td>Special Order</td>
<td>Special Order</td>
</tr>
<tr>
<td>3/4” Bullet Resistant Lexgard</td>
<td>N555; N777. TTU3 Matches Glazing Protection Level.</td>
<td>Special Order</td>
<td>Special Order</td>
</tr>
<tr>
<td>1-1/4” Bullet Resistant Lexgard</td>
<td>TTU1 with Bullet Resistant Disc. TTU3 Matches Glazing Protection Level.</td>
<td>Special Order</td>
<td>Special Order</td>
</tr>
<tr>
<td>1/4” Glass</td>
<td>405; 410; 425; 430; 543; 549; 834; TTU1; TTU3; SST5; SST7</td>
<td>Special Order</td>
<td>Special Order</td>
</tr>
</tbody>
</table>

### U.L. 752 Bullet Resistant Product Testing

15’’ Range Distance
18” Penetration Indicator Material

### 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

- **LEVEL 1 M.P.S.A.**
  - 1-5/16” Bullet Resistant Glass
  - 3/4” Bullet Resistant Lexgard
- **LEVEL 1 M.P.S.A.**
  - 1-1/4” Bullet Resistant Acrylic
  - 1-1/4” Bullet Resistant Acrylic w/SAR Coating
- **LEVEL 1 M.P.S.A.**
  - 1-5/8” Bullet Resistant Glass
- **LEVEL 2 H.P.S.A.**
  - 1-1/4” Bullet Resistant Lexgard
- **LEVEL 3 S.P.S.A.**
  - 1-7/8” Bullet Resistant Glass
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-thru's, 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.

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)
S1EBW12A Exterior Glazed Exchange Window with 12" Shelf Satin Anodized
S1EBW12DU Exterior Glazed Exchange Window with 12" Shelf Duranodic Bronze
S1EBW12P Exterior Glazed Exchange Window with 12" Shelf Painted (Specify)
S1EBW18A Exterior Glazed Exchange Window with 18" Shelf Satin Anodized
S1EBW18DU Exterior Glazed Exchange Window with 18" Shelf Duranodic Bronze
S1EBW18P 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.
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.

### CAT. NO. DESCRIPTION FINISH

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>COV1A</td>
<td>Interior Glazed Vision Window with Surround Sound</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>COV1DU</td>
<td>Interior Glazed Vision Window with Surround Sound</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>COV1P</td>
<td>Interior Glazed Vision Window with Surround Sound</td>
<td>Painted (Specify)</td>
</tr>
<tr>
<td>COVEA</td>
<td>Exterior Glazed Vision Window</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>COVEDU</td>
<td>Exterior Glazed Vision Window</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>COVEP</td>
<td>Exterior Glazed Vision Window</td>
<td>Painted (Specify)</td>
</tr>
<tr>
<td>COV1W12A</td>
<td>Interior Glazed Exchange Window with Surround Sound and 12&quot; Shelf</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>COV1W12DU</td>
<td>Interior Glazed Exchange Window with Surround Sound and 12&quot; Shelf</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>COV1W12P</td>
<td>Interior Glazed Exchange Window with Surround Sound and 12&quot; Shelf</td>
<td>Painted (Specify)</td>
</tr>
<tr>
<td>COV1W18A</td>
<td>Interior Glazed Exchange Window with Surround Sound and 18&quot; Shelf</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>COV1W18DU</td>
<td>Interior Glazed Exchange Window with Surround Sound and 18&quot; Shelf</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>COV1W18P</td>
<td>Interior Glazed Exchange Window with Surround Sound and 18&quot; Shelf</td>
<td>Painted (Specify)</td>
</tr>
<tr>
<td>COE1W12A</td>
<td>Exterior Glazed Exchange Window with 12&quot; Shelf</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>COE1W12DU</td>
<td>Exterior Glazed Exchange Window with 12&quot; Shelf</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>COE1W12P</td>
<td>Exterior Glazed Exchange Window with 12&quot; Shelf</td>
<td>Painted (Specify)</td>
</tr>
<tr>
<td>COE1W18A</td>
<td>Exterior Glazed Exchange Window with 18&quot; Shelf</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>COE1W18DU</td>
<td>Exterior Glazed Exchange Window with 18&quot; Shelf</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>COE1W18P</td>
<td>Exterior Glazed Exchange Window with 18&quot; Shelf</td>
<td>Painted (Specify)</td>
</tr>
<tr>
<td>COSWA</td>
<td>Special Window - Multiple Lites, Dropdowns, Returns, etc...</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>COSWDU</td>
<td>Special Window - Multiple Lites, Dropdowns, Returns, etc...</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>COSWP</td>
<td>Special Window - Multiple Lites, Dropdowns, Returns, etc...</td>
<td>Painted (Specify)</td>
</tr>
</tbody>
</table>

Note window installed lower on wall for handicap access

**THE SPOT PARKING GARAGE, Los Angeles International Airport, Los Angeles, CA.**

**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.

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 Painted (Specify)
N1VEA Exterior Glazed Vision Window Satin Anodized
N1VEDU Exterior Glazed Vision Window Duranodic Bronze
N1VEP Exterior Glazed Vision Window Painted (Specify)
N1W12A Interior Glazed Exchange Window with Surround Sound and 12" Shelf Satin Anodized
N1W12DU Interior Glazed Exchange Window with Surround Sound and 12" Shelf Duranodic Bronze
N1W12P Interior Glazed Exchange Window with Surround Sound and 12" Shelf Painted (Specify)
N1W18A Interior Glazed Exchange Window with Surround Sound and 18" Shelf Satin Anodized
N1W18DU Interior Glazed Exchange Window with Surround Sound and 18" Shelf Duranodic Bronze
N1W18P Interior Glazed Exchange Window with Surround Sound and 18" Shelf Painted (Specify)
N1B12A Exterior Glazed Exchange Window with 12" Shelf Satin Anodized
N1B12DU Exterior Glazed Exchange Window with 12" Shelf Duranodic Bronze
N1B12P Exterior Glazed Exchange Window with 12" Shelf Painted (Specify)
N1B18A Exterior Glazed Exchange Window with 18" Shelf Satin Anodized
N1B18DU Exterior Glazed Exchange Window with 18" Shelf Duranodic Bronze
N1B18P 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)

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.

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)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1V1S</td>
<td>Interior Glazed Vision Window with Surround Sound</td>
<td>#4 Brushed</td>
</tr>
<tr>
<td>S1VES</td>
<td>Exterior Glazed Vision Window</td>
<td>#4 Brushed</td>
</tr>
<tr>
<td>S11W12S</td>
<td>Interior Glazed Exchange Window with Surround Sound and 12&quot; Shelf</td>
<td>#4 Brushed</td>
</tr>
<tr>
<td>S11W18S</td>
<td>Interior Glazed Exchange Window with Surround Sound and 18&quot; Shelf</td>
<td>#4 Brushed</td>
</tr>
<tr>
<td>S1EW12S</td>
<td>Exterior Glazed Exchange Window with 12&quot; Shelf</td>
<td>#4 Brushed</td>
</tr>
<tr>
<td>S1EW18S</td>
<td>Exterior Glazed Exchange Window with 18&quot; Shelf</td>
<td>#4 Brushed</td>
</tr>
<tr>
<td>S1SWS</td>
<td>Special Window - Multiple Lites, Dropdowns, Returns, etc...</td>
<td>#4 Brushed</td>
</tr>
</tbody>
</table>

F.O.B. All CRL Warehouses.

THE ALERUS CENTER, Installation by Northland Ltd., Fargo, ND

Technical Sales Department

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

F.O.B. All CRL Warehouses.
CRL Two-Piece Snap Together Sash and U-Channel for Bullet Resistant Glazing

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.

**Specifications**
- 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

**Catalog Numbers and Descriptions**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PB014A</td>
<td>Two-Piece Sash</td>
<td>Satin Anodized</td>
<td>12 R.</td>
</tr>
<tr>
<td>PB014DU</td>
<td>Two-Piece Sash</td>
<td>Duranodic Bronze</td>
<td>12 R.</td>
</tr>
<tr>
<td>PB015A</td>
<td>End Cap w/Screws</td>
<td>Satin Anodized</td>
<td>--</td>
</tr>
<tr>
<td>PB015DU</td>
<td>End Cap w/Screws</td>
<td>Duranodic Bronze</td>
<td>--</td>
</tr>
</tbody>
</table>

*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

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.

**Catalog Numbers and Descriptions**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SV643A</td>
<td>1-1/4&quot; U-Channel</td>
<td>Satin Anodized</td>
<td>12 R.</td>
</tr>
<tr>
<td>SV643DU</td>
<td>1-1/4&quot; U-Channel</td>
<td>Duranodic Bronze</td>
<td>12 R.</td>
</tr>
</tbody>
</table>

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

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.

Typical Applications:
- 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

References:
- C.R. Laurence/ENA Bullet Resistant Laminates. The components used in this system are labeled for your reference. Please refer to the hardware shown below.

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

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>PROTECTION LEVEL</th>
<th>PANEL THICKNESS</th>
<th>PANEL SIZE</th>
<th>PANEL WEIGHT</th>
<th>IMPACT VELOCITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRF100</td>
<td>1 M.P.S.A.</td>
<td>1/4”</td>
<td>96” x 48”</td>
<td>84 Lbs.</td>
<td>1250 Ft./Sec.</td>
</tr>
<tr>
<td>BRF200</td>
<td>2 H.P.S.A.</td>
<td>3/8”</td>
<td>96” x 48”</td>
<td>110 Lbs.</td>
<td>1395 Ft./Sec.</td>
</tr>
<tr>
<td>BRF300</td>
<td>3 S.P.S.A.</td>
<td>7/16”</td>
<td>96” x 48”</td>
<td>138 Lbs.</td>
<td>1470 Ft./Sec.</td>
</tr>
</tbody>
</table>

* Levels per U.L.752 Ballistic Performance Requirements Test specifications

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>MATERIAL</th>
<th>PROTECTION LEVEL</th>
<th>SHEET (MAXIMUM)</th>
<th>THICKNESS</th>
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</thead>
<tbody>
<tr>
<td>ACRYLIC1</td>
<td>Acrylic</td>
<td>1</td>
<td>Specify Size</td>
<td>1-1/4”</td>
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<tr>
<td>LEXGARD3</td>
<td>Lexgard</td>
<td>3</td>
<td>Specify Size</td>
<td>1-1/4”</td>
</tr>
</tbody>
</table>

Toll Free Fax (800) 262-3299  www.crlaurence.com  Toll Free Phone (800) 421-6144
CRL Bullet Resistant Sliding Windows

Today's market is looking for nighttime 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

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>PROTECTION LEVEL</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBRWEXA1</td>
<td>1</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>SBRWEXDU1</td>
<td>1</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>SBRWEXP1</td>
<td>1</td>
<td>Painted</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>PROTECTION LEVEL</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBRWA1</td>
<td>1</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>SBRWDU1</td>
<td>1</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>SBRWP1</td>
<td>1</td>
<td>Painted</td>
</tr>
<tr>
<td>SBRWA3</td>
<td>3</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>SBRWDU3</td>
<td>3</td>
<td>Duranodic Bronze</td>
</tr>
<tr>
<td>SBRWP3</td>
<td>3</td>
<td>Painted</td>
</tr>
</tbody>
</table>

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, OKO
  * Determined from Clerkside
  X = Sliding Panel; O = Fixed Panel

Specified by ISO9000 Certified Company
Designed, Engineered and Manufactured in the USA by C.R. Laurence

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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>TYPE</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCW102N</td>
<td>Standard Unit</td>
<td>24”</td>
<td>18”</td>
<td>38”</td>
</tr>
<tr>
<td>SCW102C</td>
<td>Custom Unit</td>
<td>Specify</td>
<td>Specify</td>
<td>Specify</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>TYPE</th>
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<td>18”</td>
<td>32”</td>
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<td>SCW103C</td>
<td>Custom Unit</td>
<td>Specify</td>
<td>Specify</td>
<td>Specify</td>
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</tbody>
</table>

**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.

<table>
<thead>
<tr>
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<tr>
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<td>RS200DRUM</td>
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<td>18-1/4&quot;</td>
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<tr>
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<td>Duranodic Bronze</td>
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<td>36”</td>
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<tr>
<td>RS201DRUM</td>
<td>Duranodic Bronze Framed</td>
<td>15-5/8&quot;</td>
<td>13-3/4”</td>
<td>18-1/4”</td>
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</tbody>
</table>

**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.

<table>
<thead>
<tr>
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<td>18-3/16”</td>
<td>18”</td>
<td>21-5/8”</td>
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</tbody>
</table>

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

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

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.

**SPECIFICATIONS:**

- **Material:** Stainless Steel
- **Finish:** Brushed Stainless Steel

Instructions and Templates Included

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.

**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**

**TAR12** for 1/2” Glass  
**TAR134** for 1-3/4” Doors

**OPTIONAL ADAPTER RINGS**

Thickness Adapter Rings are available for the 4” Speak-Thru. One for 1/2” glass; one 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

1-3/16" to 1-7/8" Bullet Resistant Glazing

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 a 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 1 1/4" Clear Acrylic Disc with Studs Level 1
CLD103 10' x 1 1/4" 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

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.

CRL Counter-Top Two Way Electronic Communicators

- Provides Clear Communication Through an Isolation Barrier
- Ruggedly Constructed and Tamper-Resistant

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.

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.
CRL Standard Drop In Deal Tray
• Flush Drop In Design
• Ideal for Cash and Coins

SPECIFICATIONS
Material: Stainless Steel
Finish: 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.

<table>
<thead>
<tr>
<th>POLISHED STAINLESS</th>
<th>BRUSHED STAINLESS</th>
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<td>10&quot;</td>
<td>1-9/16&quot;</td>
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<td>CTD12</td>
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<td>10&quot;</td>
<td>1-9/16&quot;</td>
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<td>CTD16</td>
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<td>10&quot;</td>
<td>1-9/16&quot;</td>
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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.

<table>
<thead>
<tr>
<th>W</th>
<th>D</th>
<th>H</th>
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<tr>
<td>12&quot;</td>
<td>8-1/4&quot;</td>
<td>1-9/16&quot;</td>
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<tr>
<td>18&quot;</td>
<td>8-1/4&quot;</td>
<td>1-9/16&quot;</td>
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</table>

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.

<table>
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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.

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All Trays can be combined for quantity pricing.

CRL Stainless Steel Shelf
• 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

12" or 18" Shelves in Widths from 24" to 72"
Non-Ricochet Deal Tray Provides Level 1 Protection

<table>
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All Trays can be combined for quantity pricing.

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</table>

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

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.

<table>
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<td>Thru-Wall</td>
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<td>27&quot;</td>
<td>14-5/8&quot;</td>
</tr>
</tbody>
</table>

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; Lexan; Bullet Resistant Plastic
- Finish: Brushed Stainless Steel (face plate only)
- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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</tbody>
</table>

All Drawers can be combined for quantity pricing.

CRL Deal Drawer

- 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.

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.

<table>
<thead>
<tr>
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</tbody>
</table>

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

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's side door. Handing is determined by hinge placement on customer's side. Approximate inside dimensions: 13" wide by 13" deep by 13" high.

CRL Package Receiver with Steel Doors

- Level 1 or Level 3 Protection
- Interlock Security on Doors

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.

CRL Rotary Server with Vision Panel

- 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.
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.

Literature to Add to Your Library

Frameless Shower Door Guide

- 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

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

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

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).

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.

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

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
(solled as a set)

CAT. NO. PPH01
Top or Bottom Mount

CAT. NO. PPH02
Glass-to-Glass Mount

CAT. NO. PPH03
L-Bracket Wall Mount

CAT. NO. PPH04
Inline Panel Mount

CAT. NO. PPH05
Offset Bracket Wall Mount

NEW MODEL

*NOTE: Do not exceed maximum door weight or width.

<table>
<thead>
<tr>
<th>MAXIMUM CAPACITIES</th>
<th>5/16&quot; (8 mm) GLASS DOOR WIDTH</th>
<th>3/8&quot; (10 mm) GLASS DOOR WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using 2 Hinges</td>
<td>100 Lbs/45 kg 31&quot;7787 mm</td>
<td>100 Lbs/45 kg 31&quot;7787 mm</td>
</tr>
</tbody>
</table>

TOLL FREE PHONE (800) 421-6144 TOLL FREE FAX (800) 262-3299 www.crlaurence.com
**Geneva Series Hinges**

**Wall Mount Full Back Plate Standard Model**
CAT. NO. GEN37
(Factory set for standard closing position)

**5° Offset Model**
CAT. NO. GEN37
(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. GEN074
(Factory set for 5° offset closure into shower interior)

**Wall Mount Offset Back Plate Standard Model**
CAT. NO. GEN444
(Factory set for standard closing position)

**5° Offset Model**
CAT. NO. GEN444
(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. GEN180
(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. GEN045
(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
- 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

**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**

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°).

---

**FRAMELESS SHOWER DOOR HARDWARE**

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com

TOLL FREE FAX (800) 262-3299           www.crlaurence.com TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. ■ CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. ■ PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

---

**MAXIMUM CAPACITIES**

<table>
<thead>
<tr>
<th></th>
<th>3/8” (10mm) Glass</th>
<th>1/2” (12mm) Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>Door Width</td>
<td>Weight</td>
</tr>
<tr>
<td>Using 2 Hinges</td>
<td>80 lbs/36 kg</td>
<td>287/11 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>120 lbs/54 kg</td>
<td>327/13 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.*
**Geneva Adjustable Series Hinges**  
NEW

**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 90° 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: Do not exceed maximum door weight or width when choosing proper quantity of hinges.*

<table>
<thead>
<tr>
<th><em>MAXIMUM CAPACITIES</em></th>
<th>3/8” (10 mm) Glass</th>
<th>1/2” (12 mm) Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEIGHT</strong></td>
<td><strong>DOOR WIDTH</strong></td>
<td><strong>WEIGHT</strong></td>
</tr>
<tr>
<td>Using 2 Hinges</td>
<td>80 lbs/36 kg</td>
<td>28”/711 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>120 lbs/54 kg</td>
<td>32”/813 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.*

**Geneva Pony Wall Mount Series Hinges**  
NEW

**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  

**NOTE:** For applications, 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).

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).
### 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

### New Finishes

**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)

### Specifications:
- **Glass Thickness:**
  - 3/8” (10 mm)
  - 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

### 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

- 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°).
**Pinnacle Adjustable Series Hinges**

**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 90° 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

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.

<table>
<thead>
<tr>
<th><strong>MAXIMUM CAPACITIES</strong></th>
<th>3/8&quot; (10 mm) GLASS</th>
<th>1/2&quot; (12 mm) GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEIGHT</strong></td>
<td><strong>DOOR WIDTH</strong></td>
<td><strong>WEIGHT</strong></td>
</tr>
<tr>
<td>Using 2 Hinges</td>
<td>80 lbs/36 kg</td>
<td>28'/711 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>120 lbs/54 kg</td>
<td>32'/813 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

**Roman Series Hinges**

**FINISHES:**
- Brass
- Chrome
- Brushed Nickel
- Polished Nickel
- Satin Chrome (Matte)
- Oil Rub Bronze

**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

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.

<table>
<thead>
<tr>
<th><strong>MAXIMUM CAPACITIES</strong></th>
<th>3/8&quot; (10 mm) GLASS</th>
<th>1/2&quot; (12 mm) GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEIGHT</strong></td>
<td><strong>DOOR WIDTH</strong></td>
<td><strong>WEIGHT</strong></td>
</tr>
<tr>
<td>Using 2 Hinges</td>
<td>80 lbs/36 kg</td>
<td>28'/711 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>120 lbs/54 kg</td>
<td>32'/813 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

**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.
Concord Series Hinges

Frameless Shower Door Hardware

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com

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

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.

**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

**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

**3/8” (10 mm) GLASS DOOR WIDTH**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Width</th>
</tr>
</thead>
</table>
| Using 2 Hinges | 80 lbs/36 kg | 287 mm
| Using 3 Hinges | 120 lbs/54 kg | 347 mm

**1/2” (12 mm) GLASS DOOR WIDTH**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Width</th>
</tr>
</thead>
</table>
| Using 2 Hinges | 80 lbs/36 kg | 267 mm
| Using 3 Hinges | 120 lbs/54 kg | 307 mm

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.
Estate Series Hinges

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**

<table>
<thead>
<tr>
<th></th>
<th>3/8” (10 mm) GLASS</th>
<th>1/2” (12 mm) GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WEIGHT</td>
<td>DOOR WIDTH</td>
</tr>
<tr>
<td>Using 2 Hinges</td>
<td>80 lbs/36 kg</td>
<td>28”/711 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>120 lbs/54 kg</td>
<td>34”/864 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.*

Ultimate Series Hinges

- **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**

<table>
<thead>
<tr>
<th></th>
<th>3/8” (10 mm) GLASS</th>
<th>1/2” (12 mm) GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WEIGHT</td>
<td>DOOR WIDTH</td>
</tr>
<tr>
<td>Using 2 Hinges</td>
<td>90 lbs/41 kg</td>
<td>30”/762 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>130 lbs/59 kg</td>
<td>32”/813 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.*
Vienna Series Hinges

• For Larger, Heavier Doors Up to 36" Wide and 145 Pounds
• Optional "Mouse-Ear" or Square Cut-Out
• Contains 5° Reversible Pivot Pin

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.

<table>
<thead>
<tr>
<th>*MAXIMUM CAPACITIES</th>
<th>3/8“ (10 mm) GLASS</th>
<th>1/2“ (12 mm) GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using 2 Hinges</td>
<td>110 lbs/50 kg</td>
<td>110 lbs/50 kg</td>
</tr>
<tr>
<td></td>
<td>36°/914 mm</td>
<td>36°/914 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>140 lbs/63 kg</td>
<td>140 lbs/63 kg</td>
</tr>
<tr>
<td></td>
<td>36°/914 mm</td>
<td>36°/914 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Regal Series Hinges

• 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°.

<table>
<thead>
<tr>
<th>*MAXIMUM CAPACITIES</th>
<th>5/16“ (8 mm) GLASS</th>
<th>3/8“ (10 mm) GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using 2 Hinges</td>
<td>90 lbs/41 kg</td>
<td>90 lbs/41 kg</td>
</tr>
<tr>
<td></td>
<td>30°/762 mm</td>
<td>30°/762 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>130 lbs/59 kg</td>
<td>130 lbs/59 kg</td>
</tr>
<tr>
<td></td>
<td>34°/864 mm</td>
<td>34°/864 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.
Senior and Junior Prima Series Hinges

**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:** Gaskets, Screws and Template

**CAPACITIES**

- **Using 2 Hinges**
  - 1/2" (12 mm) GLASS
  - **WEIGHT DOOR WIDTH**
  - **145 lbs/66 kg 36"/914 mm**

**JUNIOR PRIMA**

**FINISHES:**
- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- White with Chrome Screws

**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:** Gaskets, Screws and Template

**CAPACITIES**

- **Using 2 Hinges**
  - 1/4" (6 mm) GLASS
  - **WEIGHT DOOR WIDTH**
  - **62 lbs/28 kg 28"/711 mm**

---

**Rondo and Shell Series Hinges**

**FINISHES:**
- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- White with Chrome Screws

**SENIOR PRIMA**

**FINISHES:**
- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated

**SPECIFICATIONS:**
- **Glass Thickness:**
  - **Senior Prima:** 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

**CAPACITIES**

- **Using 2 Hinges**
  - **5/16" (8 mm) GLASS**
  - **WEIGHT DOOR WIDTH**
  - **100 lbs/45 kg 31"/787 mm**

- **3/8" (10 mm) GLASS**
  - **WEIGHT DOOR WIDTH**
  - **100 lbs/45 kg 31"/787 mm**

---

**Junior Prima**

**FINISHES:**
- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated

**SPECIFICATIONS:**
- **Glass Thickness:**
  - **Junior Prima:** 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

**CAPACITIES**

- **Using 2 Hinges**
  - **5/16" (8 mm) GLASS**
  - **WEIGHT DOOR WIDTH**
  - **100 lbs/45 kg 31"/787 mm**

- **3/8" (10 mm) GLASS**
  - **WEIGHT DOOR WIDTH**
  - **100 lbs/45 kg 31"/787 mm**
**Zurich Series Hinges**

- Wall Mount Outswing: CAT. NO. ZUR05
- Glass-to-Glass Outswing: CAT. NO. ZUR03
- 180° Glass-to-Glass Outswing or Bifold: CAT. NO. ZUR02
- Glass-to-Glass Inswing: CAT. NO. ZUR06
- Wall Mount Inswing: CAT. NO. ZUR04
- 180° Glass-to-Glass Inswing or Bifold: CAT. NO. ZUR01

**FINISHES:**
- Brass Plated
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- Other finishes

**SPECIFICATIONS:**
- Glass Thickness: 5/16” (8 mm) to 3/8” (10 mm) Tempered Safety Glass
- Special Feature: Ideal for Bi-Fold Application. Use ZUR02 and ZUR03 for doors that fold into tub area. Use ZUR01 and ZUR02 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

**CAPACITIES:**

- Using 2 Hinges
  - Weight: 100 lbs/45 kg
  - Glass Thickness: 5/16” (8 mm)
  - Glass Thickness: 3/8” (10 mm)
  - Door Width: 40” (1016 mm)
- Using 3 Hinges
  - Weight: 150 lbs/68 kg
  - Glass Thickness: 5/16” (8 mm)
  - Glass Thickness: 3/8” (10 mm)
  - Door Width: 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

**FINISHES:**
- Brass
- Chrome
- Satin Chrome (Matte)
- Brushed Nickel
- Brushed Pewter
- White with Chrome Center Block
- Oil Rub Bronze
- Other finishes

**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

**CAPACITIES:**

- Using 2 Hinges
  - Weight: 95 lbs/43 kg
  - Glass Thickness: 3/8” (10 mm)
  - Glass Thickness: 1/2” (12 mm)
  - Door Width: 34” (864 mm)
- Using 3 Hinges
  - Weight: 140 lbs/64 kg
  - Glass Thickness: 3/8” (10 mm)
  - Glass Thickness: 1/2” (12 mm)
  - Door Width: 34” (864 mm)

**NOTE:** Do not exceed maximum door weight or width when choosing proper quantity of hinges.

**Cathedral Series Hinges**

- Wall Mount Offset Back Plate: CAT. NO. CAT044
- 135° Glass-to-Glass: CAT. NO. CAT045
- 180° Glass-to-Glass: CAT. NO. CAT100
- 90° Glass-to-Glass: CAT. NO. CAT090

**FINISHES:**
- Brass/Chrome
- Chrome/Gold Plated
- Gold Plated/Chrome
- White/Chrome
- Satin Chrome/Chrome
- Other finishes

**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 doors.
- 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

**CAPACITIES:**

- Using 2 Hinges
  - Weight: 95 lbs/43 kg
  - Glass Thickness: 3/8” (10 mm)
  - Glass Thickness: 1/2” (12 mm)
  - Door Width: 34” (864 mm)
- Using 3 Hinges
  - Weight: 140 lbs/64 kg
  - Glass Thickness: 3/8” (10 mm)
  - Glass Thickness: 1/2” (12 mm)
  - Door Width: 34” (864 mm)

**NOTE:** Do not exceed maximum door weight or width when choosing proper quantity of hinges.
Classique Series Hinges

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 0º
- Cut-Out Required
- Includes: Gaskets, Screws and Template

<table>
<thead>
<tr>
<th>*MAXIMUM CAPACITIES</th>
<th>5/16&quot; (8 mm) GLASS</th>
<th>3/8&quot; (10 mm) GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT</td>
<td>DOOR WIDTH</td>
<td>WEIGHT</td>
</tr>
<tr>
<td>Using 2 Hinges</td>
<td>80 lbs/36 kg</td>
<td>317 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>120 lbs/54 kg</td>
<td>347 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

FINISHES:
- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- White with Chrome Center Block

Grande Series Hinges

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.

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 0º
- Cut-Out and Hole Required
- Includes: Gaskets, Screws and Template

<table>
<thead>
<tr>
<th>*MAXIMUM CAPACITIES</th>
<th>5/16&quot; (8 mm) GLASS</th>
<th>3/8&quot; (10 mm) GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT</td>
<td>DOOR WIDTH</td>
<td>WEIGHT</td>
</tr>
<tr>
<td>Using 2 Hinges</td>
<td>90 lbs/41 kg</td>
<td>317 mm</td>
</tr>
<tr>
<td>Using 3 Hinges</td>
<td>134 lbs/61 kg</td>
<td>347 mm</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.

FINISHES:
- Brass
- Chrome
- Satin Nickel
- Brushed Nickel
- Brushed Pewter
- Gold Plated
- White with Chrome Center Block
Petite Series Hinges

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.

<table>
<thead>
<tr>
<th>Hinge Type</th>
<th>Closing Type</th>
<th>Hinge Swings</th>
<th>Cut-Out Required</th>
<th>Special Feature</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall Mount Offset Back Plate</td>
<td>Precise closing to 0º</td>
<td>90° in and 90° out (except PET135, PET181 and PET182)</td>
<td>Includes: Gaskets, Screws and Template</td>
<td>Hinge plates are 25% thicker than competitive hinges, thereby reducing deflection and providing greater holding power.</td>
<td>Glass Thickness: 1/4&quot; (6 mm) to 5/16&quot; (8 mm) Tempered Safety Glass</td>
</tr>
</tbody>
</table>

**FINISHES:**
- Brass
- Chrome
- Gold Plated
- Satin Chrome (Matte)
- White with Chrome Center Block

**CAPACITIES:**
- Using 2 Hinges:
  - For 1/4" (6 mm) Glass: 55 lbs/25 kg, Door Width: 51.787 mm
  - For 5/16" (8 mm) Glass: 55 lbs/25 kg, Door Width: 51.787 mm
- Using 3 Hinges:
  - For 1/4" (6 mm) Glass: 82 lbs/37 kg, Door Width: 51.7864 mm
  - For 5/16" (8 mm) Glass: 82 lbs/37 kg, Door Width: 51.7864 mm

**NOTE:** Do not exceed maximum door weight or width when choosing proper quantity of hinges.

Monaco Series Hinges

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 MON044 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 MON181 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.

<table>
<thead>
<tr>
<th>Hinge Type</th>
<th>Closing Type</th>
<th>Hinge Swings</th>
<th>Cut-Out Required</th>
<th>Special Feature</th>
<th>SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall Mount Offset Back Plate</td>
<td>Precise closing to 0º</td>
<td>90° in and 90° out only</td>
<td>Includes: Gaskets, Screws and Template</td>
<td>Hinge plates are 25% thicker than competitive hinges, thereby reducing deflection and providing greater holding power.</td>
<td>Glass Thickness: 1/4&quot; (6 mm) to 5/16&quot; (8 mm) Tempered Safety Glass</td>
</tr>
</tbody>
</table>

**FINISHES:**
- Brass
- Chrome
- Gold Plated
- Satin Chrome (Matte)
- White with Chrome Center Block

**CAPACITIES:**
- Using 2 Hinges:
  - For 1/4" (6 mm) Glass: 55 lbs/25 kg, Door Width: 31.787 mm
  - For 5/16" (8 mm) Glass: 55 lbs/25 kg, Door Width: 31.787 mm
- Using 3 Hinges:
  - For 1/4" (6 mm) Glass: 82 lbs/37 kg, Door Width: 34.7864 mm
  - For 5/16" (8 mm) Glass: 82 lbs/37 kg, Door Width: 34.7864 mm

**NOTE:** Do not exceed maximum door weight or width when choosing proper quantity of hinges.
Junior Geneva Series Hinges

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

<table>
<thead>
<tr>
<th>Maximum Capacities</th>
<th>1/4” (6 mm) Glass</th>
<th>5/16” (8 mm) Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Using 2 Hinges</strong></td>
<td>62 lbs/28 kg</td>
<td>62 lbs/28 kg</td>
</tr>
<tr>
<td><strong>Using 3 Hinges</strong></td>
<td>92 lbs/42 kg</td>
<td>92 lbs/42 kg</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.*

FINISHES: Brass, Chrome, Satin Chrome, Gold Plated, Brushed Nickel, Brushed Pewter, White with Chrome Center Block

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Trianon Series Hinges

Trianon Hinges can be used to support 1/4” to 5/16” tempered safety glass in swinging door installations. They feature radius 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

<table>
<thead>
<tr>
<th>Maximum Capacities</th>
<th>1/4” (6 mm) Glass</th>
<th>5/16” (8 mm) Glass</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Using 2 Hinges</strong></td>
<td>62 lbs/28 kg</td>
<td>62 lbs/28 kg</td>
</tr>
<tr>
<td><strong>Using 3 Hinges</strong></td>
<td>92 lbs/42 kg</td>
<td>92 lbs/42 kg</td>
</tr>
</tbody>
</table>

*NOTE: Do not exceed maximum door weight or width when choosing proper quantity of hinges.*

FINISHES: Brass, Chrome, Satin Chrome (Matte), Gold Plated, White with Chrome Center Block

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For additional information, contact CRL Technical Sales at (800) 421-6144, Ext. 777
**Milano Series Hinges**

- **Wall Mount Full Back Plate**
  - CAT. NO. M1L037
- **180° Glass-to-Glass**
  - CAT. NO. M1L180
- **90° Glass-to-Glass**
  - CAT. NO. M1L090

**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

**Junior Cathedral Series Hinges**

- **Wall Mount Offset Back Plate**
  - (Allows clean sight line from shower exterior)
  - CAT. NO. JRCAT044
- **180° Glass-to-Glass**
  - CAT. NO. JRCAT180
- **90° Glass-to-Glass**
  - CAT. NO. JRCAT090

**FINISHES:**

- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- White with Chrome Center Block

**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

**FINISHES:**

- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- White with Chrome Center Block

**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

**FINISHES:**

- Brass/Chrome
- Chrome/Gold Plated
- White/Chrome
- Gold Plated/Chrome
- Satin Chrome (Matte)/Chrome

**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

---

**CAPACITIES**

- **1/4” (6 mm) GLASS**
- **DOOR WIDTH**
  - Using 2 Hinges: 60 lbs/27 kg
  - Using 3 Hinges: 90 lbs/41 kg

- **5/16” (8 mm) GLASS**
- **DOOR WIDTH**
  - Using 2 Hinges: 60 lbs/27 kg
  - Using 3 Hinges: 90 lbs/41 kg

---

**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

---

**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

---

**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

---

**WEIGHT**

- **92 lbs/42 kg**

---

**DOOR WIDTH**

- **32”/813 mm**

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**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

**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. 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.

**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

**CAT. NO. DESCRIPTION**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDCSK</td>
<td>Chain Containing 11 Popular Finishes</td>
</tr>
</tbody>
</table>

**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.**

- SDGK
- GENK1
- PETGASK
- P1NGASK
- PPHGK
- SRPPHGK

**HINGE SERIES**

- Concord (Lalique)
- Geneva
- Petite
- Prima
- Senior Prima

**Hinge Pin Wrench**

- Time Saving Tool for Changing Pivot Pin Degree Angle

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**

**CAT. NO.**

- SDSX12BR
- SDSX12CH
- SDSX12SB
- SDSX12SC
- SDSX12GP
- SDSX12GM
- SDSX12PN
- SDSX12BN
- SDSX12PW
- SDSX12W
- SDSX12BL
- SDSX12RD
- SDSX12ORB
- SDSX12ABR
- SDSX12SC

**FITS:**
- Junior Cathedral, Junior Geneva, Junior Prima, Milano, Trianon and Zurich Hinges

**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

**Hinge Clamping Plate Screws (6mm x 5/8")**

**Fits:**
- Elite and Senior Prima Hinges

**Wall Mounting Screws (10 x 2")**

**Fits:**

**Standard Pack:**
- 10 Each
**Bulk Pack:**
- 50 Each

**CAT. NO.**

- SDSX12BR
- SDSX12CH
- SDSX12SB
- SDSX12SC
- SDSX12GP
- SDSX12GM
- SDSX12PN
- SDSX12BN
- SDSX12PW
- SDSX12W
- SDSX12BL
- SDSX12RD
- SDSX12ORB
- SDSX12ABR
- SDSX12SC

**FINISH**

- Brass
- Chrome
- Satin Chrome
- Gun Metal
- Gold Plated
- Polished Nickel
- Brushed Nickel
- Brushed Pewter
- White
- Black
- Red
- Oil Rub Bronze
- Antique Brass
- Brush Satin Chrome

**CAT. NO.**

- SDS10X2BR
- SDS10X2CH
- SDS10X2SB
- SDS10X2SC
- SDS10X2GP
- SDS10X2GM
- SDS10X2PN
- SDS10X2BN
- SDS10X2PW
- SDS10X2W
- SDS10X2BL
- SDS10X2RD
- SDS10X2BRBULK
- SDS10X2WBULK

**FINISH**

- Brass
- Chrome
- Satin Chrome
- Gun Metal
- Gold Plated
- Polished Nickel
- Brushed Nickel
- Brushed Pewter
- White
- Black
- Red

**Call Toll-Free from Anywhere in the U.S.A. or Canada.**

TOLL FREE FAX (800) 262-3299  www.crl Laurence.com  TOLL FREE PHONE (800) 421-6144

 ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
CRL Contemporary Style Knobs

**SPECIFICATIONS:**
- Material: Solid Brass
- Available Finishes: Brass, Chrome, Satin Brass, Satin Chrome (Matte), Satin Nickel, Brushed Nickel, Brushed Chrome, Oil Rub Bronze, Antique Brass, White, Black, Red, Ultra Brass

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 Protruding Ring Style Knob**

**SPECIFICATIONS:**
- Material: Solid Brass
- Available Finishes: Brass Knob/Brass Rings, Brass Knob/Chrome Rings, Chrome Knob/Brass Rings, Chrome Knob/Chrome Rings, White Knob/Brass Rings and Brushed Nickel Knob/Brass Rings

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 Jnr Contemporary Style Knob**

**SPECIFICATIONS:**
- Material: Solid Brass
- Available Finishes: Brass, Chrome, Satin Chrome (Matte), Brushed Nickel, Gold Plated, and White

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 in displaying as little hardware as possible. Knob stands 1-3/16" from the surface.

CRL Traditional Style Knobs

**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

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 Flush Ring Style Knob**

**SPECIFICATIONS:**
- Material: Solid Brass
- Available Finishes: Brass Knob/Brass Rings, Brass Knob/Chrome Rings, Chrome Knob/Brass Rings, Chrome Knob/Chrome Rings, and White Knob/Brass Rings

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 Mini Bulb Style Knob**

**SPECIFICATIONS:**
- Material: Solid Brass
- Available Finishes: Brass, Chrome, Satin Chrome (Matte), Brushed Satin Chrome, Brushed Nickel, Polished Nickel, Oil Rub Bronze, Antique Brass

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

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.

CRL Euro Style Knob

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

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

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

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.

FINISHES:
- Brass
- Chrome
- Satin Brass
- Satin Chrome (Matte)
- Brushed Satin Chrome
- Gold Plated
- Polished Nickel
- Brushed Nickel
- Brushed Pewter
- Oil Rub Bronze
- White
- Antique Brass
- 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

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)

CAT. NO. BPD6
CAT. NO. BPS6
CAT. NO. SPH6
CAT. NO. SSP6
CAT. NO. CQ10X10
CAT. NO. SPH8
CAT. NO. SSP8
CAT. NO. SBP61

CRL Solid Pull Handles
• 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.

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

The eye-catching Sculptured 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.

FINISHES:
- Brass
- Chrome
- Satin Chrome (Matte)
- Brushed Satin Chrome
- 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

6" Size
CAT. NO. BM6X6

8" Size
CAT. NO. BM8X8

WITHOUT METAL WASHERS

6" Size
CAT. NO. BMNW6X6

8" Size
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 Victorian Style Back-to-Back Pull Handles

FINISHES:
- Brass
- Chrome
- Satin Chrome
- Satin Chrome (Matte)
- Brushed Satin Chrome
- Gold Plated
- Gun Metal
- Polished Nickel
- Brushed Nickel
- Brushed Pewter
- Oil Rub Bronze
- Black
- Red
- Antique Brass
- White
- Antique Brushed Copper
- Satin Brass
- Polished Copper

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

RING FINISHES:
- Brass
- Chrome

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
CRL BM Series Single-Sided Towel Bars

**WITH METAL WASHERS**

<table>
<thead>
<tr>
<th>Available Sizes</th>
<th>Fitting Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot; Towel Bar</td>
<td>CAT. NO. BM12 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>18&quot; Towel Bar</td>
<td>CAT. NO. BM18 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>20&quot; Towel Bar</td>
<td>CAT. NO. BM20 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>22&quot; Towel Bar</td>
<td>CAT. NO. BM22 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>24&quot; Towel Bar</td>
<td>CAT. NO. BM24 (1.5 mil thick) Brass Tubing</td>
</tr>
</tbody>
</table>

without metal washers have a 1/8" low profile end cap.

CRL BM Series Back-to-Back Towel Bars

**WITH METAL WASHERS**

<table>
<thead>
<tr>
<th>Available Sizes</th>
<th>Fitting Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot; Towel Bar</td>
<td>CAT. NO. BM12X12 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>18&quot; Towel Bar</td>
<td>CAT. NO. BM18X18 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>24&quot; Towel Bar</td>
<td>CAT. NO. BM24X24 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>30&quot; Towel Bar</td>
<td>CAT. NO. BMX30 (1.5 mil thick) Brass Tubing</td>
</tr>
</tbody>
</table>

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.

**CRL BM Series Combination Pull Handle/Towel Bar**

**WITH METAL WASHERS**

<table>
<thead>
<tr>
<th>Available Sizes</th>
<th>Fitting Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; Pull / 12&quot; Towel Bar</td>
<td>CAT. NO. BM6X12 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>6&quot; Pull / 18&quot; Towel Bar</td>
<td>CAT. NO. BM6X18 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>6&quot; Pull / 24&quot; Towel Bar</td>
<td>CAT. NO. BM6X24 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>8&quot; Pull / 18&quot; Towel Bar</td>
<td>CAT. NO. BM8X18 (1.5 mil thick) Brass Tubing</td>
</tr>
<tr>
<td>8&quot; Pull / 24&quot; Towel Bar</td>
<td>CAT. NO. BM8X24 (1.5 mil thick) Brass Tubing</td>
</tr>
</tbody>
</table>

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 request.
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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDTBS12</td>
<td>12&quot; Towel Bar</td>
</tr>
<tr>
<td>SDTBS18</td>
<td>18&quot; Towel Bar</td>
</tr>
<tr>
<td>SDTBS24</td>
<td>24&quot; Towel Bar</td>
</tr>
</tbody>
</table>

**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
- Gold Plated
- Satin Chrome (Matte)
- Black
- White
- Red
- Oil Rub Bronze
- Satin Brass
- Brushed Nickel
- Polished Nickel

CRL SD Series Brass Back-to-Back Towel Bars for Glass

**• Complete with Metal Washers**

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDTB12X12</td>
<td>12&quot; Towel Bar</td>
</tr>
<tr>
<td>SDTB18X18</td>
<td>18&quot; Towel Bar</td>
</tr>
<tr>
<td>SDTB24X24</td>
<td>24&quot; Towel Bar</td>
</tr>
</tbody>
</table>

**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
- Satin Brass
- Gold Plated
- Satin Chrome (Matte)
- Black
- White
- Red
- Oil Rub Bronze
- Satin Brass
- Brushed Nickel
- Polished Nickel

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
- Black
- White
- Red
- Oil Rub Bronze
- Satin Brass
- Brushed Nickel
- Polished Nickel
- Antique Brass

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.

**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)

**FINISHES:**
- Brass
- Chrome
- Satin Chrome (Matte)
- Gold Plated
- Brushed Nickel
- White

CRL Grab Bars

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.

**SPECIFICATIONS:**
- **Material:** 1-1/4” (32 mm) diameter Stainless Steel or Brass Tubing
- **Include:** 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

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.

**FINISHES:**
- Brass
- Chrome
- Satin Chrome (Matte)
- Polished Nickel
- Brushed Nickel
- Brushed Satin Chrome
- Oil Rub Bronze
- White
- Black

**SPECIFICATIONS:**
- **Material:** 3/4” (19 mm) diameter Clear Acrylic Rod; 1-1/8” (25 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
- **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

**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 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 installations.

Oversized Fixed Panel U-Clamp

**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 each panel
- **Includes:** Mounting Screw and Gaskets
- **Note:** An additional set of gaskets is required for 5/16" (8 mm) glass installations.

Standard 90° Glass Clamp

**SPECIFICATIONS:**
- **Material:** Solid Brass or Stainless Steel
- **Available Finishes:** 17 Stock Finishes
- **Glass Thickness:** 5/16" (8 mm) to 3/8" (10 mm)
- **Hole Diameter Required:** 5/8" (16 mm) or 3/4" (19 mm) diameter each panel
- **Includes:** Gaskets, Wood Screw and Gaskets
- **Note:** An additional set of gaskets is suggested for use in 1/2" thick glass installations.

Oversized 90° Glass Clamp

**SPECIFICATIONS:**
- **Material:** Solid Brass
- **Available Finishes:** 15 Stock Finishes
- **Glass Thickness Range:** 5/16" (8 mm) to 1/2" (12 mm)
- **Hole Size Required:** 5/6" (16 mm) or 3/4" (19 mm) diameter each panel
- **Includes:** Gaskets; Wood Screw for optional wall mounting application
- **Note:** Maximum Transom Size is 12" H x 30" W

135° Glass Clamp

**SPECIFICATIONS:**
- **Material:** Solid Brass
- **Available Finishes:** 12 Stock Finishes
- **Glass Thickness:** 5/16" (8 mm) to 1/2" (12 mm)
- **Hole Size Required:** 5/8" (16 mm) or 3/4" (19 mm) diameter each panel
- **Includes:** Gaskets
- **Note:** An additional set of gaskets is required for 5/16" (8 mm) glass.

Movable Transom Clamps

**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:** GC8136: 5/8" (16 mm) or 3/4" (19 mm) diameter each panel
- **Includes:** Gaskets; Mounting Screw for optional wall mounting application
- **Note:** Maximum Transom Size is 12" H x 30" W

180° Glass Clamp

**SPECIFICATIONS:**
- **Material:** Solid Brass
- **Available Finishes:** 12 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) diameter each panel
- **Includes:** Gaskets, Extra Screw for "Y" installations
- **Note:** An additional set of gaskets is required for 5/16" (8 mm) glass

180° Split Face and "Y" Inline Clamp

**SPECIFICATIONS:**
- **Material:** Solid Brass
- **Available Finishes:** 12 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) diameter each panel
- **Includes:** Gaskets, Extra Screw for "Y" installations
- **Note:** An additional set of gaskets is required for 5/16" (8 mm) glass

180° Double Stud Glass Clamp

**SPECIFICATIONS:**
- **Material:** Solid Brass
- **Available Finishes:** 13 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) diameter each panel
- **Includes:** Gaskets
- **Note:** An additional set of gaskets is required for 5/16" (8 mm) glass

Solid Brass 180° Glass Clamps are ideal for fixed transom or inline panel installations in frameless shower enclosures.

Oversized Fixed Panel U-Clamps are especially recommended for 1/2" thick glass installations.
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

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. SGC135
Size: 2" (51 mm) Wide
x 2" (51 mm) High

Beveled Style
CAT. NO. BGC135
Size: 2-1/2" (64 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. SGC180
Each Leg Size:
2-1/2" (64 mm) Wide
x 2" (51 mm) High

Beveled Style
CAT. NO. BGC180
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.

CRL Shower Interior Shelf Clamps

FINISHES:
- Brass
- Chrome
- Brushed Nickel (FA10 only)
- Satin Chrome (FA10 and FA12 only)
- Gold Plated
- Brushed Satin Chrome
- Brushed Nickel
- Polished Nickel
- Oil Rub Bronze
- Antique Brass

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.

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 protrusion 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)

**U-Style Fixed Panel Clamp**
- **CAT. NO. ROM79**
  - Size: 1-3/4” (44 mm) Wide x 1-3/4” (44 mm) High

**180° Single Stud Glass Clamp**
- **CAT. NO. ROM680**
  - Size: 3-1/4” (83 mm) Wide x 1-3/4” (44 mm) High

**180° Double Stud Glass Clamp**
- **CAT. NO. ROM184**
  - Size: 3-1/2” (89 mm) Wide x 1-3/4” (44 mm) High

**135° Glass Clamp**
- **CAT. NO. ROM135**
  - Size: 1-3/4” (44 mm) Wide x 1-3/4” (44 mm) high (each plate)

**90° Glass Clamp**
- **CAT. NO. ROM91**
  - Size: 1-3/4” (44 mm) Wide x 1-3/4” (44 mm) High (each plate)

**Wall Bracket**
- **CAT. NO. ROM90S**
  - Size: 2-1/8” (54 mm) Wide x 2-3/16” (62 mm) High

**CRL Cathedral Series Clamps**
- **Fixed Panel U-Clamp**
  - **CAT. NO. GC8279**
    - Size: 2-1/8” (54 mm) Wide x 2-1/8” (54 mm) High

**180° Glass-to-Glass Clamp**
- **CAT. NO. GC8280**
  - Size: 4-5/16” (109 mm) Wide x 1-3/4” (44 mm) High (each plate)

**135° Glass-to-Glass Clamp**
- **CAT. NO. GC8235**
  - Size: 2-1/8” (54 mm) Wide x 1-3/4” (44 mm) High (each plate)

**CRL Wall Mount Brackets for Fixed Panels**
- Available in Up to Six Finishes in Our Most Popular Styles
- 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

**FRAMING LES SHOWER DOOR HARDWARE**

**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 panels together. Extra stability is achieved by the hole made in each panel to accommodate the clamp’s internal studs.

**NEW**

**U-Style Fixed Panel Clamps** are used to secure fixed panels of glass in frameless shower door installations.

**135° Glass Clamps** are designed to clamp two fixed panels together at an angle.

**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 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.

**FINISHES:**
- **Brass/Chrome**
- **Chrome/Gold Plated**
- **Satin Chrome/Chrome**
- **Gold Plated/Chrome**
- **White/Chrome**
CRL Junior Traditional Style Glass Clamps for 1/4" (6 mm) Thick Glass Only

Fixed Panel U-Clamp

CRL Junior Traditional Style Glass Clamps for 1/4" (6 mm) Thick Glass Only

135° Glass Clamp

90° Glass Clamp

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

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

CRL Junior Cathedral Style Glass Clamps for 1/4" (6 mm) Thick Glass Only (See Specifications Above)

Fixed Panel Clamp

90° Glass Clamp

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
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**

**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: 96” (2.5 meters)

**Coming Soon!**
U-Channel End Caps in Matching Finishes

**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.

**Profiles and finishes can be combined for quantity pricing.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>GLASS THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDCD38BA</td>
<td>Brite Anodized</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDCD38BGA</td>
<td>Brite Gold Anodized</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDCD38A</td>
<td>Anodized</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDCD38AB</td>
<td>Brushed Anodized</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDCD38PN</td>
<td>Polished Nickel</td>
<td>3/8” (10 mm)</td>
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<tr>
<td>SDCD38BN</td>
<td>Brushed Nickel</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDCD38SB</td>
<td>Satin Brass</td>
<td>3/8” (10 mm)</td>
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<tr>
<td>SDCD38ABR</td>
<td>Antique Brass</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDCD38ORB</td>
<td>Oil Rub Bronze</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDCD38W</td>
<td>White</td>
<td>3/8” (10 mm)</td>
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<td>SDCD38BL</td>
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<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDC12BA</td>
<td>Brite Anodized</td>
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<td>SDC12BGA</td>
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<td>1/2” (12 mm)</td>
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<td>SDC12A</td>
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<td>SDC12SB</td>
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<td>SDC12ABR</td>
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<tr>
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<td>SDC12W</td>
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<td>1/2” (12 mm)</td>
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<tr>
<td>SDC12BL</td>
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</tbody>
</table>

**Fixed Panel Deep U-Channel**

**Fixed Panel Regular U-Channel**

**Shower Door U-Channel with Wipe**

**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.

**Profiles and finishes can be combined for quantity pricing.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>GLASS THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDCR38BA</td>
<td>Brite Anodized</td>
<td>3/8” (10 mm)</td>
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<tr>
<td>SDCR38BGA</td>
<td>Brite Gold Anodized</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDCR38BN</td>
<td>Brushed Nickel</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>SDCR12BA</td>
<td>Brite Anodized</td>
<td>1/2” (12 mm)</td>
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<tr>
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</tr>
<tr>
<td>SDCR12BN</td>
<td>Brushed Nickel</td>
<td>1/2” (12 mm)</td>
</tr>
</tbody>
</table>

**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.

**Profiles and finishes can be combined for quantity pricing.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>GLASS THICKNESS</th>
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<td>SDW38BA</td>
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<tr>
<td>SDW38BGA</td>
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</tr>
<tr>
<td>SDW38SC</td>
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<td>SDW12BA</td>
<td>Brite Anodized</td>
<td>1/2” (12 mm)</td>
</tr>
<tr>
<td>SDW12BGA</td>
<td>Brite Gold Anodized</td>
<td>1/2” (12 mm)</td>
</tr>
</tbody>
</table>
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
- New Finishes
- New Size

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

CRL Deluxe Header Kit Accessories (Sold Separately)

- Top and Bottom Pivot Hinges Require the Use of an Adapter Block

New Sizes

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
<th>CAT. NO.</th>
<th>Finish</th>
<th>Angle</th>
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</thead>
<tbody>
<tr>
<td>98&quot;</td>
<td>Deluxe Header Kit (one round side, one flat side)</td>
<td>SDH880BA</td>
<td>Brite Anodized</td>
<td>90°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SDH880BGA</td>
<td>Brite Gold Anodized</td>
<td>90°</td>
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<tr>
<td></td>
<td></td>
<td>SDH880A</td>
<td>Anodized</td>
<td>90°</td>
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<td></td>
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<td>SDH880AB</td>
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<td>90°</td>
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<tr>
<td></td>
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<td>SDH880PN</td>
<td>Polished Nickel</td>
<td>90°</td>
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<tr>
<td></td>
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<td>SDH880BN</td>
<td>Brushed Nickel</td>
<td>90°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SDH880ABR</td>
<td>Antique Brass</td>
<td>90°</td>
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<tr>
<td></td>
<td></td>
<td>SDH880ORB</td>
<td>Oli Rub Bronze</td>
<td>90°</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SDH880W</td>
<td>White</td>
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<tr>
<td></td>
<td></td>
<td>SDH880BL</td>
<td>Black</td>
<td>90°</td>
</tr>
</tbody>
</table>

New Finishes

- One Set of SHB100 Aluminum Wall Mounting Brackets
- One Set of SHB100 Aluminum Wall Mounting Brackets
- One Set of SHB100 Aluminum Wall Mounting Brackets

90° Aluminum Fixed Corner

- BRASS HEADER CORNERS
  - BH900: 90° Brite Anodized
  - BH915: 90° Brushed Anodized
- ALUMINUM HEADER CORNERS
  - CAS90: 90° Adjustable
  - CAS95: 95° Adjustable

ALUMINUM WALL MOUNTING BRACKETS

- SHB100: Standard Wall Mounting Brackets (2/pk)
- SHB225: 2-1/4" Blank Mounting Bracket

BRASS WALL MOUNTING BRACKETS

- BWM2: Standard Wall Mounting Brackets (2/pk)

ADAPTER BLOCKS USED WITH PRIMA, RONDO OR SHELL HINGES

- HAB01: Prime Adapter Block (Screw Provided)
- SRHAB01: Senior Adapter Block (Screw Provided)
- 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: Oli Rub Bronze and Antique Brass
- HAB01BL: Black
- HAB01B: White

SENIOR ADAPTER BLOCKS USED WITH SENIOR PRIMA HINGES

- SRHAB01: Prime Adapter Block (Screw Provided)
- SRHAB01A: Brite Anodized and Polished Nickel
- SRHAB01BGA: Brite Gold, Oli 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.

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 bell-shaped clamping device on the wall side, and way up to the ceiling. The Wall-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.

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).
CRL Shower Door Threshold

• Assists Watershed Back into Shower
• Perfect for Flat or Out-Sloping Curbs
• Available in Up to Four Finishes

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 Mildef Resistant Silicone Sealant to adhere to curb of shower stall.

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.

CRL 1/4” Deep Nose “J” Channel

• 11 Finishes
• 12’ Stock Lengths

NEW! BRUSHED NICKEL FINISH

See Page F220 for more information

CRL 1/4” Standard “J” Channel

• 11 Finishes
• 12’ Stock Lengths

NEW! BRUSHED NICKEL FINISH

See Page F220 for more information

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.

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.

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 Extrusions and Kits
• Hinged KD. Door Kits for 1/4” (6 mm) Glass

Stock Kits include: Aluminum Extrusions, 24” Towel Bar, Knob, Hardware Package and Installation Instructions. (Glass Not Included). Custom sizes and finishes are available.

CALL FOR DETAILS!
CRL Clear Polycarbonates, Vinyl Seals and Edge Wipes

- Over 20 Various Configurations
- All Varieties Can Ship Via UPS

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.

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.

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 or outswing doors. 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.

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

CRL Transparent and Translucent Adhesive Tapes

- Instantly Adheres Wipes and Seals Evenly and Securely
- 3M™ VHB™ Tape Attains Full Strength Within 72 Hours

CRL Blue Joint Framing Tape

- Ideal for Framing Tooled Silicone Joints
- Three Widths to Choose From

Contact CRL Technical Sales at (800) 421-6144 Ext. 777 for more information.
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".

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>LENGTH</th>
<th>BRASS CAT. NO.</th>
<th>CHROME CAT. NO.</th>
<th>SATIN CHROME CAT. NO.</th>
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</thead>
<tbody>
<tr>
<td>SOB3434BR</td>
<td>3/4&quot;</td>
<td>SOB3434CH</td>
<td>SOB3434SC</td>
<td></td>
</tr>
<tr>
<td>SOB341BR</td>
<td>1&quot;</td>
<td>SOB341CH</td>
<td>SOB341SC</td>
<td></td>
</tr>
<tr>
<td>SOB34112BR</td>
<td>1-1/2&quot;</td>
<td>SOB34112CH</td>
<td>SOB34112SC</td>
<td></td>
</tr>
<tr>
<td>SOB342BR</td>
<td>2&quot;</td>
<td>SOB342CH</td>
<td>SOB342SC</td>
<td></td>
</tr>
<tr>
<td>SOB344BR</td>
<td>4&quot;</td>
<td>SOB344CH</td>
<td>SOB344SC</td>
<td></td>
</tr>
<tr>
<td>SOB346BR</td>
<td>6&quot;</td>
<td>SOB346CH</td>
<td>SOB346SC</td>
<td></td>
</tr>
</tbody>
</table>

Note: Maximum material thickness for use with 3/4" diameter Standoff Bases is 1/2".

All Standoff Bases can be combined for quantity pricing.

### 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.

| CAT. NO. | LENGTH | BRUSHED STAINLESS CAT. NO. | POLISHED STAINLESS CAT. NO. |
|----------|--------|----------------|----------------|----------------|----------------|----------------|
| S0B1214BS | 1/4" | S0B1214PS |
| S0B1212BS | 1/2" | S0B1212PS |
| S0B1234BS | 3/4" | S0B1234PS |
| S0B1212PS | 1" | S0B1212PS |
| S0B1211BS | 1-1/2" | S0B1211PS |

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 3/4" Standoffs

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP34BR</td>
<td>Brass</td>
</tr>
<tr>
<td>CAP34CH</td>
<td>Chrome</td>
</tr>
<tr>
<td>CAP34SC</td>
<td>Satin Chrome</td>
</tr>
</tbody>
</table>

All Standoff Cap Assemblies can be combined for quantity pricing.

### Cap Assemblies for 1/2" Standoffs

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP12BS</td>
<td>Brushed Stainless</td>
</tr>
<tr>
<td>CAP12PS</td>
<td>Polished Stainless</td>
</tr>
</tbody>
</table>

All Standoff Cap Assemblies can be combined for quantity pricing.
How CRL Standoffs Work

Mounting Accessories are shown on the next page.

Display Hardware

TOLL FREE FAX (800) 262-3299           www.crlaurence.com TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. ■ CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. ■ PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

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 be no 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 Nyloc Hex Nuts.

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

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.
Standoff System Accessories

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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>STANDOFF</th>
<th>THREAD SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLN1024S</td>
<td>Stainless</td>
<td>1/2&quot;</td>
<td>10-24</td>
</tr>
<tr>
<td>NLN1420S</td>
<td>Stainless</td>
<td>3/4&quot;</td>
<td>1/4&quot;-20</td>
</tr>
<tr>
<td>NLN1420Z</td>
<td>Zinc</td>
<td>3/4&quot;</td>
<td>1/4&quot;-20</td>
</tr>
<tr>
<td>NLN51618S</td>
<td>Zinc</td>
<td>1-1/4&quot;</td>
<td>5/16&quot;-18</td>
</tr>
<tr>
<td>NLN51618Z</td>
<td>Zinc</td>
<td>1-1/4&quot;</td>
<td>5/16&quot;-18</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>STANDOFF</th>
<th>THREAD SIZE</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>HN1420S</td>
<td>Stainless</td>
<td>3/4&quot;</td>
<td>1/4&quot;-20</td>
</tr>
<tr>
<td>HN1420Z</td>
<td>Zinc</td>
<td>3/4&quot;</td>
<td>1/4&quot;-20</td>
</tr>
<tr>
<td>HNS51618S</td>
<td>Zinc</td>
<td>1-1/4&quot;</td>
<td>5/16&quot;-18</td>
</tr>
<tr>
<td>HNS51618Z</td>
<td>Zinc</td>
<td>1-1/4&quot;</td>
<td>5/16&quot;-18</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>STANDOFF</th>
<th>THREAD SIZE</th>
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<tbody>
<tr>
<td>TNI1024Z</td>
<td>Zinc</td>
<td>1/2&quot;</td>
<td>10-24</td>
</tr>
<tr>
<td>TNI1420Z</td>
<td>Zinc</td>
<td>3/4&quot;</td>
<td>1/4&quot;-20</td>
</tr>
<tr>
<td>TNI51618Z</td>
<td>Zinc</td>
<td>1-1/4&quot;</td>
<td>5/16&quot;-18</td>
</tr>
</tbody>
</table>

Use Flat Washers with Hex Nuts when attaching Standoffs to panels or substrates. Available in stainless and zinc finishes.

**FLAT WASHERS**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<th>STANDOFF</th>
<th>THREAD SIZE</th>
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</thead>
<tbody>
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<td>1/4&quot;-20</td>
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<td>Zinc</td>
<td>3/4&quot;</td>
<td>1/4&quot;-20</td>
</tr>
<tr>
<td>PW516S</td>
<td>Stainless</td>
<td>1-1/4&quot;</td>
<td>5/16&quot;-18</td>
</tr>
<tr>
<td>PW516Z</td>
<td>Zinc</td>
<td>1-1/4&quot;</td>
<td>5/16&quot;-18</td>
</tr>
</tbody>
</table>

Use the Concrete Anchor when securing the Standoff Base to a cement or stone wall.

**CONCRETE ANCHORS**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>STANDOFF</th>
<th>THREAD SIZE</th>
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</thead>
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<tr>
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<td>3/4&quot;</td>
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<tr>
<td>CA51618</td>
<td>1-1/4&quot;</td>
<td>5/16&quot;-18</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW</td>
<td>Zinc</td>
<td>4-1/2&quot;</td>
</tr>
</tbody>
</table>
CRL Edge Grip Display System

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.

<table>
<thead>
<tr>
<th>Finish</th>
<th>Length</th>
<th>CAT.NO.</th>
</tr>
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<tbody>
<tr>
<td>Chrome</td>
<td>1/4&quot;</td>
<td>EG14CH</td>
</tr>
<tr>
<td>Satin Chrome</td>
<td>3/8&quot;</td>
<td>EG38SC</td>
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<tr>
<td>Brass</td>
<td>1/2&quot;</td>
<td>EG12CH</td>
</tr>
<tr>
<td>Satin Chrome</td>
<td>Disk</td>
<td>EG12SKCH</td>
</tr>
</tbody>
</table>

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-Glass Fitting
Dual Swivel Fitting designed for glass-to-glass applications. Maximum panel thickness is 1".

Optional Swivel Links
Optional links provide flexibility when extra length is required between ends of Swivel Fittings.

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.
CRL Cable Display System

- 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.

### 2mm Stainless Steel Cable

- One Length per Pack

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>LENGTH</th>
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<tbody>
<tr>
<td>CB70</td>
<td>118 Inches</td>
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<tr>
<td>CB72</td>
<td>196 Inches</td>
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### Ringed Anchor Fitting

<table>
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<th>FINISH</th>
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<tbody>
<tr>
<td>CB78</td>
<td>Nickel Plated</td>
<td>1</td>
</tr>
</tbody>
</table>

### Ceiling Mount Fittings

### Fixed Base Floor Fittings

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).

All Cable Display components can be combined for quantity pricing.
All Cable Display components can be combined for quantity pricing.

**DISPLAY HARDWARE**

### Short, Round Floor Base Fittings

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY/PK.</th>
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</thead>
<tbody>
<tr>
<td>CB84</td>
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</tr>
<tr>
<td>CB86</td>
<td>Gold Plated</td>
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### Long, Round Floor Base Fittings

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
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<tbody>
<tr>
<td>CB88</td>
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<tr>
<td>CB90</td>
<td>Gold Plated</td>
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</tr>
</tbody>
</table>

### Fixed Single Shelf Brackets

For 1/4" and 5/16" Glass

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<th>QTY/PK.</th>
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<tbody>
<tr>
<td>CB92</td>
<td>Chrome</td>
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</tr>
<tr>
<td>CB94</td>
<td>Gold Plated</td>
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</tbody>
</table>

### Fixed Double Shelf Brackets

For 1/4" and 5/16" Glass

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<th>QTY/PK.</th>
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</thead>
<tbody>
<tr>
<td>CB96</td>
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<tr>
<td>CB98</td>
<td>Gold Plated</td>
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</tbody>
</table>

### Adjustable Single Shelf Brackets

For 1/4" and 5/16" Glass

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<th>QTY/PK.</th>
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<tbody>
<tr>
<td>CB100</td>
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<tr>
<td>CB102</td>
<td>Gold Plated</td>
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</tr>
</tbody>
</table>

### Adjustable Double Shelf Brackets

For 1/4" and 5/16" Glass

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<tr>
<th>CAT NO.</th>
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<tbody>
<tr>
<td>CB104</td>
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<td>CB106</td>
<td>Gold Plated</td>
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</tr>
</tbody>
</table>

### Drilled Glass Shelf Brackets

Requires 1/2" (12mm) Hole in Glass

For 1/4" and 5/16" Glass

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY/PK.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB108</td>
<td>Chrome</td>
<td>1</td>
</tr>
<tr>
<td>CB110</td>
<td>Gold Plated</td>
<td>1</td>
</tr>
</tbody>
</table>

### Hanger Pipe Base Fittings

Mounts on Wall or Ceiling

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY/PK.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB112</td>
<td>Chrome</td>
<td>1</td>
</tr>
<tr>
<td>CB114</td>
<td>Gold Plated</td>
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</table>

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For 1/4" and 5/16" Glass

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<td>CB114</td>
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</table>

### Drilled Glass Shelf Brackets

Requires 1/2" (12mm) Hole in Glass

For 1/4" and 5/16" Glass

<table>
<thead>
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### Hanger Pipe Base Fittings

Mounts on Wall or Ceiling

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</table>
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

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.

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.

Note: All measurements on this page are shown in millimeters.
CRL Rod Display System

- 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.

**Stainless Steel Rod**

Stainless Steel Rod measures 39-3/8" (1000mm), and is threaded to accept RD4303CH Rod Base and RD4301CH Finishing Nut.

**Finishing Nut**

Chrome Plated Brass Finishing Nut is threaded to fit tops of RD4302CH Stainless Steel Rods.

**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.

**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.

**Rod Base**

Zinc alloy Rod Base mounts to a cabinet top with three screws. Threaded to accept RD4302CH Stainless Steel Rods.

**Components Needed for Rod Display Shown Above**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>QUANTITY NEEDED</th>
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</thead>
<tbody>
<tr>
<td>RD4301CH</td>
<td>Finishing Nut</td>
<td>10</td>
</tr>
<tr>
<td>RD4302CH</td>
<td>1000mm Stainless Steel Rod</td>
<td>10</td>
</tr>
<tr>
<td>RD4303CH</td>
<td>Rod Base</td>
<td>10</td>
</tr>
<tr>
<td>RD4304CH</td>
<td>2-Way Glass Support</td>
<td>10</td>
</tr>
<tr>
<td>RD4305CH</td>
<td>1-Way Glass Support</td>
<td>28</td>
</tr>
</tbody>
</table>

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.
CRL Custom Glass Showcases

• 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.

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.

Contact CRL Technical Sales for your free copy of our SD03 Frameless Shower Door Catalog.

Photos Courtesy of Artistry in Glass of Naples, Florida
CRL Semi-Assembled Showcase Kits

- 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.

### 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

#### CRL Tempered Glass Display Systems

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>BASE COLOR</th>
<th>DIMENSIONS</th>
<th>SHELF HARDWARE FOR</th>
<th>APPROX. SHIP WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW148SA</td>
<td>White Black</td>
<td>48” W x 20” D x 38” H</td>
<td>One 8” Shelf; One 10” Shelf</td>
<td>68 lbs.</td>
</tr>
<tr>
<td>HW160SA</td>
<td>White Black</td>
<td>60” W x 20” D x 38” H</td>
<td>Two 8” Shelves; Two 10” Shelves</td>
<td>80 lbs.</td>
</tr>
<tr>
<td>HW172SA</td>
<td>White Black</td>
<td>72” W x 20” D x 38” H</td>
<td>Two 8” Shelves; Two 10” Shelves</td>
<td>90 lbs.</td>
</tr>
</tbody>
</table>

All Showcase Kits ship F.O.B CRL Warehouses, and are too large to ship via U.P.S.

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<th>SHELF HARDWARE FOR</th>
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</tr>
</thead>
<tbody>
<tr>
<td>BB1101W</td>
<td>White Black</td>
<td>30” Diameter, 62” High</td>
<td>One 8” Shelf; Two 10” Shelves</td>
<td>68 lbs.</td>
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<tr>
<td>BB1104W</td>
<td>White Black</td>
<td>39” Wide, 27” Deep, 55” High</td>
<td>Two 8” Shelves; Two 10” Shelves</td>
<td>80 lbs.</td>
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<tr>
<td>BB1103W</td>
<td>White Black</td>
<td>40” Wide, 14” Deep, 50” High</td>
<td>Two 8” Shelves; Two 10” Shelves</td>
<td>90 lbs.</td>
</tr>
</tbody>
</table>

STYLED BB1101

STYLED BB1104

STYLED BB1103

STYLED BB1107

- 16 Display Areas
- Rotates Manually for Easy Access
- 24 Display Areas
- Hidden Casters
- 12 Display Areas
- Hidden Casters
- Four Adjustable Shelves
- Lockable Sliding Doors
- Light Kit Included

Displays ship F.O.B. CRL warehouses, except BB1107 Style. Contact CRL Technical Services for complete details.
CRL Security Anti-Lift Showcase Track Assembly

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.

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.

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.

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.

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.

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 "jimmed" apart. Satin Anodized finish matches the track extrusions. Two clips per pack.

Popular Upper Channels for Track Assemblies
Security "H" Bar and Lower Track can be used with these popular Upper Channels.

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.

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

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.

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

CRL Aluminum Rolling Track Assembly Components in Flat Black Finish

Upper Channel

<table>
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<th>CAT. NO.</th>
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Deep Upper Channel

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<td>Depth</td>
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“T” Bar Lower Channel

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<tr>
<td>Depth</td>
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CRL Aluminum Rolling Track Assembly Components in Flat Black Finish

D610 “H” Bar

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MC610 “H” Bar

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D5610 “H” Bar

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</table>

Wheel Assembly

Standard nylon and heavy-duty ball bearing rollers used with our D610BL, LK610BL and MC610BL “H” Bars.

Types can be combined for quantity pricing.

End Caps

End Cap for D610BL “H” Bar

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>D332BL</th>
</tr>
</thead>
</table>

End Cap for LK610BL “H” Bar

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>D334BL</th>
</tr>
</thead>
</table>

CRL Aluminum Rolling Track Assembly Components in Flat Black Finish

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 rattling.

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.

CRL Shelf Connectors

- 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.

CRL Single Glass Shelf Supports

- 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).

CRL Double Glass Shelf Supports

- 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 10 mm).

CRL Twist-Lock Shelf Connectors

- Crystal Clear Polycarbonate Connectors for Use with 3/16” (5mm) Glass
- 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.
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

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.

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.
**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

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.

### CRL Shower Interior Shelf Clamps

- **Fit 5/16” to 3/8” Glass**
- **Available in Brass and Chrome**

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.

### 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.

### CRL Raised Lip Finger Pulls

- **Recessed Design for Easy Usage**
- **Stick-On Application**

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.

### 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.

### CRL 1” White Star Rosette

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.

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 1/8" top and 1/8" bottom (1/2" total).

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).

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.

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.

CRL Showcase Corner Connectors

- 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.
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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>COLOR</th>
<th>QTY./PKG</th>
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<tbody>
<tr>
<td>GDH5BL</td>
<td>Black</td>
<td>1 Pair</td>
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<tr>
<td>GDH5BR</td>
<td>Brass</td>
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</tr>
<tr>
<td>GDH5CH</td>
<td>Chrome</td>
<td>1 Pair</td>
</tr>
</tbody>
</table>

**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).

<table>
<thead>
<tr>
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<th>COLOR</th>
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</thead>
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<tr>
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<td>GDH66BR</td>
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</tr>
<tr>
<td>GDH66CH</td>
<td>Chrome</td>
<td>1 Pair</td>
</tr>
</tbody>
</table>

**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).

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>COLOR</th>
<th>QTY./PKG</th>
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<tbody>
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</tr>
<tr>
<td>GDH66CH</td>
<td>Chrome</td>
<td>1 Pair</td>
</tr>
</tbody>
</table>

**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”

**GDH66 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”

**GDH66 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.

<table>
<thead>
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<th>CAT NO.</th>
<th>COLOR</th>
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<td>GDH50EL</td>
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</tr>
<tr>
<td>GDH50CH</td>
<td>Chrome</td>
<td>1 Per</td>
</tr>
</tbody>
</table>

**CRL Drill Jig**

Special flexible Drill Jig makes it easy to install GDH5 Standard Mount Hinges in cabinet frames.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>HOLE</th>
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<tbody>
<tr>
<td>GDH5J1G</td>
<td>Drill Jig</td>
<td>.334&quot;</td>
</tr>
</tbody>
</table>

**Magnetic Glass Door Latches**

Single Latches: Magnetic Latch for single glass cabinet doors. Use with one Strike Plate.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDH11BL</td>
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</tbody>
</table>

Double Latches: Magnetic Latch for paired glass cabinet doors. Use with two Strike Plates.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDH22BL</td>
<td>Black</td>
</tr>
</tbody>
</table>

**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”.

<table>
<thead>
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<th>COLOR</th>
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<tr>
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<tr>
<td>GDH7BR</td>
<td>Brass</td>
</tr>
<tr>
<td>GDH7CH</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

**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”.

<table>
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<th>CAT NO.</th>
<th>COLOR</th>
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<tbody>
<tr>
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<td>GDH80BR</td>
<td>Brass</td>
</tr>
<tr>
<td>GDH80CH</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<tbody>
<tr>
<td>GDH60BL</td>
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<td>Brass</td>
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<tr>
<td>GDH60CH</td>
<td>Chrome</td>
</tr>
</tbody>
</table>

All glass hardware on this page can be combined for quantity pricing.

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com.

For Toll Free FAX (800) 262-3299.
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).

Inset Hinge

Inset Hinge allows for flush mounting of glass in cabinet opening. Mounts to EH122 Plate (below).

Installation Instructions

1. Drill 26mm hole in glass

2. Drill cabinet for EH122 Mounting Plate

CAT. NO. DESCRIPTION QTY./PKG.
EH202 Overlay Hinge 1

EH204 Inset Hinge 1

Mounting Plate

Mounting Plate to secure European Style Overlay or Inset Hinge to cabinet wall.

CAT. NO. DESCRIPTION QTY./PKG.
EH122 Mounting Plate 1

Glass Cover Plates

Glass Cover Plates hide thru-glass portion of Overlay or Inset Hinges.

CAT. NO. DESCRIPTION QTY./PKG.
EH156 Chrome Cover Plate 1
EH158 Brass Cover Plate

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

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.

CAT. NO. DESCRIPTION QTY./PKG.
0911BC Black Chrome Random Key 100
0911BCKA Black Chrome Keyed Alike 100
0911SC Satin Chrome Random Key 100
0911SKKA Satin Chrome Keyed Alike 100

CRL Glass Retainer Clip

CAT. NO. DESCRIPTION QTY./PKG.
GRC8351 Glass Retainer Clip 100

Installation assistance available. Contact CRL Technical Sales.
GLASS HARDWARE

CRL Hinges

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
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<tr>
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<td>BH242</td>
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</table>

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.

<table>
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<tr>
<td>BH254</td>
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</table>

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.

<table>
<thead>
<tr>
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<td>BH246</td>
<td>Chrome Plated</td>
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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.

<table>
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<td>BH250</td>
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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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY/PKG</th>
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<tbody>
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<td>BH256</td>
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<td>BH258</td>
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</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY/PKG</th>
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<tbody>
<tr>
<td>BH260</td>
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<tr>
<td>BH262</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY/PKG</th>
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<tbody>
<tr>
<td>BH224</td>
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<tr>
<td>BH226</td>
<td>Brass</td>
<td>1 Set</td>
</tr>
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</table>

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°.

<table>
<thead>
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<th>CAT NO.</th>
<th>FINISH</th>
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<td>BH236</td>
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</tr>
<tr>
<td>BH238</td>
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<td>1/4&quot;</td>
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### 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
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<tr>
<td>EH174</td>
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</tbody>
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#### 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
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</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>EH180</td>
<td>Chrome</td>
<td>2</td>
</tr>
<tr>
<td>EH182</td>
<td>Brass</td>
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</tbody>
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#### 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<tbody>
<tr>
<td>EH196</td>
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<tr>
<td>EH198</td>
<td>Brass</td>
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</table>

#### 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY/PKG</th>
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</thead>
<tbody>
<tr>
<td>EH192</td>
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</tr>
<tr>
<td>EH194</td>
<td>Brass</td>
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</tr>
</tbody>
</table>

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All EH Series Hinges can be combined for quantity pricing.
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.

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.

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.

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.

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.**

<table>
<thead>
<tr>
<th>FINISH</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brass</td>
<td>Cam Lock</td>
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<tr>
<td>Chrome</td>
<td>Cam Lock</td>
</tr>
<tr>
<td>Brass</td>
<td>Option Stop Plate</td>
</tr>
<tr>
<td>Chrome</td>
<td>Option Stop Plate</td>
</tr>
</tbody>
</table>

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.

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.

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.

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.

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.

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.

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.

All glass door locks can be combined for quantity pricing.
CRL Locks

Cabinet Sliding Glass Door Push Lock

- No Need to Drill a Hole
- Fits Up to 1/4” Glass

Cabinet Glass Door Lock for Single Door

- No Need to Drill a Hole
- Fits Up to 1/4” Glass

Cabinet Glass Door Lock for Double Doors

- No Need to Drill a Hole
- Fits Up to 1/4” Glass

Glass Door Cylinder Lock with Keeper

- Requires Drilling 1” Hole in Glass
- Fits Up to 1/4” Glass

Plunger Lock for Sliding Track

- No Need to Drill a Hole in Glass

All Glass Door Locks Can Be Combined For Quantity Pricing.

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com

ACCESSORIES: Two Brass Keys, Strike Plate, Mounting Plate and Two Screws
CRL Locks
Cabinet Glass Door Lock
• Fits Up to 1/4" Glass
• For Bypassing Cabinet Doors

Swinging Glass Door Lock
• For 1/4" Glass Double Doors

Cabinet Swinging Glass Door Lock
• For Double Doors
• Requires Drilling 3/4" Hole in Glass

Cam Lock for Wood Door
• For 3/4" Wood Doors

Cabinet Swinging Glass Door Lock
• 3/4" Diameter Cylinder

Cam Lock for Wood Door
• Requires Drilling 3/4" Hole
• 1" Long, 3/4" Diameter Cylinder

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

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

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

Accessories: Two Brass Keys, Front Plate, Strike Plate, Straight Cam, Washer, Hex Nut and Two Screws

CAT. NO. DESCRIPTION
LK22 RH Chrome Plated Lock
LK22KA RH Chrome Plated Lock
LK24 RH Brass Plated Lock
LK24KA RH Brass Plated Lock

Accessories: Two Cams, Washer, Nut, Two Keys

CAT. NO. DESCRIPTION
LK56 Nickel Plated Cam Lock
LK56KA Keyed Alike Nickel Plated Cam Lock

Accessories: Two Brass Keys, Offset Hook Cam, Two Front Plates, Two Washers and Two Hex Nuts

CAT. NO. DESCRIPTION
LK34 Chrome Plated Lock
LK34KA Keyed Alike Chrome Plated Lock
LK36 Brass Plated Lock
LK36KA Keyed Alike Brass Plated Lock

Accessories: Two Brass Keys, Front Plate, Strike Plate, Straight Cam, Washer, Hex Nut and Two Screws

CAT. NO. DESCRIPTION
LK18 LH Chrome Plated Lock
LK18KA LH Chrome Plated Lock
LK20 LH Brass Plated Lock
LK20KA LH Brass Plated Lock

Accessories: Two Brass Keys, Front Plate, Strike Plate, Straight Cam, Washer, Hex Nut and Two Screws

CAT. NO. DESCRIPTION
LK22 RH Chrome Plated Lock
LK22KA RH Chrome Plated Lock
LK24 RH Brass Plated Lock
LK24KA RH Brass Plated Lock

LEFT HAND SHOWN
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).

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.

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.

### Drawer/Door Cam Lock Specifications

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>BARREL LENGTH</th>
<th>MAX. THICKNESS</th>
<th>CAM LENGTH</th>
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</thead>
<tbody>
<tr>
<td>KML13</td>
<td>Drawer/Door Cam Lock</td>
<td>7/8&quot;</td>
<td>5/8&quot;</td>
<td>1-1/4&quot;</td>
</tr>
</tbody>
</table>

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 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.

### Sliding Door Ratchet Lock Specifications

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>MAX. DOOR THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>KML48</td>
<td>Standard Ratchet Lock</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>KML48AB</td>
<td>Optional Adjustable Bar</td>
<td>1&quot;</td>
</tr>
</tbody>
</table>

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 KML41 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.

### Sliding Door Plunger Lock Specifications

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>MAX. DOOR THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>KML41</td>
<td>Sliding Door Plunger Lock</td>
<td>1-1/32&quot;</td>
</tr>
</tbody>
</table>

All Keymatic Locks can be combined for quantity pricing.
CRL Counter Posts

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 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

- 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.

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.

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!
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

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.

### 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.

### 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

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Types and sizes can be combined for quantity pricing.
**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

<table>
<thead>
<tr>
<th>Size</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>BM4S2X20</td>
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<tr>
<td>3”</td>
<td>BM4S2X30</td>
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<tr>
<td>4”</td>
<td>BM4S2X38</td>
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<tr>
<td>4”</td>
<td>BM4S2X44</td>
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<tr>
<td>4”</td>
<td>BM4S2X56</td>
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### Mitered Mirror Corners Beveled On All 5 Sides

<table>
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<tr>
<th>Size</th>
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<tbody>
<tr>
<td>2”</td>
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<tr>
<td>3”</td>
<td>BM4M3</td>
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<tr>
<td>4”</td>
<td>BM4M4</td>
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### Mirror T-Connectors Beveled On All 6 Sides

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<tr>
<th>Size</th>
<th>CAT. NO.</th>
</tr>
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<tbody>
<tr>
<td>2”</td>
<td>BM4T2</td>
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<tr>
<td>3”</td>
<td>BM4T3</td>
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<tr>
<td>4”</td>
<td>BM4T4</td>
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### Mirror Emerald Corners Beveled On All 6 Sides

<table>
<thead>
<tr>
<th>Size</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”</td>
<td>BM4E2</td>
</tr>
<tr>
<td>3”</td>
<td>BM4E3</td>
</tr>
<tr>
<td>4”</td>
<td>BM4E4</td>
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### Mirror Strips Beveled On All 4 Sides

<table>
<thead>
<tr>
<th>Width X Length</th>
<th>CAT. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2” X 20”</td>
<td>BM4S2X20</td>
</tr>
<tr>
<td>2” X 30”</td>
<td>BM4S2X30</td>
</tr>
<tr>
<td>2” X 36”</td>
<td>BM4S2X36</td>
</tr>
<tr>
<td>2” X 44”</td>
<td>BM4S3X18</td>
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<tr>
<td>2” X 54”</td>
<td>BM4S3X42</td>
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<tr>
<td>3” X 18”</td>
<td>BM4S3X18</td>
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<tr>
<td>3” X 30”</td>
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<td>4” X 28”</td>
<td>BM4S4X28</td>
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<tr>
<td>4” X 34”</td>
<td>BM4S4X34</td>
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<tr>
<td>4” X 40”</td>
<td>BM4S4X40</td>
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<tr>
<td>4” X 52”</td>
<td>BM4S4X52</td>
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</tbody>
</table>

**NOTE:** Mirror Strips are available only at CRL Will Call locations. Packs of Beveled Mirror Strips can be combined for quantity pricing.
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

<table>
<thead>
<tr>
<th>SIZE</th>
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<tbody>
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<td>4&quot;</td>
<td>BM2C4</td>
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<tr>
<td>3&quot;</td>
<td>BM2C3</td>
</tr>
<tr>
<td>2&quot;</td>
<td>BM2C2</td>
</tr>
</tbody>
</table>

Mitered Mirror Corners Beveled On 3 Sides
1 Per Pack

<table>
<thead>
<tr>
<th>SIZE</th>
<th>CAT.NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>BM2M4</td>
</tr>
<tr>
<td>3&quot;</td>
<td>BM2M3</td>
</tr>
<tr>
<td>2&quot;</td>
<td>BM2M2</td>
</tr>
</tbody>
</table>

Mirror T-Connectors Beveled On 3 Sides
1 Per Pack

<table>
<thead>
<tr>
<th>SIZE</th>
<th>CAT.NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>BM2T4</td>
</tr>
<tr>
<td>3&quot;</td>
<td>BM2T3</td>
</tr>
<tr>
<td>2&quot;</td>
<td>BM2T2</td>
</tr>
</tbody>
</table>

Mirror Emerald Corners Beveled On 4 Sides
1 Per Pack

<table>
<thead>
<tr>
<th>SIZE</th>
<th>CAT.NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4&quot;</td>
<td>BM2E4</td>
</tr>
<tr>
<td>3&quot;</td>
<td>BM2E3</td>
</tr>
<tr>
<td>2&quot;</td>
<td>BM2E2</td>
</tr>
</tbody>
</table>

Mirror Strips Beveled Only On 2 Long Sides
4 Per Pack

2" WIDE STRIPS

<table>
<thead>
<tr>
<th>CAT.NO.</th>
<th>WIDTH X LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM2S2X20</td>
<td>2&quot; X 20&quot;</td>
</tr>
<tr>
<td>BM2S2X32</td>
<td>2&quot; X 32&quot;</td>
</tr>
<tr>
<td>BM2S2X38</td>
<td>2&quot; X 38&quot;</td>
</tr>
<tr>
<td>BM2S2X44</td>
<td>2&quot; X 44&quot;</td>
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<tr>
<td>BM2S2X56</td>
<td>2&quot; X 56&quot;</td>
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</table>

3" WIDE STRIPS

<table>
<thead>
<tr>
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<th>WIDTH X LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM2S3X18</td>
<td>3&quot; X 18&quot;</td>
</tr>
<tr>
<td>BM2S3X30</td>
<td>3&quot; X 30&quot;</td>
</tr>
<tr>
<td>BM2S3X36</td>
<td>3&quot; X 36&quot;</td>
</tr>
<tr>
<td>BM2S3X42</td>
<td>3&quot; X 42&quot;</td>
</tr>
<tr>
<td>BM2S3X54</td>
<td>3&quot; X 54&quot;</td>
</tr>
</tbody>
</table>

4" WIDE STRIPS

<table>
<thead>
<tr>
<th>CAT.NO.</th>
<th>WIDTH X LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BM2S4X16</td>
<td>4&quot; X 16&quot;</td>
</tr>
<tr>
<td>BM2S4X28</td>
<td>4&quot; X 28&quot;</td>
</tr>
<tr>
<td>BM2S4X34</td>
<td>4&quot; X 34&quot;</td>
</tr>
<tr>
<td>BM2S4X40</td>
<td>4&quot; X 40&quot;</td>
</tr>
<tr>
<td>BM2S4X52</td>
<td>4&quot; X 52&quot;</td>
</tr>
</tbody>
</table>

NOTE: Mirror Strips are available only at CRL Will Call locations. Packs of Beveled Mirror Strips can be combined for quantity pricing.
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".

Single Gang Plates in 14 Styles

- Blister Carded for Retail Display
- All Sizes and Designs are Available in Clear, Bronze, Gray and Peach Colors

### Single Gang Plates

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>CAT. NO.</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMP1C</td>
<td>Clear</td>
<td>GMP106C</td>
<td>Clear</td>
</tr>
<tr>
<td>GMP1B</td>
<td>Bronze</td>
<td>GMP106B</td>
<td>Bronze</td>
</tr>
<tr>
<td>GMP1G</td>
<td>Gray</td>
<td>GMP106G</td>
<td>Gray</td>
</tr>
<tr>
<td>GMP1P</td>
<td>Peach</td>
<td>GMP106P</td>
<td>Peach</td>
</tr>
<tr>
<td>GMP2C</td>
<td>Clear</td>
<td>GMP107C</td>
<td>Clear</td>
</tr>
<tr>
<td>GMP2B</td>
<td>Bronze</td>
<td>GMP107B</td>
<td>Bronze</td>
</tr>
<tr>
<td>GMP2G</td>
<td>Gray</td>
<td>GMP107G</td>
<td>Gray</td>
</tr>
<tr>
<td>GMP2P</td>
<td>Peach</td>
<td>GMP107P</td>
<td>Peach</td>
</tr>
<tr>
<td>GMP3C</td>
<td>Clear</td>
<td>GMP108C</td>
<td>Clear</td>
</tr>
<tr>
<td>GMP3B</td>
<td>Bronze</td>
<td>GMP108B</td>
<td>Bronze</td>
</tr>
<tr>
<td>GMP3G</td>
<td>Gray</td>
<td>GMP108G</td>
<td>Gray</td>
</tr>
<tr>
<td>GMP3P</td>
<td>Peach</td>
<td>GMP111B</td>
<td>Bronze</td>
</tr>
<tr>
<td>GMP4C</td>
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<td>GMP111C</td>
<td>Clear</td>
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<tr>
<td>GMP4B</td>
<td>Bronze</td>
<td>GMP111G</td>
<td>Gray</td>
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<tr>
<td>GMP4P</td>
<td>Gray</td>
<td>GMP111P</td>
<td>Peach</td>
</tr>
<tr>
<td>GMP5C</td>
<td>Clear</td>
<td>GMP112C</td>
<td>Clear</td>
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<tr>
<td>GMP5B</td>
<td>Bronze</td>
<td>GMP112B</td>
<td>Bronze</td>
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<tr>
<td>GMP5G</td>
<td>Gray</td>
<td>GMP112G</td>
<td>Gray</td>
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<tr>
<td>GMP5P</td>
<td>Peach</td>
<td>GMP112P</td>
<td>Peach</td>
</tr>
<tr>
<td>GMP12C</td>
<td>Clear</td>
<td>GMP113C</td>
<td>Clear</td>
</tr>
<tr>
<td>GMP12B</td>
<td>Bronze</td>
<td>GMP113B</td>
<td>Bronze</td>
</tr>
<tr>
<td>GMP12G</td>
<td>Gray</td>
<td>GMP113G</td>
<td>Gray</td>
</tr>
<tr>
<td>GMP12P</td>
<td>Peach</td>
<td>GMP113P</td>
<td>Peach</td>
</tr>
<tr>
<td>GMP104C</td>
<td>Clear</td>
<td>GMP115C</td>
<td>Clear</td>
</tr>
<tr>
<td>GMP104B</td>
<td>Bronze</td>
<td>GMP115B</td>
<td>Bronze</td>
</tr>
<tr>
<td>GMP104G</td>
<td>Gray</td>
<td>GMP115G</td>
<td>Gray</td>
</tr>
<tr>
<td>GMP104P</td>
<td>Peach</td>
<td>GMP115P</td>
<td>Peach</td>
</tr>
</tbody>
</table>

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

### Triple Gang Plates

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>CAT. NO.</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMP9C</td>
<td>Clear</td>
<td>GMP16G</td>
<td>Gray</td>
</tr>
<tr>
<td>GMP9B</td>
<td>Bronze</td>
<td>GMP16P</td>
<td>Peach</td>
</tr>
<tr>
<td>GMP9G</td>
<td>Gray</td>
<td>GMP303C</td>
<td>Clear</td>
</tr>
<tr>
<td>GMP9P</td>
<td>Peach</td>
<td>GMP303B</td>
<td>Bronze</td>
</tr>
<tr>
<td>GMP10C</td>
<td>Clear</td>
<td>GMP303G</td>
<td>Gray</td>
</tr>
<tr>
<td>GMP10B</td>
<td>Bronze</td>
<td>GMP303P</td>
<td>Peach</td>
</tr>
<tr>
<td>GMP10G</td>
<td>Gray</td>
<td>GMP305C</td>
<td>Clear</td>
</tr>
<tr>
<td>GMP10P</td>
<td>Peach</td>
<td>GMP305B</td>
<td>Bronze</td>
</tr>
<tr>
<td>GMP15C</td>
<td>Clear</td>
<td>GMP305G</td>
<td>Gray</td>
</tr>
<tr>
<td>GMP15B</td>
<td>Bronze</td>
<td>GMP310C</td>
<td>Clear</td>
</tr>
<tr>
<td>GMP15G</td>
<td>Gray</td>
<td>GMP310B</td>
<td>Bronze</td>
</tr>
<tr>
<td>GMP15P</td>
<td>Peach</td>
<td>GMP310G</td>
<td>Gray</td>
</tr>
<tr>
<td>GMP16C</td>
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<td>Peach</td>
</tr>
<tr>
<td>GMP16B</td>
<td>Bronze</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GMP10  2 x Toggle
GMP15  2 x Toggle
GMP16  3 x Decora
GMP303 3 x Duplex
GMP305 2 x Decora
GMP310 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”.

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”.

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”.

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.

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
MIRROR HARDWARE

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>PACK QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2C</td>
<td>Single Duplex Plug</td>
<td>100</td>
</tr>
<tr>
<td>B3C</td>
<td>Single Toggle Switch</td>
<td>100</td>
</tr>
<tr>
<td>B4C</td>
<td>Single 3/8” Cable TV Hole</td>
<td>100</td>
</tr>
<tr>
<td>B6C</td>
<td>Double Duplex Plug</td>
<td>60</td>
</tr>
<tr>
<td>B7C</td>
<td>Duplex Plug/Toggle Switch</td>
<td>60</td>
</tr>
<tr>
<td>B8C</td>
<td>Double Toggle Switch</td>
<td>60</td>
</tr>
</tbody>
</table>

CRL Glass Mirror Plate Blanks

- Clear, Bronze, Gray and Peach Colors in All Six Sizes
- 5/16” Beveled Edges

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>CAT. NO.</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMP1GC</td>
<td>Clear</td>
<td>BMP2GC</td>
<td>Clear</td>
<td>BMP5GC</td>
<td>Clear</td>
</tr>
<tr>
<td>BMP1GB</td>
<td>Bronze</td>
<td>BMP2GB</td>
<td>Bronze</td>
<td>BMP5GB</td>
<td>Bronze</td>
</tr>
<tr>
<td>BMP1GG</td>
<td>Gray</td>
<td>BMP2GG</td>
<td>Gray</td>
<td>BMP6GC</td>
<td>Clear</td>
</tr>
<tr>
<td>BMP1GP</td>
<td>Peach</td>
<td>BMP2GP</td>
<td>Peach</td>
<td>BMP6GB</td>
<td>Bronze</td>
</tr>
<tr>
<td>BMP2GC</td>
<td>Clear</td>
<td>BMP4GC</td>
<td>Clear</td>
<td>BMP6GG</td>
<td>Gray</td>
</tr>
<tr>
<td>BMP2GB</td>
<td>Bronze</td>
<td>BMP4GB</td>
<td>Bronze</td>
<td>BMP6GP</td>
<td>Peach</td>
</tr>
<tr>
<td>BMP2GG</td>
<td>Gray</td>
<td>BMP4GG</td>
<td>Gray</td>
<td>BMP1C</td>
<td>Peach</td>
</tr>
<tr>
<td>BMP2GP</td>
<td>Peach</td>
<td>BMP4GP</td>
<td>Peach</td>
<td>BMP1D</td>
<td>Peach</td>
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<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>PACK QTY.</th>
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<tbody>
<tr>
<td>B9C</td>
<td>Triple Toggle Switch</td>
<td>50</td>
</tr>
<tr>
<td>B12C</td>
<td>Single Decora Outlet</td>
<td>100</td>
</tr>
<tr>
<td>B13C</td>
<td>Double Decora Outlet</td>
<td>60</td>
</tr>
<tr>
<td>B14C</td>
<td>Decora Outlet/Toggle Switch</td>
<td>60</td>
</tr>
<tr>
<td>B16C</td>
<td>Triple Decora Outlet</td>
<td>50</td>
</tr>
<tr>
<td>B18C</td>
<td>Decora Outlet/Duplex Plug</td>
<td>60</td>
</tr>
</tbody>
</table>

CRL Quick-Draw Templates

The easy way to make mirror wall switch and outlet cut outs.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMP1</td>
<td>3-1/2” x 5-1/4”</td>
<td></td>
</tr>
<tr>
<td>BMP2</td>
<td>5-1/4” x 5-1/4”</td>
<td></td>
</tr>
<tr>
<td>BMP3</td>
<td>7-1/4” x 5-1/4”</td>
<td></td>
</tr>
<tr>
<td>BMP4</td>
<td>9” x 5-1/4”</td>
<td></td>
</tr>
<tr>
<td>BMP5</td>
<td>10-3/4” x 5-1/4”</td>
<td></td>
</tr>
<tr>
<td>BMP6</td>
<td>12-5/8” x 5-1/4”</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>EACH DISPLAY KIT CONTAINS:</th>
<th>EACH DISPLAY KIT CONTAINS:</th>
<th>EACH DISPLAY KIT CONTAINS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 EA. GMP2C</td>
<td>6 EA. GMP3C</td>
<td>3 EA. GMP4C</td>
</tr>
<tr>
<td>3 EA. GMP5C</td>
<td>3 EA. GMP6C</td>
<td>3 EA. GMP7C</td>
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<tr>
<td>3 EA. GMP8C</td>
<td>2 EA. GMP9C</td>
<td>6 EA. GMP12C</td>
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<td>3 EA. GMP13C</td>
<td>3 EA. GMP14C</td>
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<tr>
<td>3 EA. GMP18C</td>
<td>3 EA. GMP18C</td>
<td>3 EA. GMP18C</td>
</tr>
</tbody>
</table>

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
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.

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.

CRL Clear 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.

CRL Solid Glass Door Knob

- Transparent and Elegant
- Easy to Install; No Holes to Drill

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 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.

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.
### CRL 1/4" Standard "J" Channel
- **11 Finishes**
- **12' Stock Lengths**
- **50 Per Case**

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D636A</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>D636B</td>
<td>Brushed Nickel</td>
</tr>
<tr>
<td>D636BA</td>
<td>Buffed Bright Anodized</td>
</tr>
<tr>
<td>D636DBA</td>
<td>Dipped Bright Anodized</td>
</tr>
<tr>
<td>D636GA</td>
<td>Satin Gold Anodized</td>
</tr>
<tr>
<td>D636BGA</td>
<td>Dipped Bright Gold Anodized</td>
</tr>
<tr>
<td>D636BL</td>
<td>Black Electro-Static Paint</td>
</tr>
<tr>
<td>D636BRZ</td>
<td>Bronze Electro-Static Paint</td>
</tr>
<tr>
<td>D636W</td>
<td>White Electro-Static Paint</td>
</tr>
</tbody>
</table>

### CRL 1/4" Deep Nose "J" Channel
- **11 Finishes**
- **12' Stock Lengths**
- **40 Per Case**

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D645A</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>D645P</td>
<td>Polished</td>
</tr>
<tr>
<td>D645BA</td>
<td>Buffed Bright Anodized</td>
</tr>
<tr>
<td>D645DBA</td>
<td>Dipped Bright Anodized</td>
</tr>
<tr>
<td>D645GA</td>
<td>Satin Gold Anodized</td>
</tr>
<tr>
<td>D645BGA</td>
<td>Dipped Bright Gold Anodized</td>
</tr>
<tr>
<td>D645BL</td>
<td>Black Electro-Static Paint</td>
</tr>
<tr>
<td>D645BRZ</td>
<td>Bronze Electro-Static Paint</td>
</tr>
<tr>
<td>D645W</td>
<td>White Electro-Static Paint</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D516A</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>D516BA</td>
<td>Buffed Bright Anodized</td>
</tr>
<tr>
<td>D516BGA</td>
<td>Dipped Bright Anodized</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D568A</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>D568BA</td>
<td>Buffed Bright Anodized</td>
</tr>
<tr>
<td>D568BGA</td>
<td>Dipped Bright Anodized</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D738A</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>D738BA</td>
<td>Buffed Bright Anodized</td>
</tr>
<tr>
<td>D738BGA</td>
<td>Dipped Bright Gold Anodized</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D638A</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>D638BA</td>
<td>Buffed Bright Anodized</td>
</tr>
<tr>
<td>D638BGA</td>
<td>Dipped Bright Gold Anodized</td>
</tr>
</tbody>
</table>
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.

**LOW PROFILE "J" CHANNEL**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D514A</td>
<td>Satin Anodized</td>
</tr>
<tr>
<td>D514BA</td>
<td>Buffed Bright Anodized</td>
</tr>
<tr>
<td>D514BGA</td>
<td>Buffed Bright Gold Anodized</td>
</tr>
</tbody>
</table>

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.

**STANDARD WOOD GRAIN "J" CHANNEL**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D736WG</td>
<td>Oak Wood Grain</td>
</tr>
</tbody>
</table>

CRL 1/8" "J" Channel

- Satin Anodized
- 12' Stock Lengths
- 50 Per Case

1/8" "J" Channel is used for double strength mirror or thin laminates. Each stock length is individually polywrapped.

**1/8" "J" CHANNEL**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D18A</td>
<td>Satin Anodized</td>
</tr>
</tbody>
</table>

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.

**DEEP NOSE "J" CHANNEL**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D932BA</td>
<td>Buffed Bright Anodized</td>
</tr>
<tr>
<td>D932BGA</td>
<td>Buffed Bright Gold Anodized</td>
</tr>
</tbody>
</table>

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.

**DEEP NOSE WOOD GRAIN "J" CHANNEL**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D745WG</td>
<td>Oak Wood Grain</td>
</tr>
</tbody>
</table>

CRL 3/16" "J" Channel

- Satin Anodized
- 12' Stock Lengths
- 50 Per Case

3/16" "J" Channel is used for 3/16" thick mirrors and other materials. Each stock length is individually polywrapped.

**3/16" "J" CHANNEL**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>D316A</td>
<td>Satin Anodized</td>
</tr>
</tbody>
</table>

CRL 1/2" "J" Channel

- Satin Anodized
- 12' Stock Lengths
- 30 Per Case

1/2" "J" Channel is available for 7/16" and 1/2" thick materials. Each stock length is individually polywrapped.

**1/2" "J" CHANNEL**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>D12A</td>
<td>Satin Anodized</td>
</tr>
</tbody>
</table>

All extrusions can be combined for quantity pricing. 12' stock lengths must ship common carrier, unless you specify we cut them for UPS.
MIRROR HARDWARE

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.

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.

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.

CRL 1/4" "L" Bar Extrusion

- 6 Finishes
- 12' Stock Lengths
- 50 Per Case

"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.

CRL 5/8" Flat Face Mirror Edge Molding

- 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.

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.

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com
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.

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.

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.

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.

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.

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.
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.

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 can.

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.

CRL Palmer Electric Mastic Applicator

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.
CRL Gunther Premier™ Mirror Mastic

- 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.

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN100A</td>
<td>Ultra/Bond Gray</td>
<td>10.3 Fl. Oz.</td>
</tr>
<tr>
<td>GN200A</td>
<td>Extra/Build Black</td>
<td>10.3 Fl. Oz.</td>
</tr>
</tbody>
</table>

### CRL Palmer Mastic Stik™

- Applicator and Remover for Palmer Mirro-Mastic
- Lightweight, Yet Extremely Durable

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MS97</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN100A</td>
<td>Ultra/Bond Cream</td>
<td>10.6 Fl. Oz.</td>
</tr>
<tr>
<td>GN200A</td>
<td>Extra/Build Black</td>
<td>10.6 Fl. Oz.</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
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</thead>
<tbody>
<tr>
<td>GN4</td>
<td>4 Fl. Oz.</td>
<td>6</td>
</tr>
</tbody>
</table>

For additional information, contact CRL Technical Sales at (800) 421-6144, Ext. 777. TOLL FREE FAX (800) 262-3299  www.crlaurence.com TOLL FREE PHONE (800) 421-6144
CRL Standard Channel Framed Mirrors

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>NOMINAL SIZE</th>
<th>OVERALL SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001824</td>
<td>18&quot;W x 24&quot;H</td>
<td>18-1/4&quot;W x 24-1/4&quot;H</td>
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<tr>
<td>1001830</td>
<td>18&quot;W x 30&quot;H</td>
<td>18-1/4&quot;W x 30-1/4&quot;H</td>
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<tr>
<td>1001836</td>
<td>18&quot;W x 36&quot;H</td>
<td>18-1/4&quot;W x 36-1/4&quot;H</td>
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<tr>
<td>1002436</td>
<td>24&quot;W x 36&quot;H</td>
<td>24-1/4&quot;W x 36-1/4&quot;H</td>
</tr>
</tbody>
</table>

CRL Adjustable "Tilt" Mirror

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>NOMINAL SIZE</th>
<th>OVERALL SIZE</th>
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</thead>
<tbody>
<tr>
<td>190T1824</td>
<td>18&quot;W x 24&quot;H</td>
<td>18-1/4&quot;W x 24-1/4&quot;H</td>
</tr>
</tbody>
</table>

CRL Deluxe Angle Framed Mirrors

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>NOMINAL SIZE</th>
<th>OVERALL SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>9001824</td>
<td>18&quot;W x 24&quot;H</td>
<td>18-7/8&quot;W x 24-7/8&quot;H</td>
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<tr>
<td>9001830</td>
<td>18&quot;W x 30&quot;H</td>
<td>18-7/8&quot;W x 30-7/8&quot;H</td>
</tr>
<tr>
<td>9001836</td>
<td>18&quot;W x 36&quot;H</td>
<td>18-7/8&quot;W x 36-7/8&quot;H</td>
</tr>
<tr>
<td>9002436</td>
<td>24&quot;W x 36&quot;H</td>
<td>24-7/8&quot;W x 36-7/8&quot;H</td>
</tr>
</tbody>
</table>

CRL Fixed "Tilt" Mirror

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>NOMINAL SIZE</th>
<th>OVERALL SIZE</th>
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</thead>
<tbody>
<tr>
<td>9901824</td>
<td>18&quot;W x 24&quot;H</td>
<td>18-1/4&quot;W x 24-1/4&quot;H</td>
</tr>
</tbody>
</table>

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"

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 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.

CRL 5x and 7x Power Suction Cup Mirrors

• Adheres to Any Smooth Non-Porous Surface

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.

CRL 5x and 7x Power Swivel Mirrors

• Choose from the Two Most Popular Sizes

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.

CRL 5x and 7x Power Adjustable Stand Vanity Mirrors

• Easy to Use Twist Lock Adjustment
• Height Adjusts Up to 22”

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.

CRL 5x and 7x Power Wall Mount Dual Arm Mirrors

• Elegant Styling and Crystal Clear Optics
• Dual Arms Extend to 34”

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.
CRL Surround Light™ Magnifying Mirrors

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>DIAMETER</th>
<th>MAGNIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZSS35</td>
<td>Clear Frame w/Chrome Accents</td>
<td>9&quot;</td>
<td>5X</td>
</tr>
<tr>
<td>ZSS55</td>
<td>Clear Frame w/Brass Accents</td>
<td>9&quot;</td>
<td>5X</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CHROME BRASS</th>
<th>SATIN NICKEL</th>
<th>SATIN BRASS</th>
<th>DIAMETER</th>
<th>MAGNIFICATION</th>
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</thead>
<tbody>
<tr>
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<td>CAT. NO.</td>
<td>CAT. NO.</td>
<td>DIA.</td>
<td>M.</td>
</tr>
<tr>
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<td>ZSW45</td>
<td>ZSW55</td>
<td>9&quot;</td>
<td>5X</td>
</tr>
<tr>
<td>ZSW37</td>
<td>ZSW47</td>
<td>ZSW57</td>
<td>9&quot;</td>
<td>7X</td>
</tr>
</tbody>
</table>

CRL 9" Surround Light™ Adjustable Pedestal Vanity Mirrors

- Surround Light™ Mirror Uses Less Energy, Gives Off Less Heat and More Light

Inspired by the brilliance 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.

<table>
<thead>
<tr>
<th>CHROME NICKEL</th>
<th>BRASS</th>
<th>SATIN NICKEL</th>
<th>SATIN BRASS</th>
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</thead>
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<tr>
<td>CAT. NO.</td>
<td>CAT. NO.</td>
<td>CAT. NO.</td>
<td>CAT. NO.</td>
</tr>
<tr>
<td>ZSA35</td>
<td>ZSA45</td>
<td>ZSA55</td>
<td>ZSA65</td>
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<tr>
<td>ZSA37</td>
<td>ZSA47</td>
<td>ZSA57</td>
<td>ZSA67</td>
</tr>
</tbody>
</table>

CRL Fogless Magnifying Mirrors

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

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
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.

CRL Multi-Mag™ 9" Wall Mount Dual Arm Mirror

- 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 craftsmanship 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.

CRL Multi-Mag™ 9" Adjustable Pedestal Vanity Mirror with Surround Light™

- Multi-Mag™ Mirrors in Four Beautiful Finishes

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.

CRL Multi-Mag™ 9" Wall Mount Dual Arm Mirror with Surround Light™

- 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.
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.

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.

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 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.

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.
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.

"Insist on the best... you've earned it!"
Now you can enjoy the clarity of a mirror that automatically defogs for you. When time is at a premium, no longer are you inconvenienced by the constant wiping of a steamed 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DIAMETER</th>
<th>SHIP U.P.S.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPLX13</td>
<td>13” Circular</td>
<td>Yes</td>
</tr>
<tr>
<td>TPLX18</td>
<td>18” Circular</td>
<td>Yes</td>
</tr>
<tr>
<td>TPLX26</td>
<td>26” Circular</td>
<td>Yes</td>
</tr>
<tr>
<td>TPLX30</td>
<td>30” Circular</td>
<td>Yes</td>
</tr>
<tr>
<td>TPLX36</td>
<td>36” Circular</td>
<td>No</td>
</tr>
<tr>
<td>TPLX1626</td>
<td>16” H x 26” W</td>
<td>Yes</td>
</tr>
<tr>
<td>TPLX2030</td>
<td>20” H x 30” W</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DIAMETER</th>
<th>SHIP U.P.S.</th>
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</thead>
<tbody>
<tr>
<td>PED018</td>
<td>18”</td>
<td>Yes</td>
</tr>
<tr>
<td>PED026</td>
<td>26”</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>CAT NO.</th>
<th>INNER FRAME SIZE</th>
<th>OVER-ALL OPENING SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3/4&quot; DOORS</td>
<td>1-3/8&quot; DOORS</td>
<td>WIDTH x HEIGHT</td>
<td>INCL. 1/8&quot; CLEARANCE</td>
</tr>
<tr>
<td>BAP204</td>
<td>BAP208</td>
<td>2-0 (24&quot;)</td>
<td>14-5/8&quot; x 30&quot;</td>
</tr>
<tr>
<td>BAP244</td>
<td>BAP248</td>
<td>2-4 (28&quot;)</td>
<td>18-5/8&quot; x 30&quot;</td>
</tr>
<tr>
<td>BAP264</td>
<td>BAP268</td>
<td>2-6 (30&quot;)</td>
<td>20-5/8&quot; x 30&quot;</td>
</tr>
<tr>
<td>BAP284</td>
<td>BAP288</td>
<td>2-8 (32&quot;)</td>
<td>22-5/8&quot; x 30&quot;</td>
</tr>
<tr>
<td>BAP304</td>
<td>BAP308</td>
<td>3-0 (36&quot;)</td>
<td>24-5/8&quot; x 30&quot;</td>
</tr>
</tbody>
</table>

All Bel-Air Plaza units can be combined in lots of five for quantity pricing. F.O.B. CRL Warehouses.

Plaza Combination Door Units are packed one per carton. All sizes can ship economically via U.P.S. or other small parcel carriers.

STANDARD BEL-AIR “PLAZA” UNITS WITH CLEAR TEMPERED GLASS AND MILL FRAME FOR SLAB DOORS

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.

“PLAZA” REPLACEMENT UNITS WITH CLEAR TEMPERED GLASS AND MILL FRAME FOR COMPETITIVE OLD FASHIONED COMBINATION DOOR

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 STANDARD BEL-AIR "PLAZA" UNITS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FITS &quot;PLAZA&quot; UNITS</th>
<th>HALF-SASH SIZE (WXH)</th>
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<tbody>
<tr>
<td>BAHS1315</td>
<td>BAP204/208</td>
<td>13-1/4&quot; x 15-1/8&quot;</td>
</tr>
<tr>
<td>BAHS1715</td>
<td>BAP244/248</td>
<td>17-1/4&quot; x 15-1/8&quot;</td>
</tr>
<tr>
<td>BAHS1915</td>
<td>BAP264/268</td>
<td>19-1/4&quot; x 15-1/8&quot;</td>
</tr>
<tr>
<td>BAHS2115</td>
<td>BAP284/288</td>
<td>21-1/4&quot; x 15-1/8&quot;</td>
</tr>
<tr>
<td>BAHS2315</td>
<td>BAP304/308</td>
<td>23-1/4&quot; x 15-1/8&quot;</td>
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</tbody>
</table>

### HALF-SASH UNITS FOR BEL-AIR PANEL AND "COUNTRY" COMBINATION DOORS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DOOR SIZE</th>
<th>HALF-SASH SIZE (WXH)</th>
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<tbody>
<tr>
<td>BAHS1920</td>
<td>2-0 (24&quot;)</td>
<td>19-1/4&quot; x 20-5/8&quot;</td>
</tr>
<tr>
<td>BAHS2020</td>
<td>2-4 (28&quot;)</td>
<td>20-1/4&quot; x 20-5/8&quot;</td>
</tr>
<tr>
<td>BAHS2120</td>
<td>2-6 (30&quot;)</td>
<td>21-1/4&quot; x 20-5/8&quot;</td>
</tr>
<tr>
<td>BAHS2320</td>
<td>2-8 (32&quot;)</td>
<td>23-1/4&quot; x 20-5/8&quot;</td>
</tr>
<tr>
<td>BAHS2720</td>
<td>3-0 (36&quot;)</td>
<td>27-1/4&quot; x 20-5/8&quot;</td>
</tr>
</tbody>
</table>

### 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

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.
How to Order Window Channel Balances:

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.
### CRL Window Channel Balance Repair Kits

- **Conveniently Packaged Kits for Single Repair**
- **10 Guide Combinations to Choose From**

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**

### Kit Descriptions

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<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP GUIDE</td>
<td>9/16&quot;</td>
<td>9/16&quot;</td>
<td>9/16&quot;</td>
<td>9/16&quot;</td>
<td>9/16&quot;</td>
<td>9/16&quot;</td>
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<td>9/16&quot;</td>
<td>9/16&quot;</td>
<td>9/16&quot;</td>
</tr>
<tr>
<td>BOTTOM GUIDE</td>
<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
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<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
<td>1 1/4&quot;</td>
</tr>
<tr>
<td>TAKE-OUT CLIP</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
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<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
</tr>
<tr>
<td>RIVETS</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
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<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
<td>1 1/2&quot;</td>
</tr>
</tbody>
</table>
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

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 Terminal Clips
CRL Terminal Clips are made of stainless steel and should be used when replacing Window Channel Balances.

- Tip

CRL Take-Out Clips
Metal Take-Out Clips are used for vent removal when replacing Window Channel Balances.

CRL Sash Cams
Located at the top of the sash, CRL Sash Cams keep the sash lined up in the vent track.

CRL Guide Rivet
These are the same rivets packaged with the Balance Repair Kits. Conveniently packaged for bulk use.

CRL Rivet Installation Tool
Use this tool for replacement of rivets on the top and bottom guides of Window Channel Balances.

All Window Channel Balances can be combined for quantity pricing.
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 Premier, 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.

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.

<table>
<thead>
<tr>
<th>CATALOG</th>
<th>CHANNEL LENGTH</th>
<th>NO. STamped IN BALANCE</th>
<th>VENT WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FC111</td>
<td>12-3/4”</td>
<td>111</td>
<td>4-7 Lbs.</td>
</tr>
<tr>
<td>FC112</td>
<td>12-3/4”</td>
<td>112</td>
<td>7-11 Lbs.</td>
</tr>
<tr>
<td>FC121</td>
<td>15-1/4”</td>
<td>121</td>
<td>4-8 Lbs.</td>
</tr>
<tr>
<td>FC122</td>
<td>15-1/4”</td>
<td>122</td>
<td>8-12 Lbs.</td>
</tr>
<tr>
<td>FC151</td>
<td>19-1/4”</td>
<td>151</td>
<td>5-9 Lbs.</td>
</tr>
<tr>
<td>FC152</td>
<td>19-1/4”</td>
<td>152</td>
<td>9-13 Lbs.</td>
</tr>
<tr>
<td>FC153</td>
<td>19-1/4”</td>
<td>153</td>
<td>13-16 Lbs.</td>
</tr>
<tr>
<td>FC162</td>
<td>23-1/4”</td>
<td>162</td>
<td>9-14 Lbs.</td>
</tr>
<tr>
<td>FC163</td>
<td>23-1/4”</td>
<td>163</td>
<td>14-20 Lbs.</td>
</tr>
<tr>
<td>FC183</td>
<td>27-1/4”</td>
<td>183</td>
<td>17-22 Lbs.</td>
</tr>
</tbody>
</table>

Overhead Balance Lift Hook

Replacement Lift Hook for use with Overhead Channel Balances; black nylon.

<table>
<thead>
<tr>
<th>CATALOG</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3904</td>
<td>2</td>
</tr>
</tbody>
</table>
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 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**

<table>
<thead>
<tr>
<th>Pivot Bar</th>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3758 (2/Pack)</td>
<td>H3758B (25/Bag)</td>
<td>Pivot Bar for 9/16” Tilt Window Spiral Balances</td>
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</tbody>
</table>

**Lock Shoe for 9/16” Tilt Window Spiral Balances**

<table>
<thead>
<tr>
<th>Lock Shoe</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
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<td>H3785B (25/Bag)</td>
<td>Lock Shoe for 9/16” Tilt Window Spiral Balances</td>
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</tbody>
</table>

**Pivot Bar for 3/8” Tilt Window Spiral Balances**

<table>
<thead>
<tr>
<th>Pivot Bar</th>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3897 (2/Pack)</td>
<td>H3897B (25/Bag)</td>
<td>Pivot Bar for 3/8” Tilt Window Spiral Balances</td>
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</table>

**Lock Shoe for 3/8” Tilt Window Spiral Balances**

<table>
<thead>
<tr>
<th>Lock Shoe</th>
<th>Cat. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3786 (2/Pack)</td>
<td>H3786B (25/Bag)</td>
<td>Lock Shoe for 3/8” Tilt Window Spiral Balances</td>
</tr>
</tbody>
</table>
CRL Tubular Spiral Window Balances
Non-Tilt Window Type

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.

<table>
<thead>
<tr>
<th>BALANCE TUBE LENGTHS</th>
<th>STD. DUTY RED BUSHING CAT. NO.</th>
<th>HEAVY DUTY BLUE BUSHING CAT. NO.</th>
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<tbody>
<tr>
<td>17&quot;</td>
<td>FJ1720</td>
<td>FJ1730</td>
</tr>
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<td>18&quot;</td>
<td>FJ1820</td>
<td>FJ1830</td>
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<td>19&quot;</td>
<td>FJ1920</td>
<td>FJ1930</td>
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<td>20&quot;</td>
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<td>21&quot;</td>
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<td>FJ2130</td>
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<td>22&quot;</td>
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<td>28&quot;</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>29&quot;</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>30&quot;</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

All sash balances are sold individually (not by the pair), and can be combined for quantity pricing.

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

Factory Installed End Clips for Series “FR” Balances

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.

All Window Balances can be combined for quantity pricing.
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

TIL T 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

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 Fibererglass 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.

CRLs 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.

CRL Paw-Proof Pet Screen

- Ultra-Strong Coated Polyester Screening
- Charcoal Color

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 linear 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSFL1PGY</td>
<td>Gray</td>
</tr>
<tr>
<td>WSFL1PBRZ</td>
<td>Bronze</td>
</tr>
<tr>
<td>WSFL1PW</td>
<td>White</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
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</thead>
<tbody>
<tr>
<td>WSFS12PGY</td>
<td>Gray</td>
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<tr>
<td>WSFS12PBRZ</td>
<td>Bronze</td>
</tr>
<tr>
<td>WSFS12PW</td>
<td>White</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<tbody>
<tr>
<td>WSFS34PGY</td>
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<td>Bronze</td>
</tr>
<tr>
<td>WSFS34PW</td>
<td>White</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<tbody>
<tr>
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<td>Mill</td>
</tr>
<tr>
<td>WSF1257PBRZ</td>
<td>Bronze</td>
</tr>
</tbody>
</table>

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).

Flat Springs
Flat Springs slide into square or mitered corner joint of all CRL Screen Frame.

- 70 Lengths per Case
- 12'2" Stock Lengths

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE CAT. NO.</th>
<th>CAT. NO.</th>
<th>SIZE CAT. NO.</th>
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<td>L5583</td>
<td>L5608</td>
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<td>L5606</td>
<td>L5607</td>
<td>L5616</td>
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</table>

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.

CRL Has a Complete Selection of Quality Screen Frame

- 70 Lengths per Case
- 12'2" Stock Lengths

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.
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.

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.
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.

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).
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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>P7924</td>
<td>Screen Jig Table Set</td>
</tr>
<tr>
<td>P7932</td>
<td>Set of Four 3/4” Clips</td>
</tr>
<tr>
<td>P7933</td>
<td>Set of Four 1” Clips</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>WST920</td>
<td>Plunger Bolt Jig</td>
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<tr>
<td>WST905</td>
<td>Plunger Bolt Step Drill</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>SLIDING SCREEN DOOR GRILLS</th>
<th>FINISH</th>
<th>SIZE</th>
<th>WIDTH RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG26</td>
<td>Gray</td>
<td>30&quot;</td>
<td>29” to 31”</td>
</tr>
<tr>
<td>PG26BRZ</td>
<td>Bronze</td>
<td>30&quot;</td>
<td>29” to 31”</td>
</tr>
<tr>
<td>PG26W</td>
<td>White</td>
<td>30&quot;</td>
<td>29” to 31”</td>
</tr>
<tr>
<td>PG30</td>
<td>Gray</td>
<td>36&quot;</td>
<td>35” to 37”</td>
</tr>
<tr>
<td>PG30BRZ</td>
<td>Bronze</td>
<td>36&quot;</td>
<td>35” to 37”</td>
</tr>
<tr>
<td>PG30W</td>
<td>White</td>
<td>36&quot;</td>
<td>35” to 37”</td>
</tr>
<tr>
<td>PG40</td>
<td>Gray</td>
<td>48&quot;</td>
<td>47” to 49”</td>
</tr>
<tr>
<td>PG40BRZ</td>
<td>Bronze</td>
<td>48&quot;</td>
<td>47” to 49”</td>
</tr>
<tr>
<td>PG40W</td>
<td>White</td>
<td>48&quot;</td>
<td>47” to 49”</td>
</tr>
</tbody>
</table>

Sizes and finishes can be combined for quantity pricing. Minimum 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.

<table>
<thead>
<tr>
<th>ADJUSTABLE WINDOW SCREENS</th>
<th>HEIGHT</th>
<th>WIDTH RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWS08M</td>
<td>8”</td>
<td>20” to 37”</td>
</tr>
<tr>
<td>AWS13M</td>
<td>13”</td>
<td>20” to 37”</td>
</tr>
<tr>
<td>AWS18M</td>
<td>18”</td>
<td>20” to 37”</td>
</tr>
<tr>
<td>AWS20M</td>
<td>20”</td>
<td>25” to 48”</td>
</tr>
</tbody>
</table>

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

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.

<table>
<thead>
<tr>
<th>SCREEN TIGHT COMPONENTS</th>
<th>CATNO</th>
<th>COLOR</th>
<th>LENGTH</th>
<th>PCS/CTN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-1/2” Wide Cap</td>
<td>CAP18BE8</td>
<td>Beige</td>
<td>96”</td>
<td>20</td>
</tr>
<tr>
<td>1-1/2” Wide Base</td>
<td>BAS188</td>
<td>Black</td>
<td>96”</td>
<td>20</td>
</tr>
<tr>
<td>3-1/2” Wide Cap</td>
<td>CAP38BE8</td>
<td>Beige</td>
<td>96”</td>
<td>20</td>
</tr>
<tr>
<td>3-1/2” Wide Base</td>
<td>BAS388</td>
<td>Black</td>
<td>96”</td>
<td>20</td>
</tr>
</tbody>
</table>

Minimum order is 5 lengths of one size and color. Colors can be combined for quantity pricing.
**REPLACEMENT HARDWARE**

**CRL Replacement Hardware**

*Pages of New Products Plus an Expanded Selection of Our Most Popular Items*

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<table>
<thead>
<tr>
<th>Sliding Screen Door Latch and Pull</th>
<th>Sliding Screen Door Latch and Pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-handed; mortise installation; used by Columbia Mfg.</td>
<td>Non-handed; mortise installation; used on hat section doors by several manufacturers.</td>
</tr>
<tr>
<td><strong>CAT. NO.</strong></td>
<td><strong>COLOR</strong></td>
</tr>
<tr>
<td>A177</td>
<td>Black</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sliding Screen Door Latch and Pull</th>
<th>Sliding Screen Door Latch and Pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-handed; mortise installation; used on hat section Columbia Mfg. screen doors.</td>
<td>Non-handed; mortise installation; used on standard 1/2&quot; thick screen doors.</td>
</tr>
<tr>
<td><strong>CAT. NO.</strong></td>
<td><strong>COLOR</strong></td>
</tr>
<tr>
<td>A178</td>
<td>Black</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sliding Screen Door Latch and Pull</th>
<th>Sliding Screen Door Latch and Pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-handed; mortise installation; used with 1/2&quot; thick Columbia Mfg. screen doors.</td>
<td>Non-handed; mortise installation; inside latch has security locking feature; designed for Peachtree doors.</td>
</tr>
<tr>
<td><strong>CAT. NO.</strong></td>
<td><strong>COLOR</strong></td>
</tr>
<tr>
<td>A190</td>
<td>Black</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sliding Screen Door Latch and Pull</th>
<th>Sliding Screen Door Latch and Pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel housing with center groove ball bearing roller.</td>
<td>Steel housing with center groove ball bearing roller.</td>
</tr>
<tr>
<td><strong>CAT. NO.</strong></td>
<td><strong>ROLLER</strong></td>
</tr>
<tr>
<td>B605</td>
<td>Nylon B.B. 1&quot;</td>
</tr>
</tbody>
</table>

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**Sliding Screen Door Corner Insert with Roller**

*Stamped stainless steel corner with built-in roller assembly; with adjusting screw; used on J im Walters Doors.*

<table>
<thead>
<tr>
<th>Sliding Screen Door Corner Insert with Roller</th>
<th>Sliding Screen Door Corner Insert with Roller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stamped stainless steel corner with built-in roller assembly; with adjusting screw; used on J im Walters Doors.</td>
<td>Stamped stainless steel corner with built-in roller assembly; with adjusting screw; used on J im Walters Doors.</td>
</tr>
<tr>
<td><strong>CAT. NO.</strong></td>
<td><strong>ROLLER</strong></td>
</tr>
<tr>
<td>B604</td>
<td>Nylon</td>
</tr>
<tr>
<td>B604B</td>
<td>Nylon</td>
</tr>
<tr>
<td>B725</td>
<td>Steel</td>
</tr>
</tbody>
</table>

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All packages of Replacement Hardware can be combined for quantity pricing.

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TOLL FREE FAX (800) 262-3299  www.crlaurence.com  TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B634</td>
<td>Nylon</td>
<td>2</td>
</tr>
<tr>
<td>B690</td>
<td>Steel B.B</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B635</td>
<td>Nylon</td>
<td>2</td>
</tr>
<tr>
<td>B666</td>
<td>Steel B.B</td>
<td>2</td>
</tr>
</tbody>
</table>

Sliding Screen Door Roller

1" dia. roller with center groove; heat treated high tension steel spring; used by Metal Industries.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B638</td>
<td>Nylon</td>
<td>2</td>
</tr>
<tr>
<td>B638B</td>
<td>Nylon</td>
<td>50</td>
</tr>
<tr>
<td>B639</td>
<td>Steel B.B</td>
<td>2</td>
</tr>
<tr>
<td>B639B</td>
<td>Steel B.B</td>
<td>30</td>
</tr>
<tr>
<td>B687</td>
<td>Nylon B.B.</td>
<td>2</td>
</tr>
</tbody>
</table>

Sliding Screen Door Roller

1" dia. roller with center groove; 2-1/2" heat treated, high tension steel spring.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B521</td>
<td>Nylon 1&quot;</td>
<td>2</td>
</tr>
<tr>
<td>B521B</td>
<td>Nylon 1&quot;</td>
<td>50</td>
</tr>
<tr>
<td>B522</td>
<td>Steel B.B. 1&quot;</td>
<td>2</td>
</tr>
<tr>
<td>B522B</td>
<td>Steel B.B. 1&quot;</td>
<td>50</td>
</tr>
<tr>
<td>B685N</td>
<td>Nylon B.B. 1&quot;</td>
<td>2</td>
</tr>
</tbody>
</table>

Sliding Screen Door Roller

1" dia. roller with center groove; heat treated high tension steel spring; universal design will fit most applications.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B570</td>
<td>Nylon 1&quot;</td>
<td>2</td>
</tr>
<tr>
<td>B570B</td>
<td>Nylon 1&quot;</td>
<td>50</td>
</tr>
<tr>
<td>B571</td>
<td>Steel B.B. 1&quot;</td>
<td>2</td>
</tr>
<tr>
<td>B571B</td>
<td>Steel B.B. 1&quot;</td>
<td>50</td>
</tr>
<tr>
<td>B688N</td>
<td>Nylon B.B. 1&quot;</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B645</td>
<td>Nylon</td>
<td>2</td>
</tr>
<tr>
<td>B645B</td>
<td>Nylon</td>
<td>30</td>
</tr>
<tr>
<td>B683</td>
<td>Steel B.B.</td>
<td>2</td>
</tr>
</tbody>
</table>

15/16" dia. nylon roller with center groove; nylon housing with aluminum yoke.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B647</td>
<td>Nylon</td>
<td>2</td>
</tr>
<tr>
<td>B682</td>
<td>Steel B.B.</td>
<td>2</td>
</tr>
</tbody>
</table>

Stainless steel housing with 1" dia. center groove steel ball bearing roller.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B683</td>
<td>Nylon</td>
<td>2</td>
</tr>
</tbody>
</table>

Stainless steel housing with 1" dia. center groove roller; designed by Columbia Mfg.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B652</td>
<td>Nylon</td>
<td>2</td>
</tr>
<tr>
<td>B696</td>
<td>Steel B.B.</td>
<td>2</td>
</tr>
</tbody>
</table>

Flat steel spring with extruded aluminum housing; 1-1/4" dia. center groove roller.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B659</td>
<td>Nylon</td>
<td>2</td>
</tr>
</tbody>
</table>

1" dia. nylon concave roller with center groove; steel mounting spring; used by Thermo-Tech.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B728</td>
<td>Nylon</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B662</td>
<td>Nylon</td>
<td>2</td>
</tr>
</tbody>
</table>

1" dia. steel ball bearing roller; diecast adjustable mounting bracket with stamped steel wheel housing; 1 LH and 1 RH per package.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B663</td>
<td>Steel B.B.</td>
<td>2</td>
</tr>
</tbody>
</table>

Nylon housing with 5/8" dia. flat nylon roller; used by Weathershield Mfg.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B666</td>
<td>Nylon</td>
<td>2</td>
</tr>
</tbody>
</table>

1" dia. center groove roller with flat, heat-treated, high tension spring.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B681</td>
<td>Nylon</td>
<td>2</td>
</tr>
</tbody>
</table>

Nylon housing with 1" dia. center groove nylon roller; aluminum inner housing with adjustment cam.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B684</td>
<td>Nylon</td>
<td>2</td>
</tr>
</tbody>
</table>

Nylon housing with 1" dia. center groove roller; used on Columbia screen doors.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B691</td>
<td>Nylon</td>
<td>2</td>
</tr>
<tr>
<td>B695</td>
<td>Steel B.B.</td>
<td>2</td>
</tr>
</tbody>
</table>

All packages of Replacement Hardware can be combined for quantity pricing.

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*All products F.O.B. nearest warehouse. Call toll-free from anywhere in the U.S.A. or Canada. Prices subject to change without notice.*
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.

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.

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.

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.

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.

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.

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.

All packages of Replacement Hardware can be combined for quantity pricing.
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.

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.

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.

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.

Sliding Glass Door Handle

Black finish, die-cast pull; often used with C1127 Inside Handle; 3-15/16” hole centers.

Contents: 1 outside pull.

Sliding Glass Door Inside Handle

Black finish, die-cast body and clear stained hardwood pull; thumb lever with 3/4” actuator; inside wood handle; 6-5/8” hole centers.

Contents: 1 inside pull; installation screws.

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.

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.
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.

**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.

**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.

**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.

**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.

**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.

**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.

**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.
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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>KEYED</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1032</td>
<td>Black</td>
<td>Yes</td>
<td>1</td>
</tr>
<tr>
<td>C1149</td>
<td>Chrome</td>
<td>Yes</td>
<td>1</td>
</tr>
<tr>
<td>C1197</td>
<td>White</td>
<td>Yes</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1069</td>
<td>Wood</td>
<td>1</td>
</tr>
<tr>
<td>C1069B</td>
<td>Wood</td>
<td>5</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1161</td>
<td>Brass</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>KEYED</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1033</td>
<td>Black</td>
<td>Yes</td>
<td>1</td>
</tr>
<tr>
<td>C1043</td>
<td>Black</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>C1076</td>
<td>Chrome</td>
<td>Yes</td>
<td>1</td>
</tr>
<tr>
<td>C1045</td>
<td>Chrome</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>C1129</td>
<td>White</td>
<td>Yes</td>
<td>1</td>
</tr>
<tr>
<td>C1226</td>
<td>White</td>
<td>No</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1067</td>
<td>Chrome</td>
<td>1</td>
</tr>
<tr>
<td>C1067B</td>
<td>Chrome</td>
<td>5</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1196</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

Sliding Glass Door Roller Assembly

Tandem 1-1/4" dia. steel ball bearing rollers; adjustable steel housing; used by several Canadian glass door manufacturers.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1808</td>
<td>Steel B.B.</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1856</td>
<td>Steel B.B.</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sliding Glass Door Roller Assembly

Tandem 1-1/4" dia. steel ball bearing rollers; adjustable steel housing.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1858</td>
<td>Steel B.B.</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sliding Glass Door Roller Assembly

1-1/8" dia. nylon ball bearing roller; adjustable steel housing assembly; used by Patio Enclosures glass doors.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1771</td>
<td>Nylon B.B.</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sliding Glass Door Roller Assembly

1" dia. flat steel ball bearing roller; adjustable steel housing assembly; used by Capitol Door.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1774</td>
<td>Steel B.B.</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sliding Glass Door Roller Assembly

1-1/4" dia. steel ball bearing roller; steel housing; used by Nu-Air and other glass door manufacturers.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1762</td>
<td>Steel B.B.</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sliding Glass Door Top Roller Guide

1-5/16" dia. nylon top roller guide; used on Peachtree glass doors.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1803</td>
<td>Nylon</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sliding Glass Door Top Roller Guide

Nylon top guide with tandem 1-5/16" dia. rollers; used on Peachtree glass doors.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>ROLLER</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1804</td>
<td>Nylon</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1525</td>
<td>Steel B.B. 1-1/4&quot;</td>
<td>1</td>
</tr>
<tr>
<td>D1789</td>
<td>Nylon B.B. 1-1/4&quot;</td>
<td>1</td>
</tr>
</tbody>
</table>

**Sliding Glass Door Roller Assembly**

1-1/2" dia. ball bearing roller; adjustable steel housing assembly; used by Marshall.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1811</td>
<td>Steel B.B. 1-1/4&quot;</td>
<td>1</td>
</tr>
<tr>
<td>D1811B</td>
<td>Steel B.B. 1-1/4&quot;</td>
<td>10</td>
</tr>
<tr>
<td>D1813</td>
<td>Nylon B.B. 1-1/4&quot;</td>
<td>1</td>
</tr>
</tbody>
</table>

**Nylon or steel ball bearing rollers; tandem design; 11/16" wide adjustable steel housing assembly.**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1552</td>
<td>Steel B.B. 1-1/4&quot;</td>
<td>1</td>
</tr>
<tr>
<td>D1552B</td>
<td>Steel B.B. 1-1/4&quot;</td>
<td>10</td>
</tr>
<tr>
<td>D1555</td>
<td>Nylon B.B. 1-1/2&quot;</td>
<td>1</td>
</tr>
</tbody>
</table>

**1" dia. flat steel ball bearing roller; 3/4" wide adjustable steel housing assembly; 7/8" overall housing thickness; used by several glass door manufacturers.**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1523</td>
<td>Steel B.B. 1-1/8&quot;</td>
<td>1</td>
</tr>
<tr>
<td>D1523B</td>
<td>Steel B.B. 1-1/8&quot;</td>
<td>10</td>
</tr>
<tr>
<td>D1537</td>
<td>Nylon B.B. 1&quot;</td>
<td>1</td>
</tr>
</tbody>
</table>

**1-1/8" or 1-1/4" dia. steel ball bearing roller; adjustable steel housing assembly; used by Air Control, Howmet, Krestmark and other glass door manufacturers.**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1563</td>
<td>Steel B.B.</td>
<td>1</td>
</tr>
<tr>
<td>D1563B</td>
<td>Steel B.B. 10</td>
<td></td>
</tr>
<tr>
<td>D1786</td>
<td>Nylon B.B.</td>
<td>1</td>
</tr>
<tr>
<td>D1806</td>
<td>All Stainless</td>
<td>1</td>
</tr>
</tbody>
</table>

All packages of Replacement Hardware can be combined for quantity pricing.
New Products and Expanded Selection

**Sliding Glass Door Bumper**
Molded rubber stop designed to prevent door from slamming into jamb in open position. Attaches to jamb with a center mounting screw.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1568</td>
<td>1-13/16&quot;</td>
<td>Black</td>
<td>2</td>
</tr>
<tr>
<td>D1569</td>
<td>2-5/8&quot;</td>
<td>Black</td>
<td>2</td>
</tr>
<tr>
<td>D1801</td>
<td>1-13/16&quot;</td>
<td>White</td>
<td>2</td>
</tr>
<tr>
<td>D1802</td>
<td>2-5/8&quot;</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

**Glass Door Handle Latch Actuator**
Door handle latch actuator; fits C1028 Handle sets; used by Guaranteed Products.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2127</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>BACK SET</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2126</td>
<td>1-1/4&quot;</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2119</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2512</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>F2594</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

**Window Sash Lock**
Die-cast construction; baked on white finish; cam type action; used on aluminum and vinyl windows.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2588</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

**Key Cylinder Housing Kit**
Used with C1177 Handle; housing mounts to extension handle for key cylinder; kit includes key cylinder and two keys.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2144</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2145</td>
<td>Brass Plate</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2146</td>
<td>Brass Plate</td>
<td>1</td>
</tr>
</tbody>
</table>

**Thumbturn**
Die-cast with steel pin and aluminum plate; spindle is 1” long; used by Hollyview and others.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2034</td>
<td>Aluminum</td>
<td>1</td>
</tr>
</tbody>
</table>

**Sliding Window Latch**
Extruded aluminum latch designed for International 1400 Series windows.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2521</td>
<td>Mill</td>
<td>1</td>
</tr>
<tr>
<td>F2522</td>
<td>Bronze</td>
<td>1</td>
</tr>
</tbody>
</table>

**Window Sash Lock**
Plastic sash lock for both horizontal and vertical sliding windows in camper shells and RV’s.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2585</td>
<td>Black</td>
<td>2</td>
</tr>
<tr>
<td>F2585B</td>
<td>Black</td>
<td>10</td>
</tr>
</tbody>
</table>

All packages of Replacement Hardware can be combined for quantity pricing.
### New Products and Expanded Selection

#### Window Roller

Nylon housing with 1/2" dia. flat edge brass rollers; used by many window manufacturers.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3119</td>
<td>Brass</td>
<td>2</td>
</tr>
</tbody>
</table>

Nylon housing with 3/8" dia. flat brass roller; used by Elco, Better-Bilt Aluminum and others.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3122</td>
<td>Brass</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Window Roller

Stamped steel housing with 9/16" dia. flat nylon roller; used on windows and showcase doors.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3125</td>
<td>Nylon</td>
<td>2</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3126</td>
<td>Steel</td>
<td>2</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3127</td>
<td>Brass</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Window Roller

Nylon housing with two 3/8" dia. flat brass rollers which can be re-positioned within the housing.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3132</td>
<td>Brass</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Window Roller

Nylon housing with 5/16" dia. flat edge brass rollers; used by Elco/Century windows.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3118</td>
<td>Brass</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Window Roller

Nylon housing with 5/16" dia. flat edge brass roller; used by Better-Bilt Aluminum.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3121</td>
<td>Brass</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Window Roller

Extruded aluminum bracket; 5/8" dia. flat steel roller; extra screw race groove in bracket; used by International windows.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3124</td>
<td>Steel</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Window Roller

Nylon housing with two 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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3131</td>
<td>Brass</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Window Roller

Nylon housing with tandem 7/16" dia. flat edge roller; used on Milgard windows.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3146</td>
<td>Nylon</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Window Roller

Nylon housing with tandem 1/2" dia. flat edge nylon rollers.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>ROLLER</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>G3134</td>
<td>Nylon</td>
<td>2</td>
</tr>
</tbody>
</table>
New Products and Expanded Selection

CRL Sash Lock


<table>
<thead>
<tr>
<th>LEFT HAND CAT. NO.</th>
<th>RIGHT HAND CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23044</td>
<td>EP23046</td>
<td>Bronze</td>
<td>1</td>
</tr>
<tr>
<td>EP23045</td>
<td>EP23047</td>
<td>Copper</td>
<td>1</td>
</tr>
<tr>
<td>EP23046</td>
<td>EP23047</td>
<td>Brass</td>
<td>1</td>
</tr>
<tr>
<td>EP23047</td>
<td>EP23048</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

Left or right hand is determined by the side the hinge is on, when viewed from the inside.

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2531</td>
<td>Chrome</td>
<td>1</td>
</tr>
<tr>
<td>F2531B</td>
<td>Chrome</td>
<td>20</td>
</tr>
<tr>
<td>F2532</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>F2532B</td>
<td>Black</td>
<td>20</td>
</tr>
<tr>
<td>F2533</td>
<td>White</td>
<td>1</td>
</tr>
<tr>
<td>F2533B</td>
<td>White</td>
<td>20</td>
</tr>
<tr>
<td>F2548</td>
<td>Brass</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2591</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>F2592</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2589</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>F2589B</td>
<td>Black</td>
<td>20</td>
</tr>
<tr>
<td>F2590</td>
<td>White</td>
<td>1</td>
</tr>
<tr>
<td>F2590B</td>
<td>White</td>
<td>20</td>
</tr>
<tr>
<td>F2596</td>
<td>Bronze</td>
<td>1</td>
</tr>
<tr>
<td>F2596B</td>
<td>Bronze</td>
<td>20</td>
</tr>
<tr>
<td>F2659</td>
<td>Gray</td>
<td>1</td>
</tr>
</tbody>
</table>

Window Sash Lock

Non-handed Low Profile Sash Lock and Keeper. Available in four finishes. One per package.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23053</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23054</td>
<td>Copper</td>
</tr>
<tr>
<td>EP23055</td>
<td>Brass</td>
</tr>
<tr>
<td>EP23056</td>
<td>White</td>
</tr>
</tbody>
</table>

Window Sash Lock

White injected plastic spring loaded latch assembly used for horizontal sliding windows; screws included.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2602</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

Window Sash Lock

Die-cast construction with 5/16” deep offset latch; used on Krestmark single hung aluminum windows and others.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2595</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

Cam-Type Sash Lock

Zinc die-cast sash lock and keeper; used by Season-All windows.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2609</td>
<td>Zinc</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2593</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

Window Latch

Black finish die-cast window latch; used on Window Master Series 216 sliding windows.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2611</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2606</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2610</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

### Tilt Window Latch

Black nylon, spring loaded latch for tilt windows; one left and one right per package. Used by Keller windows.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2660</td>
<td>Black</td>
<td>2</td>
</tr>
</tbody>
</table>

### Tilt Window Latch

White nylon, spring loaded latch for tilt windows; one left and one right per package.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2671</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2657</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

### Window Sash Lift Handle

Die-cast sash lift used by several manufacturers of wood and vinyl windows.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2630</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

### Tilt Window Latch

Spring loaded nylon latch for tilt windows; one left and one right per package. Used by Better-Bilt windows.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2628</td>
<td>Black</td>
<td>2</td>
</tr>
</tbody>
</table>

### Tilt Window Latch

White nylon, spring loaded latch for tilt windows; one left and one right per package.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2641</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

### Tilt Window Latch

White nylon, spring loaded latch for tilt windows; one left and one right per package.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2671</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>
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.

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.

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.
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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>HANDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23057</td>
<td>Bronze</td>
<td>Left</td>
</tr>
<tr>
<td>EP23058</td>
<td>Bronze</td>
<td>Right</td>
</tr>
<tr>
<td>EP23059</td>
<td>White</td>
<td>Left</td>
</tr>
<tr>
<td>EP23060</td>
<td>White</td>
<td>Right</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23093</td>
<td>Bronze</td>
<td>1</td>
</tr>
<tr>
<td>EP23094</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

Casement Window Locking Handles

• Straight Handle Design

Universal Casement Window Locking Handles for steel or aluminum casement windows; mounting screws included.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3539</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>H3540</td>
<td>Bronze</td>
<td>1</td>
</tr>
<tr>
<td>H3716</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

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".

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3546</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>H3547</td>
<td>Bronze</td>
<td>1</td>
</tr>
<tr>
<td>H3818</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

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 a sash heavier than listed on the Table of Capacities shown below.

| TABLE OF CAPACITIES
Single Installation (One Side Only) |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT OF SASH</td>
</tr>
<tr>
<td>--------------------</td>
</tr>
<tr>
<td>4-8 Lbs.</td>
</tr>
<tr>
<td>8-12 Lbs.</td>
</tr>
<tr>
<td>12-18 Lbs.</td>
</tr>
<tr>
<td>18-24 Lbs.</td>
</tr>
</tbody>
</table>

Double Installation (Both Sides)

<table>
<thead>
<tr>
<th>WEIGHT OF SASH</th>
<th>MAX. WIDTH OF SASH</th>
<th>MAX. HEIGHT EACH SASH</th>
<th>QUANTITY AND SIZE REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-16 Lbs.</td>
<td>No Limit</td>
<td>40&quot;</td>
<td>2 Each H3867 Balances</td>
</tr>
<tr>
<td>16-24 Lbs.</td>
<td>No Limit</td>
<td>40&quot;</td>
<td>2 Each H3868 Balances</td>
</tr>
<tr>
<td>24-36 Lbs.</td>
<td>No Limit</td>
<td>40&quot;</td>
<td>2 Each H3869 Balances</td>
</tr>
<tr>
<td>36-48 Lbs.</td>
<td>No Limit</td>
<td>40&quot;</td>
<td>2 Each H3870 Balances</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>WEIGHT RANGE</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3871</td>
<td>4-1/2 Lbs.</td>
<td>2</td>
</tr>
<tr>
<td>H3872</td>
<td>6 Lbs.</td>
<td>2</td>
</tr>
<tr>
<td>H3873</td>
<td>8 Lbs.</td>
<td>2</td>
</tr>
<tr>
<td>H3874</td>
<td>10 Lbs.</td>
<td>2</td>
</tr>
<tr>
<td>H3875</td>
<td>12 Lbs.</td>
<td>2</td>
</tr>
</tbody>
</table>
**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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23000</td>
<td>Left Hand Operator</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23001</td>
<td>Left Hand Operator</td>
<td>Copper</td>
</tr>
<tr>
<td>EP23002</td>
<td>Left Hand Operator</td>
<td>White</td>
</tr>
<tr>
<td>EP23004</td>
<td>Right Hand Operator</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23005</td>
<td>Right Hand Operator</td>
<td>Copper</td>
</tr>
<tr>
<td>EP23006</td>
<td>Right Hand Operator</td>
<td>White</td>
</tr>
<tr>
<td>EP18702</td>
<td>Left Hand Mechanism Only</td>
<td></td>
</tr>
<tr>
<td>EP18703</td>
<td>Right Hand Mechanism Only</td>
<td></td>
</tr>
</tbody>
</table>

"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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23032</td>
<td>Left Hand Operator</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23033</td>
<td>Left Hand Operator</td>
<td>Copper</td>
</tr>
<tr>
<td>EP23034</td>
<td>Left Hand Operator</td>
<td>White</td>
</tr>
<tr>
<td>EP23036</td>
<td>Right Hand Operator</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23037</td>
<td>Right Hand Operator</td>
<td>Copper</td>
</tr>
<tr>
<td>EP23038</td>
<td>Right Hand Operator</td>
<td>White</td>
</tr>
<tr>
<td>EP18708</td>
<td>Left Hand Mechanism Only</td>
<td></td>
</tr>
<tr>
<td>EP18709</td>
<td>Right Hand Mechanism Only</td>
<td></td>
</tr>
</tbody>
</table>

Face Mount Single Arm Operator

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 OPERATORS**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>HAND</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23014</td>
<td>Left</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23015</td>
<td>Left</td>
<td>Copper</td>
</tr>
<tr>
<td>EP23016</td>
<td>Left</td>
<td>White</td>
</tr>
</tbody>
</table>

**RIGHT HAND OPERATORS**

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>Hand</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23017</td>
<td>Right</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23018</td>
<td>Right</td>
<td>Copper</td>
</tr>
<tr>
<td>EP23019</td>
<td>Right</td>
<td>White</td>
</tr>
</tbody>
</table>

Dyad Casement Operator

Complete Dyad Operator assembly with mechanism, cover and handle. Available in two finishes. One operator and one stud bracket per package.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>DESCRIPTION</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23089</td>
<td>Left Hand Operator</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23091</td>
<td>Left Hand Operator</td>
<td>White</td>
</tr>
<tr>
<td>EP23090</td>
<td>Right Hand Operator</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23092</td>
<td>Right Hand Operator</td>
<td>White</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>HAND</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3839</td>
<td>Left</td>
<td>Gray</td>
<td>1</td>
</tr>
<tr>
<td>H3840</td>
<td>Right</td>
<td>Gray</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3932</td>
<td>Gray</td>
<td>1</td>
</tr>
<tr>
<td>H3933</td>
<td>Bronze</td>
<td>1</td>
</tr>
<tr>
<td>H3938</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

All packages of Replacement Hardware can be combined for quantity pricing.
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.

<table>
<thead>
<tr>
<th>9-1/2&quot; ARM</th>
<th>HAND</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23020</td>
<td>Left</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23021</td>
<td>Left</td>
<td>Coppertone</td>
</tr>
<tr>
<td>EP23022</td>
<td>Left</td>
<td>White</td>
</tr>
<tr>
<td>EP23023</td>
<td>Right</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23024</td>
<td>Right</td>
<td>Coppertone</td>
</tr>
<tr>
<td>EP23025</td>
<td>Right</td>
<td>White</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>13-1/2&quot; ARM</th>
<th>HAND</th>
<th>FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23026</td>
<td>Left</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23027</td>
<td>Left</td>
<td>Coppertone</td>
</tr>
<tr>
<td>EP23028</td>
<td>Left</td>
<td>White</td>
</tr>
<tr>
<td>EP23029</td>
<td>Right</td>
<td>Bronze</td>
</tr>
<tr>
<td>EP23030</td>
<td>Right</td>
<td>Coppertone</td>
</tr>
<tr>
<td>EP23031</td>
<td>Right</td>
<td>White</td>
</tr>
</tbody>
</table>

Roto Gear Awning Window Operator

Awning Window Operator with matching long handle. Available in two lengths and three finishes. One per package.

<table>
<thead>
<tr>
<th>CAT. NO. LENGTH FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23008 21-1/2&quot; Bronze</td>
</tr>
<tr>
<td>EP23009 21-1/2&quot; Coppertone</td>
</tr>
<tr>
<td>EP23010 21-1/2&quot; White</td>
</tr>
<tr>
<td>EP23011 16-1/8&quot; Bronze</td>
</tr>
<tr>
<td>EP23012 16-1/8&quot; Coppertone</td>
</tr>
<tr>
<td>EP23013 16-1/8&quot; White</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO. LENGTH FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23070 20-1/2&quot; Bronze</td>
</tr>
<tr>
<td>EP23072 20-1/2&quot; Gold</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO. LENGTH FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP21080 8&quot; Zinc</td>
</tr>
<tr>
<td>EP21083 10&quot; Zinc</td>
</tr>
<tr>
<td>EP21090 12&quot; Zinc</td>
</tr>
<tr>
<td>EP21094 14&quot; Zinc</td>
</tr>
<tr>
<td>EP21099 16&quot; Zinc</td>
</tr>
<tr>
<td>EP21101 18&quot; Zinc</td>
</tr>
<tr>
<td>EP21105 20&quot; Zinc</td>
</tr>
</tbody>
</table>

"Entrygard" Plastic Operator Cover

A.B.S. plastic replacement cover for Entrygard Dual Arm and Dyad Casement Operators. One per package.

<table>
<thead>
<tr>
<th>CAT. NO. FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP21928 Bronze</td>
</tr>
<tr>
<td>EP21931 Coppertone</td>
</tr>
<tr>
<td>EP21937 White</td>
</tr>
<tr>
<td>EP21986 Bright Brass</td>
</tr>
</tbody>
</table>

"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.

<table>
<thead>
<tr>
<th>CAT. NO. FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP23040 Bronze</td>
</tr>
<tr>
<td>EP23041 Coppertone</td>
</tr>
<tr>
<td>EP23043 White</td>
</tr>
<tr>
<td>EP23042 Bright Brass</td>
</tr>
</tbody>
</table>

Operator Crank Handles

Replacement Crank Handles in matching finishes for Truth™ Operators. 11/32" spline size. One per package.

<table>
<thead>
<tr>
<th>CAT. NO. LENGTH FINISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>EP21996 Long Bronze</td>
</tr>
<tr>
<td>EP21998 Long Coppertone</td>
</tr>
<tr>
<td>EP22007 Long White</td>
</tr>
<tr>
<td>EP21896 Short Brass</td>
</tr>
</tbody>
</table>
**New Products and Expanded Selection**

**Window Screen Clips**
Black plastic frame clips hold aluminum screen frames onto sliding windows; used by H & D Industries.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5663</td>
<td>2 Pair</td>
</tr>
<tr>
<td>WSC445</td>
<td>100 Pair</td>
</tr>
</tbody>
</table>

**Window Screen Retainer Clips**
Clear polycarbonate plastic; designed to press-fit into aluminum window frames to support the screen top and bottom.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5623</td>
<td>4</td>
</tr>
<tr>
<td>L5625</td>
<td>4</td>
</tr>
</tbody>
</table>

**Window Screen Retainer Clips**
Clear polycarbonate plastic; designed to press-fit into aluminum window frames to support the screen top and bottom.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5624</td>
<td>4</td>
</tr>
<tr>
<td>L5626</td>
<td>4</td>
</tr>
</tbody>
</table>

**Window Screen Retainer Clips**
Clear polycarbonate plastic; designed to press-fit into aluminum window frames to support the screen top and bottom.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5648B</td>
<td>100</td>
</tr>
<tr>
<td>L5647B</td>
<td>100</td>
</tr>
<tr>
<td>L5646B</td>
<td>100</td>
</tr>
<tr>
<td>L5652B</td>
<td>100</td>
</tr>
</tbody>
</table>

**Window Grid Retainers**
Clear polycarbonate plunger and retainer sleeve with steel pin; used as a grid retainer for colonial style wood window grids.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5649B</td>
<td>100</td>
</tr>
</tbody>
</table>

**Window Grid Retainers**
Clear polycarbonate plunger and retainer sleeve with steel pin; used as a grid retainer for colonial style wood window grids.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5651B</td>
<td>100</td>
</tr>
</tbody>
</table>

**Window Grid Retainers**
Clear polycarbonate with steel pin; used as a grid retainer for colonial style wood window grids.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5644B</td>
<td>100</td>
</tr>
</tbody>
</table>

All packages of Replacement Hardware can be combined for quantity pricing.

---

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com
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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>K5027</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>K5028</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>KS118</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>K5103</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>K5104</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>K5074</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>K5076</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>KS119</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

**Storm Door Hinge**
- Extruded aluminum hinge assembly with offset center leaf for the edge of many popular storm doors; supplied with mounting screws.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>K5093</td>
<td>Aluminum</td>
<td>1</td>
</tr>
</tbody>
</table>

**Storm Door Hinge Pins**
- Nylon hinge pins with bushing caps and steel springs; used to repair storm door hinges.

**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.

**Storm Door Hinge Pins**
- 6 pins, enough for three hinges. Hinge not supplied.

**Storrm Door Hinge Pins**
- 6 pins, enough for three hinges. Hinge not supplied.

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>K5074</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>K5076</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

**Storm Door Hinge**
- Heavy duty storm door closer;
- Adjustable closing speed; 1-1/4" diameter barrel; used on medium weight doors; supplied with mounting screws.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>K5108</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>K5109</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>KS120</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>K5108</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>K5109</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>KS120</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

**Window Screen Clips**
- Extruded black vinyl clips to hold aluminum window screens.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>COLOR</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS642</td>
<td>Black</td>
<td>6</td>
</tr>
</tbody>
</table>

**Window Screen Clips**
- Extruded black vinyl clips to hold aluminum window screens.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>COLOR</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS643</td>
<td>Black</td>
<td>6</td>
</tr>
</tbody>
</table>

**Window Screen Clips**
- Black vinyl retain clip slips over 3/8" screen frame to hold it into aluminum window channel; used by Tom Ray and T.M. Cobb.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>COLOR</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>L5603</td>
<td>Black</td>
<td>6</td>
</tr>
</tbody>
</table>

All packages of Replacement Hardware can be combined for quantity pricing.
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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2293</td>
<td>Polished Brass</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS130</td>
<td>Brass</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS102</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS061</td>
<td>Polished Brass</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS070</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>KS071</td>
<td>Satin Black</td>
<td>1</td>
</tr>
<tr>
<td>KS116</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS082</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>KS107</td>
<td>Gray</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>TYPE</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS079</td>
<td>Black</td>
<td>Unkeyed</td>
<td>1</td>
</tr>
<tr>
<td>KS080</td>
<td>Black</td>
<td>Keyed</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS125</td>
<td>Gray</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>KS083</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>LENGTH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>15850</td>
<td>30-1/2&quot;</td>
<td>1</td>
</tr>
<tr>
<td>15855</td>
<td>25&quot;</td>
<td>1</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6870</td>
<td>1-1/2&quot; Concave Nylon</td>
<td>1</td>
</tr>
<tr>
<td>N6963</td>
<td>1-1/2&quot; Flat Nylon</td>
<td>1</td>
</tr>
</tbody>
</table>

**Mirrored Wardrobe Door Roller**

1-1/4" dia. nylon ball bearing roller; adjustable steel housing assembly; used by Bay King.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6965</td>
<td>Nylon</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N7125</td>
<td>Nylon</td>
<td>1</td>
</tr>
</tbody>
</table>

**Wardrobe Door Guide**

Nylon retainer; adjustable, bottom mount bracket; fits 3/4" to 1-3/8" thick bypassing doors; used by many manufacturers.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6562</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6560</td>
<td>2</td>
</tr>
</tbody>
</table>

**Wardrobe Door Guide**

Side mount, nylon guide; replaces old metal guides.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6558</td>
<td>2</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6861</td>
<td>Nylon B.B.</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N7068</td>
<td>Nylon</td>
<td>1</td>
</tr>
</tbody>
</table>

**Wardrobe Door Guide**

Nylon bottom mount, for 1-3/8" thick bypassing doors; universal design.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6563</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6539</td>
<td>2</td>
</tr>
</tbody>
</table>

**Wardrobe Door Guide Carpet Riser**

Plated steel riser used for mounting wardrobe door guide over carpeted floors; 5/8" high rise.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6561</td>
<td>1</td>
</tr>
</tbody>
</table>

**Wardrobe Door Guide**

Bottom mount nylon guide for steel bypassing doors; repair part for Cat. No. N6553 Wardrobe Door Guide.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6555</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6088</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

Sliding Shower Door Jamb Guide

Extruded nylon jamb guide for Bath Co. sliding tub enclosure doors.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6091</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

Sliding Shower Door Jamb Guide

Injected white nylon jamb guide for Sterling sliding tub enclosure doors.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6112</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

Sliding Drawer Guide Rollers

1” dia. nylon rollers mount on the front of track mounted drawers to provide alignment and smooth operation.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7147</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7141</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>R7148</td>
<td>2</td>
</tr>
</tbody>
</table>

Cabinet and Closet Door Catch

Plated steel housing and strike; spring loaded nylon roller; designed for use on interior closet and cabinet doors.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9047</td>
<td>Brass</td>
<td>1</td>
</tr>
</tbody>
</table>

Wardrobe Door Bottom Roller

Stamped steel bracket with 1-1/2” dia. concave nylon roller; used on Cox Series 21 mirror doors.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6817</td>
<td>Nylon</td>
<td>1</td>
</tr>
</tbody>
</table>

Wardrobe Door Top Guide

Stamped steel bracket with nylon top guide; used on Cox Series 21 mirror doors.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6816</td>
<td>2</td>
</tr>
</tbody>
</table>

Wardrobe Door Bottom Roller

Stamped steel bracket with 1-7/16” dia. concave nylon ball bearing roller; used on Charmac mirror doors.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6820</td>
<td>Nylon B.B.</td>
<td>1</td>
</tr>
</tbody>
</table>

Wardrobe Door Bottom Roller

Stamped steel bracket with 1-7/16” dia. concave nylon ball bearing roller; used on Charmac mirror doors.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>ROLLER</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6820</td>
<td>Nylon B.B.</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6821</td>
<td>2</td>
</tr>
</tbody>
</table>
New Products and Expanded Selection

### Sliding Shower Door Bottom Guide
Nylon bottom guide for sliding tub enclosure doors by Workright.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6144</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sliding Shower Door Roller Bracket
Extruded aluminum top roller bracket with 3/4” oval profile nylon roller; designed for doors by Workright.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6143</td>
<td>Chrome</td>
<td>1</td>
</tr>
</tbody>
</table>

### Shower Door Pull
Designed for frameless swinging and sliding shower doors; no drilling of holes needed; held onto glass with silicone.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6142</td>
<td>Chrome</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sliding Shower Door Bottom Guide
Injected nylon bottom guide for sliding tub enclosures; fits 7/16” thick door rails; used by several shower door manufacturers.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6058</td>
<td>White</td>
<td>2</td>
</tr>
<tr>
<td>M6058B</td>
<td>White</td>
<td>20</td>
</tr>
</tbody>
</table>

### Sliding Shower Door Bottom Guide
Injected white nylon bottom guide with snap-in retainer; used by Kinkead and Sterling.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6090</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

### Sliding Mirror Door Pull
Extruded aluminum pull complete with adhesive back for easy attachment to glass.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>N6968</td>
<td>Polished Gold</td>
<td>1</td>
</tr>
<tr>
<td>N6969</td>
<td>Chrome</td>
<td>1</td>
</tr>
<tr>
<td>N6970</td>
<td>Bronze</td>
<td>1</td>
</tr>
<tr>
<td>N6971</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

### Sliding Shower Door Bottom Guide
Nylon bottom guide for International sliding tub enclosure doors; fits 1/2” thick door rails.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6067</td>
<td>White</td>
<td>1</td>
</tr>
<tr>
<td>M6067B</td>
<td>White</td>
<td>20</td>
</tr>
</tbody>
</table>

### Sliding Shower Door Bottom Guide
Extruded clear nylon bottom guide for frameless shower doors by Sterling.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6111</td>
<td>Clear</td>
<td>1</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6085</td>
<td>10-5/8&quot;H x 9&quot;W</td>
<td>2</td>
</tr>
</tbody>
</table>

#### CURVED PROFILE GUARDS MOUNT WITH SILICONE
White plastic Splash Guards have curved profile; use 33STW Silicone or similar tub caulking to mount.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6086</td>
<td>8-7/8&quot;H x 7&quot;W</td>
<td>2</td>
</tr>
</tbody>
</table>

#### 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6087</td>
<td>11-1/8&quot;H x 6-7/8&quot;W</td>
<td>2</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4574</td>
<td>7&quot;</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>J4575</td>
<td>7&quot;</td>
<td>Bronze</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>8852AL</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>8852DU</td>
<td>Duranodic Bronze</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9500</td>
<td>7&quot;</td>
<td>Painted Gray</td>
<td>1</td>
</tr>
<tr>
<td>U9501</td>
<td>7&quot;</td>
<td>Painted Bronze</td>
<td>1</td>
</tr>
<tr>
<td>U9503</td>
<td>11&quot;</td>
<td>Painted Gray</td>
<td>1</td>
</tr>
<tr>
<td>U9504</td>
<td>11&quot;</td>
<td>Painted Bronze</td>
<td>1</td>
</tr>
</tbody>
</table>

Storefront Two-Point Lock
Two-Point Header and Threshold Lock; used with either J4517 or J4518 Lock Bolts in storefront doors.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>J4505</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
<th>QTY./PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>U8511</td>
<td>6&quot;</td>
<td>Painted Gray</td>
<td>1</td>
</tr>
<tr>
<td>U8513</td>
<td>12&quot;</td>
<td>Painted Gray</td>
<td>1</td>
</tr>
</tbody>
</table>

All packages of Replacement Hardware can be combined for quantity pricing.
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.

**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.

**Heavy Cast Iron Door Stop**

Heavy cast iron door stop measures 4" in length; rubber tip and four screws included.

**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.

**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.

**Heavy Duty Door Stop**

Heavy cast iron, floor mounted door stop for severe duty applications; thick molded rubber contact surface; includes screws and anchors.

**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.

**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.

**Flexible Door Stop**

Heavy duty spring; brass plated finish; steel screw insert; mounts onto baseboard to prevent door from hitting the wall.

**Rigid Door Stop**

Heavy metal casting; brass plated finish; steel screw insert; mounts onto baseboard to prevent door from hitting the wall.

---

All packages of Replacement Hardware can be combined for quantity pricing.

TOLL FREE FAX (800) 262-3299           www.crlaurence.com TOLL FREE PHONE (800) 421-6144
**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>LENGTH</th>
<th>DIAM.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4067</td>
<td>1-5/16&quot;</td>
<td>3/16&quot;</td>
<td>1</td>
</tr>
<tr>
<td>S4067B</td>
<td>1-5/16&quot;</td>
<td>3/16&quot;</td>
<td>25</td>
</tr>
<tr>
<td>U9858</td>
<td>2-3/4&quot;</td>
<td>3/16&quot;</td>
<td>1</td>
</tr>
<tr>
<td>S4011B</td>
<td>2-3/4&quot;</td>
<td>3/16&quot;</td>
<td>25</td>
</tr>
<tr>
<td>S4066</td>
<td>2-3/4&quot;</td>
<td>1/4&quot;</td>
<td>1</td>
</tr>
<tr>
<td>S4066B</td>
<td>2-3/4&quot;</td>
<td>1/4&quot;</td>
<td>25</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9848</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>S4002B</td>
<td>Aluminum</td>
<td>10</td>
</tr>
<tr>
<td>S4003</td>
<td>Black</td>
<td>2</td>
</tr>
<tr>
<td>S4001B</td>
<td>Black</td>
<td>2</td>
</tr>
<tr>
<td>U9802</td>
<td>White</td>
<td>2</td>
</tr>
<tr>
<td>S4340B</td>
<td>White</td>
<td>50</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9874</td>
<td>White</td>
<td>1</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9845</td>
<td>Brass</td>
<td>8</td>
</tr>
</tbody>
</table>

**Step-On Patio Door Lock**

Hardened steel bolt; convenient foot activation; mounts in any position; use in closed or ventilating position; easy to install.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9877</td>
<td>Aluminum</td>
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<tr>
<td>S4023B</td>
<td>Aluminum</td>
<td>10</td>
</tr>
<tr>
<td>U9878</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>S4041B</td>
<td>Black</td>
<td>10</td>
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<tr>
<td>U9879</td>
<td>White</td>
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</tr>
<tr>
<td>S4355B</td>
<td>White</td>
<td>10</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>LENGTH</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4357</td>
<td>3/4&quot;</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>S4404</td>
<td>3/4&quot;</td>
<td>Black</td>
<td>1</td>
</tr>
</tbody>
</table>

**Sliding Window Sash Lock**

Installs on single hung or sliding aluminum windows; securely locks windows in closed or ventilating position; easy to install.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4000</td>
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</tr>
<tr>
<td>S4000B</td>
<td>Aluminum</td>
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<tr>
<td>S4001</td>
<td>Black</td>
<td>2</td>
</tr>
<tr>
<td>S4001B</td>
<td>Black</td>
<td>50</td>
</tr>
<tr>
<td>U9802</td>
<td>White</td>
<td>2</td>
</tr>
<tr>
<td>S4340B</td>
<td>White</td>
<td>50</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9810</td>
<td>Aluminum</td>
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</tr>
<tr>
<td>U9812</td>
<td>White</td>
<td>2</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9853</td>
<td>Aluminum</td>
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</tr>
<tr>
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<tr>
<td>S4029</td>
<td>Black</td>
<td>1</td>
</tr>
<tr>
<td>S4029B</td>
<td>Black</td>
<td>10</td>
</tr>
<tr>
<td>S4356</td>
<td>White</td>
<td>1</td>
</tr>
<tr>
<td>S4356B</td>
<td>White</td>
<td>10</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9848</td>
<td>Aluminum</td>
<td>1</td>
</tr>
<tr>
<td>S4002B</td>
<td>Aluminum</td>
<td>10</td>
</tr>
<tr>
<td>S4003</td>
<td>Black</td>
<td>1</td>
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<tr>
<td>S4003B</td>
<td>Black</td>
<td>10</td>
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<tr>
<td>U9850</td>
<td>White</td>
<td>1</td>
</tr>
<tr>
<td>S4354B</td>
<td>White</td>
<td>10</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>SIZE</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9920</td>
<td>Aluminum</td>
<td>1-1/8”</td>
<td>1</td>
</tr>
<tr>
<td>U9921</td>
<td>White</td>
<td>2-1/8”</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>SIZE</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9846</td>
<td>Chrome</td>
<td>1-1/8”</td>
<td>1</td>
</tr>
<tr>
<td>U9847</td>
<td>Chrome</td>
<td>2-1/8”</td>
<td>1</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>VIEW</th>
<th>QTY/PKG</th>
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</thead>
<tbody>
<tr>
<td>U9880</td>
<td>Chrome</td>
<td>160º</td>
<td>1</td>
</tr>
<tr>
<td>U9893</td>
<td>Brass</td>
<td>160º</td>
<td>1</td>
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</tbody>
</table>

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 1” hole.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>VIEW</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9881</td>
<td>Chrome</td>
<td>190º</td>
<td>1</td>
</tr>
<tr>
<td>U9891</td>
<td>Brass</td>
<td>200º</td>
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</table>

"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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>FINISH</th>
<th>VIEW</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>U9915</td>
<td>Gold</td>
<td>160º</td>
<td>1</td>
</tr>
<tr>
<td>U9916</td>
<td>Bronze</td>
<td>160º</td>
<td>1</td>
</tr>
<tr>
<td>U9917</td>
<td>White</td>
<td>160º</td>
<td>1</td>
</tr>
<tr>
<td>U9918</td>
<td>Gray</td>
<td>160º</td>
<td>1</td>
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</tbody>
</table>

Brass Padlock

Solid brass body with hardened steel shackle; popular size for tool boxes and cabinets; comes with two keys.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>QTY/PKG</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4204</td>
<td>1</td>
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</tbody>
</table>

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
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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>SIZE</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRS361</td>
<td>36” X 15 ft.</td>
<td>Mirror Silver</td>
<td>1 Roll</td>
</tr>
<tr>
<td>HGF0361</td>
<td>36” X 15 ft.</td>
<td>Gray</td>
<td>1 Roll</td>
</tr>
<tr>
<td>PRS336</td>
<td>36” X 100 ft.</td>
<td>Mirror Silver</td>
<td>1 Roll</td>
</tr>
<tr>
<td>EGF636</td>
<td>36” X 100 ft.</td>
<td>Gray</td>
<td>1 Roll</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>SIZE</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
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</thead>
<tbody>
<tr>
<td>LEG361</td>
<td>36” X 15 ft.</td>
<td>Gray</td>
<td>1 Roll</td>
</tr>
<tr>
<td>LEB661</td>
<td>36” X 15 ft.</td>
<td>Bronze</td>
<td>1 Roll</td>
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<tr>
<td>EGM0356</td>
<td>36” X 100 ft.</td>
<td>Gray</td>
<td>1 Roll</td>
</tr>
<tr>
<td>EGMW736</td>
<td>36” X 100 ft.</td>
<td>Bronze</td>
<td>1 Roll</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>SIZE</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDS78</td>
<td>36” X 78”</td>
<td>Smoke</td>
<td>1 Roll</td>
</tr>
<tr>
<td>CDB78</td>
<td>36” X 78”</td>
<td>Bronze</td>
<td>1 Roll</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>SIZE</th>
<th>COLOR</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFW48</td>
<td>48” X 78”</td>
<td>Frosted White</td>
<td>1 Roll</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>SIZE</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>UVX02448</td>
<td>24” X 48”</td>
<td>1 Sheet</td>
</tr>
<tr>
<td>UVX03648</td>
<td>36” X 48”</td>
<td>1 Sheet</td>
</tr>
<tr>
<td>UVX03672</td>
<td>36” X 72”</td>
<td>1 Sheet</td>
</tr>
<tr>
<td>UVX04848</td>
<td>48” X 48”</td>
<td>1 Sheet</td>
</tr>
<tr>
<td>UVX04872</td>
<td>48” X 72”</td>
<td>1 Sheet</td>
</tr>
<tr>
<td>UVX036100</td>
<td>36” X 100 ft.</td>
<td>1 Roll</td>
</tr>
<tr>
<td>UVX048100</td>
<td>48” X 100 ft.</td>
<td>1 Roll</td>
</tr>
</tbody>
</table>
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

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).

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).

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).

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).
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™

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 SSSHN 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.

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™

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 SSSHN 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.
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.

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.

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™.

Super Spacer™ Super Shuttle™ Applicator

- For Leaded Glass Insert Panels

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”.

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.

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.
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™)

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>N400G15</td>
<td>1-1/2 Gallons</td>
<td></td>
</tr>
<tr>
<td>N400GL</td>
<td>5 Gallons</td>
<td></td>
</tr>
</tbody>
</table>

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

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.

CRL Pebbled Non-Adhesive Shipping Pads

- Non-Adhesive Black Pebbled Nylon
- No Sticky Residue Left After Removal
- Excellent When Storing or Transporting IG Units

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE</th>
<th>QTY. PER ROLL</th>
</tr>
</thead>
<tbody>
<tr>
<td>PNA12B</td>
<td>1/4” x 1/2” x 1/2”</td>
<td>10,000</td>
</tr>
<tr>
<td>PNA34B</td>
<td>1/4” x 3/4” x 3/4”</td>
<td>5,000</td>
</tr>
<tr>
<td>PNA58B</td>
<td>3/16” x 5/8” x 5/8”</td>
<td>5,000</td>
</tr>
</tbody>
</table>

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.

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.

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.

1. List the Cut Sizes
2. List the Stock Sizes
3. Click on Go
4. The Results are Simple, Easy to Read and Ready to Print for Quick Cutting

Another CRL Exclusive

CRL FastCUT® - The smartest, simplest, most cost effective, glass optimizing software you can buy!

CAT. NO. 2000FCS
CRL Toplife 2000 Deluxe Glass Cutter

- **A New Dimension in Glass Cutting**

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 2004 Glass Cutter

- **Ideal All-Purpose Cutter for Glass from 3/32" (2mm) to 1/2" (12mm) Thick**

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 Wheel Holders**

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.

**CRL Toplife 2004 Glass Cutter**

Pressure Bar for Scoring Control

Lightweight Contoured Handle

High Performance Toplife 135° Cutting Wheel

---

**For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com**

**TOLL FREE FAX (800) 262-3299           www.crlaurence.com TOLL FREE PHONE (800) 421-6144**

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
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.

![Transverse Handle Image]

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP20450</td>
<td>Toplife Glass Cutter</td>
</tr>
<tr>
<td></td>
<td><strong>Transverse Handle</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Heavy Glass Breaking Pliers</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Corner Notching Template</strong></td>
</tr>
</tbody>
</table>

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.

![Heavy Glass Breaking Pliers Image]

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<tbody>
<tr>
<td>TP7040</td>
<td>Toplife Glass Cutter</td>
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</table>

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.

![Corner Notching Template Image]

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>TP078</td>
<td>Toplife Glass Cutter</td>
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TOPLIFE GLASS CUTTER AND ACCESSORIES

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
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<tr>
<td>TP2000</td>
<td>Toplife Glass Cutter</td>
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<tr>
<td>TP20450</td>
<td>Transverse Handle</td>
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<tr>
<td>TP7040</td>
<td>Heavy Glass Breaking Pliers</td>
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<tr>
<td>TP078</td>
<td>Corner Notching Template</td>
</tr>
<tr>
<td>TP2SET</td>
<td>Set of All Four Tools Above Plus 155° Wheel Holder</td>
</tr>
</tbody>
</table>
CRL Lateral Cut-Out System

- Makes Running Difficult Cuts Easy
- Lightweight and Easy to Handle

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 Lateral Cut-Out Template

- Perfect for Teller Window Openings
- Makes Cutting Hinge or Hardware Notches an Easy Task
- No Need to Drill Holes

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.

CRL Thick Glass Cutter

- Easily Cuts Glass Up to 1" (25 mm) Thick
- Self-Trailing Cutting Head
- Works Great on Curved Cuts

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 3/4" (6 mm). A great tool for anyone cutting multiple pieces of thick glass.

CRL Heavy Glass Cutting Oil

- Recommended for Thick Glass
- Splintered Glass is Bound

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 its 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 Thick Glass Cut Opening Tapper

- One Shot Starts Your Run
- Powerful and Accurate

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 powerful 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 Corner Radius Cutter
• 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.

CRL Segment Radius Cutter
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
• 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.

CRL Flexible Shape Templates
• Immediate Copying and Cutting of the Same Shape in Glass

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).
CRL Fletcher “Gold-Tip” Designer || 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

Solid Brass Contour Grip Handle
CAT. NO. 01712
Wide head with 140˚ angle tungsten carbide cutting wheel for straight edge cutting

Clear Plastic Pistol Grip Handle
CAT. NO. 01714
Narrow head with 140˚ angle tungsten carbide cutting wheel for pattern cutting

Replacement Tungsten Carbide Cutting Heads
CAT. NO. HEAD TYPE
03711 140˚ Wide
03712 140˚ Narrow
03713 154˚ Thick Glass

CRL Fletcher 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.

CRL 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.
**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.

**CRL Toyo Custom-Grip Supercutter®**

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.

**CRL Glass Break-Out Tools**

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.
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!

INDIVIDUAL “L” SQUARES

<table>
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<th>DESCRIPTION</th>
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<tr>
<td>L24</td>
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<td>L36</td>
<td>36” (914 mm)</td>
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<td>L48</td>
<td>48” (1219 mm)</td>
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<tr>
<td>L60*</td>
<td>60” (1524 mm)</td>
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*Over UPS size limits. Shipped motor freight only.

MONEY SAVING “L” SQUARE COMBO SETS

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<tr>
<td>L4824C</td>
<td>48” and 24” “L” Square Combo Set</td>
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<tr>
<td>L6024C</td>
<td>60” and 24” “L” Square Combo Set</td>
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</tbody>
</table>

*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.

<table>
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<th>CAT. NO.</th>
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<tr>
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<td>96” (2438 mm)</td>
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<tr>
<td>SEP120*</td>
<td>120” (3048 mm)</td>
</tr>
<tr>
<td>SEP144*</td>
<td>144” (3658 mm)</td>
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</tbody>
</table>

*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 than 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.

<table>
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<tr>
<td>VCR144*</td>
<td>5</td>
<td>144” (3658 mm)</td>
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*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 storefront 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

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.

CAT. NO. 71004P
CRL Glass Running Pliers
• Lightweight and Portable
• Plastic Jaws Won’t Chip Glass

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 Glass Chip Brush
• Safe and Effective Way to Clean Up Glass Chips and Splinters

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 indispensable little helper for a proper work area.

CRL Drop Jaw Glass Pliers
• For Glass Up to 1/2” (12 mm) Thick

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

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 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.

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.
CRL Round Edge Template Guide

- Make Consistent Radius Corners Easier Than Ever
- Choose from 12 Radii (10 to 70 mm)
- Slip Resistant Rubber Pads

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

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.

CRL Quick Draw Mirror Outlet Cut-Out Templates

- Reduces Layout Time and Increases Accuracy

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.

CRL Glass Slicker

- Deposits Thin Film of Oil on Glass
- Aids in Cleaner, Smoother Cut and Break

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 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.

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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.

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

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.

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.

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.

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 Plated Diamond Saw Blades

CRL Metal Bond Diamond Saw Blades

CRL Resin Bond Diamond Saw Blades

CRL Mirror and Glass Notching Saw
- Battery Powered - Completely Self Contained
- Makes Plunge Cuts and Edge Cuts
- Refillable Coolant Canister

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!

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.

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.

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.

CRL Mirror and Glass Notching Saw

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com

TOLL FREE FAX (800) 262-3299  www.crlaurence.com  TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
CRL 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADGS</td>
<td>18 Volt Cordless Diamond Glass Saw System</td>
</tr>
<tr>
<td>DBF</td>
<td>5-3/8&quot; Fine 220 Grit Diamond Blade</td>
</tr>
<tr>
<td>DBM</td>
<td>5-3/8&quot; Medium 100 Grit Diamond Blade</td>
</tr>
<tr>
<td>DW9095</td>
<td>18 Volt DeWalt Battery Cartridge</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>TMB100</td>
<td>18 Volt Cordless Glass, Metal, Plastic, Wood Saw</td>
</tr>
<tr>
<td>TMB200</td>
<td>18 Volt Cordless Metal, Plastic, Wood Saw</td>
</tr>
<tr>
<td>B100DB</td>
<td>10&quot; Resin Bond Diamond Replacement Saw Blade</td>
</tr>
<tr>
<td>SHS10X150</td>
<td>10&quot; Semi-High Speed 150 Tooth Replacement Saw Blade</td>
</tr>
</tbody>
</table>
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.

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com
CRL 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".

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>CAT NO.</th>
<th>SIZE (FRACTIONAL)</th>
<th>SIZE (METRIC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PD3MM</td>
<td>PDT3MM</td>
<td>3/32&quot; (3mm)</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>PD18</td>
<td>PDT18</td>
<td>1/16&quot; (1.5mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD316</td>
<td>PDT316</td>
<td>3/32&quot; (2mm)</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>PD6MM</td>
<td>PDT6MM</td>
<td>1/8&quot; (3mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD14</td>
<td>PDT14</td>
<td>1/16&quot; (1.5mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD516</td>
<td>PDT516</td>
<td>3/32&quot; (2mm)</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>PD9MM</td>
<td>PDT9MM</td>
<td>1/8&quot; (3mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD38</td>
<td>PDT38</td>
<td>3/32&quot; (2mm)</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>PD716</td>
<td>PDT716</td>
<td>7/64&quot; (5.5mm)</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>PD12MM</td>
<td>PDT12MM</td>
<td>1/4&quot; (4mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD12</td>
<td>PDT12</td>
<td>1/16&quot; (1.5mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD13MM</td>
<td>PDT13MM</td>
<td>3/32&quot; (2mm)</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>PD316</td>
<td>PDT316</td>
<td>3/32&quot; (2mm)</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>PD58</td>
<td>PDT58</td>
<td>5/64&quot; (1.5mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD1116</td>
<td>PDT1116</td>
<td>11/64&quot; (1.5mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD34</td>
<td>PDT34</td>
<td>3/32&quot; (2mm)</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>PD20MM</td>
<td>PDT20MM</td>
<td>1/4&quot; (4mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD1316</td>
<td>PDT1316</td>
<td>1/8&quot; (3mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD78</td>
<td>PDT78</td>
<td>7/64&quot; (5.5mm)</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>PD24MM</td>
<td>PDT24MM</td>
<td>1/4&quot; (4mm)</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>PD25MM</td>
<td>PDT25MM</td>
<td>1/4&quot; (4mm)</td>
<td>0.063&quot;</td>
</tr>
</tbody>
</table>

CRL Electro-Formed Diamond Drills

- For Fast Cutting, High Production Runs
- Long Work Life
- Two Mounting Styles to Choose From

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>CAT NO.</th>
<th>DRILL DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>DD014</td>
<td>3/32&quot;</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>DD016</td>
<td>1/16&quot;</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>DD038</td>
<td>3/32&quot;</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>DD076</td>
<td>7/64&quot;</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>DD12</td>
<td>1/4&quot;</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>DD58</td>
<td>5/64&quot;</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>DD34</td>
<td>3/32&quot;</td>
<td>0.063&quot;</td>
</tr>
<tr>
<td>DD78</td>
<td>7/64&quot;</td>
<td>0.089&quot;</td>
</tr>
<tr>
<td>DD1</td>
<td>1/8&quot;</td>
<td>0.063&quot;</td>
</tr>
</tbody>
</table>

BELGIAN SHANK TYPE

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DRILL DIAMETER</th>
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</thead>
<tbody>
<tr>
<td>HBT312</td>
<td>3/32&quot;</td>
</tr>
<tr>
<td>HBT118</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>HBT316</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>HBT12</td>
<td>1/16&quot;</td>
</tr>
<tr>
<td>HBT16</td>
<td>1/32&quot;</td>
</tr>
<tr>
<td>HBT38</td>
<td>3/32&quot;</td>
</tr>
<tr>
<td>HBT116</td>
<td>1/16&quot;</td>
</tr>
<tr>
<td>HBT12</td>
<td>1/16&quot;</td>
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<tr>
<td>HBT34</td>
<td>3/32&quot;</td>
</tr>
<tr>
<td>HBT316</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>HBT78</td>
<td>7/64&quot;</td>
</tr>
</tbody>
</table>

RECOMMENDED OPERATING SPEEDS FOR ALL DIAMOND DRILLS ON THIS PAGE

<table>
<thead>
<tr>
<th>RPM RANGE</th>
<th>SIZE (MM)</th>
<th>SIZE (MM)</th>
<th>SIZE (MM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4</td>
<td>4500</td>
<td>26-28</td>
<td>1800</td>
</tr>
<tr>
<td>5-6</td>
<td>4500</td>
<td>29-44</td>
<td>1500</td>
</tr>
<tr>
<td>7-8</td>
<td>3000</td>
<td>46-64</td>
<td>1200</td>
</tr>
<tr>
<td>9-10</td>
<td>2500</td>
<td>65-89</td>
<td>900</td>
</tr>
<tr>
<td>11-12</td>
<td>2000</td>
<td>90-102</td>
<td>800</td>
</tr>
</tbody>
</table>

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.

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.

CRL Electro-Formed Diamond Drills may be combined for quantity pricing.

3-1/2" (89mm)
2-1/8" (57mm)
2-1/4" (57mm)
2-3/4" (70mm)
3" (76mm)
3-1/4" (83mm)
3-1/2" (89mm)
3-3/4" (96mm)
100mm
102mm

4" (102mm)
3" (76mm)
2-1/2" (57mm)
2-1/4" (57mm)
2-3/4" (70mm)
3" (76mm)
3-1/4" (83mm)
3-1/2" (89mm)
3-3/4" (96mm)
100mm
102mm

All CRL Diamond Drills may be combined for quantity pricing.
CRL 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.

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.

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.

MONEY SAVING DRILL SETS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DRILLS</th>
<th>DIAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGSET1</td>
<td>5</td>
<td>1/4&quot;, 1/2&quot;, 3/4&quot;, 1&quot;, 2&quot;</td>
</tr>
<tr>
<td>AGSET2</td>
<td>8</td>
<td>AGSET1 + 3/8&quot;, 5/8&quot;, 2-1/4&quot;</td>
</tr>
<tr>
<td>AGSET3</td>
<td>12</td>
<td>AGSET2 + 1/8&quot;, 1-1/4&quot;, 1-1/2&quot;, 4&quot;</td>
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</table>

MONEY SAVING FIVE DRILL SET

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DIAMETERS</th>
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</thead>
<tbody>
<tr>
<td>SRSD1</td>
<td>1/4&quot;, 1/2&quot;, 3/4&quot;, 1&quot;, 2&quot;</td>
</tr>
<tr>
<td>SRSD2</td>
<td>1/4&quot;, 1/2&quot;, 3/4&quot;, 1&quot;, 2&quot;</td>
</tr>
<tr>
<td>SRSD3</td>
<td>1/4&quot;, 1/2&quot;, 3/4&quot;, 1&quot;, 2&quot;</td>
</tr>
</tbody>
</table>

RECOMMENDED OPERATING SPEEDS FOR ALL CRL PLATED DIAMOND DRILLS

<table>
<thead>
<tr>
<th>SIZE</th>
<th>RPM RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8&quot; - 1/2&quot;</td>
<td>1600 - 2000</td>
</tr>
<tr>
<td>9/16&quot; - 1&quot;</td>
<td>1400 - 1600</td>
</tr>
<tr>
<td>1-1/8&quot; - 2&quot;</td>
<td>1100 - 1400</td>
</tr>
<tr>
<td>2-1/8&quot; - 3&quot;</td>
<td>900 - 1100</td>
</tr>
<tr>
<td>3-1/4&quot; - 4&quot;</td>
<td>700 - 900</td>
</tr>
<tr>
<td>4-1/2&quot; +</td>
<td>500 - 700</td>
</tr>
</tbody>
</table>

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

AVAILABLE SIZES AND STYLES

### CAT. NO. DESCRIPTION

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE-U.S.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>REC2</td>
<td>2” Re-Coated AG Sawtooth Plated Diamond Drill</td>
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</tr>
<tr>
<td>REC218</td>
<td>2-1/8” Re-Coated AG Sawtooth Plated Diamond Drill</td>
<td></td>
</tr>
<tr>
<td>REC214</td>
<td>2-1/4” Re-Coated AG Sawtooth Plated Diamond Drill</td>
<td></td>
</tr>
<tr>
<td>REC212</td>
<td>2-1/2” Re-Coated AG Sawtooth Plated Diamond Drill</td>
<td></td>
</tr>
<tr>
<td>REC234</td>
<td>2-3/4” Re-Coated AG Sawtooth Plated Diamond Drill</td>
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<tr>
<td>REC3</td>
<td>3” Re-Coated AG Sawtooth Plated Diamond Drill</td>
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<tr>
<td>REC312</td>
<td>3-1/2” Re-Coated AG Sawtooth Plated Diamond Drill</td>
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<tr>
<td>REC4</td>
<td>4” Re-Coated AG Sawtooth Plated Diamond Drill</td>
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<tr>
<td>REC412</td>
<td>4-1/2” Re-Coated AG Sawtooth Plated Diamond Drill</td>
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</table>

### MINIATURE PLATED DIAMOND FLAT-TIP DRILLS

<table>
<thead>
<tr>
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<th>SIZE-U.S.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD346</td>
<td>.0295”</td>
<td>.75mm Flat-Tip Drill</td>
</tr>
<tr>
<td>MD16</td>
<td>.0394”</td>
<td>1mm Flat-Tip Drill</td>
</tr>
<tr>
<td>MD1146</td>
<td>.0492”</td>
<td>1.25mm Flat-Tip Drill</td>
</tr>
<tr>
<td>MD1126</td>
<td>.0590”</td>
<td>1.50mm Flat-Tip Drill</td>
</tr>
<tr>
<td>MD26</td>
<td>.0787”</td>
<td>2mm Flat-Tip Drill</td>
</tr>
<tr>
<td>MD2146</td>
<td>.0886”</td>
<td>2.25mm Flat-Tip Drill</td>
</tr>
<tr>
<td>MD2126</td>
<td>.0985”</td>
<td>2.5mm Flat-Tip Drill</td>
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<tr>
<td>MD36</td>
<td>.1182”</td>
<td>3mm Flat-Tip Drill</td>
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<tr>
<td>MD3126</td>
<td>.1379”</td>
<td>3.5mm Flat-Tip Drill</td>
</tr>
<tr>
<td>MD46</td>
<td>.1576”</td>
<td>4mm Flat-Tip Drill</td>
</tr>
</tbody>
</table>

CRL Miniature and Tripple Ripple™ Diamond Drills

- Music Wire Diamond Drills

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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE-U.S.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRD346</td>
<td>.0295”</td>
<td>.75mm Tripple-Ripple Drill</td>
</tr>
<tr>
<td>TRD116</td>
<td>.0433”</td>
<td>1.1mm Tripple-Ripple Drill</td>
</tr>
<tr>
<td>TRD146</td>
<td>.0551”</td>
<td>1.4mm Tripple-Ripple Drill</td>
</tr>
<tr>
<td>TRD186</td>
<td>.0709”</td>
<td>1.8mm Tripple-Ripple Drill</td>
</tr>
<tr>
<td>TRD216</td>
<td>.0827”</td>
<td>2.1mm Tripple-Ripple Drill</td>
</tr>
</tbody>
</table>

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.
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 WCSS 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.

CRL Diamond Countersinks

- Straight Shank or Belgian Type Mounts
- Metal Bond Diamonds

CRL Diamond Countersinks feature a medium grit diamond for grinding precise, chip-free 90° tapers into existing holes in glass. Available in three sizes that can be used on any hole size up to the maximum countersink diameter.

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).

CRL 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.

CRL Glass Block Drill

- 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.
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.

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.

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.

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.

CRL Port-O-Holer Glass Drilling Tool

- 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 indispensable. 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!
**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".

---

**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".

---

**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, slabbled 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.

---

**CRL 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.

---

**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.
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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>GRIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZD4Q58</td>
<td>5/8”-11 QRS Disc Pad</td>
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</tr>
<tr>
<td>ZD4Q60</td>
<td>3M™ QRS Diamond Disc</td>
<td>60X</td>
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<tr>
<td>ZD4Q120</td>
<td>3M™ QRS Diamond Disc</td>
<td>120X</td>
</tr>
<tr>
<td>ZD4Q220</td>
<td>3M™ QRS Diamond Disc</td>
<td>220X</td>
</tr>
<tr>
<td>ZD4Q400</td>
<td>3M™ QRS Diamond Disc</td>
<td>400X</td>
</tr>
<tr>
<td>ZD4Q800</td>
<td>3M™ QRS Diamond Disc</td>
<td>800X</td>
</tr>
</tbody>
</table>
**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!

CRL 3M™ Trizact™ professional scratch removal system comes with pyramids that provide 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 makes it ideal for use on curved glass, and to create your own finished products, including “high polish” work. With a Lee and CRL 3M™ Trizact™ Professional Scratch Removal System, you can remove scratches in flat or curved 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!

**C.L. Laurence introduced 3M™ Trizact™ Abrasive Film to the glass industry.**

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.

**CRL 3M™ Trizact™ Scratch Removal Starter Kit**

- **The Best Way to Start Using Trizact™ Discs**
- **Uses Your Hand Held Electric Drill**

Each Kit Includes:
- 1/4” Shank Adapter
- Spray Bottle for Water
- Plastic Apron
- Marker
- Full Instructions

Drill Not Included

**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.

**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.

**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 DPASS Adapter to convert 5/8”-11 mount to straight shank for use in your hand drill.**

**CRL 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.
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

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.

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PN8932</td>
<td>Complete Polishing System</td>
</tr>
</tbody>
</table>

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!

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PN8930</td>
<td>Autostock Scratch Removal System</td>
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<tr>
<td>PN8915</td>
<td>Finer Compound 1lb.</td>
</tr>
<tr>
<td>PN8230</td>
<td>Finer Disc Pack 50/Pk.</td>
</tr>
<tr>
<td>PN8936</td>
<td>Finer Foam Shroud Seals 6/Pk.</td>
</tr>
</tbody>
</table>
CRL Portable Router  
**NEW FEATURES**

- New Improved Version of Our Most Popular Glass Router  
- Lightweight and Maneuverable

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 cored, 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.

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.

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

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 power 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.

CRL Tin Side Detector  
**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

- 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.

### 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.

### 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: Auto glass 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 all products.

### Technical Sales

TOLL FREE FAX (800) 262-3299  TOLL FREE PHONE (800) 421-6144

CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA.
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.

CRL Belt Guard Safety Shield

- 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.

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

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>SIZE*</th>
<th>GRIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>66X760CB</td>
<td>6&quot; x 7/8&quot;</td>
<td>60X</td>
</tr>
<tr>
<td>66X780CB</td>
<td>6&quot; x 7/8&quot;</td>
<td>80X</td>
</tr>
<tr>
<td>66X78120CB</td>
<td>6&quot; x 7/8&quot;</td>
<td>120X</td>
</tr>
<tr>
<td>66X78220CB</td>
<td>6&quot; x 7/8&quot;</td>
<td>220X</td>
</tr>
<tr>
<td>66X78400CB</td>
<td>6&quot; x 7/8&quot;</td>
<td>400X</td>
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<tr>
<td>76X7660CB</td>
<td>7&quot; x 7/8&quot;</td>
<td>60X</td>
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<tr>
<td>76X7860CB</td>
<td>7&quot; x 7/8&quot;</td>
<td>80X</td>
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<tr>
<td>76X78120CB</td>
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<td>7&quot; x 7/8&quot;</td>
<td>220X</td>
</tr>
<tr>
<td>76X78400CB</td>
<td>7&quot; x 7/8&quot;</td>
<td>400X</td>
</tr>
</tbody>
</table>

All sizes and grits may be combined for quantity pricing. *Size is defined as overall diameter and center hole size.

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com

TOLL FREE FAX (800) 262-3299 w w w . c r l a u r e n c e . c o m TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
CRL 4" x 106" Upright Wet Belt Sander

• 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.

CRL Belt Guard Safety Shield for GL4W and CN4106 Sanders

• 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.

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.
CRL POWR Edger™ Single Spindle Automatic Glass Edging Machine

- 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

### 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

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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 conveyor 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

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### PE11 SINGLE SPINDLE PERIPHERAL EDGER WHEELS

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>DIAMETER</th>
<th>GRIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEW1814PE</td>
<td>Pencil Edge for 1/8” to 1/4” Glass</td>
<td>7”</td>
<td>140-170</td>
</tr>
<tr>
<td>PEW31638PE</td>
<td>Pencil Edge for 3/16” to 3/8” Glass</td>
<td>7”</td>
<td>140-170</td>
</tr>
<tr>
<td>PEW1412PE</td>
<td>Pencil Edge for 1/4” to 1/2” Glass</td>
<td>7”</td>
<td>140-170</td>
</tr>
<tr>
<td>PEW1814FE</td>
<td>Rat &amp; Seam Edge for 1/8” to 1/4” Glass</td>
<td>7”</td>
<td>140-170</td>
</tr>
<tr>
<td>PEW31638FE</td>
<td>Rat &amp; Seam Edge for 13/16” to 3/8” Glass</td>
<td>7”</td>
<td>140-170</td>
</tr>
<tr>
<td>PEW1412FE</td>
<td>Rat &amp; Seam Edge for 1/4” to 1/2” Glass</td>
<td>7”</td>
<td>140-170</td>
</tr>
<tr>
<td>PEWPOL</td>
<td>3/4” width Polishing Wheel for 1/8” to 1/2” Glass</td>
<td>7-1/4”</td>
<td>120</td>
</tr>
</tbody>
</table>
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

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. EZE2KIT) for 1/4" (6 mm) Glass, or separately with a wide range of optional components.

CRL Glastar Studio Beveling System

- Diamond Technology Makes This System Compact and Productive

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**

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZE2KIT*</td>
<td>Includes: One EZE2000 Edger for Circular Glass, One EZE3620 Submersible Coolant Pump and Tank, One EZE926F 1/4&quot; Glass Fine Grit Edge Wheel, and One EZE924C 1/4&quot; Glass Polishing Wheel.</td>
</tr>
<tr>
<td>EZE2000</td>
<td>E-Z 110 Volt Edger for Circular Glass (Machine Only)</td>
</tr>
<tr>
<td>EZE2001</td>
<td>E-Z 220 Volt Edger for Circular Glass (Machine Only)</td>
</tr>
<tr>
<td>EZE3620</td>
<td>110 Volt Submersible Coolant Pump and Tank</td>
</tr>
<tr>
<td>EZE3640</td>
<td>220 Volt Submersible Coolant Pump and Tank</td>
</tr>
<tr>
<td>EZE1925M</td>
<td>1/8&quot; Glass Medium Grit Edge Wheel (EZE1925M)</td>
</tr>
<tr>
<td>EZE1926F</td>
<td>1/8&quot; Glass Fine Grit Edge Wheel (EZE1926F)</td>
</tr>
<tr>
<td>EZE2923M</td>
<td>3/16&quot; Glass Medium Grit Edge Wheel (EZE2923M)</td>
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<tr>
<td>EZE2924F</td>
<td>3/16&quot; Glass Fine Grit Edge Wheel (EZE2924F)</td>
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<td>EZE4922M</td>
<td>1/4&quot; Glass Medium Grit Edge Wheel (EZE4922M)</td>
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<tr>
<td>EZE4926F</td>
<td>1/4&quot; Glass Fine Grit Edge Wheel (EZE4926F)</td>
</tr>
<tr>
<td>EZE9220M</td>
<td>3/8&quot; Glass Medium Grit Edge Wheel (EZE9220M)</td>
</tr>
<tr>
<td>EZE921F</td>
<td>3/8&quot; Glass Fine Grit Edge Wheel (EZE921F)</td>
</tr>
<tr>
<td>EZE934M</td>
<td>1/2&quot; Glass Medium Grit Edge Wheel (EZE934M)</td>
</tr>
<tr>
<td>EZE935F</td>
<td>1/2&quot; Glass Fine Grit Edge Wheel (EZE935F)</td>
</tr>
<tr>
<td>EZE942A</td>
<td>1/8&quot;-3/16&quot; Glass Polishing Wheel (EZE942A)</td>
</tr>
<tr>
<td>EZE942C</td>
<td>1/4&quot; Glass Polishing Wheel (EZE942C)</td>
</tr>
<tr>
<td>EZE942E</td>
<td>3/8&quot; Glass Polishing Wheel (EZE942E)</td>
</tr>
<tr>
<td>EZE942G</td>
<td>1/2&quot; Glass Polishing Wheel (EZE942G)</td>
</tr>
<tr>
<td>EZE98920</td>
<td>Work Bench for E-Z Edger</td>
</tr>
</tbody>
</table>

*F.O.B. CRL Warehouses. All others F.O.B. Westerville, Oh.
CRL POWR-Grip Textured Surface Vacuum Cup

- **8" Diameter Cup Specifically Designed for Patterned or Irregular Glass**
- **Made of Soft 35 Durometer Rubber**

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.

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.

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 vacuum cup. Contact CRL Technical Sales at (800) 421-6144, Ext. 777 for more information. Another product available exclusively through CRL!
NEW

CRL Veribor Blue Line Lever-Actuated Vacuum Cups

- Four Models to Choose From
- Durable Metal Construction

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION NO.</th>
<th>NO. OF CUPS</th>
<th>WEIGHT CAPACITY*</th>
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<tbody>
<tr>
<td>6000VB</td>
<td>Single Lever Vacuum Cup</td>
<td>1</td>
<td>66 lbs. (30kg)</td>
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<tr>
<td>6024VB</td>
<td>Double Vacuum Cup</td>
<td>2</td>
<td>132 lbs. (60kg)</td>
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<tr>
<td>6020VB</td>
<td>Cross-Handle Vacuum Cup</td>
<td>2</td>
<td>154 lbs. (70kg)</td>
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<tr>
<td>6030VB</td>
<td>Triple Vacuum Cup</td>
<td>3</td>
<td>220 lbs. (100kg)</td>
</tr>
<tr>
<td>V612</td>
<td>Replacement Rubber Pad and Trigger</td>
<td></td>
<td>Fits All Cups Above</td>
</tr>
</tbody>
</table>

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!

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).

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.

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 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.

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).

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.

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE</th>
<th>QTY. PER ROLL</th>
</tr>
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<tbody>
<tr>
<td>PNA12B</td>
<td>1/4&quot; X 1/2&quot; X 1/2&quot;</td>
<td>10,000</td>
</tr>
<tr>
<td>PNA58B</td>
<td>3/16&quot; X 5/8&quot; X 5/8&quot;</td>
<td>5,000</td>
</tr>
<tr>
<td>PNA34B</td>
<td>1/4&quot; X 3/4&quot; X 3/4&quot;</td>
<td>5,000</td>
</tr>
</tbody>
</table>

Minimum order is roll quantity.
CRL Glasstrax Glass Dolly

- 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

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.

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>HEIGHT</th>
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</thead>
<tbody>
<tr>
<td>13063</td>
<td>36”</td>
<td>5”</td>
<td>6-3/4”</td>
</tr>
<tr>
<td>13065</td>
<td>60”</td>
<td>5”</td>
<td>6-3/4”</td>
</tr>
<tr>
<td>13066</td>
<td>72”</td>
<td>5”</td>
<td>6-3/4”</td>
</tr>
</tbody>
</table>

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

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 SUVs 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

Tie Down
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.

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.

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.
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

The CRL E.Z.D. Glazer De-Glazing 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.

CRL Double Hung Window Hackout Tool

- Speeds Hackout Time to Save You Money
- Comfortable Rubber Coated Handle

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

- Hacks Out Old Putty Fast
- Sharp Precision Ground Blade

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”.

Contact CRL Technical Sales at (800) 421-6144, Ext. 777 for more info.
CRL D-Flex® Cut Resistant Glass Handling Gloves and Sleeves
• 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® Gloves 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.

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<thead>
<tr>
<th>CAT NO.</th>
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<tbody>
<tr>
<td>910CM</td>
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<table>
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<td>Large</td>
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<tr>
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</tbody>
</table>

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.

<table>
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<tr>
<td>962FDS</td>
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<td>Medium</td>
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<tr>
<td>Large</td>
</tr>
<tr>
<td>X-Large</td>
</tr>
</tbody>
</table>

The CRL Atlas Fit Glove is perfect for lifting situations where hand protection is needed. The poly/cotton glove is latex coated 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.

<table>
<thead>
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<tr>
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<tr>
<td>Medium</td>
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<tr>
<td>Large</td>
</tr>
<tr>
<td>X-Large</td>
</tr>
</tbody>
</table>
**CRL Glass and Material Handling Gloves**

- **Natural Rubber Palm and Fingers**
  - 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**
  - 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.

**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.

**CRL Canes 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.

**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.
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

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 KEVLR® JACKETS

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<tr>
<th>CHEST MEASUREMENT</th>
<th>SLEEVE LENGTH</th>
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<td>52&quot; (132 cm)</td>
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<td>54&quot; (137 cm)</td>
<td>35&quot; (89 cm)</td>
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<td></td>
</tr>
</tbody>
</table>

*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.*

### CRL Kevbest® Protective Sleeves

- Top Notch Fabric with Metal Grommets for Safety

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.

<table>
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<tr>
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<th>SLEEVE LENGTH</th>
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<td>S30KV27</td>
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<tr>
<td>S30KV29</td>
<td>29&quot; (74 cm)</td>
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Sizes can be combined for quantity pricing.

### 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.

<table>
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<td>L49TC38</td>
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Sizes can be combined for quantity pricing.
CRL Radians® Safety Eye Wear

**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.

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.

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.

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.

Replaceable Jelli™ Plugs are non-toxic and washable, and fit both Radians® AV and Radians® Sabres™. Sold by the pair.

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.

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.

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.
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”

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”.

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<td>TTE158</td>
<td>34” to 158”</td>
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<tr>
<td>TTE197</td>
<td>42” to 197”</td>
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</table>

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.

<table>
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<td>TT500</td>
<td>Maxi</td>
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</table>

All measuring devices on this page can be combined for quantity pricing.

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

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 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.

<table>
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<th>DESCRIPTION</th>
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<tr>
<td>TTMM1</td>
<td>Memory Module</td>
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CRL “Angletronic” Measuring Tool

- An Electronic Version of the “Anglefix” Measuring Tool
- Storable Up to 56 Measurements
- Changeable Measuring Point
- Battery Saving Automatic Shut-Off Feature

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.

<table>
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<tr>
<th>CAT NO.</th>
<th>LEG LENGTH</th>
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<tr>
<td>TT505</td>
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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

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.

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

- 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 Rafter
- 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™

- 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.

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.
CRL PLS2 Palm Laser®

• 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

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

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.

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

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.
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).

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).

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).
CRL QuickBlade Utility Knife

- Quick, Easy Blade Changing
- Spring Loaded Hinged Body

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

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

- Slits Films and Sheet Material Up to 1/8"
- High Density Plastic Handle

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.

CRL Ergo-Fold™ 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.

CRL Swift Switch Retractable Utility Knife with Holster

- No Tools Required to Change Blades
- Belt Clip Holster Keeps Knife Handy

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

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 Olfa Knives and Blades

**Heavy-Duty Retractable Point Knife**
- All Purpose Knife

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2K</td>
<td>Heavy-Duty Knife</td>
<td>10</td>
</tr>
</tbody>
</table>

Can be combined with other utility knives for quantity pricing.

**Super Heavy-Duty Knife**
- Large 1” Wide Blade

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1K</td>
<td>Super Heavy-Duty Knife</td>
<td>10 Breakaway Blades</td>
</tr>
<tr>
<td>H6SB</td>
<td>5 Breakaway Blades</td>
<td>100 Blade Dispenser</td>
</tr>
</tbody>
</table>

Can be combined with other utility knives for quantity pricing.

**Compact Knife**
- Fits In Shirt Pocket

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVR1</td>
<td>Compact Knife</td>
<td>10 Breakaway Blades</td>
</tr>
<tr>
<td>AB10S</td>
<td>10 Breakaway Blades</td>
<td>100 Blade Dispenser</td>
</tr>
</tbody>
</table>

Can be combined with other utility knives for quantity pricing.

**Plastic Cutter Knife**
- Cuts .100” and .125” Thick Plastic

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>P800</td>
<td>Plastic Cutter Knife</td>
<td>3 Plastic Cutter Blades</td>
</tr>
<tr>
<td>PB800</td>
<td>3 Plastic Cutter Blades</td>
<td>100 Blade Dispenser</td>
</tr>
</tbody>
</table>

Can be combined with other utility knives for quantity pricing.

**Long Reach Retractable Point Knife**
- Reaches Bottom of Windshield

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>XL2</td>
<td>Long Reach Knife</td>
<td>10 Solid Blades</td>
</tr>
</tbody>
</table>

Can be combined with other utility knives for quantity pricing.

**Replacement Blades**
- Blades Fit L2K and XL2 Knives

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB10B</td>
<td>10 Breakaway Blades</td>
<td>20 Each 5-Pack Blades</td>
</tr>
<tr>
<td>LS0L</td>
<td>10 Solid Blades</td>
<td>100 Blade Dispenser</td>
</tr>
</tbody>
</table>

Can be combined 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST10399</td>
<td>Swivel-Lock Utility Knife</td>
<td>100 Blade Dispenser</td>
</tr>
</tbody>
</table>

Can be combined with other utility knives for quantity pricing.

**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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1993X10</td>
<td>10 Blade Dispenser</td>
<td>10 Blade Dispenser</td>
</tr>
</tbody>
</table>

Can be combined with other utility knives 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>BLADE TYPE</th>
<th>QTY./PKG.</th>
<th>PACKAGING TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991C</td>
<td>Standard</td>
<td>100 20 Each 5-Pack Blades</td>
<td></td>
</tr>
<tr>
<td>1991X10</td>
<td>Standard</td>
<td>10 10 Blade Dispenser</td>
<td></td>
</tr>
<tr>
<td>1992C</td>
<td>Heavy-Duty</td>
<td>100 100 Blade Dispenser</td>
<td></td>
</tr>
<tr>
<td>1992X10</td>
<td>Heavy-Duty</td>
<td>10 10 Blade Dispenser</td>
<td></td>
</tr>
<tr>
<td>1996C</td>
<td>Hook End</td>
<td>100 20 Each 5-Pack Blades</td>
<td></td>
</tr>
<tr>
<td>1996X10</td>
<td>Hook End</td>
<td>10 10 Blade Dispenser</td>
<td></td>
</tr>
</tbody>
</table>

10 packs can be combined for quantity pricing. 100 blade dispensers can be combined for quantity pricing.

Contact CRL Technical Sales at (800) 421-6144, Ext. 777 for more info.

TOLL FREE FAX (800) 262-3299  www.crlaurence.com  TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
## 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.

---

## 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!

---

## 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.

---

## 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.

---

## CRL Bit Caddy

- Holds Up to 37 Hex Insert Bits
- Center Slot Holds Magnetic Adapter

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

- Can be combined for quantity pricing

- 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.
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

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 fastener, 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%

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 Universal Pressure Drill Diagram]

- Shows the correct amount of pressure necessary for a drill bit to cut
- Shows the amount of pressure you exert when drilling with the UPD1

![CRL Makita 3/8" Cordless Driver/Drill Diagram]

CAT. NO. UPD1

![CRL Stanley MaxGrip™ Locking Adjustable Wrench Diagram]
**CRL Toolzall™ Multi-Purpose Tool**
- 13 Tools in One
- Comfort Grip Handles
- Protective Belt Sheath

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

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.

**CRL Heavy-Duty Razor Scraper**
- Holds 51S Single Edge or CP866088 Plastic Razor Blades
- Comes with One Metal and One Plastic Razor Blade

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

"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.

**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.
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.

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.

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.

CRL Bucket Stackers
- Molded Trays with Separators to Keep Small Parts Organized
- Convenient Grab Handle for Easy Carrying
- Easy to Find Bright Yellow Color

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 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.

CRL Pro Pads™ Knee Pads
- Provide Protection and Comfort While Kneeling
- One Size Fits All

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 Parachute Bag
- Separates and Organizes Small Parts
- Automatically Closes When Lifted
- Flat Bottom Design Prevents Tipping

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 Putty Softener

- Safe, Solid Calrod Style Heating Element

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 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

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 Putty Remover

- 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 Barreltop Work Center

- Portable Work Center
- Convenient and Lightweight
- Extremely Durable

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.

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.

CRL Window Frame Extractor

- 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 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>SIZE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2025AV</td>
<td>2.5 Lb.</td>
<td>22-Piece Squeeze Wrench Set</td>
</tr>
<tr>
<td>2100AH</td>
<td>10 Lb.</td>
<td>22-Piece Squeeze Wrench Set</td>
</tr>
</tbody>
</table>

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 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

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.

CAT. NO. DESCRIPTION
K60W18 18’ x 825’ Kraft Paper
K60W36 36’ x 825’ Kraft Paper
A50018 18’ Paper Dispenser
A50036 36’ Paper Dispenser

CRL Kraft Paper and 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 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

CRL 22-Piece Squeeze Wrench Set

• Gets Into Tight Places
• Made in the U.S.A.

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 an Allen wrench or 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-Head Turns Without Moving the Wrench

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.

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 break age (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.

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.

CRL Ratchet Tie-Downs

- Easy Release Ratchet
- Greater Holding Tension
- Vinyl Coated Hooks
- Fully Adjustable 6 Foot Straps

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.

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.
## 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

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR20T</td>
<td>Heavy-Duty Glue Gun</td>
</tr>
</tbody>
</table>

## 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

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR90C</td>
<td>Cord-Free Glue Gun</td>
</tr>
</tbody>
</table>

## CRL Dual Temperature Glue Gun

- **Temperature Setting in Handle**

  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

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR25DT</td>
<td>Dual Temperature Glue Gun</td>
</tr>
</tbody>
</table>

## CRL Glue Sticks

- **Three Types to Choose From**

  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 |

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>Description</th>
<th>QTY/PK</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS500BK</td>
<td>All Purpose Glue Sticks</td>
<td>30</td>
</tr>
<tr>
<td>GS234BK</td>
<td>Clear Drying Glue Sticks</td>
<td>30</td>
</tr>
<tr>
<td>GS264BK</td>
<td>Slow Setting Glue Sticks</td>
<td>30</td>
</tr>
</tbody>
</table>

## CRL Tungsten Carbide Circular Saw Blade

- **7” Diameter Coarse Blade**

  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

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>MAX RPM</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>GC703</td>
<td>6500</td>
<td>7” Circular Saw Blade</td>
</tr>
</tbody>
</table>

## CRL Jig and Reciprocating “Grit Edge” Saw Blades

- **Heat Resistant**

  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 operations. A 50% tighter cutting radius can be achieved using these blades.

### CAT. No. GR1010

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>GRIT EDGE</th>
<th>TYPE</th>
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<tbody>
<tr>
<td>J1010</td>
<td>2-3/16”</td>
<td>Jig Saw</td>
<td>Coarse</td>
</tr>
<tr>
<td>GR2010</td>
<td>3-1/16”</td>
<td>Reciprocating Saw</td>
<td>Coarse</td>
</tr>
</tbody>
</table>

## 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

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>STRAP LENGTH</th>
<th>MAX. BUNDLE DIAMETER</th>
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</thead>
<tbody>
<tr>
<td>NT40</td>
<td>4&quot; (102 mm)</td>
<td>.875” (22 mm)</td>
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<tr>
<td>NT56</td>
<td>5.6” (142 mm)</td>
<td>1.250” (32 mm)</td>
</tr>
<tr>
<td>NT75</td>
<td>7.5” (190 mm)</td>
<td>1.875” (48 mm)</td>
</tr>
<tr>
<td>NT111</td>
<td>11.25” (286 mm)</td>
<td>3.062” (78 mm)</td>
</tr>
</tbody>
</table>

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

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; 30 Cartridges Per Case

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.

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10.3 Fl.Oz. Cartridges; 30 Cartridges Per Case
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
- Same Professional Formula as Our 33S Silicone Handy 3 Ounce Tubes
- AAMA Spec. 808.3-92
- ASTM C920 Standard Specification for Elastomeric Joint Sealants as Type S, Grade NS, Class 25, Use NT, G, and A
- T T-S-00230C (COM-NBS) Class A Non-Sag for Silicone Building Sealants
- T T-S-001543 (COM-NBS) Class A for Silicone Building Sealants

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.

Features of RTV408 include:

- RTV408 White and Tan
- RTV408 Black
- RTV408 Bronze
- RTV408 Beige
- RTV408 Tan
- RTV408 Clear
- RTV408 White
- RTV408 Tan
- RTV408 Beige
- RTV408 Clear

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
- AAMA Spec. 808.3-92

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 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.

CRL Small Tube Dispenser Handle

- Makes Small Tubes of Sealant or Caulking Easy to Dispense

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.

For additional information, contact CRL Technical Sales at (800) 421-6144, Ext. 777.
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 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 curtain walls; 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, polyurethanes, and butyls.

**NOTE:** 95C is not intended for structural glazing usage.

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

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. 9542GL should be used with Cat. No. 50052 Bulk Sealant Dispenser; Cat. No. 954252GL should be used with Cat. No. 70855 Bulk Sealant Dispenser.
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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CARTRIDGE SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCS1</td>
<td>10.3 fl. oz.</td>
</tr>
<tr>
<td>WCS5</td>
<td>5 fl. oz.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC1C</td>
<td>Clear</td>
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<tr>
<td>DC1W</td>
<td>White</td>
</tr>
<tr>
<td>DC1AL</td>
<td>Aluminum</td>
</tr>
<tr>
<td>DC1BL</td>
<td>Black</td>
</tr>
<tr>
<td>DC1BRZ</td>
<td>Bronze</td>
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</table>

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 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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC1P</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
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<tbody>
<tr>
<td>DC1C</td>
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<tr>
<td>DC1W</td>
<td>White</td>
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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 insulated and laminated glass, and is ideally suited for sash, frame or joint sealing for storefronts and residential structures.
Introducing Tremco Performance Silicones

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

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:

CAT. NO. 946802
COLOR Black
10.1 FL. OZ. CARTRIDGES - 30 PER CASE
CAP. NO. 946811
COLOR Precast White
CAP. NO. 946851
COLOR Aluminum Stone

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:

CAT. NO. 947802
COLOR Black
10.1 FL. OZ. CARTRIDGES - 30 PER CASE
CAP. NO. 947806
COLOR White
CAP. NO. 947852
COLOR Gray

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:

CAT. NO. 968802
COLOR Black
10.1 FL. OZ. CARTRIDGES - 30 PER CASE
CAP. NO. 968806
COLOR Precast White
CAP. NO. 968878
COLOR Anodized Aluminum

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:**

**CAT. NO.**
- 942800  • Clear
- 942806  • White
- 942802  • Black
- 942810  • Aluminum
- 942857  • Dark Bronze

All cartridge sealants can be combined for quantity pricing.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

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:**

**CAT. NO.**
- 951802  • Black

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

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:**

**CAT. NO.**
- 9718004  • Clear
- 9718064  • White
- 9718024  • Black
- 9718104  • Aluminum
- 9718574  • Dark Bronze

All cartridge sealants can be combined for quantity pricing.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE

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:**

**CAT. NO.**
- 944800  • Clear
- 944806  • White
- 944807  • Buff

All cartridge sealants can be combined for quantity pricing.

10.1 FL. OZ. CARTRIDGES - 30 PER CASE
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.

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.

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.
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

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.

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

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.

CRL Vul kem® 116 Polyurethane Sealant

- One-Part Grainy Textured Finish
- Durable and Flexible Seal
- Primerless Adhesion on Most Common Construction Surfaces

CRL Vul kem® 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.
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), CG485G (cordless) or W6100620 (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.

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.


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® Sonlastic 150 Sealants; Picorol® Dynatrol 1 Sealant; OSI® PR-255 Sealant; Schnee Morehead 7100 Sealant; Somaca One-Part Polyurethane Sealant; Bestik® Chem-Calk 900 Sealant.

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>COLOR</th>
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<tbody>
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<td>777W</td>
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<tr>
<td>777BL</td>
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<td>777BZ</td>
<td>Bronze</td>
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<td>777GRY</td>
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</table>

Meets Federal Specifications TT-S-001657, Type 1 and TT-C00598C; TT-C-1796A; ASTM C1311; AAMA 808.3; USDA Certified. All cartridge sealants can be combined for quantity pricing.

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<tbody>
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<td>888LBFRZ</td>
<td>Black/Bronze</td>
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<tr>
<td>888GRY</td>
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</tbody>
</table>

Meets Federal Specifications TT-S-001657; TT-C00598C; TT-C-1796A; ASTM C1085; ASTM C1311; AAMA 808.3. All cartridge sealants can be combined for quantity pricing.
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.

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.

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.

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.
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.

CRL Backer Rod Insert Tool Set
• Easily Install Closed or Open Cell Backer Rod

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 Sealant Finishing Tool
• Titanium Catalyst Material Won’t Stick to Sealant
• Lightweight and Flexible Tool Simplifies Tooling of Sealant

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
• 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.
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

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 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!

CRL Fein Sealant Cutter Knife

- Removes Old, Hardened Caulk Quickly and Easily
- Variable Speed Blade Oscillates Up to 22,000 Times per Minute

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.

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

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.

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.
## SEALANTS AND ADHESIVES

### 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

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

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.

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Ratio</th>
<th>Features</th>
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</thead>
<tbody>
<tr>
<td>CRL Chilton 12 to 1 Ratio Caulking Gun</td>
<td>12:1</td>
<td>Heavy Duty Strap Frame Gun, Our Most Popular Model</td>
</tr>
<tr>
<td>CRL Extra Thrust 18 to 1 Ratio Caulking Gun</td>
<td>18:1</td>
<td>Ideal for Use in Cold Weather or with High Viscosity Sealants</td>
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<tr>
<td>CRL Deluxe Ascot 26 to 1 Ratio Caulking Gun</td>
<td>26:1</td>
<td>Effortless Dispensing of High Viscosity Sealants, New Stronger Frame Design</td>
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<tr>
<td>CRL Air Power 20 Ounce Sausage Caulking Gun</td>
<td>20:1</td>
<td>Dispenses Standard Cartridges and 10 Ounce Sausage Packs</td>
</tr>
<tr>
<td>CRL Piston Rod Air Caulking Gun</td>
<td>20:1</td>
<td>Dispenses Standard Cartridges and 10 Ounce Sausage Packs</td>
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<tr>
<td>CRL Powerglide No-Drip Caulking Gun</td>
<td>20:1</td>
<td>Stops Drips Automatically, Dual Power Settings: No Drip or Power Thrust</td>
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<tr>
<td>CRL Vacuum Action No-Drip Caulking Gun</td>
<td>20:1</td>
<td>Stops Drips Automatically, No Mess Caulking, Heavy Steel Cradle Style Frame</td>
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</table>

### Additional Information

- **Rubber Gasket**: 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.

All manual caulking guns can be combined for quantity pricing.

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**For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com**

**TOLL FREE FAX (800) 262-3299 | www.crlaurence.com | TOLL FREE PHONE (800) 421-6144**

**ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.**

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**F346**
CRL Cordless Caulking Guns

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

• 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

**NEW**

<table>
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<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
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<tbody>
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<td>CG48*</td>
<td>4.8 Volt Cordless Caulking Gun Kit</td>
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<tr>
<td>CG48B</td>
<td>4.8 Volt DC Battery Pack</td>
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<tr>
<td>CG48C</td>
<td>Battery Charger</td>
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* 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.

CRL 4.8 Volt Variable Speed Cordless Sausage/Cartridge Caulking Gun Kit

• 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

**NEW**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>CG48SG*</td>
<td>4.8 Volt Cordless Sausage/Cartridge Caulking Gun Kit</td>
</tr>
<tr>
<td>CG48B</td>
<td>4.8 Volt DC Battery Pack</td>
</tr>
<tr>
<td>CG48C</td>
<td>Battery Charger</td>
</tr>
</tbody>
</table>

* CG48SG includes one gun, battery, charger and molded case.

• 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.

CRL 2.4 Volt Single Speed Cordless Caulking Gun

• 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

**NEW**

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
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<tr>
<td>CG241S*</td>
<td>2.4V Single Speed Cordless Caulking Gun Kit</td>
</tr>
<tr>
<td>CG24B</td>
<td>2.4 Volt DC Battery Pack</td>
</tr>
<tr>
<td>CG24C</td>
<td>Battery Charger</td>
</tr>
</tbody>
</table>

* 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.
CRL Shimstack Shims

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: 100 Shims.

CRL Clear Plastic Horseshoe Shims

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.

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

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.

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.

CAT. NO. TYPE SHIMS/CTN.
NWS9 White Wood 420 Shims
NWS9C Cedar 432 Shims

Types can be combined for quantity pricing. Minimum order: One Carton.

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".

CAT. NO. TYPE SHIMS/CTN.
NWC88 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.

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.

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.

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.

CRL EZ-Anchors
- Self Drilling, One Piece Anchors for Mounting to Gypsum Wallboard
- Secure and Removable

The original EZ-Anchor 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.
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 interior 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 cooling 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"; cord is standard. Optional 115V AC power pack is also available.

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.

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.

CRL Calk-Ease™ Caulk Finishing Tool
- Made from Tough Polyethylene

Calk-Easing 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.

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

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.

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.

CRL Digesil NC Gel
- CAT. NO. DGEL10
- DESCRIPTION 10.5 FT. QL.
- QTY./CASE 12

P60
- DESCRIPTION Portable Hot/Cold Chest
- QTY./CASE 12

PAC15
- DESCRIPTION 110V AC to 12V DC Converter
- QTY./CASE 12

CRL Silicone Clean Up Kit
- CAT. NO. CK1T2
- DESCRIPTION Silicone Clean Up Kit (Cleaner, Pads, Wipes)

OS2
- DESCRIPTION Silicone Cleaner/Surface Prep (10.3 Ounce Can)

NP48
- DESCRIPTION 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.

CRL Optically Clear U.V. Adhesive

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.

CRL Smart Glue® 2-Part Epoxy Gel

- 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 the 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 or tear 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.

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.

CRL Weld-On Acrylic Adhesive and Applicator Bottle

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.

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.
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

**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.

**CRL Transparent Acrylic Very Hi-Bond Adhesive Tape**

- Water Clear
- Available in Two Widths

**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. Shell life is one year when properly stored.

**CRL Translucent Acrylic Very Hi-Bond Adhesive Tape**

- Translucent Appearance
- Available In Four Widths

Sizes can be combined for quantity pricing.

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**CRL’s Transparent Acrylic Very Hi-Bond Tape**

**CRL Translucent Acrylic Very Hi-Bond Adhesive Tape**

**CAT. NO. WIDTH THICKNESS LENGTH ROLLS/CASE**

<table>
<thead>
<tr>
<th>CAT.NO.</th>
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<th>THICKNESS</th>
<th>LENGTH</th>
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<td>36</td>
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<td>.040”</td>
<td>108 Ft</td>
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<td>36 Ft</td>
<td>36</td>
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<td>AT02014</td>
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<td>216 Ft</td>
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<td>AT0201436</td>
<td>1/4”</td>
<td>.020”</td>
<td>36 Ft</td>
<td>36</td>
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</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>COLOR</th>
<th>THICKNESS</th>
<th>SHIM DIAMETER</th>
<th>WIDTH</th>
<th>FEET/ROLL</th>
<th>ROLLS/CASE</th>
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<td>7241XC1</td>
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<td>3/8&quot;</td>
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</tbody>
</table>

Sizes can be combined for quantity pricing. Minimum order 32 rolls.

CRL Tremco Pre-Shimmed Butyl Architectural Tape

• 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.

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

Four Powerful Glass Cleaners to Fit Every Need

<table>
<thead>
<tr>
<th>CAT. NO. S50</th>
<th>CAT. NO. 1973</th>
<th>CAT. NO. 2000</th>
<th>CAT. NO. CRL18X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia Free</td>
<td>Long Time</td>
<td>Newest Formula</td>
<td>Our Best All Purpose</td>
</tr>
<tr>
<td>Spray and Wipe Clean</td>
<td>Favorite of the Glass Industry</td>
<td>Formulation Has Added Ammonia</td>
<td>Glass Cleaner for Around the House</td>
</tr>
<tr>
<td>Fast Evaporation</td>
<td>Low-Ammoniated</td>
<td>for Maximum Strength</td>
<td>Extra Strong Ammonia Free</td>
</tr>
</tbody>
</table>

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.

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.

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.

Use extra strong, ammonia free CRL18X Cleaner on glass, mirror, porcelain, metal, 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.

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 Formulations, 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

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.

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.

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.

CRL Anti-Fog Spray

- 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).
CLEANING PRODUCTS

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

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.

CRL Sprayway Pre-Moistened Glass Cleaner Wipes

- 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

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 Sprayway Pre-Moistened Glass Cleaner Wipes

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>WIPES/TUB</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW95</td>
<td>Pre-Moistened Glass Cleaner Wipes</td>
<td>70</td>
</tr>
</tbody>
</table>
CRL Kimberly-Clark® Naturally Tuff® Orange Hand Cleaner with Grit

• 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. K91035GL
CONTENTS
K91035GL
One Gallon

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® Sani-Tuff® Waterless Hand Wipes

• Grit Cleaning Power Without the Abrasion
• Fast Cleaning

On the job, on the go, however your hands get griny, we’ve got the way.

CAT. NO. K91341

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. K41702
DESCRIPTION
Workhorse® X70 Manufactured Rags
QTY/CASE
3 Rolls

CAT. NO. K09025
DESCRIPTION
Center Pull Dispenser
QTY/CASE
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. 0101380
DESCRIPTION
Single Sheet Maxi-Wipes
QTY/PKG.
110

0101311
Single Sheet Maxi-Wipes
2 Rolls

0101353
Center Pull Dispenser
1 Each

For additional information, contact CRL
Technical Sales at (800) 421-6144, Ext 777

TOLL FREE FAX (800) 262-3299            w w w. c r l a u r e n c e. c o m            TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE.  ■ CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA.  ■ PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
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.

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).

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.

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.

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.

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, feltizers, stamp pad and fountain inks. Pistol grip bottles are attractive for over-the-counter sales.

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.
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

CAT NO. CONTENTS QTY./CASE
CRL18X 19 Oz. 12

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

CAT NO. CONTENTS QTY./CASE
SW841 15 Oz. 12

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
SW836 11 Oz. 12

CAT NO. CONTENTS QTY./CASE
SW835 15 Oz. 12

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
SW835 15 Oz. 12

CAT NO. CONTENTS QTY./CASE
SW836 11 Oz. 12
CLEANING PRODUCTS

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

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<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
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<tbody>
<tr>
<td>PRO2</td>
<td>10.75 Oz.</td>
<td>12</td>
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</table>

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
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</thead>
<tbody>
<tr>
<td>1200</td>
<td>11 Oz.</td>
<td>12</td>
</tr>
</tbody>
</table>

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

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<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
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<tbody>
<tr>
<td>CRL715</td>
<td>11 Oz.</td>
<td>12</td>
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</table>

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

<table>
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<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
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<tbody>
<tr>
<td>CPL960</td>
<td>13 Oz.</td>
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</table>

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

<table>
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<tr>
<th>CAT. NO.</th>
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<th>QTY./CASE</th>
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<tbody>
<tr>
<td>CRL958</td>
<td>14 Oz.</td>
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</table>

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

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<tr>
<th>CAT. NO.</th>
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<th>QTY./CASE</th>
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<tbody>
<tr>
<td>SW77</td>
<td>12 Oz.</td>
<td>12</td>
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</table>

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

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<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
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<tbody>
<tr>
<td>S732</td>
<td>20 Oz.</td>
<td>12</td>
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</tbody>
</table>

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

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<tr>
<th>CAT. NO.</th>
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<th>QTY./CASE</th>
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<tbody>
<tr>
<td>SW050</td>
<td>16 Oz.</td>
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</tbody>
</table>

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

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

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

Sprayway Multi-Purpose Spray Adhesive

• Heavier-Bodyd Industrial Grade Spray Adhesive
• Makes Permanent or Temporary Bonds on a Variety of Materials
• High Coverage and Repositionable

CRL Freeze-It Spray

• Freeze Glass to Run Scored Circles in Glass with No Flares
• Environmentally Safe Propellant

Sprayway Cleanjet 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

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
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

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.

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

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.
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.

<table>
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<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
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<tbody>
<tr>
<td>PWR4P</td>
<td>4 Fl. Oz.</td>
<td>6</td>
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</table>

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.

<table>
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<tr>
<th>CAT. NO.</th>
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<th>QTY./CASE</th>
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<tbody>
<tr>
<td>PWR12P</td>
<td>4 Fl. Oz.</td>
<td>6</td>
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</tbody>
</table>

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.

<table>
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<tr>
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<th>QTY./CASE</th>
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<tbody>
<tr>
<td>PWR4GC</td>
<td>4 Fl. Oz.</td>
<td>6</td>
</tr>
</tbody>
</table>

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.

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<tr>
<th>CAT. NO.</th>
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<tbody>
<tr>
<td>PWR22</td>
<td>19 Oz.</td>
<td>12 Cans</td>
</tr>
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</table>

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.

<table>
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<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
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<tbody>
<tr>
<td>CRL99WB</td>
<td>WIPES/BUCKET</td>
<td>72</td>
</tr>
</tbody>
</table>
CRL POWR 700 Series High Modulus/Low Conductive Urethane Adhesive

- Required on Most Auto Glass with Embedded Antennas, Most Aluminum Bodied Vehicles, or Vehicles Which Feature High Modulus Glass Retention Systems
- LYNX Approved

CRL POWR750 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. POWR750 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 POWR750 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 POWR750 to help prevent signal loss.

CRL POWR 700 Series Heated Urethane Adhesive

- 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 POWR700 is specially formulated as a safe, fast alternative to room temperature applied one-component urethanes. CRL POWR700 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. POWR700 meets or exceeds FMVSS 212 and 216 in approximately 30 minutes. Recommended for use with our Urethane Heater Ovens (below) for quick heating.

CRL Urethane Heater Ovens

- Preheats Urethane to Desired Working Temperature in One Hour
- Available in 120V AC or 12V DC Models

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.

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com
CRL POWR Primerless 300 Series High Viscosity Urethane Adhesive

- Primerless-to-Glass
- Accelerated Cure

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.

CRL POWR Primerless 300 Series Medium Viscosity Urethane Adhesive

- Primerless-to-Glass
- Accelerated Cure

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.

CRL POWR Primerless 300 Series High Modulus/Low Conductive Urethane Adhesive

- Primerless-to-Glass
- Accelerated Cure

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.

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.

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.
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.

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.

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.

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.
CRL Titan 700HV Auto Glass Replacement Adhesive

• 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>T700HV*</td>
<td>Dual Cartridge of Adhesive</td>
<td>10</td>
</tr>
<tr>
<td>T1218T</td>
<td>Mixer Nozzle for Cartridge</td>
<td>1</td>
</tr>
<tr>
<td>T904N</td>
<td>Retaining Nut to Hold Nozzle</td>
<td>1</td>
</tr>
<tr>
<td>PDAG</td>
<td>Pneumatic Dual Applicator Gun</td>
<td>1</td>
</tr>
</tbody>
</table>

* 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1P40</td>
<td>6 Fl. Oz.</td>
<td>6</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>T603A</td>
<td>2 Fl. Oz.</td>
<td>12</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GP60</td>
<td>6 Fl. Oz.</td>
<td>6</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVD6243PK</td>
<td>24 Tags per Pack.</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRL4925</td>
<td>3 Fl. Oz.</td>
<td>6</td>
</tr>
</tbody>
</table>
CRL SikaTack® - Drive
- 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.

CRL SikaTack® - ASAP Heated Urethane Adhesive
- 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.

CRL SikaTack® - UltraFast II Heated Urethane Adhesive
- 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.

CRL Urethane Heater Ovens
- 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 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.
**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).

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1KA206GP</td>
<td>8.3 Fl. Oz.</td>
<td>6</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1KA21530</td>
<td>1 Fl. Oz.</td>
<td>6</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>QTY./CASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6D0960</td>
<td>8.3 Fl. Oz.</td>
<td>6</td>
</tr>
</tbody>
</table>

**CRL Sika®-Aktivator Pads**

- 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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
<th>PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>6H12SPK</td>
<td>.37 Fl. Oz.</td>
<td>5 Pads/Pack</td>
</tr>
<tr>
<td>6H12S</td>
<td>.37 Fl. Oz.</td>
<td>17 Pads/Ctn.</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>QTY./TUB</th>
</tr>
</thead>
<tbody>
<tr>
<td>PT1U409</td>
<td>100</td>
</tr>
</tbody>
</table>

Minimum order: 100 each. Must order in increments of 100.
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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSN2</td>
<td>Rigid Nozzles (4 pack)</td>
<td>Warmed sealant flows</td>
</tr>
<tr>
<td>PSN4</td>
<td>Flexible Nozzles (4 pack)</td>
<td>easier and fills the void</td>
</tr>
<tr>
<td>PSN6</td>
<td>Combo Pack (2 Flexible, 2 Rigid)</td>
<td>rather than bridging the void.</td>
</tr>
</tbody>
</table>

Packs may be combined for quantity pricing.

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.

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.

CRL V-Notch Cutter

- Cuts Perfect V-Shaped Notches in Nozzles

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.

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 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

CRL 4.8V DC Cordless Caulking Guns operate 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.

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

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.

CRL Caulk’n Sav’r

- Fits All Standard Size Cartridges
- Pays for Itself Many Times Over in Saved Caulking

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 UNOZ Nozzle is included with each Caulk’n Sav’r.

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.

CRL 4.8V DC Cordless Caulking Guns

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG48</td>
<td>4.8V Cordless Cartridge Gun</td>
</tr>
<tr>
<td>CG48SG</td>
<td>4.8V Cordless Sausage Gun</td>
</tr>
<tr>
<td>CG48B</td>
<td>4.8V DC Rechargeable Battery</td>
</tr>
<tr>
<td>CG48C</td>
<td>Battery Charger</td>
</tr>
</tbody>
</table>

For more information, contact CRL Technical Sales at (800) 421-6144, Ext. 777
CRL Universal Windshield Trim Moldings

- 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.

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.

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. 409T111 is made of matte black EPDM, while Cat.No. 409T110 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.

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” indention 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.

CRL Universal Filler Strip

- Unique Shape Allows Use in Domestic and Imported Vehicles

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.

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.

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.

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.
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

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.

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

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.

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.
CRL Fein Pneumatic Oscillating Cut-Out Tool

- Low Maintenance, High Quality and Lightweight Compact Design

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.

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.

CRL Fein Gator and Specialty Blades

- Fast Cutting Oscillating Blades
- Special Blades for Special Applications
- Hardened and Sharpened for Superior Performance

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.
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.

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.

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 3/4”, 1” and 1-1/2” blades, all packed in a foam-lined, plastic carrying case.

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

- 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.

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.

TOLL FREE PHONE (800) 421-6144 www.crlaurence.com TOLL FREE FAX (800) 262-3299

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
CRL BTB Reciprocal Cut-Out Tool

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.

CRL BTB “Classic” Cut-Out Kit


Individual Blades for BTB Tools

<table>
<thead>
<tr>
<th>BTB STANDARD BLADES</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>BTB1</td>
<td>Extra Long Rat Blade</td>
</tr>
<tr>
<td>BTB2</td>
<td>Long Universal Blade</td>
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<tr>
<td>BTB3</td>
<td>General Purpose Blade</td>
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<tr>
<td>BTB4</td>
<td>Extra Curved Glass Bent Blade</td>
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<td>BTB5</td>
<td>Trim Blade</td>
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<td>BTB6</td>
<td>Pinchweld Cleanup Blade</td>
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<tr>
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<td>BTB4SC</td>
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<tr>
<th>BTB SPECIALTY BLADES</th>
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<tr>
<td>BTB24S</td>
<td>Serrated Bent Blade</td>
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<tr>
<td>BTB24RS</td>
<td>Serrated Reverse Bent Blade</td>
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<tr>
<td>BTB242S</td>
<td>Serrated Offset Blade</td>
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<tr>
<th>BTB POWERED COLD KNIFE BLADES</th>
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<tr>
<td>BTB27</td>
<td>Powered Cold Knife Blades (L&amp;R)</td>
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<tr>
<td>BTB27R</td>
<td>Reversed Powered Cold Knife Blades (L&amp;R)</td>
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<tr>
<th>BTB CHUCK HANDLES</th>
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<tr>
<td>BTB7</td>
<td>4-1/2&quot;</td>
<td>“One-Handed” Handle</td>
</tr>
<tr>
<td>BTB7L</td>
<td>8&quot;</td>
<td>“Two-Handed” Handle</td>
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</tbody>
</table>

Blade not included. Must be ordered separately.

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.

CRL BTB Chuck Handles

“One-Handed” Chuck Handle

“Two-Handed” Chuck Handle
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.

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.

<table>
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<tr>
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<tr>
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<td>AN1002</td>
<td>1&quot; Ultra Wiz Blade</td>
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<tr>
<td>AN1004</td>
<td>1-1/2&quot; Ultra Wiz Blade</td>
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</tbody>
</table>

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.

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<td>AN5001</td>
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<td>AN5002</td>
<td>1&quot; Ultra Thin Blade</td>
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<tr>
<td>AN5004</td>
<td>1-1/2&quot; Ultra Thin Blade</td>
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</table>

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

All cold knife 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.

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<th>DESCRIPTION</th>
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<tbody>
<tr>
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<td>Molding Removal Blade</td>
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</tbody>
</table>

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.

<table>
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<td>Offset Molding Blade</td>
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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.

Push Button Knife Blades
These Stainless Steel Blades are super sharp and cut through 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.

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.

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.

Easy-Cutting Coated Blade
Produces unsurpassed performance when cutting through tough urethanes.

Super Strong Stainless Steel
With tips that can be re-sharpened, these stainless steel blades will give you extended cutting life.

CRL Euro-Knife
- 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.

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.
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.

CRL Pipe Handle Cut-Out Knives

- Now with Soft Vinyl Grip Handle

CRL 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

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.

CRL Replacement Blades for PK19, PK19XL, UK9, UK18 and UK24 Cut-Out Knives

- Heavy-Duty Steel
- Convenient Dispenser Holds 100 Blades

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 separately.

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.
CRL Thermo-Hygro
• Measures Humidity at Installation Site
• Helps You Determine Drive-Away Times

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 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.

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.

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.
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.

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 J ust 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.

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.

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.

<table>
<thead>
<tr>
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<td>MP011</td>
<td>M-Pact Gloves</td>
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<tr>
<td>MP012</td>
<td>M-Pact Gloves</td>
<td>XX-Large</td>
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CRL Mechanix Gloves

- The Tool That Fits Like a Glove
- Absorb Vibration from Power Tools
- Quick On and Off Elastic Cuffs
- The Original with Superior Fit and Feel

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CRL Mechanix Gloves

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<td>X-Large</td>
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</table>

All products F.O.B. Nearest Warehouse. Call Toll-Free from anywhere in the U.S.A. or Canada. Prices subject to change without notice.
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.

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.

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.

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.

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.
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.

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<td>S09B</td>
<td>9-Lite Redi Rack</td>
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<tr>
<td>EX21</td>
<td>Mast Extension to 36”</td>
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<tr>
<td>SE46</td>
<td>Slick Eddy Glass Slide</td>
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</table>

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.

CRL Pumper Installer’s Aid

- 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>19NS</td>
<td>Neck Saver</td>
</tr>
<tr>
<td>LB779</td>
<td>Pumper Installer’s Aid</td>
</tr>
</tbody>
</table>
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 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. 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.

- Removes and Replaces Retaining Pins in Swing Out Side Windows and Sunroof Latch Handles

CAT. NO. PRT305

CRL Multi-Spanner™ Door Glass Tool

- 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 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 Pocket Socket Nutdriver

- Four Socket Sizes in One Handle

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<tbody>
<tr>
<td>75000332</td>
<td>Orange</td>
<td>100</td>
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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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>75002500</td>
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<tr>
<td>75002505</td>
<td>Push-On Trim Seals Chain</td>
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</table>

CRL "Tree" Molding Removal Tool
- Coated Tip Won't Chip Glass

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 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<tr>
<td>SC300</td>
<td>Super Scraper Tool with 5 Blades</td>
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<tr>
<td>SC301</td>
<td>5-Pack of 1/2” Wide Blades</td>
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<tr>
<td>SC302</td>
<td>5-Pack of 5/8” Wide Blades</td>
</tr>
<tr>
<td>SC303</td>
<td>5-Pack of 3/4” Wide Blades</td>
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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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>COLOR</th>
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<tr>
<td>WLS466</td>
<td>Black</td>
<td>16’2”</td>
<td>Chevy/GMC Truck, Blazer and Chevette</td>
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<td>WLS466R100</td>
<td>Black</td>
<td>100’</td>
<td>Chevy/GMC Truck, Blazer and Chevette</td>
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<tr>
<td>WLS848</td>
<td>Chrome</td>
<td>16’2”</td>
<td>1975-1985 Chevy/GMC Truck Windsheilds</td>
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<tr>
<td>WLS848R100</td>
<td>Chrome</td>
<td>100’</td>
<td>1975-1985 Chevy/GMC Truck Windsheilds</td>
</tr>
</tbody>
</table>

16’ 2” strips can be combined for quantity pricing.

CRL Swivel Tip Locking Strip Tool
- Two Double-Ended Tips to Fit Most Applications

Unique design allows tips 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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<tbody>
<tr>
<td>L47000</td>
<td>Complete Tool</td>
</tr>
<tr>
<td>L47030</td>
<td>Dodge Tip</td>
</tr>
<tr>
<td>L47040</td>
<td>Standard Tip</td>
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</table>

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.

<table>
<thead>
<tr>
<th>CAT NO.</th>
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<tr>
<td>600088</td>
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CRL Aegis Windshield Repair Kits

• Two Great Systems for Small or Large Shops

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.

CRL Deluxe Super Vac Ultraviolet Windshield Repair System

• 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

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

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 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.

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.

CRL Ultrasonic Leak Detector

- Find Leaks Quickly, Professionally  
- 12 Volt Power Port Transmitter  
- Wand Style Detector with Headset

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.
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.

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.

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.

CRL Dremel Moto Tool Kit
- 40 Piece Bit Assortment Included

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.

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.

For more information, contact CRL Technical Sales at (800) 421-6144, Ext. 777
CRL Lock Out Tool Kits

- Two New Kits to Open Locked Vehicles

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.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>LK600</td>
<td>Deluxe Lock Out Tool Kit</td>
</tr>
</tbody>
</table>

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.

CRL Auto Wire

Heavy gauge auto wire for rewiring power windows, dome lights, etc. Comes on convenient 100 foot spools.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>GAUGE</th>
<th>FT./ROLL</th>
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<tr>
<td>AW18</td>
<td>18</td>
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</table>

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 any almost application.

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>CONTENTS</th>
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<tbody>
<tr>
<td>GPL205</td>
<td>1/2 R. Q.</td>
<td>12</td>
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</tbody>
</table>

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. BC1210

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

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 wrinked out of alignment and can no longer be opened.

CRL Retainer Clip Insertion Tool

- Eases Clip Installation for Bonded Sliders

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

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

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

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

The perfect unit to test automotive electrical circuits (power windows, defoggers), electrical instrumentation and batteries. Saves time and 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. 21510T

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. CT3250

Replacement Battery 1.5V DC
### CRL Power Window Lift Motors

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
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<tr>
<td>39010</td>
<td>Marson “Big Daddy™” Riveter Kit</td>
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<tr>
<td>96026</td>
<td>3/16” Nose Piece Replacement</td>
</tr>
<tr>
<td>96027</td>
<td>1/4” Nose Piece Replacement</td>
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<tr>
<td>96028</td>
<td>Klik-Split™ Nose Piece Replacement</td>
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<tr>
<td>39009</td>
<td>Long Nose Piece Adapter</td>
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<tr>
<td>39010JAWS</td>
<td>Replacement Jaws (Set)</td>
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### 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 cramped 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

- **Glass Stop Rivets** connected to the regulator or body panel.
- These rivets are used to secure the glass STOP to the glass.

#### Window Regulator Rivets

- **Window Regulator Rivets** are used to connect the regulator to the door or body panel.

#### Door Handle Rivets

- **Door Handle Rivets** are used to mount recessed door handles to the door panel.

---

### CRL “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

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<td>Klik-Split™ Nose Piece Replacement</td>
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<tr>
<td>39009</td>
<td>Long Nose Piece Adapter</td>
</tr>
<tr>
<td>39010JAWS</td>
<td>Replacement Jaws (Set)</td>
</tr>
</tbody>
</table>

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### CRL “Big Brute™” Riveter

- **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”, plus a special nose piece for inserting door handle rivets for the automotive industry.

**CAT. NO. DESCRIPTION**

- **CAT. NO. 250AH** “Big Brute™” Riveter
- **CAT. NO. 250AHJAWS** Replacement Jaws (Set)

---

### CRL Power Window Lift Motors

- **GM MOTOR**
  - Replaces 5048908, 5048909, 50481352, 14012381, 14012382, 14056095, 14056096, 20105348, 20105349, 20201150, 20201151, 20298831, 20298951, 20421231, 20435574, 20435575, 20480564, 22010457, 22010458, 22020900, 22020910, 22029187, 22029188, 22029191, 22029192, 22029848, 22047666, 22121355 & 59313451
  - **CAT. NO. CP937110**

- **FORD MOTOR**
  - **CAT. NO. CP937110**

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### CRL Auto Glass Rivets

- **CAT. NO. 42371** CAT. NO. 52371
  - **50/TUB 2,000/CASE**
  - **Matches: GM 20713843**
  - **Grip Range: .110” to .177”**

- **CAT. NO. 42372** CAT. NO. 52372
  - **50/TUB 2,000/CASE**
  - **Matches: GM 9437486; CHRY 6032926**
  - **Grip Range: .140” to .187”**

- **CAT. NO. 42373** CAT. NO. 52373
  - **50/TUB 2,000/CASE**
  - **Matches: FORD 388047-S100**
  - **Grip Range: .090” to .115”**

- **CAT. NO. 42374** CAT. NO. 52374
  - **50/TUB 2,000/CASE**
  - **Matches: GM 9435712; CHRY 6032926**
  - **Grip Range: .090” to .115”**

- **CAT. NO. 42376** CAT. NO. 52376
  - **50/TUB 2,000/CASE**
  - **Matches: GM 9435617; CHRY 6032926**
  - **Grip Range: .032” to .140”**

- **CAT. NO. 42375** CAT. NO. 52375
  - **50/TUB 2,000/CASE**
  - **Matches: GM 20713843; CHRY 6032926**
  - **Grip Range: .032” to .140”**

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### CRL “Big Daddy™” Riveter

- **CAT. NO. CP937107**

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### CRL “Big Brute™” Riveter

- **CAT. NO. CP937111**

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### CRL Power Window Lift Motors

- **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**
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.

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.

CRL Door Window Bracket

Replaces 69551-12180. Door Window Bracket. Plastic w/M6-1.0 Threaded Steel Insert. Can be used on various import and domestic vehicles.

CRL Window Roller Nut Tool for Saturn

Window Roller Nut Tool for Saturn vehicles ‘91/. Not available from O.E.M.

CRL Window Things are packed 50 to a package, along with 50 screws and 12 washers for installations where a spacer is required.

Auto Glass Fasteners

CAT. NO. | DESCRIPTION
----------|------------------
CP897041  | Window Things

CAT. NO. | DESCRIPTION
----------|------------------
CP987302  | Roller Nut Tool

CAT. NO. | DESCRIPTION
----------|------------------
CP906792  | Rivet Blind Type (Peel-style). Black Aluminum Rivet w/Steel Mandrel: 1/4" Dia., 1/8" Range; Grip Range .520-.620 (Outside Door Handle); Ford Products '88.

CAT. NO. | DESCRIPTION
----------|------------------
CP906793  | Rivet Blind Type (Leg-Potention Style). Aluminum Rivet w/Aluminum Mandrel: 1/4" Rivet. 1/2" Range; 120-400 Grip Range; Window Sash and Door Lock Actuator Rod. GM ‘U’ Vans '90.

CAT. NO. | DESCRIPTION
----------|------------------
CP906794  | Rivet Blind Type. Black Alum Rivet w/Steel Mandrel: 1/4" Dia., 1/8" Range; Grip Range .520-.620 (Outside Door Handle); Ford Products '88.

CAT. NO. | DESCRIPTION
----------|------------------
CP987301  | 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. | DESCRIPTION
----------|------------------
CP987300  | Blind Rivet. 1/4" Rivet w/5/16" Flange; .125-.187 Grip Range; Alum. Rivet, Steel Mandrel (Zinc); GM Rear Window Gasket, Various Models.

CAT. NO. | DESCRIPTION
----------|------------------
CP987305  | 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. | DESCRIPTION
----------|------------------
CP987311  | 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. | DESCRIPTION
----------|------------------
CP987308  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987309  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987310  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987311  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987312  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987313  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987314  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987315  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987316  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987317  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987318  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987319  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987320  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987321  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987322  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987323  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987324  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987325  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987326  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987327  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987328  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987329  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.

CAT. NO. | DESCRIPTION
----------|------------------
CP987330  | Blind Rivet, Super Tough Aluminum Rivet w/Aluminum Mandrel: 3/16" Rivet with 5/8" Range; .501-.625 Grip Range for Glass Stop/Poller; Chrysler Products. Not Supplied By O.E.M.
CRL Automotive Clips and Fasteners for Late Model Vehicles

Replaces 6002263. Clip, Rear Glass Molding; Green Plastic; Honda Prelude ‘88-
90.

CAT. NO. QTY./PKG.
CP906891 25

Replaces 6004036. Clip, Windshield and Back Glass; Black Plastic; Chrysler
LeBaron Coupe ‘87.

CAT. NO. QTY./PKG.
CP906878 15

Replaces 75547-89102. Clip, Windshield Molding Chrome; L.H. and R.H. Side;
White Plastic w/Center Tab; Toyota Truck ‘88-
90.

CAT. NO. QTY./PKG.
CP906872 10

Replaces 8545 50609. Clip, Windshield Molding; Black Plastic;
Ford Festiva ‘88.

CAT. NO. QTY./PKG.
CP916888 15

Replaces 90657-SF1-003. Clip, Rear Glass Molding; Blue Plastic (adjustable);
Honda Accord ‘90.

CAT. NO. QTY./PKG.
CP967771 10

Replaces 6004184. Clip, Windshield and Back Glass Molding; White Plastic;
Chrysler Acclaim and Spirit ‘89.

CAT. NO. QTY./PKG.
CP906796 25

Replaces 90604-SF1-003. Clip, Rear Window Molding; Green Plastic;
Honda Prelude ‘88.

CAT. NO. QTY./PKG.
CP916889 10

Replaces 90605-SF1-003. Clip, Rear Pillar Garnish Molding; White Plastic;
Honda Prelude ‘88.

CAT. NO. QTY./PKG.
CP917000 10

All clips and fasteners can be combined for quantity pricing.
Auto Glass Fasteners for Late Model Vehicles

Replaces 01553-03361. Grommet, Windshield Molding Retainer; Lower Corner Molding; (Use w/CP916901). Black Plastic; Nissan Pathfinder ‘90.

Replaces 01553-03371. Retainer, Windshield Molding; Lower Corner Molding; (Use w/CP916900). Black Plastic; Nissan Pathfinder ‘90.

Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.

Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.


Replaces 7634583. Grommet w/Sealer. Windshield Side Molding; Black Plastic; M4 Screw; Nissan Maxima ‘90.


Replaces 91529-SP0-003. Clip, Windshield Molding Side; Black Plastic; (Use w/CP927008); Acura Legend 4 Door ‘91.

Replaces 91513-SP0-003. Clip, Windshield Molding Side; Blue Plastic; (Use w/CP927006); Acura Legend 4 Door ‘91.

Replaces 91512-SP0-003. Clip, Windshield Molding Upper; White Plastic; Acura Legend 4 Door ‘91.


Replaces 91511-SP0-003. Clip, Windshield Molding Side; Blue Plastic; (Use w/CP927007); Acura Legend 4 Door ‘91.

Replaces 91520-SP0-003. Clip, Windshield Molding Side; Red Plastic; (Use w/CP927003); Honda Civic ‘92.


Replaces 75546-22060. Clip, Windshield Molding Side; Blue Plastic; Toyota Cressida ‘98.


Replaces 7654-22070. Clip, Windshield Molding Top; Blue Plastic; Toyota Cressida ‘88.

Replaces 75546-22070. Clip, Windshield Molding Top; Blue Plastic; Toyota Cressida ‘88.

Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.

Replaces 75546-22060. Clip, Windshield Molding Side; Blue Plastic; Toyota Cressida ‘98.

Replaces 75546-22060. Clip, Windshield Molding Side; Blue Plastic; Toyota Cressida ‘88.


Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.

Replaces 75546-22060. Clip, Windshield Molding Side; Blue Plastic; Toyota Cressida ‘98.

Replaces 75546-22060. Clip, Windshield Molding Side; Blue Plastic; Toyota Cressida ‘98.

Replaces 91512-SR3-003. Clip, Windshield Molding Upper; Black Plastic; Acura Vigor ‘92.

Replaces 01553-03371. Retainer, Windshield Molding; Lower Corner Molding; (Use w/CP916900). Black Plastic; Nissan Pathfinder ‘90.

Replaces 01553-03361. Grommet, Windshield Molding Retainer; Lower Corner Molding; (Use w/CP916901). Black Plastic; Nissan Pathfinder ‘90.

Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.

Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.

Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.

Replaces 01553-03361. Grommet, Windshield Molding Retainer; Lower Corner Molding; (Use w/CP916901). Black Plastic; Nissan Pathfinder ‘90.

Replaces 01553-03361. Grommet, Windshield Molding Retainer; Lower Corner Molding; (Use w/CP916901). Black Plastic; Nissan Pathfinder ‘90.

Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.

Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.

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Replaces 73856-51E00. Clip, Pool Side Molding; White Plastic; Nissan Stanza ‘90.
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: CP927031
  - QTY/PKG: 10

- **Replaces 91569-SL4-003.** Clip, Windshield Molding Side; White Plastic; (Use with CP927033); Acura Vigor '92.
  - CAT NO: CP927034
  - QTY/PKG: 25

- **Replaces 91518-SR4-003.** Clip, Windshield Molding; Gray Plastic; Honda Civic '92.
  - CAT NO: CP937149
  - QTY/PKG: 10

- **Replaces 91572-SV4-003.** Clip, Windshield Molding Side; Pink Plastic; (Use with CP927006); Honda Accord '94.
  - CAT NO: CP937205
  - QTY/PKG: 10

- **Replaces 91574-SV4-003.** Clip, Windshield Molding Side; White Plastic; Honda Accord '94.
  - CAT NO: CP937208
  - QTY/PKG: 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: CP947212
  - QTY/PKG: 10

- **Replaces 91513-SP1-003.** Clip, Windshield Side; Gray Plastic; Acura Legend Coupe '91-'93.
  - CAT NO: CP947289
  - QTY/PKG: 10

- **Replaces 91568-SL4-003.** Clip, Windshield Molding Side; Black Plastic; Acura Vigor '92.
  - CAT NO: CP947290
  - QTY/PKG: 5

- **Replaces 91567-SL4-003.** Clip, Windshield Molding Side; White Plastic; (Use with CP927034); Acura Vigor '92.
  - CAT NO: CP947291
  - QTY/PKG: 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 73155-SS0-004.
Clip, Windshield R/H Corner;
Black Plastic;
Honda Prelude '92-'94.

CAT NO.            QTY./PKG.
CP947295          5

Replaces 91512-SP1-003.
Clip, Windshield Upper;
Brown Plastic;
Acura Legend 2 Door '91-'93.

CAT NO.            QTY./PKG.
CP947302          5

Replaces 91514-SP1-003.
Clip, Windshield Side;
Yellow Plastic;
Acura Legend 4 Door '91-'93.

CAT NO.            QTY./PKG.
CP947322          5

Replaces 91514-SP1-003.
Clip, Windshield Side;
Red Plastic;
Acura Legend 2 Door '91-'93.

CAT NO.            QTY./PKG.
CP947328          5

Replaces 91514-SP1-003.
Clip, Windshield Side;
Red Plastic;
Acura Legend 2 Door '91-'93.

CAT NO.            QTY./PKG.
CP947328          5

Replaces 3936999.
Not Available from O.E.
(Formerly CP713515)
Windshield Reveal Molding Clip;
Corvette ‘68-’75.

CAT NO.            QTY./PKG.
CP957397          25

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

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<th>CAT. NO.</th>
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<td>CP957368</td>
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**Cowl Screen Retainer:**
- Black Plastic
- Hole Dia.: 7/32"; Length 1-3/8"; Head Dia.: 19/32"; Chevrolet Caprice '91.

**Rivet, Screw Type:**
- M6 Hole Size; Grip Range 2-5 mm; Black Plastic; Honda Accord '90.

**Grommet Nut:**
- M4 Screw; Black Plastic w/Sealer; Cowl Screen; Honda Civic '84-'87.

**Clip, Cowl Cover:**
- White Plastic; GM Spectrum '85.

**Retainer, Cowl Top:**
- Black Plastic; Hole Dia.: 12 mm; 15 mm O/L; Nissan 240SX '90.

**Cowl Vent Rivet, Drive Type:**
- Black Plastic; Hole 6 mm; Flange 15 mm; PR. 5 mm; GM Saturn '91.

**Nut, Cowl Screen:**
- Black Plastic; M7 Square Hole; 4.2 mm Screw; Chrysler Minivans and Various Cars '90.

**Retainer, Cowl Screen w/Torx Recess:**
- (Use w/CP947254); Black Plastic; Fits 1/4-20 Stud; Dodge Ram Full Size Pick Up '94.

**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.

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**All clips and fasteners can be combined for quantity pricing.**
# Automotive Clips and Fasteners for Late Model Vehicles

<table>
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<th>CAT NO.</th>
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- **CAT NO. CP967513**  
  QTY./PKG. 25  
  Replaces 6504014, 6503896. Retainer, Door Panel; Orange Plastic; Hole 6.7 mm; Chrysler Neon '95.

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- **CAT NO. CP916993**  
  QTY./PKG. 100  
  Replaces 91536-SM4-003. Grommet Nut W/Sealer; M4 Screw; 10 mm x 7 mm Hole; Yellow Plastic; Roof Drip Rail; Honda Accord '90.

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- **CAT NO. CP927002**  
  QTY./PKG. 15  

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- **CAT NO. CP947231**  
  QTY./PKG. 15  
  Replaces 20096585. Retainer Window Roller Bushing; White Plastic; Various GM Models '82.

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- **CAT NO. CP980809**  
  QTY./PKG. 15  
  Replaces 20178799. Bushing Window Roller; Black Plastic; Various GM Models '82.

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>QTY./PKG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP998060</td>
<td>25</td>
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</tbody>
</table>

- **CAT NO. CP998060**  
  QTY./PKG. 25  
  Window Roller Repair Kit Contains: CP980809 (Bushing Ret.), CP916975 (Bushing) and CP946813 (Rivet); Various GM Models '82.

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All clips and fasteners can be combined for quantity pricing.
<table>
<thead>
<tr>
<th>CAT NO.</th>
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<th>QTY/PKG</th>
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<tr>
<td>AV14036</td>
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<tr>
<td>SB586</td>
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All clips and fasteners can be combined for quantity pricing.
### Automotive Clips and Fasteners for Late Model Vehicles

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>QTY./PKG</th>
<th>Description</th>
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<tbody>
<tr>
<td>CP977622</td>
<td>50</td>
<td>Door Panel Retainer; White Plastic; Hole Dia: M7; O/L 30 mm; Head Dia: 18 mm; GM &quot;U&quot;, &quot;W&quot; &amp; &quot;Y&quot; Bodies '97.</td>
</tr>
<tr>
<td>CP977624</td>
<td>25</td>
<td>Rear Door Trim Panel Retainer; White Plastic; Hole Dia: M7; O/L: 35 mm; Head Dia: 13 mm; Stem Lhgt: 30 mm; GM 'M' Vans '94.</td>
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<tr>
<td>CP977664</td>
<td>50</td>
<td>Door Weatherstrip Clip; Black Plastic; Hole: M5; Stem Length: 15.5 mm; Head Dia: 10 mm; Neon '95 &amp; GM</td>
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<tr>
<td>CP977678</td>
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<td>Back Glass Retainer; Lower Molding; Black Plastic; Ford '80.</td>
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<tr>
<td>CP977736</td>
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<td>Windshield Molding Side Clip; Green Plastic; Honda Civic 2, 3 and 4 Door '92-'95.</td>
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<tr>
<td>CP977740</td>
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<td>Windshield Molding Side Clip; White Plastic; Mazda 929 '92-'95.</td>
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<tr>
<td>CP977743</td>
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<td>Windshield Top Molding Clip; White Plastic; Lexus S300; 400 '92-'95.</td>
</tr>
<tr>
<td>CP977744</td>
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<td>Windshield Side Molding Clip; White Plastic; Lexus ES300 '92-'95.</td>
</tr>
<tr>
<td>CP977745</td>
<td>10</td>
<td>Windshield Corner Molding Clip; Black Plastic; Lexus ES300 '92-'95.</td>
</tr>
</tbody>
</table>

### 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**

Motors and Gears Not Included
**Auto Glass Fasteners**

**Automotive Clips and Fasteners for Late Model Vehicles**

Replaces OEM 10002888.
Front Door Window Molding Retainer for Cars w/Vinyl Top; '87+ GM Corsica.

Replaces OEM 21218415.
Rear End Bolt Molding Clip for Cars w/Vinyl Tops; '81-'88 Olds, Cutlass "G" Body.

Replaces OEM 72727-W1000.
Windshield Molding Clip; Nissan

---

**CAT NO.** **QTY./PKG.**

| CP916987    | 25 |
| CP947227    | 15 |
| AV15470     | 15 |

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Replaces OEM 5208776, 4006529.
Headliner Fastener; 3/16" Hole, 3/4" Head; Panel Range 3/32"-13/32"; (Formerly CP866143); '84-'88 Chrysler/AMC


Not Supplied By O.E.
Roller, Quarter Window Channel; Roller Diameter 1"; Stud 1/4-20 x 1/2"; '67 + GM Compact & Chevelle.

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<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>QTY./PKG.</th>
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<tbody>
<tr>
<td>CP987807</td>
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<tr>
<td>CP987885</td>
<td>15</td>
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<tr>
<td>CP987886</td>
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Replaces CP693270, CP701358;
Regulator Roller Front and Rear Window; Stud 1/4-20 x 1/2"; Roller 1" Diameter; '69-'74 GM Sport Coupe Conv.

Replaces RK133;
Regulator Roller; '57-'66 GM, '63-'66 AMC

Replaces RK171;
'57-'56 GM Suburban Rear Power Window; '63-'65 AMC Regulator Roller Kit; 1-Roller, 1-Rivet.

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<table>
<thead>
<tr>
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<th>QTY./PKG.</th>
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<tbody>
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<tr>
<td>CP9998046</td>
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</tbody>
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Replaces CP733904.
Door Weatherstrip Fastener; (Formerly CP906758); 1950+ GM "A" Body.

Replaces OEM 48796498.
Door Weatherstrip Fastener; M45 Hole; 5 x 13 mm Head; Panel Range 6 mm; Al '63+ GM, '65+ Ford.

Replaces OEM 91534-SM4-003.
Clip, Windshield Molding, '90+ Accord, '91+ Acura.

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<table>
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<th>QTY./PKG.</th>
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</thead>
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<tr>
<td>AV17282</td>
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</tbody>
</table>

---

Replaces CP6003426.
Clip, Windshield Molding; '73+ Chrysler.

Replaces OEM 6003878.
Molding Clip, Windshield and Back Glass; Metal Clip with Plastic Shroud; '84+ Chrysler "K" Cars.

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<th>QTY./PKG.</th>
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<td>AV19281</td>
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<td>AV13567</td>
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</table>

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.

---

TOLL FREE FAX (800) 262-3299  www.crlaurence.com  TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
Automotive Clips and Fasteners for Late Model Vehicles

Replaces OEM 9427977.
Phillips Flat Washer Head Screw, #10 x 3/4"; Washer Head O.D. 15/32"; Chrysler.

**CAT NO.** AV13709  **QTY/PKG.** 50

Phillips Low Profile Round Washer Head with #2 Teks Point, #8 x 1/2"; Washer Head O.D. 23/64"; Zinc.

**CAT NO.** AV15171  **QTY/PKG.** 100

Phillips Oval Washer Head Screw, #8 x 3/8"; 3/8" O.D; for Wheel Opening Moldings; Zinc; Ford.

**CAT NO.** AV10642  **QTY/PKG.** 100

Phillips Washer Head Screw, #8 x 7/16"; Washer Head O.D. 3/8"; Zinc.

**CAT NO.** AV2805  **QTY/PKG.** 100

Phillips Pan Head Tapping Screw, #8 x 1"; Zinc.

**CAT NO.** AV3079  **QTY/PKG.** 100

Phillips Pan Head Tapping Screw, #14 x 1/2"; Zinc.

**CAT NO.** AV3089  **QTY/PKG.** 100

Phillips Pan Head Tapping Screw, #10 x 5/8"; Zinc.

**CAT NO.** AV2808  **QTY/PKG.** 100

Phillips Pan Head Tapping Screw, #10 x 1/2"; Zinc.

**CAT NO.** AV3082  **QTY/PKG.** 100

Phillips Flat Washer Head Tapping Screw, #8 x 1/2"; Washer Head O.D. 13/32"; Zinc.

**CAT NO.** AV14859  **QTY/PKG.** 100

Phillips Low Profile Round Washer Head with #2 Teks Point, #8 x 1/2"; Washer Head O.D. 13/32"; Zinc.

**CAT NO.** AV1392  **QTY/PKG.** 25

Phillips Oval Head Tapping Screw, #4 x 3/4"; Chrome.

**CAT NO.** AV3069  **QTY/PKG.** 100

Phillips Washer Head Screw, #10 x 3/4"; 7/16" O.D.; Zinc; GM Molding to Panel.

**CAT NO.** AV3086  **QTY/PKG.** 100

Spring Type Washers, Grade 5; 1/4"ID; Zinc.

**CAT NO.** AV5720  **QTY/PKG.** 200

**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.

**CAT NO.** AV19341  **QTY.** 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

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

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>MODEL</th>
<th>CLASS</th>
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<tr>
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<td>Perfect Fit POWR-Slider</td>
<td>Solar Privacy</td>
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<tr>
<td>ECT899S</td>
<td>Perfect Fit Tri-Vent</td>
<td>Solar Privacy</td>
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<tr>
<td>ECT899LT</td>
<td>Perfect Fit Tri-Vent</td>
<td>Light Tint</td>
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1994+ “S” SERIES

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</tr>
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<td>ECT894LT</td>
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<tr>
<td>ECT894B</td>
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</tbody>
</table>

CRL “Perfect Fit” Sliders
1994-2001 Dodge Ram All Cabs
1995-1997 Dodge Ram Extended Cab
2002-2003 Dodge Ram 2500/3500

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

<table>
<thead>
<tr>
<th>CAT. NO.</th>
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<th>CLASS</th>
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<tbody>
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<td>Perfect Fit POWR-Slider</td>
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<td>ECT904S</td>
<td>Perfect Fit Tri-Vent</td>
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1995-1997 DODGE RAM EXTENDED CAB

<table>
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<tbody>
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<td>Perfect Fit POWR-Slider</td>
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<tr>
<td>ECT944S</td>
<td>Perfect Fit Tri-Vent</td>
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* Supplied with Interior Shroud

2002+ DODGE RAM 1500

<table>
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<td>ECT924S</td>
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<td>Solar Privacy</td>
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<tr>
<td>ECT924LT</td>
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<td>ECT924B</td>
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</tbody>
</table>

See page F410 for the complete selection of Chevy/GMC Sliders
See page F411 for the complete selection of Dodge Sliders
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.

1997+ DODGE DAKOTA

<table>
<thead>
<tr>
<th>CAT NO</th>
<th>MODEL</th>
<th>GLASS</th>
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<td>EPC410S</td>
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<td>ECT410S</td>
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<tr>
<td>ECT410B</td>
<td>Perfect Fit Tri-Vent</td>
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</tbody>
</table>

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

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.


<table>
<thead>
<tr>
<th>CAT NO</th>
<th>MODEL</th>
<th>GLASS</th>
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<tbody>
<tr>
<td>EPS965S</td>
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<td>Solar Privacy</td>
</tr>
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<td>EPS965SQ</td>
<td>POWR-Slider</td>
<td>Solar Privacy</td>
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<tr>
<td>ETRV965S</td>
<td>3-Panel Tri-Vent</td>
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<tr>
<td>ETRV965ST</td>
<td>3-Panel Tri-Vent</td>
<td>Dark Tint</td>
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<td>ETRV965LT</td>
<td>3-Panel Tri-Vent</td>
<td>Light Tint</td>
</tr>
<tr>
<td>EDV965BT</td>
<td>4-Panel Duo-Vent</td>
<td>Dark Tint</td>
</tr>
<tr>
<td>EDV965B</td>
<td>4-Panel Duo-Vent</td>
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</tbody>
</table>

CRL “Perfect Fit” Sliders

1999+ Toyota Tundra

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.

1999+ TOYOTA TUNDRA

<table>
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<th>CAT NO</th>
<th>MODEL</th>
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<tr>
<td>ECT1550S</td>
<td>Perfect Fit Tri-Vent</td>
<td>Solar Privacy</td>
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</table>
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

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.

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.

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!

TOLL FREE FAX (800) 262-3299  www.crlaurence.com  TOLL FREE PHONE (800) 421-6144

All truck sliders can be combined for quantity pricing.

See page F411 for the complete selection of Ford Sliders

See page F412 for the complete selection of Nissan Sliders
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

<table>
<thead>
<tr>
<th>DESIGNATIONS</th>
<th>SLIDER TYPE</th>
<th>DESCRIPTION OF SLIDER INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>DWV</td>
<td>Duo-Vent</td>
<td>Traditional Four Panel Slider</td>
</tr>
<tr>
<td>EDV</td>
<td>Bonded Duo-Vent</td>
<td>Same as DWV, but bonded to body</td>
</tr>
<tr>
<td>TSN</td>
<td>Older Model Truck Slider</td>
<td>D/V for truck models 10 years or older</td>
</tr>
<tr>
<td>SRW</td>
<td>Big Rig Truck Slider</td>
<td>Slider for large commercial trucks</td>
</tr>
<tr>
<td>RVE</td>
<td>Bonded Camper Boot Slider</td>
<td>Added flange for camper boot attachment</td>
</tr>
<tr>
<td>TRV</td>
<td>Tri-Vent</td>
<td>Same as RVE, but bonded to body</td>
</tr>
<tr>
<td>TRC</td>
<td>Deluxe Tri-Vent</td>
<td>Same as TRV, with curved glass</td>
</tr>
<tr>
<td>ETRV</td>
<td>Bonded Deluxe Tri-Vent</td>
<td>Same as ETRV, but bonded to body</td>
</tr>
<tr>
<td>PSC</td>
<td>Deluxe POWR-Slider</td>
<td>Same as PSC, with curved glass</td>
</tr>
<tr>
<td>EPS</td>
<td>Bonded POWR-Slider</td>
<td>Same as EPS, but bonded to body</td>
</tr>
<tr>
<td>EPC</td>
<td>Deluxe Bonded POWR-Slider</td>
<td>Same as EPS, with curved glass</td>
</tr>
</tbody>
</table>

### NOTE:
The ECT990 and EPC990 Series for Ford require butyl tape in place of urethane, and is supplied with these sliders.

### Light Transmittance By Glass Type

<table>
<thead>
<tr>
<th>Glass Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B</strong> = Clear Glass</td>
</tr>
<tr>
<td><strong>LT</strong> = 55% Light Gray Tint Glass</td>
</tr>
<tr>
<td><strong>BT</strong> = 31% Dark Gray Tint Glass</td>
</tr>
<tr>
<td><strong>S</strong> = 28% Solar Glass</td>
</tr>
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</table>

### Domestic Slider Application Chart

<table>
<thead>
<tr>
<th>BODY SIZE AND INSTALLATION TYPE</th>
<th>YEARS</th>
<th>BODY SIZE</th>
<th>MODEL</th>
<th>DIMENSIONS</th>
<th>WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION (W x H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FULL SIZE GASKET SET</td>
<td>48-55</td>
<td>STANDARD CAB</td>
<td>31-3/8&quot; x 10-3/4&quot;</td>
<td></td>
<td></td>
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<tr>
<td>FULL SIZE GASKET SET</td>
<td>55-59</td>
<td>STANDARD CAB</td>
<td>35-5/8&quot; x 10-3/4&quot;</td>
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<tr>
<td>FULL SIZE GASKET SET</td>
<td>60-66</td>
<td>SMALL WINDOW</td>
<td>36-7/8&quot; x 9-7/8&quot;</td>
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<tr>
<td>FULL SIZE GASKET SET</td>
<td>60-66</td>
<td>CUSTOM CAB</td>
<td>60-1/2&quot; x 14-3/4&quot;</td>
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</tr>
<tr>
<td>FULL SIZE GASKET SET</td>
<td>67-72</td>
<td>SMALL WINDOW</td>
<td>41-1/8&quot; x 11&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MID SIZE BUTYL SET</td>
<td>68-72</td>
<td>EL CAMINO/SPRINT</td>
<td>55-1/4&quot; x 14-11/16&quot;</td>
<td></td>
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</tr>
<tr>
<td>MINI SIZE GASKET SET</td>
<td>72-80</td>
<td>LUV</td>
<td>46-1/8&quot; x 13-1/16&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MID SIZE BUTYL SET</td>
<td>73-77</td>
<td>EL CAMINO/SPRINT</td>
<td>51-3/8&quot; x 12-3/4&quot;</td>
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</tr>
<tr>
<td>FULL SIZE GASKET SET</td>
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<td>C/K CAB</td>
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<tr>
<td>MINI SIZE GASKET SET</td>
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<td>MID SIZE GASKET SET</td>
<td>82-93</td>
<td>S-10/ S-15</td>
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<tr>
<td>FULL SIZE GASKET SET</td>
<td>88-92</td>
<td>RV CAB</td>
<td>62-3/4&quot; x 14-1/2&quot;</td>
<td></td>
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<tr>
<td>FULL SIZE BONDED</td>
<td>88-91</td>
<td>RV CAB</td>
<td>64-1/8&quot; x 18-1/2&quot;</td>
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### Tri-Vent Three Panel Manual Rear Sliders

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<tr>
<th>CLEAR GLASS</th>
<th>LIGHT TINT GLASS</th>
<th>DARK TINT GLASS</th>
<th>SOLAR GLASS</th>
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<tr>
<td>DWV</td>
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<tr>
<td>EDV</td>
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<tr>
<td>TSN</td>
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<td>SRW</td>
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<tr>
<td>RVE</td>
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<td>TRV</td>
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<tr>
<td>TRC</td>
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<tr>
<td>ETRV</td>
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<tr>
<td>PSC</td>
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<tr>
<td>EPC</td>
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For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com
### 1953 TO 2008

<table>
<thead>
<tr>
<th>TRUCK VEHICLE</th>
<th>YEARS</th>
<th>MODEL</th>
<th>DIMENSIONS</th>
<th>DUO-VENT FOUR PANEL MANUAL REAR SLIDERS</th>
<th>TRI-VENT THREE PANEL MANUAL REAR SLIDERS</th>
<th>POWR-SLIDER THREE PANEL DARK TINT OR SOLAR GLASS</th>
<th>CAMPER BOOT SLIDER THREE OR FOUR PANELS CLEAR OR LIGHT TINT GLASS</th>
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<tbody>
<tr>
<td>FORD/LINCOLN</td>
<td>58-60</td>
<td>ALL CABS</td>
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<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
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<tr>
<td></td>
<td>61-66</td>
<td>ALL CABS</td>
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<td>TSW184D</td>
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<td>TSW184S</td>
<td>WBL7158</td>
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<tr>
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<td>ALL CABS</td>
<td>3-5/8” x 13-5/8”</td>
<td>TSW184D</td>
<td>TSW184D</td>
<td>TSW184S</td>
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<td></td>
<td>73-79</td>
<td>ALL CABS</td>
<td>3-5/8” x 13-5/8”</td>
<td>TSW184D</td>
<td>TSW184D</td>
<td>TSW184S</td>
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<tr>
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<td>78-82</td>
<td>ALL CABS</td>
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### 1967 TO 2003

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<th>DIMENSIONS</th>
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<th>TRI-VENT THREE PANEL MANUAL REAR SLIDERS</th>
<th>POWR-SLIDER THREE PANEL DARK TINT OR SOLAR GLASS</th>
<th>CAMPER BOOT SLIDER THREE OR FOUR PANELS CLEAR OR LIGHT TINT GLASS</th>
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<tbody>
<tr>
<td>DODGE</td>
<td>67-71</td>
<td>ALL CABS</td>
<td>9” x 13-5/8”</td>
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<td>TSW184S</td>
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<td>72-75</td>
<td>ALL CABS</td>
<td>9” x 13-5/8”</td>
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<td>TSW184S</td>
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<td>76-80</td>
<td>ALL CABS</td>
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<td>TSW184S</td>
<td>WBL7158</td>
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<td>81-86</td>
<td>ALL CABS</td>
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<td>TSW184D</td>
<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
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<td>87-92</td>
<td>ALL CABS</td>
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<td>TSW184D</td>
<td>TSW184S</td>
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<tr>
<td></td>
<td>93-98</td>
<td>ALL CABS</td>
<td>9” x 13-5/8”</td>
<td>TSW184D</td>
<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
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<tr>
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<td>99-03</td>
<td>ALL CABS</td>
<td>9” x 13-5/8”</td>
<td>TSW184D</td>
<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
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### 1967 TO 1992

<table>
<thead>
<tr>
<th>TRUCK VEHICLE</th>
<th>YEARS</th>
<th>MODEL</th>
<th>DIMENSIONS</th>
<th>DUO-VENT FOUR PANEL MANUAL REAR SLIDERS</th>
<th>TRI-VENT THREE PANEL MANUAL REAR SLIDERS</th>
<th>POWR-SLIDER THREE PANEL DARK TINT OR SOLAR GLASS</th>
<th>CAMPER BOOT SLIDER THREE OR FOUR PANELS CLEAR OR LIGHT TINT GLASS</th>
<th>REPLACEMENT REAR GASKET</th>
</tr>
</thead>
<tbody>
<tr>
<td>JEEP</td>
<td>67-70</td>
<td>F-150</td>
<td>7” x 13-5/8”</td>
<td>TSW184D</td>
<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
<td></td>
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<tr>
<td></td>
<td>71-72</td>
<td>F-150</td>
<td>7” x 13-5/8”</td>
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<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
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</tr>
<tr>
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<td>73-74</td>
<td>F-150</td>
<td>7” x 13-5/8”</td>
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<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
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<tr>
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<td>75-77</td>
<td>F-150</td>
<td>7” x 13-5/8”</td>
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<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
<td></td>
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<tr>
<td></td>
<td>78-79</td>
<td>F-150</td>
<td>7” x 13-5/8”</td>
<td>TSW184D</td>
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### 1963 TO 1981

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<th>MODEL</th>
<th>DIMENSIONS</th>
<th>DUO-VENT FOUR PANEL MANUAL REAR SLIDERS</th>
<th>TRI-VENT THREE PANEL MANUAL REAR SLIDERS</th>
<th>POWR-SLIDER THREE PANEL DARK TINT OR SOLAR GLASS</th>
<th>CAMPER BOOT SLIDER THREE OR FOUR PANELS CLEAR OR LIGHT TINT GLASS</th>
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</thead>
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<tr>
<td>INTERNATIONAL</td>
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<td>F-150</td>
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<td>TSW184S</td>
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</tr>
<tr>
<td></td>
<td>71-72</td>
<td>F-150</td>
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<td>TSW184D</td>
<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
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<td>73-74</td>
<td>F-150</td>
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<td>TSW184D</td>
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<td>75-77</td>
<td>F-150</td>
<td>7” x 13-5/8”</td>
<td>TSW184D</td>
<td>TSW184D</td>
<td>TSW184S</td>
<td>WBL7158</td>
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<td>78-79</td>
<td>F-150</td>
<td>7” x 13-5/8”</td>
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<td>WBL7158</td>
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<table>
<thead>
<tr>
<th>BODY SIZE AND INSTALLATION TYPE</th>
<th>YEARS</th>
<th>MODEL</th>
<th>DIMENSIONS</th>
<th>WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H</th>
<th>DUO-VENT</th>
<th>FOUR PANEL MANUAL REAR SLIDERS</th>
<th>TRI-VENT</th>
<th>POWR-SLIDER</th>
<th>CAMPER BOOT SLIDER</th>
<th>REPLACEMENT REAR GASKET</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINI SIZE GASKET SET</td>
<td>81-97</td>
<td>STANDARD CAB</td>
<td>46-3/4&quot; x 12-1/4&quot;</td>
<td>TS957B, TS957LT, TS958T</td>
<td>CLEAR GLASS</td>
<td>LIGHT TINT GLASS</td>
<td>DARK TINT GLASS</td>
<td>SOLAR GLASS</td>
<td>DELUXE POVR-SLIDER</td>
<td>CAMPER BOOT SLIDER</td>
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<tr>
<td>MINI SIZE GASKET SET</td>
<td>86-97</td>
<td>SPACE CAB</td>
<td>49-3/16&quot; x 15-6/16&quot;</td>
<td>TS960B, TS960LT, TS960T</td>
<td>CLEAR GLASS</td>
<td>LIGHT TINT GLASS</td>
<td>DARK TINT GLASS</td>
<td>SOLAR GLASS</td>
<td>TRIVI610T</td>
<td>RSV610BFC</td>
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<tr>
<td>MINI SIZE GASKET SET</td>
<td>88-95</td>
<td>ALL CABS</td>
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<td>LIGHT TINT GLASS</td>
<td>DARK TINT GLASS</td>
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<td>TRIVI610T</td>
<td>RSV610BFC</td>
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<th>DIMENSIONS</th>
<th>WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H</th>
<th>DUO-VENT</th>
<th>FOUR PANEL MANUAL REAR SLIDERS</th>
<th>TRI-VENT</th>
<th>POWR-SLIDER</th>
<th>CAMPER BOOT SLIDER</th>
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<tbody>
<tr>
<td>MINI SIZE GASKET SET</td>
<td>96-03</td>
<td>ALL CABS</td>
<td>55-13/16&quot; x 15-5/16&quot;</td>
<td>ECT989B-#</td>
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<td>LIGHT TINT GLASS</td>
<td>DARK TINT GLASS</td>
<td>SOLAR GLASS</td>
<td>TRIVI610T</td>
<td>EPC984S-#</td>
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<th>MODEL</th>
<th>DIMENSIONS</th>
<th>WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H</th>
<th>DUO-VENT</th>
<th>FOUR PANEL MANUAL REAR SLIDERS</th>
<th>TRI-VENT</th>
<th>POWR-SLIDER</th>
<th>CAMPER BOOT SLIDER</th>
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<td>MINI SIZE BONDED SET</td>
<td>86-97</td>
<td>CAB PLUS</td>
<td>53&quot; x 17-13/16&quot;</td>
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<td>DARK TINT GLASS</td>
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<td>ALL CABS</td>
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<td>EDV966B</td>
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<td>DARK TINT GLASS</td>
<td>SOLAR GLASS</td>
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<th>DIMENSIONS</th>
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<th>TRI-VENT</th>
<th>POWR-SLIDER</th>
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<td>MINI SIZE GASKET SET</td>
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<td>STANDARD CAB</td>
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<td>DARK TINT GLASS</td>
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<th>DIMENSIONS</th>
<th>WINDOW SIZE SHOWN TO VERIFY YOUR SELECTION W x H</th>
<th>DUO-VENT</th>
<th>FOUR PANEL MANUAL REAR SLIDERS</th>
<th>TRI-VENT</th>
<th>POWR-SLIDER</th>
<th>CAMPER BOOT SLIDER</th>
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<th>CAMPER BOOT SLIDER</th>
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<td>BRAT</td>
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<td>DARK TINT GLASS</td>
<td>SOLAR GLASS</td>
<td>TRIVI610T</td>
<td>EPS9197S</td>
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<td>MINI SIZE GASKET SET</td>
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<td>BRAT</td>
<td>46&quot; x 13&quot;</td>
<td>DW1375B</td>
<td>CLEAR GLASS</td>
<td>LIGHT TINT GLASS</td>
<td>DARK TINT GLASS</td>
<td>SOLAR GLASS</td>
<td>TRIVI610T</td>
<td>EPS9197S</td>
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- Flexible Flange Model
- Deluxe Slider with Curved Glass

For Pricing on CRL Products, Call Toll Free (800) 421-6144, or Visit www.crlaurence.com

TOLL FREE FAX (800) 262-3299, www.crlaurence.com TOLL FREE PHONE (800) 421-6144

ALL PRODUCTS F.O.B. NEAREST WAREHOUSE. CALL TOLL-FREE FROM ANYWHERE IN THE U.S.A. OR CANADA. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.
CRL OEM Style Replacement Sliders

- OEM Style and Fit
- Quick Installation
- Gaskets Included


NAGS® numbers are provided for easy reference.

Custom Van Porthole

- The Classic VanAccessory
- 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.
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
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.

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* For the correct trim ring, contact your trim specialist, or the SFC/CRL Auto Technical Center at (800) 732-7663, Ext. 789.
AutoPort

- 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

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.

TECHNICAL DATA

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<td>Extruded Silicone Sponge</td>
<td>Universal, Molded, and Van</td>
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14" X 33" AUTOPORT SUNROOFS

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15" X 30" AUTOPORT SUNROOFS

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17" X 35" AUTOPORT SUNROOFS

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* For the correct trim ring, contact your trim specialist, or the SFC/CRL Auto Technical Center at (800) 732-7663, Ext. 789.
All Sunroofs can be combined for quantity pricing.

CRL/SFC 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. GS1528BH GLASS Solar H.P. TRIM RING Universal

17" X 32" GENESIS SUNROOF
CAT. NO. GS1732BH GLASS Solar H.P. TRIM RING Universal

20" X 32" GENESIS SUNROOF
CAT. NO. GS2032BH GLASS Solar H.P. TRIM RING Universal
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.

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.
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

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.

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**TECHNICAL DATA**

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<td>21-7/8” x 32”</td>
<td>12-1/4” x 23-3/8”</td>
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**OPERATION:** Electric, with Optional Illuminated Switch

**FRAME:** Composite Polymer

**SEAL:** 100% Silicone

**WARRANTY:** 5 Year Limited
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

CRL Permanent Mount Wind Deflectors

- Made from High Quality Acrylic with Smoke Finish
- Aerodynamically Stable at Highway Speeds
- Available in Seven Sizes

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

- Fits Glass Application

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.

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.

Sunroof Installation Tools

CRL Heavy-Duty Air Nibbler
• Cuts Up to 18 Gauge Metal
• Efficient and Powerful
• Easy to Operate and Control

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

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.

The Bosch Unishear Tool is lightweight, easy-to-manuever electric shears 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.
# A to Z Product Index

For pricing on CRL products, call Toll Free (800) 421-6144, or visit www.crlaurence.com

## A

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
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<td>.F104</td>
</tr>
<tr>
<td>Abrasive Belts</td>
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<tr>
<td>Shower Door Pull Handles</td>
<td>.F173</td>
</tr>
<tr>
<td>Adhesive Sprays</td>
<td>.F357</td>
</tr>
<tr>
<td>Adhesives, Auto Glass</td>
<td>.F386</td>
</tr>
<tr>
<td>Adhesives, General</td>
<td>.F351, F359</td>
</tr>
</tbody>
</table>

## B

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back Belts</td>
<td>.F319</td>
</tr>
<tr>
<td>Back Sliders, Pick-Up Truck</td>
<td>.F406 - F413</td>
</tr>
<tr>
<td>Backer Rod Insert Tool</td>
<td>.F344</td>
</tr>
<tr>
<td>Back-to-Back Pull Handles</td>
<td>.F87</td>
</tr>
<tr>
<td>Balancing Clamps</td>
<td>.F234 - F242</td>
</tr>
<tr>
<td>Balances, Window</td>
<td>.F320 - F342</td>
</tr>
<tr>
<td>Band Saw</td>
<td>.F328</td>
</tr>
<tr>
<td>Barn Door Hinges</td>
<td>.F320 - F342</td>
</tr>
<tr>
<td>Barrier System, Bullet Resistant</td>
<td>.F145</td>
</tr>
<tr>
<td>Basket, Utility</td>
<td>.F329</td>
</tr>
<tr>
<td>Battery Cartridges</td>
<td>.F328 - F330</td>
</tr>
<tr>
<td>Belt, sterile</td>
<td>.F329</td>
</tr>
<tr>
<td>Belt, Acid Resistant</td>
<td>.F329</td>
</tr>
<tr>
<td>Ball Bearing Rotors for Anti-Lift &quot;H&quot; Bar</td>
<td>.F329</td>
</tr>
<tr>
<td>Band Saw</td>
<td>.F329</td>
</tr>
<tr>
<td>Barn Door Hinges</td>
<td>.F320 - F342</td>
</tr>
<tr>
<td>Barrier System, Bullet Resistant</td>
<td>.F145</td>
</tr>
<tr>
<td>Basket, Utility</td>
<td>.F329</td>
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<tr>
<td>Battery Cartridges</td>
<td>.F328 - F330</td>
</tr>
<tr>
<td>Belt, sterile</td>
<td>.F329</td>
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<td>Belt, Acid Resistant</td>
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<td>Ball Bearing Rotors for Anti-Lift &quot;H&quot; Bar</td>
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<td>Band Saw</td>
<td>.F329</td>
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<tr>
<td>Barn Door Hinges</td>
<td>.F320 - F342</td>
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<tr>
<td>Barrier System, Bullet Resistant</td>
<td>.F145</td>
</tr>
<tr>
<td>Basket, Utility</td>
<td>.F329</td>
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<td>Battery Cartridges</td>
<td>.F328 - F330</td>
</tr>
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<td>Belt, sterile</td>
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<td>Belt, Acid Resistant</td>
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<td>Ball Bearing Rotors for Anti-Lift &quot;H&quot; Bar</td>
<td>.F329</td>
</tr>
<tr>
<td>Band Saw</td>
<td>.F329</td>
</tr>
<tr>
<td>Barn Door Hinges</td>
<td>.F320 - F342</td>
</tr>
<tr>
<td>Barrier System, Bullet Resistant</td>
<td>.F145</td>
</tr>
<tr>
<td>Basket, Utility</td>
<td>.F329</td>
</tr>
<tr>
<td>Battery Cartridges</td>
<td>.F328 - F330</td>
</tr>
<tr>
<td>Belt, sterile</td>
<td>.F329</td>
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<tr>
<td>Belt, Acid Resistant</td>
<td>.F329</td>
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<tr>
<td>Ball Bearing Rotors for Anti-Lift &quot;H&quot; Bar</td>
<td>.F329</td>
</tr>
<tr>
<td>Band Saw</td>
<td>.F329</td>
</tr>
<tr>
<td>Barn Door Hinges</td>
<td>.F320 - F342</td>
</tr>
<tr>
<td>Barrier System, Bullet Resistant</td>
<td>.F145</td>
</tr>
<tr>
<td>Basket, Utility</td>
<td>.F329</td>
</tr>
<tr>
<td>Battery Cartridges</td>
<td>.F328 - F330</td>
</tr>
<tr>
<td>Belt, sterile</td>
<td>.F329</td>
</tr>
<tr>
<td>Belt, Acid Resistant</td>
<td>.F329</td>
</tr>
<tr>
<td>Ball Bearing Rotors for Anti-Lift &quot;H&quot; Bar</td>
<td>.F329</td>
</tr>
<tr>
<td>Band Saw</td>
<td>.F329</td>
</tr>
<tr>
<td>Barn Door Hinges</td>
<td>.F320 - F342</td>
</tr>
<tr>
<td>Barrier System, Bullet Resistant</td>
<td>.F145</td>
</tr>
<tr>
<td>Basket, Utility</td>
<td>.F329</td>
</tr>
<tr>
<td>Battery Carriages</td>
<td>.F328 - F330</td>
</tr>
<tr>
<td>Belt, sterile</td>
<td>.F329</td>
</tr>
<tr>
<td>Belt, Acid Resistant</td>
<td>.F329</td>
</tr>
</tbody>
</table>

## C

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabinet and Closet Door Catch</td>
<td>.F270</td>
</tr>
<tr>
<td>Closet Door Catch</td>
<td>.F270</td>
</tr>
<tr>
<td>Door Hardware</td>
<td>.F200 - F208</td>
</tr>
<tr>
<td>Glass Door Lock</td>
<td>.F208</td>
</tr>
<tr>
<td>Hinges</td>
<td>.F204 - F206</td>
</tr>
<tr>
<td>Locks</td>
<td>.F206 - F210</td>
</tr>
<tr>
<td>Pivot Hinges</td>
<td>.F201</td>
</tr>
<tr>
<td>Sliding Glass Door Lock</td>
<td>.F208</td>
</tr>
<tr>
<td>Swing-Out Glass Door Lock</td>
<td>.F208</td>
</tr>
<tr>
<td>Cable Display System and Accessories</td>
<td>.F190 - F192</td>
</tr>
<tr>
<td>Cable Shelf Brackets</td>
<td>.F200</td>
</tr>
<tr>
<td>Calculator for Construction</td>
<td>.F201</td>
</tr>
<tr>
<td>Cat-Ice Caulkin Finishing Tool</td>
<td>.F201</td>
</tr>
<tr>
<td>Capsule Mounting System Brackets</td>
<td>.F201</td>
</tr>
<tr>
<td>Cam Locks</td>
<td>.F200, F209 - F210</td>
</tr>
<tr>
<td>Cam Plug</td>
<td>.F201</td>
</tr>
<tr>
<td>Cam and Plug</td>
<td>.F201</td>
</tr>
<tr>
<td>Cane Mesh Sheaves</td>
<td>.F317</td>
</tr>
<tr>
<td>Caps Assemblies for Standoffs</td>
<td>.F186 - F187</td>
</tr>
<tr>
<td>Carbide Circular Saw Blade</td>
<td>.F333</td>
</tr>
<tr>
<td>Cargo Hooks</td>
<td>.F332</td>
</tr>
<tr>
<td>Carrier for Vehicle Side</td>
<td>.F313</td>
</tr>
<tr>
<td>Cartridge Nozzle Caps and Tips</td>
<td>.F344</td>
</tr>
<tr>
<td>Casement Window Locking Handle</td>
<td>.F203</td>
</tr>
<tr>
<td>Cavity Window Glass Door Lock</td>
<td>.F208</td>
</tr>
<tr>
<td>Cash Box Drawer</td>
<td>.F152</td>
</tr>
<tr>
<td>Cash Tray and Transaction Drawer</td>
<td>.F152</td>
</tr>
<tr>
<td>Cashier Windows</td>
<td>.F147</td>
</tr>
<tr>
<td>Catalogs</td>
<td>.F147</td>
</tr>
</tbody>
</table>

## Bottom

<table>
<thead>
<tr>
<th>Product</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom</td>
<td>.F129</td>
</tr>
<tr>
<td>Shoe Spider Fittings</td>
<td>.F129</td>
</tr>
<tr>
<td>Brackets</td>
<td>.F199</td>
</tr>
<tr>
<td>Aluminum Standards</td>
<td>.F199</td>
</tr>
<tr>
<td>Fixed Glass Panels</td>
<td>.F179 - F180</td>
</tr>
<tr>
<td>Spider Fittings</td>
<td>.F180</td>
</tr>
<tr>
<td>Brass Padlock</td>
<td>.F275</td>
</tr>
<tr>
<td>Brass Wall Mounting Towel Bars</td>
<td>.F176</td>
</tr>
<tr>
<td>Bright Finish Adjustable Door Closers</td>
<td>.F96</td>
</tr>
<tr>
<td>Brite Discs</td>
<td>.F381</td>
</tr>
<tr>
<td>Brown Paper and Dispenser</td>
<td>.F381</td>
</tr>
<tr>
<td>BTB Reciprocal Cut-Out Tool, Blades and Accessories</td>
<td>.F777</td>
</tr>
<tr>
<td>Buckets</td>
<td>.F190</td>
</tr>
<tr>
<td>Biscuit</td>
<td>.F269</td>
</tr>
<tr>
<td>Seal Pro</td>
<td>.F269</td>
</tr>
<tr>
<td>Sacker</td>
<td>.F269</td>
</tr>
<tr>
<td>Building Sealant</td>
<td>.F336</td>
</tr>
<tr>
<td>Bottom</td>
<td>.F129</td>
</tr>
</tbody>
</table>

## Other

- **F422** TOLL FREE FAX (800) 262-3299
- **F422** TOLL FREE PHONE (800) 421-6144
- **F422** www.crlaurence.com
<table>
<thead>
<tr>
<th>A to Z PRODUCT INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mirror</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
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<tr>
<td>Mirrored Wardrobe Door Roller</td>
</tr>
<tr>
<td>Mirrors</td>
</tr>
<tr>
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<td></td>
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<tr>
<td></td>
</tr>
<tr>
<td>Miter</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Miterized Mirror Corners, Beveled</td>
</tr>
<tr>
<td>Molding Removal Tools</td>
</tr>
<tr>
<td>Monaco Series Shower Door Hinges</td>
</tr>
<tr>
<td>Monorail Drawer Track Roller</td>
</tr>
<tr>
<td>Morrisite</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Moto Tool Kit</td>
</tr>
<tr>
<td>Motenbrook's Lift Off Removers</td>
</tr>
<tr>
<td>Mounting</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Mullion for Jackson Rim Panic Device</td>
</tr>
<tr>
<td>Multi-Cutter</td>
</tr>
<tr>
<td>Multi-Knife</td>
</tr>
<tr>
<td>Multi-Mag Close-Up Full Image Mirrors</td>
</tr>
<tr>
<td>Multi-Purpose Emergency Escape Tool</td>
</tr>
<tr>
<td>Multi-Purpose Tool Kit</td>
</tr>
<tr>
<td>Multi Spanner Door Glass Tool</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nail Set and Center Punch</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Narrow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drop Plates for Surface Mounted Door Closers ................................</td>
</tr>
<tr>
<td>Floating Headers ...............................................................</td>
</tr>
<tr>
<td>Inset Aluminum Exchange Windows ...........................................</td>
</tr>
<tr>
<td>Sill Aluminum Door Deadlock and Deadlatch ..................................</td>
</tr>
<tr>
<td>Width Floor Mounted Door Closers ...........................................</td>
</tr>
</tbody>
</table>

| Neck Saver         | R384 |
| Neoprene Setting Blocks | R349 |
| Newport Sunroofs    | R415 |
| Nibbler, Mirror Hole | R217 |
| Nibbler Tool for Sunroofs | R389 |
| Night Service Windows | F147 |
| Ninja Cold Knife    | R26 |
| Nissan Frontier Truck Slider | F403 |
| Nite Lock Pins      | R274 |
| No-Draft Speek-Thrus | F148 |
| No-Draft Glass Door Locks | R237 |
| No-Draft Glass Shelf Clips | F212 |
| Non-Adhesive Shipping Pads ................................................ | R280 - R281 |
| Non-Factory Mummering .......................... ................................ | R361 |
| Non-Reflective Window Film ................................................. | R216 |
| Non-Tilt Balance Tensioning Tool ........................................... | R241 |
| Non-Tilt Window Spiral Balances ............................................ | R241 |

<p>| North American Patch Hardware .............................................. | F50 - F51, R4 - R7 |
| Notching Saw for Aluminum ................................................... | R314 |
| Notching Saw for Glass and Mirror .......................................... | R292 |
| Novus Plastic Polishes ........................................................ | R59 |
| Novon Center Punch and Nail Set ............................................. | F226 |
| Oris ................................................................. ................ | R34 |
| Overseal ................................................................. .... | R39 |
| P1 Nozzle Cutters ............................................................ | F370 |
| Noodles, Urethane ............................................................. | R370 |
| Offset ................................................................. . | R13 |
| Free-Swing Arm with Pivot .................................................... | R238 |
| Glass Pilers ................................................................. | R298 |
| Hex Bit Driver ............................................................... | R238 |
| Pivot Hinges ................................................................. | R73 |
| Oil for Glass Cutters ....................................................... | R84 - R89 |
| Osha Knives and Blades ........................................................ | R235 |
| One Step Push Button Cold Knife ............................................ | R379 |
| One-Way Spider Rippers ...................................................... | F125 - F126 |
| Open Cell Pads ............................................................... | R350 |
| Operator Grank Handles ...................................................... | R265 |
| Optically Clear U.V. Adhesive ................................................ | R51 |
| Organizers for Tools ......................................................... | R29 |
| Oscillating Cut-Out Tools and Blades ....................................... | R374 - R376 |
| Outside Corner Extrusion ...................................................... | R223 |
| Oval and Circle Cutters ..................................................... | R286 |
| Oval Shaped Vacuum Cup ....................................................... | R311 |
| Overhead ................................................................. . | R238 |
| Balence Lift Kit ............................................................ | R238 |
| Channel Balance Lift Hook ................................................... | R238 |
| Channel Balances ............................................................. | R238 |
| Concealed Door Closer Accessories ......................................... | R104 - R106 |
| Concealed Door Closer Bodies ................................................. | R104 |
| Concealed Door Closer dos .................................................... | R107 - R107 |
| Concealed Door Closers, Patch Ritting and Door Rail ...................... | F18, R106 |
| Concealed Door Closer Headers .............................................. | F31 - F32, R108 - R109 |
| Concealed Door Closers, Adjustable ........................................ | R107 |
| Track Sliding and Bi-Fold Doors ............................................ | R22 |
| Track Stacking Door System ................................................... | R23 |
| Overlap Hinge ............................................................... | R209 |
| Package Receivers ............................................................ | R153 |
| Pac-n-Roll ................................................................. | R30 |
| Padlock ................................................................. . | R275 |
| Pads for Silicone Clean Up ................................................... | R350 |
| Pads for Stick-On Discs ..................................................... | R307 |
| Paint Protection Strip ...................................................... | R360 |
| Paintable Silicone .......................................................... | R307 |
| Palm Laser ................................................................. | R321 |
| Palm Electric Motor .......................................................... | R224 |
| Pal Street ................................................................. | R321 |
| Pinch Wheel ................................................................. | R321 |
| Parachute Bag ............................................................... | R239 |
| Parallel Arm Brackets .................................................. R39, R96, R101 |
| Partition Post for Counters ................................................ | R211 |
| Patch ................................................................. . | R211 |
| Connectors ................................................................. . | R59 - R60, R70 |
| Door Rails ................................................................. | R15 |
| Door Security Bars .......................................................... | R275 |
| Door Security Locks ........................................................ | R274 |
| Door Security Nuts .......................................................... | R41 |
| Door-Guard Lock ............................................................ | R207 |
| Door Weatherstrips for Doors ................................................ | R16 |
| Pin Removal Pliers ......................................................... | R85 |
| Pinchwell Primer ............................................................. | R363, R365, R367, R369 |
| Pinch Door Handle ........................................................... | R158 - R159 |
| Pinch Handle Cut-Out Knives ................................................ | R380 |
| Pinch Rod Caulking Guns .................................................... | R346 |
| Pivot ................................................................. . | R19, R111 |
| Floor Closer ................................................................. | R19, R111 |
| Free Swinging ............................................................... | R19, R113 |
| Mirror ................................................................. | R230 |
| Overhead Concealed Door Closer ............................................ | R105 |
| Patch Hardware .............................................................. | R6, R64 |
| Plastic ................................................................. . | R361 |
| Brander ................................................................. | R351 |
| Cleaner ................................................................. | R359 |
| Cutter Knife ............................................................... | R235 |
| Cutting Machine ............................................................ | R286 |
| Lined Mirror Mounting Clips ................................................ | R19 |
| Lined Track ............................................................... | R198 |
| Locks ................................................................. . | R198 |
| Polishing ................................................................. . | R359 |
| Plasted Diamond Drill Re-Coating Exchange ................................ | R371 |
| Plasted Diamond Saw Blades ................................................... | R392 |
| Pliers, Window Guide ....................................................... | R392 |
| Plunger Bolt Jig ........................................................... | R247 |
| Plunger Locks ............................................................... | R196, R203, R206, R208, R210 |
| Pneumatic Cut-Out Tools ..................................................... | R374 - R375, R377 |
| Pneumatic Seal and Storm Door Closer ..................................... | R267 |
| Pocket Drive Tool .......................................................... | R336 |
| Pocket Full of Mufflock System ............................................. | R335 |
| Polisher, Electric .......................................................... | R301 |
| Polishes ................................................................. . | R358 - R359 |
| Polishing ................................................................. . | R359 |
| Beltz, Cork ............................................................... | R305 |
| Compound ............................................................... | R263 |
| Cil ................................................................. . | R361 |
| Systems for Glass .......................................................... | R303 |
| Wheels for Glass Rails .................................................... | R303 |
| Wheels for Sliding Glass Doors ............................................ | R308 |
| Wheels for POWR Edger ........................................................ | R308 |
| Polycarbonate Gap Closer for Sliding Glass Doors ......................... | R21 |
| Polycarbonate Wipe with Ripe Weatherstrip ................................ | R65 |
| Polycarbonate for Shower Doors ........................................... | R185 |
| Polysulfide 2-Part Insulating Glass Sealant ................................ | R280 |
| Polyurethane for Condo Sealant ............................................ | R341 |
| Foam ................................................................. | R345 |
| Sealants ................................................................. . | R341 - R342 |</p>
<table>
<thead>
<tr>
<th>A to Z PRODUCT INDEX</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
</tr>
<tr>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>C</strong></td>
</tr>
<tr>
<td><strong>D</strong></td>
</tr>
<tr>
<td><strong>E</strong></td>
</tr>
<tr>
<td><strong>F</strong></td>
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<tr>
<td><strong>G</strong></td>
</tr>
<tr>
<td><strong>H</strong></td>
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<tr>
<td><strong>I</strong></td>
</tr>
<tr>
<td><strong>J</strong></td>
</tr>
<tr>
<td><strong>K</strong></td>
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<tr>
<td><strong>L</strong></td>
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<tr>
<td><strong>M</strong></td>
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<tr>
<td><strong>N</strong></td>
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<td><strong>Q</strong></td>
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<tr>
<td><strong>R</strong></td>
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<tr>
<td><strong>S</strong></td>
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<td><strong>T</strong></td>
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<tr>
<td><strong>V</strong></td>
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<tr>
<td><strong>W</strong></td>
</tr>
<tr>
<td><strong>X</strong></td>
</tr>
<tr>
<td><strong>Y</strong></td>
</tr>
<tr>
<td><strong>Z</strong></td>
</tr>
</tbody>
</table>

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### A to Z PRODUCT INDEX

<table>
<thead>
<tr>
<th>Category</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scalloping Tool for Glass</td>
<td>F285</td>
</tr>
<tr>
<td>Scissors, Metal Cutting</td>
<td>F389</td>
</tr>
<tr>
<td>Sharpening Stones for Diamond Tools</td>
<td>F297</td>
</tr>
<tr>
<td>Set Screw Pulls</td>
<td>F200</td>
</tr>
<tr>
<td>Senior Prima Series Shower Door Hinges</td>
<td>F163</td>
</tr>
<tr>
<td>Specifying Guide Tools</td>
<td>F180, F310, F206</td>
</tr>
<tr>
<td>Shipping Pads, Stuck Non-Adhesive</td>
<td>F280, F312</td>
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When You Use Our A to Z Product Indexes

On The Web...

First log on to www.crlaurence.com and Click on Search A-Z Product Index.

Click on the first letter of the product you are looking for.

Click on the name of the product you are looking for. You'll get a list of colors, sizes or types of the product.

Click on the one you want and the product's offer page will appear with a description and prices for the product.

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Turn to Page F422.

You'll find the A to Z Product Index for this catalog in a neatly organized and easy-to-read format.

Go to the first letter of the product you are looking for.

You'll find it listed alphabetically with the page number where it's shown in this catalog.

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