INSTALLATION INSTRUCTIONS

SERIES 7200 & 7300 WINDOW SYSTEMS





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HANDLING, STORAGE, AND PROTECTION OF ALUMINUM

The following precautions are recommended to protect the material against damage. Following these precautions will help ensure early acceptance of your products and workmanship.

A. HANDLE CAREFULLY.

All aluminum materials at job site must be stored in a safe place, well removed from possible damage by other trades. Cardboard wrapped or paper interleaved materials must be kept dry.

B. CHECK ARRIVING MATERIALS.

Check for quantity counts and keep records of where various materials are stored.

C. KEEP MATERIALS AWAY FROM WATER, MUD, AND SPRAY. Prevent cement, plaster, or other materials from damaging the finish.

D. PROTECT THE MATERIALS AFTER ERECTION.

Protect erected frame with polyethylene or canvas splatter screen. Cement, plaster, terrazzo, other alkaline solutions, and acid based materials used to clean masonry are harmful to the finish. *If any of these materials come in contact with the aluminum, immediately remove with water and mild soap.*

The rapidly changing technology within the architectural aluminum products industry demands that U.S. Aluminum reserve the right to revise, discontinue or change any product line, specification or electronic media without prior written notice.

NOTE: Dimensions in parentheses () are millimeters unless otherwise noted.



GENERAL INSTALLATION NOTES

Recommended guidelines for all installations:

- REVIEW CONTRACT DOCUMENTS. Check shop drawings, installation instructions, architectural drawings, and shipping
 lists to become thoroughly familiar with the project. The shop drawings take precedence and include specific details for the
 project. Note any *field verified* notes on the shop drawings prior to installing. The installation instructions are of a general
 nature and cover most conditions.
- 2. INSTALLATION. All materials are to be installed plumb, level, and true. Install operable windows preglazed only.
- 3. BENCH MARKS. All work should start from bench marks and/or column lines as established by the architectural drawings and the general contractor with guaranteed accuracy. Working from these datum points and lines determine:
 - a) The plane of the wall in reference to offset lines provided on each floor.
 - b) The finish floor lines in reference to bench marks on the outer building columns.
 - c) Mullion spacing from both ends of masonry opening to prevent dimensional build-up of daylight opening.
- 4. FIELD WELDING. All field welding must be adequately shielded to avoid any splatter on glass or aluminum. Results will be unsightly and/or structurally unsound. Advise general contractor and other trades accordingly. All field welds of steel anchors must receive touch-up paint (zinc chromate) to avoid rust.
- 5. SURROUNDING CONDITIONS. Make certain that construction which will receive your materials is in accordance with the contract documents. If not, notify the general contractor in writing and resolve differences before proceeding with work.
- 6. **ISOLATION OF ALUMINUM.** Aluminum to be placed in direct contact with uncured masonry or incompatible materials should be isolated with a heavy coat of zinc chromate or bituminous paint.
- 7. SEALANTS. Sealants must be compatible with all materials with which they have contact, including other sealant surfaces. Consult with sealant manufacturer for recommendations relative to joint size, shelf life, compatibility, cleaning, priming, tooling, adhesion, etc. It is the responsibility of the *Glazing Contractor* to submit a statement from the sealant manufacturer indicating that glass and glazing materials have been tested for compatibility and adhesion with glazing sealants, and interpreting test results relative to material performance, including recommendations for primers and substrate preparation required to obtain adhesion. The chemical compatibility of all glazing materials and framing sealants with each other and with like materials used in glass fabrication must be established. This is required on every project.
- 8. FASTENING. Within the body of these instructions "fastening" means any method of securing one part to another or to adjacent materials. Only those fasteners used within the system are specified in these instructions. Due to the varying perimeter conditions and performance requirements, perimeter and anchor fasteners are not specified in these instructions. For perimeter and anchor fasteners refer to the shop drawings or consult the fastener supplier.
- 9. BUILDING CODES. Due to the diversity in state/provincial, local, and federal laws and codes that govern the design and application of architectural products, it is the responsibility of the individual architect, owner, and installer to assure that products selected for use on projects comply with all the applicable building codes and laws. U.S. Aluminum exercises no control over the use or application of its products, glazing materials, and operating hardware, and assumes no responsibility thereof.
- **10. EXPANSION JOINTS.** Expansion joints and perimeter seals shown in these instructions and in the shop drawings are shown at normal size. Actual dimensions may vary due to perimeter conditions and/or difference in metal temperature between the time of fabrication and the time of installation. Gaps between expansion members should be based on temperature at time of installation.
- 11. RACK TEST. As soon as a representative amount of the wall has been glazed (500 square feet or 46.5 m²) a rack test should be conducted in accordance with AAMA 501.2 specifications to check the installation. On all jobs the rack test should be repeated every 500 square feet (46.5 m²) during the glazing operation.
- 12. COORDINATION WITH OTHER TRADES. Coordinate with the general contractor any sequence with other trades which offset curtain wall installation (i.e. fire proofing, back-up walls, partitions, ceilings, mechanical ducts, converters, etc.).
- **13. CARE AND MAINTENANCE.** Final cleaning of exposed aluminum surfaces should be done in accordance with AAMA 609.1 for anodized aluminum and 610.1 for painted aluminum.
- 14. JOB SITE ESSENTIALS. See pages 14 and 15.

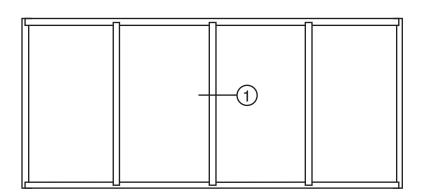


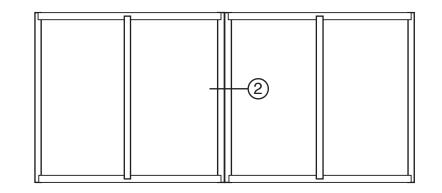
INSTALLATION INSTRUCTIONS

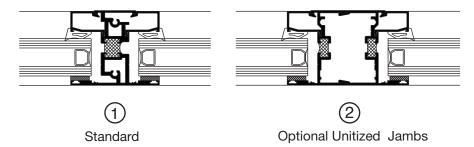
These Instructions Cover installation and Glazing of Project-Out Awning, Project-In Hopper, Casement, Fixed, and Combination Windows.

Allow a minimum clearance of 1/8" (3.2) around the perimeter. Awning, Casement, and Fixed Lite Frames are prefabricated, sealed, and assembled at the factory. Option 2 may require minor assembly in the field. Awning and casement windows may be glazed in the shop or on the jobsite. All fixed lites must be glazed on the jobsite after frame installation. Casement, Awning, and Hoppers should be glazed prior to installation.

Due to the disparity of national and local building codes, these installation instructions do not address specific perimeter application or building envelope issues. It is the responsibility of the Glazing Contractor to ensure that all applicable codes are met in the installation of this system.



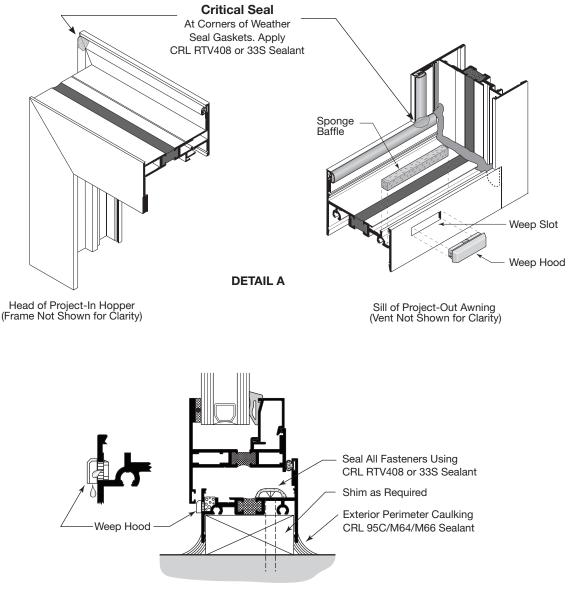






FRAME INSTALLATION

- Visually inspect all frames upon receipt to ensure that Baffles and Weep Hoods have not been jarred loose during shipment. Operable units will have a portion of the exterior bulb gasket removed for pressure equalization. Additionally, inspect corners of all interior Bulb Gaskets at Operable Vents to ensure they are thoroughly sealed. See DETAIL A. Re-apply CRL RTV408 or 33S Sealant as required, leaving vent open for proper drying.
- 2. Shim as required around perimeter of frame. See DETAIL B.
- 3. Set frame in opening, plumb, and level.
- 4. Secure frame to perimeter 3" (76) from corners and 12" (305) on center or as instructed by shop drawings. For combination frames, place perimeter fasteners 3" (76) from intersection of horizontal and vertical members and 12" (305) on center or as instructed by shop drawings. Seal over perimeter fasteners. **See DETAIL B.**
- 5. Apply and tool perimeter sealant around framing. See DETAIL B.

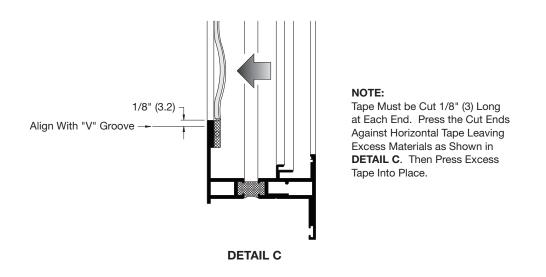






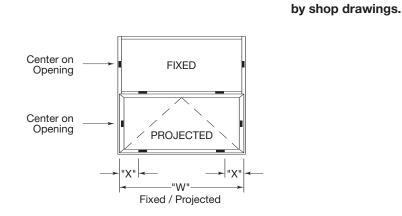
GLAZING See Formulas pages (09-12)

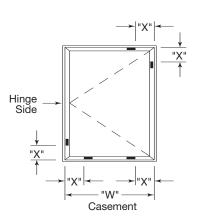
- 1. Cut interior Wedge Gasket (WH344) to size. Gaskets should be 1/8" (3) longer per foot of aluminum member to allow for shrinkage.
- 2. Place Setting Blocks at 1/8 points or as instructed by shop drawings. See DETAIL D.
- 3. Clean glazing fins with CAT. NO. CRL2032 Solvent prior to applying CAT. NO. V210412 Structural Glazing Tape.
- 4. Apply tape full length of horizontal members, flush with the top of the Fin. Apply tape to the vertical members, abutting tightly to the horizontal tape, leaving an extra amount at each end to ensure a tight joint. **See DETAIL C**



5. Position Setting Blocks and Edge Blocks in glass opening as shown in **DETAIL D.** Use CRL RTV408 or 33S Silicone to glue Edge Blocks in place.

X = W/8 or as instructed



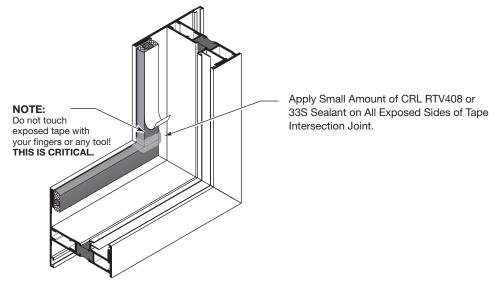


DETAIL D



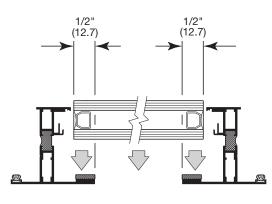
6. Prior to glazing, peel protective paper from the Glazing Tape. **DO NOT TOUCH** exposed tape surfaces with fingers or any tool. Seal tape intersections with CRL RTV408 or 33S sealant. **See DETAIL E.**

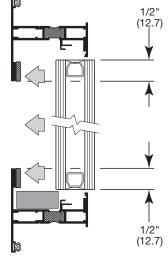
NOTE: Do not leave glazing tape surface unprotected. Paper should only be removed when glass is ready to be set.



DETAIL E

- 7. Before setting glass, clean all contact areas of glass with solvent. It is important that these cleaned areas are not touched or contaminated by foreign matter to ensure a proper seal.
- Install glass onto Setting Blocks. Before setting glass against Tape, check for proper glass bite along the top and sides. Push glass firmly onto the Glazing Tape, making sure that all sides of the glass have uniform contact with the Glazing Tape See DETAIL F. Apply Glazing Stops and Wedge Gaskets to complete glazing.
 - NOTE: Glass must NOT be pulled away from the tape once contact is made. If this occurs, tape must be replaced and glass must be re-cleaned.



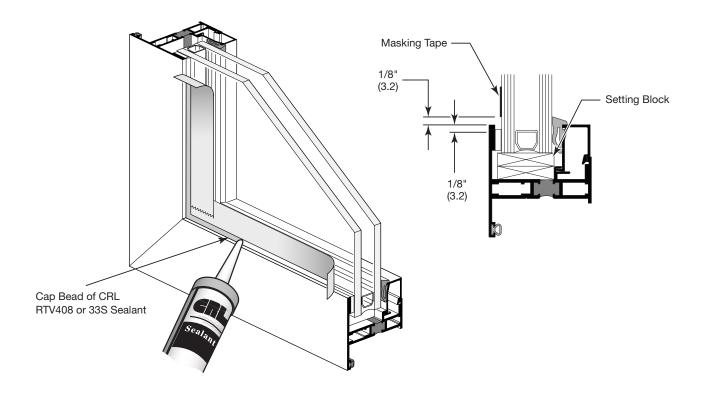




NOT TO SCALE



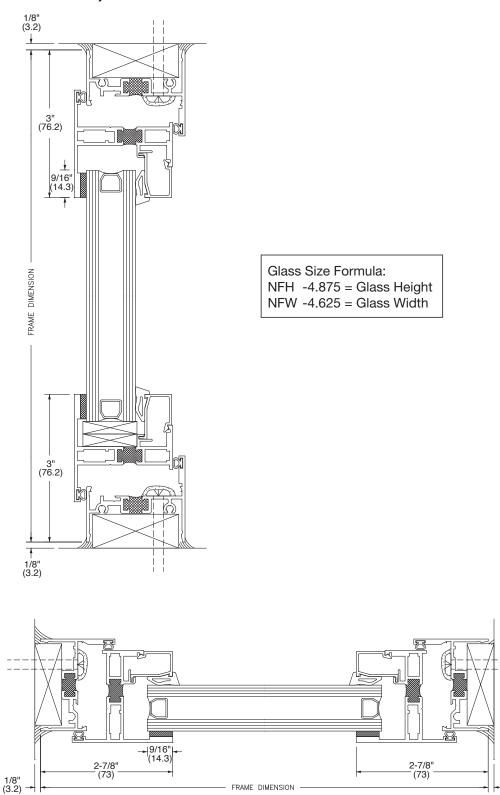
- 9. Mask off perimeter of glass 1/8" (3.2) from aluminum Fin to receive silicone cap bead. See DETAIL G.
- 10. Fill the reveal with CRL RTV408 or 33S Sealant and tool.
- 11. After tooling and while sealant is still wet, carefully remove tape.



DETAIL G



7200 POB/PIT/CSO Glass Formula (POB/CSO SHOWN)

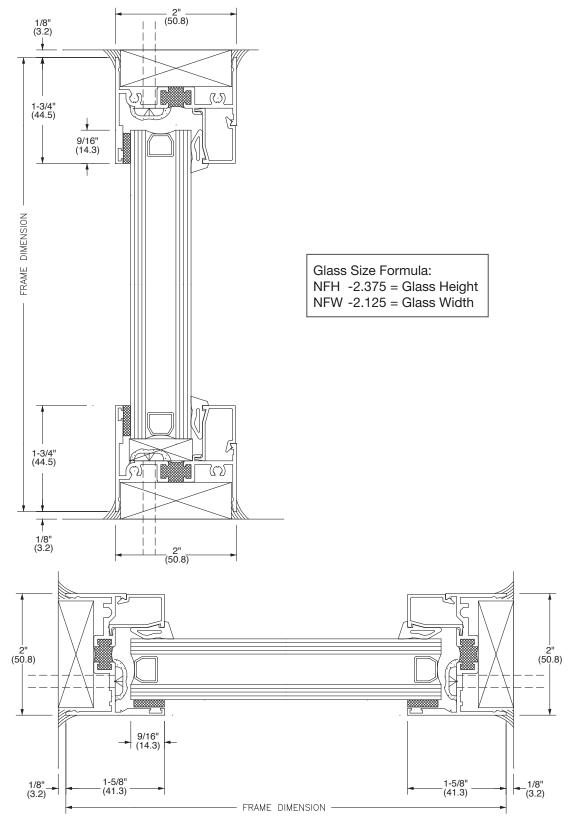


FRAME DIMENSION

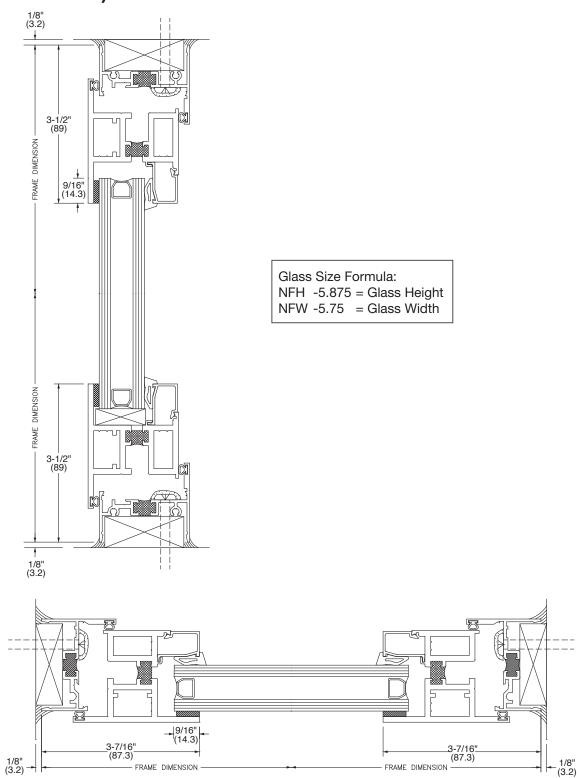


1/8" (3.2)

7200 Fixed Glass Formula

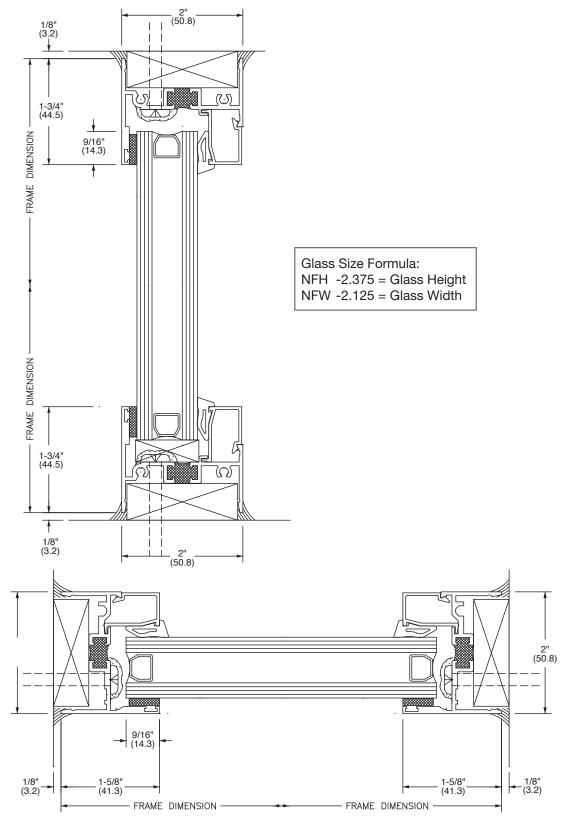


7300 POB/PIT/CSO Glass Formula (POB/CSO SHOWN)





7300 Fixed Glass Formula



GUIDE TO SEALANTS

WATERPROOFING

• 33S ACETIC CURE SILICONE

NOTE: Not for use near insulated glass units with butyl sealant.

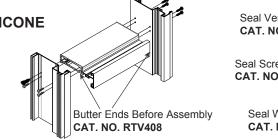
Fill with Sealant to Create a Water Shed. CAT.NO. 33S Sealant Seal Over Screw Heads CAT.NO. 33S Sealant

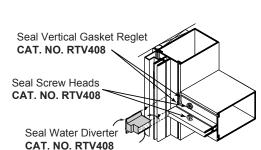
Sill to Subsill, End Dams, Screw Heads and Threshold to Door Frame Sealing.

JOINT ADHESIVE

• RTV408 NEUTRAL CURE SILICONE

NOTE: I.G. butyl contact OK.

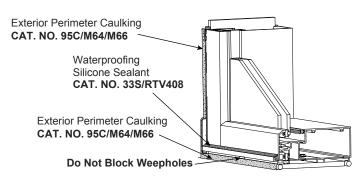




Small Joints, End Joints and Buttered Surfaces, Water Diverters and Reglet Fills.

PERIMETER

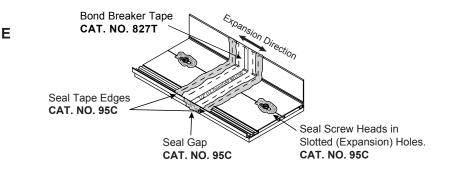
- 95C NEUTRAL CURE SILICONE
- M64 (SMOOTH) MODIFIED POLYURETHANE
- M66 (TEXTURED) MODIFIED POLYURETHANE



Perimeter Seals, Expansion Joints, Sill and Threshold Beds, Concrete, Wood and Steel Openings.

EXPANSION

• 95C NEUTRAL CURE SILICONE



Expansion Joints.

STRUCTURAL

• ALL STRUCTURAL SEALANTS REQUIRE TESTING AND APPROVAL.

Glass to Glass or Glass to Metal.





JOB SITE ESSENTIALS

Helpful Tools and Supplies for Installing CRL U.S. Aluminum **Entrances, Storefronts, Windows, and Curtain Wall Systems**



CRL 95C Silicone Building Sealant CAT. NO. 95C



CRL RTV408 Neutral Cure Silicone CAT. NO. RTV408



CRL 33S Acetic Cure Silicone CAT. NO. 33S



CRL M64 Smooth Texture Modified Polyurethane Construction Sealant CAT. NO. M64GRY



CRL Open Cell Backer Rod CAT. NO. B0CBR58C



CRL Gasket Roller CAT. NO. VR10



CRL Gloves CAT. NO. KF1TL



CRL Tape Measure CAT. NO. 54125

CRL M66 Grainv Texture Modified Polyurethane Construction Sealant CAT. NO. M66



CRL Backer Rod Roller Tool CAT. NO. SBRR

CRL12:1 Ratio Strap Frame Caulking Gun CAT. NO. GA1203



CRL Vacuum Cup CAT. NO. S7950



CRL Complete Set of Seven

All Stainless Steel Spatulas

CAT. NO. AB958G

CRL Saint-Gobain/Norton V2100 Thermalbond[®] Structural **Glazing Spacer Tape**



CRL PHS Series Plastic Horseshoe Shims



CRL Glass Cutters CAT. NO. TC17B



CRL Glass Cleaner CAT. NO. 1973



CRL Running Pliers CAT. NO. PPG1



CRL Glass Wipes CAT. NO. 1550



CRL Gasket Cutter CAT. NO. MC80N







CRL Phenolic L Square CAT. NO. L48



CRL Glass Marking Pencils

CAT. NO. GM44



CRL Spring Clamp

CAT. NO. JC3202HT



CRL Belt Sander CAT. NO. LD321



CRL Glass Grinding Belts CAT. NO. CRL3X21120X



CRL 18V Cordless Driver/Drill **CAT. NO. LD147**



CRL Utility Knife CAT. NO. K82



CRL Utility Knife Blades CAT. NO. 1992C



CRL PAL Digital Level Tool

CAT. NO. 406065

CRL Cordless Screwdriver CAT. NO. LD823



CRL Portable Miter Saw 10" CAT. NO. LS1040



CRL Cougar Carbide Saw Blade CAT. NO. CT10X100



CRL General Purpose Solvent CRL Radians[®] Coveralls[™] and Adhesive Cleaner CAT. NO. CRL2032



CRL Glazier's Rule Holder CAT. NO. RH670

Safety Glasses

CAT. NO. VS0010

CRL Door Jack

CAT. NO. DJ1



CRL Soft-Face Power Hitter CAT. NO. ST57532



CRL All Terrain Dolly CAT. NO. ATD1



CRL Hard Hat CAT. NO. ES3452



CRL Portable Ladder CAT. NO. 6206

