INSTALLATION INSTRUCTIONS

SERIES 8200
HORIZONTAL SLIDING WINDOW
BLOCK OR FIN FRAME
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:

1. 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.

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 with (full or incidental), including other sealant surfaces. It is the sole responsibility of the glass company to consult the sealant manufacturer for recommendations regarding 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 502-08 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 page 18.
SITE PREPARATION

BEFORE INSTALLATION

1. Review and measure the opening.

2. Verify rough window opening size 1/2" (12.7) clearance in both width and height to the window. Verify framing is plumb, straight, and true around window opening. Measure opening at each end and at center vertically and horizontally. Make corrections to openings as required. Measure opening diagonally to check squareness. Chip concrete high points to flush and rounded corners to square.
3. Visually inspect all frames upon receipt. Inspect frame corners for any sealant damages and re-apply CRL RTV408 Silicone Sealant where required. Check sealant at outside frame corners ①. Open the vent side and inspect seals at inside corners ② at jamb/sill intersection. Check and repair joint between vertical and horizontal anchor flanges if applicable. Inspect baffles and weep gates to assure they have not been jarred loose during shipment.

**SASH, GLASS AND OTHER NON-FRAME COMPONENTS ARE NOT SHOWN FOR CLARITY**
GENERAL DRY GLAZING PROCEDURE

**Step 1:** Cut the NP881 Interior Glazing Gasket to size and insert around the perimeter, sealing all end joints.

**Step 2:** Place two SB883 Setting Blocks at the bottom of the frame and at 1/4 points.

**Step 3:** Peel off the tape liner and insert one WB701 Edge Block on each side of the frame.

**Step 4:** Support the frame at a 10º-15º angle and insert the Glass Panel, working it into position against the frame blocks Figure 2.

**Step 5:** Cut and insert each SH865 Glazing Bead. Figure 3

**Step 6:** Cut the NP825 Exterior Gasket for all four sides 1/8" (3.2) longer per foot to allow for shrinkage and bevel cut the ends to assure a good seal. Insert each section using Figure 4 as your guide. Apply CRL RTV408 Silicone Sealant to each end of the gasket as it is installed.

**Step 7:** Seal Exterior of the Beads with CRL RTV408 Silicone Sealant

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**For the best results:**
Remove the gasket material from carton and lay flat in a clean dry area for at least two hours at a temperature above 50°F (10°C), to allow gaskets to recover their shape.

Glaze with gaskets above 40°F (4°C). If necessary warm gaskets before installing. Cut gaskets a minimum of 1/8" (3.2) longer per foot than aluminum extrusion.

Do not stretch gaskets to make them fit. It is very important that gaskets are crowded-in and installed correctly. Corner between gaskets must be cut at correct bevel (miter) to result in a good joint. See Figure 5.
CORRECT USE OF SHIMS

Shims are required to hold the window level and plumb during the fastening and sealing process. They should be used on both the case and finned frames. Shims and fasteners are by others.

1. Close and lock sliding vent.
2. Insert Shims A, B, and C below window sill and adjust until it is level and centered in the opening. Check top rail for sag and correct if necessary by adjusting Shim A.
3. Insert a fastener through sill and Shim A into the opening structure.
4. Insert the Vertical Shims on each side and check for plumb.
5. Add Top Shims to snug window in opening.
6. Continue to fasten window to opening by driving screws through window frame and shims. Seal over screws and all screw heads as shown on Page 08.
SUBSILL (OPTIONAL) FOR BLOCK FRAME WINDOW INSTALLATION:

NOTE: Window MUST be level and square to function properly.

1. Set Subsill in full bed of Cat. No. 95C/M64/M66 Sealant, centered in opening. Shim as required to level.
2. Anchor Subsill into position using fastener type as indicated in approved shop drawings.
3. Use Cat. No. 95C Silicone Sealant to seal around End Dam merging with sealant bed at Subsill and tool smooth.

NOTE: Consult Sealant Manufacturer for Proper Cleaning and Priming Recommendations

NOTE: Sealants must be wet when setting window frame in place

End Dam EC450
Apply Cat. No. 95C Silicone Sealant to seal joint at End Dam
Apply Cat. No. 33S Silicone Sealant Seal over fastener heads

NOTE: If extruded Subsill is not used, it is recommended that a pan flashing be used. Pan flashing design and installation method is not determined by or warranted by U.S. Aluminum. Refer to approved project shop drawings for scope and intent of pan flashing requirements.

PAN FLASHING FOR FIN FRAME WINDOW INSTALLATION:

NOTE: Window MUST be level and square to function properly.

1. Set flashing in full bed of Cat. No. 95C/M64/M66 Sealant, centered in opening.
2. Anchor Subsill into position using fastener type as indicated in approved shop drawings.
3. Seal any joints or gaps and tool smooth.

Seal joints and gaps with Cat No. 33S Silicone Sealant
Apply Cat No. 33S Silicone Sealant to seal over screw heads.
Pan flashing by others

Shim and seal as required
BLOCK FRAME WINDOW INSTALLATION:

1. Place window unit into opening, shimming at jambs to plumb. If using an extruded subsill, run an interior bead of Cat. No. 95C/M64/M66 Sealant at the base of the Subsill Flange and End Dams before inserting window frame.

2. An optional Anchor Trim, Cat. No. SH886, is available for the 8200 Series Window. If using the Anhor Trim method, seal the exterior side of the Anchor Trim before inserting the window, using Cat. No. 95C/M64/M66 Sealant (See illustration below). Insert window while sealant is wet forming a water tight barrier.

3. Anchor the Head, Sill, and Jambs to substrate using one of the methods shown below. When anchoring through head, jamb or sill members, shims must be located at anchor points. Seal screw heads with Cat. No. 33S Silicone Sealant.

4. If using optional Anchor Trim, Cat. No. SH886, fasten window frame to trim. See shop drawings for fastener types and spacing. Seal screw heads with Cat. No. 33S Silicone Sealant.

5. Install Cat. No. PW803 Jamb Filler, and optional Cat. No. SH885 Anchor Trim Cover. Cut covers to length as required.

6. Add Backer Rod, then apply Cat. No. 95C/M64/M66 Sealant to interior and exterior perimeter at head, jambs and sill.
FIN FRAME WINDOW INSTALLATION:

1. The prepared opening should be 1/4" (6) larger on all sides than the window unit.

2. Follow the AAMA "A" or "B" flashing method.

3. An optional Anchor Trim, Cat. No. SH886, is available for the 8200 Series Window. Secure the Anchor Trim to the substrate at the head, jambs, and sill with fasteners. After installing the trim, seal the exterior facing side of Anchor Trim before inserting the window, using Cat. No. 95C/M64/M66 Sealant (See illustration below). Insert window while sealant is wet forming a water tight barrier.

4. Anchor Head, Sill and Jambs to substrate using method shown below. When anchoring through head, jamb or sill members, shims must be located at anchor points. Seal screw heads with Cat. No. 33S Silicone Sealant.

5. Install Cat. No. PW803 Jamb Filler and optional Cat. No. SH885 Anchor Trim Cover. Cut covers to length as required and snap over Anchor Trim.

6. Add Backer Rod, then apply Cat. No. 95C/M64/M66 Sealant to interior and exterior perimeter at head, jambs, and sill.

**Cutting Optional Anchor Trim**

Horizontal Anchor Trim: = Rough Opening.

Horizontal Trim Cover: = Rough Opening.

Cut Vertical Anchor Trim: = Rough Opening minus 2-1/2".

Cut Vertical Trim Cover: = Field cut cover to size (Runs between horizontal trim covers).

Fab frame attachment holes: = Drill 3/16" Dia. Holes for #8 Pan Head Sheet Metal Screws (by others). Consult shop drawings for location and spacing.
PUNCHED OPENINGS FOR BLOCK FRAME WINDOW:

1. When using extruded Subsill, apply continuous bead of **Cat. No. 95C Silicone Sealant** at base of interior vertical legs of Subsill as shown below. Seal joint at Subsill and End Dam. Sealant should be wet when window units are set into place. Perimeter seals must form a water tight barrier between window unit and building structure. See **Detail A**.

2. Place window unit into opening, shimming at jambs to plumb.

3. Anchor the Head and Jamb to substrate using method shown in shop drawings. When anchoring through Head, Jamb or Sill members, shims must be located at anchor points. Seal screw heads with **Cat. No. 33S Silicone Sealant**. When anchoring with **Cat. No. SH886 Jamb Filler**, interior perimeter seals must be applied prior to **Cat. No. SH886 Anchor Trim**. Shim trim angle as required to align with window as shown in shop drawings and anchor to substrate with required fasteners.

4. Screw attach anchor trim to window frame. See shop drawings for fastener types and spacing. Seal screw heads with **Cat. No. 33S Silicone Sealant**.

5. Install **Cat. No. PW803 Jamb Filler** and optional **Cat. No. SH885 Anchor Trim Cover**. Cut covers to length as required and snap over Anchor Trim.

6. Add Backer Rod, then apply **Cat. No. 95C/M64/M66 Sealant** to interior and exterior perimeter at Head, Jambs, and Sill.

7. Apply sealant to interior and exterior reveals at Subsill and window frame joint as shown, using **Cat. No. 33S Silicone Sealant**.

**NOTE:** Consult Sealant Manufacturer for Proper Cleaning and Priming Recommendations

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**DETAIL A**

- Run interior bead up full height of End Dam with **Cat. No. 95C Silicone Sealant**.
- Prior to installing window apply continuous beads of **Cat. No. 95C Silicone Sealant** at base of interior and exterior flanges.
- Apply **Cat. No. 33S Silicone Sealant** to seal over fastener heads.

**NOTE:** Sealants must be wet when setting window frame in place

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**Surrounding structure and sealants not shown for clarity**
MULTI-WINDOW OPENINGS FOR BLOCK FRAME WINDOW:

1. When using extruded Subsill, apply continuous beads of **Cat No. 95C Silicone Sealant** at base of interior vertical legs of Subsill as shown in punched opening section. Sealant should be wet when window units are set into place.

2. Starting at one end, place first window unit into opening, shimming at jamb to plumb.

3. Anchor jamb to substrate using method shown in shop drawings. When anchoring through Head, Jamb or Sill members, shims must be located at anchor points. Seal screw heads with **Cat. No. 33S Silicone Sealant**. When anchoring with interior Anchor Trim, interior perimeter seals must be applied prior to Anchor Trim. Shim trim angle as required to align with window as shown in shop drawings and anchor to substrate with required fasteners. **NOTE:** When using the internal Anchor Trim at head and sill (without Subsill) it is to be installed after all units are in place within opening and runs continuous. See Step 9 below.

4. Insert Mullion onto open Jamb. With Mullion pressed firmly against frame Jamb, match drill for appropriate screw types and attach bottom angle clips to Mullion and Subsill, Pan Flashing or building structure. Refer to approved shop drawing for screw types.

5. Match drill and attach top angle clip to Mullion flush with end just below Mullion End Dam. Shim between top clip and structure. Secure with screws as shown in approved shop drawings. **Use caution not to damage End Dam sealant.**

6. Install next window unit positioning against Mullion. Attach to Mullion and sill structure as described above in previous steps.

7. Continue steps until all units are in place and last unit is secured at wall jamb in same manner as first window unit.

8. Apply **Cat. No. 95C/M64/M66 Sealant** to interior perimeter seal at head prior to installing Head Anchor Trim. Also see note at Step 3 above.

9. Position Anchor Trim Angle at head and/or sill interior. Shim as required to align with window as shown in shop drawings and anchor to substrate with required fasteners.

10. Screw attach Anchor Trim to window frame. See shop drawings for fastener types and spacing. Seal screw heads with **Cat. No. 33S Silicone Sealant**.

11. Install **Cat. No. PW803** Jamb Filler and optional **Cat. No. SH885** Anchor Trim Cover. Cut covers to length as required and snap over Anchor Trim.

12. Apply **Cat. No. 95C/M64/M66 Sealant** to exterior perimeter at head and jambs. Merge jamb sealant with sealant at End Dam at Subsill.

13. Apply remaining interior perimeter seals to jambs. **NOTE:** All perimeter screw heads that penetrate frame members must be sealed with **Cat. No. 33S Silicone Sealant.**
MULTI-WINDOW OPENINGS FOR BLOCK FRAME WINDOW:

14. Pay close attention to sealing area where Pressure Bar traps window frame sill member. Apply bed of Cat. No. 33S Silicone Sealant at bottom of Pressure Bar where it contacts with sill’s interior vertical leg. Perimeter seals will be critical and must form a water tight condition between window units.

15. Center Pressure Bar vertically on exposed window jambs. Attach Pressure Bar to Mullion with Cat. No. MS222 1/4-20 X 1" HWH Screw. Spacing to be from shop drawing.

16. Connect Mullion assembly and window frame jambs together with screws indicated in shop drawings.

17. Fill interior and exterior reveals where window frame and Mullion join as shown using CRL RTV408 Silicone Sealant.

18. Snap interior Mullion Cap onto Pressure Bar. Use caution to avoid denting cap.

INTERIOR ANCHOR TRIM (OPTIONAL)

1. Position Anchor Trim, Cat. No. SH886 around frame perimeter. Shim as required to align with frame. Attach to substrate with fasteners as shown in shop drawings.

2. Apply an interior perimeter seal using Cat. No. 95C/M64/M66 Sealant, to the exterior side of the Anchor Trim prior to installing the window frame. Sealant should be wet when window units are set into place.

3. Screw window frame to Anchor Trim, Cat. No. SH886. See shop drawings for fastener types and spacing. Apply Cat. No. 33S Silicone Sealant to seal screw heads.

4. Install Anchor Trim Snap Covers. Field cut covers to length as required and snap over Anchor Trim. NOTE: Horizontal covers run through and vertical covers run between.

NOTE: If optional Interior Anchor Trim is used, it must be installed prior to installing Mullion Pressure Bar and Cap.
FLASHING FOR FIN FRAME WINDOW INSTALLATION

Step 1: (Methods A and B)

**NOTE:** Corrosion-resistant staples may be stainless steel or copper with 3/8" (9.5) leg for window flashing.

**INSTALLATION INSTRUCTIONS**

**ERECTION:** Add 1/2" (12.7) to height and width of opening for clearance. All window frames shall be set by others in a level, plumb, and square condition without distortion.

Do not let twin and triple units sag in center of sill during installation. Install shims at corners and center of sill before setting window in opening.

Panels must be installed without forcing, springing or bowing. Close and lock operating sash of window to prevent damage.

Units shall be properly caulked to prevent water leakage around the frame.

Fasteners must be driven straight into wall, not at an angle. Power nailers are not recommended since tool is sometimes held at an angle causing bowed frames.

After installation, the General Contractor shall be responsible for protecting the units during the balance of construction. Upon completion of construction, the General Contractor shall be responsible for cleaning the aluminum and glass without the use of abrasive agents.

**CLEANING INSTRUCTIONS:** Use household glass cleaner and/or a mild detergent. Steel wool, abrasive cleaner or wire brushes are harmful to the glass and finish of the aluminum. Semiannual cleaning of the wool pile weatherstrip and weep holes in sill will assure proper insulation and drainage.

**CAUTION:** Spraying with petroleum base material may result in INSULATING GLASS failure and will void glass warranty.
Step 2: (Method A)

Seal the sill of the window frame to opening. Apply Cat. No. 95C/M64/M66 Sealant continuous seal on backside (interior) window sill flange.

Shim and adjust window to achieve square, plumb, and level condition. Use corrosion resistant fasteners. Fasten within 10" and no closer than 5" in each direction from every corner. Secure window around frame opening with equivalent of five fasteners at 15" O.C. maximum.

Step 3: (Method A)

After installation seal all corners of mechanically joined frames. Apply Cat. No. 95C/M64/M66 Sealant to seal frame seam juncture.

Extend jamb flashing beyond sill flashing and above where the flashing will intersect.

Apply Cat. No. 95C/M64/M66 Sealant as a continuous seal to the mounting flanges at the top (head) and sides (jambs) of window. Embed jamb flashing into sealant and fasten in place (flashing goes over sealant).

Step 4: (Method A)

Embed bottom of the head flashing against the previously applied sealant (flashing goes over sealant). Extend head flashing beyond each jamb flashing. Fasten in place.

Apply continuous seal along top (head) mounting flange using, Cat. No. 95C/M64/M66 Sealant. Embed bottom of head flashing against sealant (flashing goes over sealant). Extend head flashing beyond each jamb flashing. Fasten in place.

Step 5: (Method A)

Where recommended as part of exterior wall finish system, install building paper. Apply weatherboard fasteners starting from bottom to top of wall.

Install building paper, insulation board or other material over head flashing and over top of nail-on head flange of window frame.

Minimum Vertical laps per code

Minimum horizontal laps per code

 Exterior wall finish: Install per wall finish manufacturer’s recommendation. Some exterior finishes may require sealing between the perimeter of the window frame and the exterior finish.
FLASHING FOR FIN FRAME WINDOW INSTALLATION

Step 2: (Method B)

Two rows of corrosion resistant staples.

12" (305) wide Fortifiber "Moistop Flashing" Jamb Flashing Paper at both sides of opening. Lap over top of sill flashing. Leave bottom edge unattached.

Step 3: (Method B)

Use Cat. No. 95C/M64/M66 sealant to seal window frame to opening. Apply continuous bead of sealant within 1/2" of edge of opening or the preferred method: Apply continuous sealant on backside of window flanges at head, jamb and sill, then install frame to opening.

NOTE: Check window fins for damage. Repair damaged fins and identify window for later sill track test.

Install roofing nails 1/2" ABOVE top of window fins, bend nail over flange flat.

Step 4: (Method B)

2 rows of corrosion resistant staples.

12"-14" Max. between staples

Install 18" wide R-15 underlayment OVER jamb flanges of window frame.

Step 5: (Method B)

1st Fortifiber "Moistop Flashing" head flashing paper of flexible membrane. Install head flashing paper OVER nail-on head flange of window frame and over tops of jamb flashing papers.

Extend past opening wider than jamb flashing paper.

For high performance wind and water, run a continuous bead of Cat. No. 95C/M64/M66 Sealant between the flashing and the window frame.

Install continuous bead of Cat. No. 95C/M64/M66 Sealant along edge of flashing papers within 1/2" (12.7) of window frame before installing trim on all four sides.
WATERPROOFING

- **CRL 33S ACETIC CURE SILICONE**
  
  NOTE: Not for use near insulating glass units with butyl sealant.

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

JOINT ADHESIVE

- **CRL RTV408 NEUTRAL CURE SILICONE**
  
  NOTE: I.G. butyl contact OK.

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

PERIMETER

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

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

EXPANSION

- **CRL 95C NEUTRAL CURE SILICONE**

Expansion Joints.

STRUCTURAL

- **ALL STRUCTURAL SEALANTS REQUIRE TESTING AND APPROVAL.**

Glass-to-Glass or Glass-to-Metal.
SERIES 8200 HORIZONTAL SLIDING WINDOW

CRL Dry Lubricant for Tracks and Rollers
CAT. NO. SP295

CRL RTV408 Neutral Cure Silicone
CAT. NO. RTV408

1/2" x 1/2" x 2" Neoprene Setting Blocks for Glass Panel Installation
CAT. NO. SB565

Plastic Cleaner and Polish for Removing Fingerprints and Fine Scratches
CAT. NO. CRL10

CRL RTV408 Neutral Cure Silicone
CAT. NO. RTV408

CRL Dry Lubricant for Tracks and Rollers
CAT. NO. SP295

CRL RTV408 Neutral Cure Silicone
CAT. NO. RTV408

1/2" x 1/2" x 2" Neoprene Setting Blocks for Glass Panel Installation
CAT. NO. SB565

Plastic Cleaner and Polish for Removing Fingerprints and Fine Scratches
CAT. NO. CRL10

CRL 10" 144-Tooth Carbide Blade for Cutting Delicate Aluminum Profiles.
Also available in 12"
CAT. NO. CSB10X144ATX

1/16" Rigid Plastic Bearing Shimstrips for Placing and Leveling the Extrusions
CAT. NO. PBS06

Unibit 3 Piece Step Drill Set Drills Sheet Metal and Thin Aluminum without Distortion
CAT. NO. UB123

Aerosol Glass Cleaner
CAT. NO. 1973

10" 144-Tooth Carbide Blade for Cutting Delicate Aluminum Profiles.
Also available in 12"
CAT. NO. CSB10X144ATX

1/16" Rigid Plastic Bearing Shimstrips for Placing and Leveling the Extrusions
CAT. NO. PBS06

Unibit 3 Piece Step Drill Set Drills Sheet Metal and Thin Aluminum without Distortion
CAT. NO. UB123

Aerosol Glass Cleaner
CAT. NO. 1973

18:1 Ratio Caulking Gun
CAT. NO. WG41004XT

CRL Digital Laser Level Tool
CAT. NO. 406065

Metric Long-Arm and Ball End 9-Piece Allen Wrench Set
CAT. NO. 13609

Makita® 18 Volt Cordless Lithium Ion Combo Hammer Drill for Mounting to Concrete
CAT. NO. BHP454

Call today to complete your order!
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