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.

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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. Install operable windows pre-glazed 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 nominal 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. **WATER HOSE TEST.** As soon as a representative amount of the wall has been glazed (500 square feet or 46.5 m²) a water hose test should be conducted in accordance with AAMA 501.2 specifications to check the installation. On all jobs the hose 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.
### IMPORTANT: READ THIS MANUAL THOROUGHLY BEFORE BEGINNING INSTALLATION.

### PARTS LIST - MAIN ASSEMBLIES

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>Description</th>
<th>Shape</th>
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<tbody>
<tr>
<td>RT630</td>
<td>Compensating Head Channel used with RW622</td>
<td></td>
<td>RW622</td>
<td>Compensation Channel Stop used with RT630</td>
<td></td>
</tr>
<tr>
<td>WX820</td>
<td>Jamb</td>
<td></td>
<td>RT693</td>
<td>10° Splayed Mullion Post</td>
<td></td>
</tr>
<tr>
<td>RT652</td>
<td>Head</td>
<td></td>
<td>RT691</td>
<td>10° Splayed Mullion</td>
<td></td>
</tr>
<tr>
<td>RT663</td>
<td>Horizontal Mullion</td>
<td></td>
<td>RW600</td>
<td>Stiffener Anti Buckling Clip for RT761</td>
<td></td>
</tr>
<tr>
<td>RT664</td>
<td>Sill</td>
<td></td>
<td>RW667</td>
<td>Setting Chair used with SB334</td>
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</tr>
<tr>
<td>RW653</td>
<td>Horizontal Stop for RT663</td>
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<td>NP425</td>
<td>Exterior Gasket</td>
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<tr>
<td>RW654</td>
<td>Head Glass Stop for RT652</td>
<td></td>
<td>NP606</td>
<td>Interior Gasket</td>
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<tr>
<td>FF701</td>
<td>Subsill</td>
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<td>NP825</td>
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<tr>
<td>RT769</td>
<td>Female Expansion Mullion</td>
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<td>HC550</td>
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<td>RT761</td>
<td>Male Expansion Mullion</td>
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<td>HC554</td>
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<td>RT605</td>
<td>Subsill for Slab Cover</td>
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<td>WD718</td>
<td>Head End Dam</td>
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<tr>
<td>RT620</td>
<td>Slab Cover Compensation Channel</td>
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<td>WB810</td>
<td>Edge Block 1/16&quot; x 1-1/8&quot; x 6&quot; for Shallow Pocket</td>
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<tr>
<td>RT670</td>
<td>90° Corner Shallow Pocket</td>
<td></td>
<td>WB815</td>
<td>Edge Block 7/16&quot; x 1-1/8&quot; x 6&quot; for Deep Pocket</td>
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<tr>
<td>RT675</td>
<td>90° Corner Deep Pocket</td>
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<td>WB820</td>
<td>Edge Block 9/16&quot; x 1-1/8&quot; x 6&quot; for Top of Glass</td>
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<tr>
<td>RT650</td>
<td>Vertical Mullion</td>
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<td>PT600</td>
<td>Jamb Filler</td>
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## IMPORTANT: READ THIS MANUAL THOROUGHLY BEFORE BEGINNING INSTALLATION.

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<td>ZX771</td>
<td>Slab Cover</td>
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<td>UB625</td>
<td>Weep Hole Baffle</td>
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<td>DJ456</td>
<td>Drill Jig</td>
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<td>EC801</td>
<td>End Dam (Sill)</td>
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<tr>
<td>SB663</td>
<td>Setting Block Horizontal</td>
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<td>VS200</td>
<td>Two Finger Vinyl</td>
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<tr>
<td>SB334</td>
<td>Sill Setting Block</td>
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<td>VS302</td>
<td>Head Exterior Gasket</td>
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<tr>
<td>EC602</td>
<td>Head End Cap (Field Fabricated for Splayed Mullions)</td>
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<td>EC68199</td>
<td>Compensating Head Channel End Dam</td>
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### WATER DIVERTER TABLE

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<tr>
<th>Part Number</th>
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<tr>
<td>WD650</td>
<td>RT650 and RT651</td>
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<tr>
<td>WD652</td>
<td>RT650</td>
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<tr>
<td>WD665</td>
<td>RT675 and RT769</td>
</tr>
<tr>
<td>WD667</td>
<td>RT670 and RT761</td>
</tr>
<tr>
<td>WD669</td>
<td>RT693</td>
</tr>
</tbody>
</table>
FRAME FABRICATION

1. Measure rough opening to determine frame width and height dimension. Allow a minimum clearance of 3/4" (19.1 mm) at header and 3/4" (19.1 mm) at wall jambs and subsill. Extra clearances may be necessary to accommodate building tolerances.

2. Cut members to length:

   Head Comp. Channel and Subsill length = Overall Frame Width plus 3/4" (19.1 mm). Subsill runs through. Use splice sleeves at splice joints if opening exceeds 24' (7.32 m) in width. If entrances occur subsill butts against door jambs.

   Vertical length = Frame Height minus 5/16" (7.9 mm). Verticals run through.

   Horizontal length = Daylight Opening. Horizontals run between verticals. Cut horizontal glazing beads 1/32" (.8 mm) under size for easier installation.

3. Position DJ456 Drill Jig on end of each member and drill holes for assembly screws. Use #7 bit to drill .201" (5.1 mm) holes. Refer to shop drawings for hole locations.

   NOTE: Subsill must extend 3/4" (19.1 mm) outside of frame to allow for last panel installation.

   NOTE: A Hydrapunch die set or Acufab can be purchased to speed up fabrication.
NOTE: Install weep baffle during installation.

NOTE: A Hydropunch die set can be purchased to speed up fabrication.

Drill two 9/32" holes per daylight opening at quarter points.
FRAME ASSEMBLY

The TT601 Unit Glaze System requires that each bay be assembled and glazed simultaneously in order to insert the setting and edge walk blocks properly.

1. Attach the Sill member to Verticals using screw race joinery and seal as shown below. See DETAIL A.

   CRITICAL SEAL AREA
   Apply RTV408 Silicone Sealant to seal joint thoroughly from underside.

   DETAIL A

   Clean and apply RTV408 Silicone Sealant to edges of all Horizontals. Apply sealant into screw race about 1/4" long for screw penetration.

   DETAIL A

   Secure with screws

   #10 x 1" Phil Hex Washer Head sms
   Part #10X1HWSMS

   WX820

   CRITICAL SEAL AREA
   Apply RTV408 Silicone Sealant to seal joint thoroughly from underside.
FRAME ASSEMBLY (CONTINUED)

INSTALL SIDE STIFFENERS

2. Refer to engineering specifications for quantity, location, and length of side stiffeners.

3. Slide in to install. Position 3 inches from top and bottom, and at center of panel. See DETAIL B.

4. Crimp above and below to hold in place. See DETAIL C.

5. Slide in the VS200 vinyl into the RT761 mullion and leave a 1" pig tail at each end and stake in place.
fram e assembly (continued)

install water deflector

6. Apply **CRL RTV408 Silicone Sealant** to vertical glazing pocket at vertical and horizontal intersections. See DETAIL D. Sealant must be applied to three sides of pocket only. Clearance at outside will allow water to run down to the subsill FF701 or RT605.

7. Insert Water Deflector into glazing pocket and slide it down into position. Top of deflector must be flush with horizontal glazing pocket. Apply **CRL RTV408 Silicone Sealant** to three sides of Water Deflector.

**NOTE:** Use Deep Pocket Water Deflector **WD650** with deep pocket mullion, and Shallow Pocket Water Deflector **WD652** with shallow pocket mullion.
8. Apply **RTV408** Silicone Sealant into exterior gasket reglets at corners, 2" (50.8 mm) in each direction. See DETAIL E.

9. Insert Vertical and Horizontal Gaskets as shown. Trim the Horizontal Gasket at an angle to match the Vertical Gasket. This will make for a tight fit at the butt joint. See DETAIL F.
10. Apply a 2" (50.8 mm) bead of RTV408 Sealant to gasket corners just prior to glazing.

**NOTE:** Sealant must be wet when inserting glass.

11. Place setting blocks, **SB663**, at 1/4 or 1/8 points on intermediate horizontal members as per approved shop drawings. Place weep baffles into sill. Use setting block, **SB334**, with setting chair, **RW667**, at sill location, See DETAIL G.

**(Note:** The frame can be glazed while in a flat, horizontal position or in a vertical position.)

---

**Glazing the Frame**

Install glass panel into frame by first angling the panel into the deep pocket. Swing the other end around and into the shallow pocket. Lower the panel down onto the setting blocks.
12. Apply pressure to glass to make contact with the exterior gasket and wet silicone. See DETAIL H.

13. Push in temporary short wedges of the NP606 Gasket to hold glass in place.
FRAME ASSEMBLY (CONTINUED)
GLAZING THE FRAME

14. Secure the glass panel(s) in the frame for transportation or installation by using edge blocks at the head and deep pocket jamb. The added blocking material will prevent horizontal and vertical glass movement.

- Insert Edge Block for shipping. Do not block drainage.
- SB663 Setting Block on intermediate horizontals
- SB334 Setting Blocks
- SB334 Setting Blocks on intermediate horizontals
- No blocking required on shallow jambs
- Deep Pocket Jamb
- Install Head Blocks prior to installing the RW653 Glass Stops
- Edge Blocks approximately 9/16"
15. Secure glass panel with **NP606** Interior Gasket and **RW653** Glass Stop. See DETAIL I.

**SEQUENCE FOR UPPER LITE:**
1. Apply sealant into gap at bottom corners of glass
2. Install **NP606** Gasket full length into vertical gaps along glass
3. Roll-in and trim **NP606** Gasket into bottom gap
4. Silicone ends of Horizontal Gasket and join with verticals
   See DETAIL J

**SEQUENCE FOR LOWER LITE:**
5. Apply **WB820** Head Blocks to Horizontal Mullion
6. Apply sealant into gap at verticals and bottom corners
7. Roll-in Vertical Gaskets
8. Hook **RW653** Glass Stop with Horizontal Mullion
9. Snap Glass Stop into place
10. Apply sealant into gap at head
11. Roll-in **NP606** Gasket

---

**DETAIL I**

**DETAIL J**
INSTALL SUBSILL - FIELD PREPARATION

1. Splice subsill (required every 24 feet). See DETAIL K.

Expansion of Aluminum Extrusions:

Inches of Expansion = Extrusion Length (inches) X Temperature Variation (F°) X .0000129
Millimeters of Expansion = Extrusion Length (m) X Temperature Variation (C°) X .02322

Method A

Apply Bond Breaker Tape to Subsill and Splice Sleeve full length of joint and seal over it with Cat. No. 95C Silicone.

NOTE: CRITICAL SEAL AREA.
LOCATE SPLICE JOINTS AT CENTER OF D.L.O. FOR RUNS GREATER THAN 24' (7.32 M)

1/2” (12.7mm) Expansion Joint is required when Starter Sill exceeds 24’ (7.32 M)

To avoid a three side adhesion apply Bond Breaker Tape to outside of sleeve before installation.

Method B

Splicing the subsill using Dow Corning products.

Dow Corning® 123 Silicone Seal

NOTE: CRITICAL SEAL AREA.
LOCATE SPLICE JOINTS AT CENTER OF D.L.O. FOR RUNS GREATER THAN 24’ (7.32 M)

NOTE: Fasteners Supplied by Others.
INSTALL SUBSILL (CONTINUED) FIELD INSTALL

2. Attach EC801 End Dams to ends of subsill. Apply RTV408 Silicone Sealant to both edges and secure with screws. See DETAIL L.

NOTE: CRITICAL SEAL AREA. Seal over End Dam and heads of fasteners with Cat. No. 95C Silicone Sealant.

3. Set subsill in place. Create weep holes every 24" (610 mm). See DETAIL M.

NOTE: Fasteners Supplied by Others.

**DETAIL L**

**DETAIL M**
INSTALL SUBSILL (CONTINUED) FIELD INSTALL

4. Shim as required. See DETAIL N.

5. Install Subsill against door jamb. See DETAIL O.

Shim between End Dam and wall. Shims by others (typ).

DETAIL N

Shim under fasteners.

Pin Subsill to floor near door jamb to prevent movement. Do not elongate this hole.

NOTE: INSTALL SIDELITE WHILE SEALANT IS STILL WET

Complete fill base of Door Jamb with Cat. No. 33S Silicone Sealant to create a water shed.

Use Cat. No. 33S Silicone Sealant to vertical joint after Sidelite is installed at both interior and exterior.
1. Install directly above Subsill. Ensure plumb and level. See DETAIL P.

2. Cover weep holes in Head and Sill with **UB625** Weep Hole Baffle. See DETAIL Q.

**NOTE:** Head Member Shown.
INSTALL PANELS WITH HEAD CHANNEL - (FIELD OPTIONAL)

1. Lift window over Subsill and up behind the head comp channel. Push back to drop into Subsill. See DETAIL R.

INSTALLATION SEQUENCE
1. Tilt up into anchor head channel
2. Swing bottom over Subsill
3. Down into Subsill and into position

2. Slide Jamb against wall. Install next window and slide to snap into place.

Tip: Use "C" clamps and wood blocks to help snap mullion stiffeners together.

Shim at anchor points.

Butter contact area with Cat.No. 95C sealant

NOTE: Number of clips are to be specified on shop drawings.

RT630

RT651

RT761

RT769

RT761

RW600

Jamb

Shop glazing shown, field glazing similar.

NOTE: Use a temporary shim to keep End Dam tight against Wall Jamb. Remove Shim before sealing perimeter.

Apply RTV408 Silicone to the Subsill before setting each panel.
INSTALL HEAD END CAPS

Required for all mounting conditions

Install End Caps to all vertical members when a Compensation Head Channel is NOT used. Apply **RTV408 Silicone Sealant** to the bottom side of the End Cap. Slide the End Cap into position above the jambs to create a watertight seal.

Run a 3” tall bead of silicone above the Subsill for 12 pounds (test pressure) of water.

Seal between frames and Subsill for 8 pounds (test pressure) of water.

End Caps are required if a Compensation Head Channel is not used.

8” long temporary clip, RW622 and NP825, at the center of each bay.
INSERTING THE UNITS - HEAD CHANNEL (FIELD OPTIONAL)

1. Install Head Stop

   ![Diagram of Head Stop Installation]

   **INSTALLATION SEQUENCE**
   1. Remove temporary short clips. Install the full length RW622 Head Stop while applying forward pressure to the head.
   2. Snap the stop into position.
   3. Insert short wedges between the head and stop to create space for the full length NP825 Gasket. Apply a continuous bead of RTV408 Silicone into the space prior to installing the gasket.
   4. Work NP825 Gasket into RW622 Reglet while moving wedge across as needed. Use liquid glass cleaner to lubricate gasket.

2. Seal Perimeter

   Install a Closed Cell Backer Rod and caulk thoroughly with Cat. No. 95C/M64/M66 to seal exterior. Do not block weep holes.

   ![Diagram of Perimeter Caulking]

   **Exterior Perimeter Caulking**
   - Use Cat. No. 95C/M64/M66

   **Exterior Channel Caulking**
   - Use Cat. No. 95C/M64/M66

   **Closed Cell Backer Rod**

   **Note:** Shop glazed version shown. Field glazed units use same procedures.
ALTERNATE HEAD MOUNTING OPTIONS

**Head Anchor HC550**

**Head Anchor HC311**

**Head Anchor variation of HC550**

**NOTE:** Install Head End Caps to all vertical members. See page 22.
CRITICAL SEALS

**INTERIOR HEAD SECTION**

**CRITICAL SEAL:** Use CRL RTV 408 to seal the expansion joints where it meets the Subsill.

**EXTERIOR HEAD SECTION**

**CRITICAL SEAL:** Use CRL RTV 408 to form a continuous Cap Bead along the Head and Top Compensation Channel.

Apply **CRL RTV 408 Sealant** between all vertical expansion joints **BEFORE** attaching the RW622 Compensation Channel Stop. Additionally, all connection joints of vertical members that will be covered by the RW622 should be filled with sealant. This includes jambs, mullions, splayed verticals and SG joints.

Apply a continuous bead of **CRL RTV 408 Sealant** to the exterior sill where it joins the Subsill. A vertical bead up to 4” may be required to meet testing specifications (Refer to testing report for more information)

**CRITICAL SEAL:** Use CRL RTV 408 to seal along the exterior Subsill and into gaps between Vertical Mullions.
GUIDE TO SEALANTS

NOTE: All sealants must be tooled to ensure proper adhesion.

WATERPROOFING

• **33S ACETIC CURE SILICONE**
  Sill to Subsill, End Dams, Screw Heads, and Threshold to Door Frame Sealing.

  Seal Over Screw Heads
  CAT. NO. 33S

  Fill with Sealant to Create a Water Shed.
  CAT. NO. 33S

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

EXPANSION

• **95C SILICONE BUILDING SEALANT**
  Expansion Joints.

  Bond Breaker Tape
  CAT. NO. 827T

  Seal Tape Edges
  CAT. NO. 95C

  Seal Gap
  CAT. NO. 95C

  Seal Screw Heads in Slotted (Expansion) Holes.
  CAT. NO. 95C

JOINT ADHESIVE

• **RTV408 NEUTRAL CURE SILICONE**
  Small Joints, End Joints and Buttered Surfaces, Water Diverters, End Dams, and Reglet Fills.

  Fill Screw Reglet Ends
  with CAT. NO. RTV408

  Butter Ends Before Assembly
  CAT. NO. RTV408

  Seal Vertical Gasket Reglet
  CAT. NO. RTV408

  Seal Screw Heads
  CAT. NO. RTV408

  Seal Water Diverter
  CAT. NO. RTV408

  NOTE: I.G. butyl contact OK.

PERIMETER

• **95C SILICONE BUILDING SEALANT**
  (Preferred)

• **M64 (SMOOTH) MODIFIED POLYURETHANE**

• **M66 (TEXTURED) MODIFIED POLYURETHANE**
  Perimeter Seals, Expansion Joints, Sill and Threshold Beds, Concrete, Wood, and Steel Openings.

  Exterior Perimeter Caulking
  CAT. NO. 95C/M64/M66

  Exterior Perimeter Caulking
  CAT. NO. 95C/M64/M66

  Waterproofing Silicone Sealant
  CAT. NO. 33S/RTV408

  Do Not Block Weep Holes

STRUCTURAL

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

  Glass-to-Glass or Glass-to-Metal