Thank you for your purchase of the C.R. Laurence Co. Inc. Unit Glaze System. It is designed to install easily and efficiently. Please take time to review this manual before you begin.

**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:

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. **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 502-08 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.
ORDER OF ASSEMBLY AND INSTALLATION

GENERAL INSTALLATION NOTES ........................................................................... 03
PRODUCT DESCRIPTION .......................................................................................... 05
PARTS LIST ............................................................................................................. 06
FABRICATION .......................................................................................................... 07 - 09
  CUT SIZE CALCULATIONS .................................................................................. 07
  DRILLING ATTACHMENT HOLES ....................................................................... 08
  INSTALLING TW700 STIFFENER CLIPS .......................................................... 08
  FABRICATE SILL WEEP HOLES ....................................................................... 09
  FABRICATE TW703 WEEP HOLES .................................................................... 09
  FABRICATE HORIZONTAL FACE CAP WEEP HOLES ......................................... 09
ASSEMBLY ............................................................................................................... 10 - 19
  FRAME MEMBER CONNECTION ........................................................................ 10
  FRAME SEALING ................................................................................................. 11
  FILLER PLATE ATTACHMENT .......................................................................... 11
  WATER DEFLECTORS (ONLY AT JAMBS) ......................................................... 12
  SETTING BLOCKS ................................................................................................. 13
  GASKET INSTALLATION (FACE CAPS) .............................................................. 14
  GASKET INSTALLATION (FRAME) .................................................................... 15
  GLAZING END SECTIONS .................................................................................. 16
  GLAZING INTERMEDIATE SECTIONS ................................................................. 17
  INSTALLING FACE CAP CLIPS ......................................................................... 18
  FACE COVER INSTALLATION ........................................................................... 18
  VERTICAL FACE CAP INSTALLATION ............................................................... 19
  HORIZONTAL FACE CAP INSTALLATION ......................................................... 19
INSTALLATION ........................................................................................................ 20 - 25
  SUBSILL END DAMS ......................................................................................... 20
  SUBSILL INSTALLATION .................................................................................... 20 - 21
  HEAD ANCHORS ................................................................................................. 22
  INSERTING THE PANELS .................................................................................. 23
  FASTEN HEAD ANCHORS ................................................................................ 24
  SEAL END JAMB ................................................................................................. 24
  SEALING THE SUBSILL ..................................................................................... 25
  FINAL SEALING ................................................................................................ 25
GUIDE TO SEALANTS ............................................................................................. 26
PRODUCT DESCRIPTION

ABOUT THE SSG UNIT GLAZE SYSTEM

This Installation Manual covers the general procedures required for the Unit Glaze System. Please review it thoroughly before starting your installation. Each fully glazed panel is fabricated to specifications in the shop rather than on the job site. This gives the contractor access to in-house equipment and fixtures not available in the field. It also provides a cleaner and safer environment for fabrication and inspection. Once the Unit Glaze panels are complete they are easily transported to the job where they are positioned and snapped into place. After installation they are sealed to the structure.

TOP VIEW

Frames may be shop fabricated and shipped to job site partially or totally assembled. Systems feature screw race joinery and allow for interior or exterior assembly. Frames are fabricated in units and snapped together. Each unit must have at least one vertical deep pocket to allow for glazing. Plan units accordingly.

See DETAIL A. Never allow two shallow pockets to face each other.
## SERIES 4500 UNIT GLAZE SYSTEM

### PARTS LIST

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Image</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TW718</td>
<td><img src="image1.png" alt="Mullion" /></td>
<td>Mullion</td>
</tr>
<tr>
<td>PS145</td>
<td><img src="image2.png" alt="Jamb Filler" /></td>
<td>Jamb Filler</td>
</tr>
<tr>
<td>TW700</td>
<td><img src="image3.png" alt="Stiffener Clip" /></td>
<td>Stiffener Clip</td>
</tr>
<tr>
<td>TW770</td>
<td><img src="image4.png" alt="Male Vertical Mullion" /></td>
<td>Male Vertical Mullion</td>
</tr>
<tr>
<td>TW771</td>
<td><img src="image5.png" alt="Female Vertical Mullion" /></td>
<td>Female Vertical Mullion</td>
</tr>
<tr>
<td>TW917</td>
<td><img src="image6.png" alt="Horizontal Face Cap" /></td>
<td>Horizontal Face Cap</td>
</tr>
<tr>
<td>TW703</td>
<td><img src="image7.png" alt="Sub Sill" /></td>
<td>Sub Sill</td>
</tr>
<tr>
<td>TW747</td>
<td><img src="image8.png" alt="Sill" /></td>
<td>Sill</td>
</tr>
<tr>
<td>TW728</td>
<td><img src="image9.png" alt="Horizontal Mullion" /></td>
<td>Horizontal Mullion</td>
</tr>
<tr>
<td>TW912</td>
<td><img src="image10.png" alt="Vertical Face Cap" /></td>
<td>Vertical Face Cap</td>
</tr>
<tr>
<td>TW744</td>
<td><img src="image11.png" alt="Head" /></td>
<td>Head</td>
</tr>
<tr>
<td>DJ751</td>
<td><img src="image12.png" alt="Drill Jig" /></td>
<td>Drill Jig</td>
</tr>
<tr>
<td>EC680</td>
<td><img src="image13.png" alt="End Dam" /></td>
<td>End Dam</td>
</tr>
<tr>
<td>HC751</td>
<td><img src="image14.png" alt="Head Anchor" /></td>
<td>Head Anchor</td>
</tr>
<tr>
<td>NP716</td>
<td><img src="image15.png" alt="Interior Sponge Gasket" /></td>
<td>Interior Sponge Gasket</td>
</tr>
<tr>
<td>NP726</td>
<td><img src="image16.png" alt="Exterior Dense Gasket" /></td>
<td>Exterior Dense Gasket</td>
</tr>
<tr>
<td>VS302000012</td>
<td><img src="image17.png" alt="Weather Gasket" /></td>
<td>Weather Gasket</td>
</tr>
<tr>
<td>SP250</td>
<td><img src="image18.png" alt="Silicone Spacer Gasket" /></td>
<td>Silicone Spacer Gasket</td>
</tr>
<tr>
<td>WB701</td>
<td><img src="image19.png" alt="Edge Block" /></td>
<td>Edge Block</td>
</tr>
<tr>
<td>SB710</td>
<td><img src="image20.png" alt="Setting Block" /></td>
<td>Setting Block</td>
</tr>
<tr>
<td>WD710</td>
<td><img src="image21.png" alt="Water Deflector" /></td>
<td>Water Deflector</td>
</tr>
<tr>
<td>WD711</td>
<td><img src="image22.png" alt="Water Deflector" /></td>
<td>Water Deflector</td>
</tr>
<tr>
<td>NC900</td>
<td><img src="image23.png" alt="Face Cap Retainer Clip" /></td>
<td>Face Cap Retainer Clip</td>
</tr>
<tr>
<td>8X12PHPSMS</td>
<td><img src="image24.png" alt="8 x 1/2” Pan Head Phillips Sheet Metal Screw" /></td>
<td>8 x 1/2” Pan Head Phillips Sheet Metal Screw</td>
</tr>
<tr>
<td>ST251</td>
<td><img src="image25.png" alt="#10 x 1” Hex Head Washer Screw" /></td>
<td>#10 x 1” Hex Head Washer Screw</td>
</tr>
</tbody>
</table>

[cr Laurence](#) | [USALUM](#)
FABRICATION

CUT SIZE CALCULATIONS

Measure ROUGH OPENING to determine FRAME DIMENSION. Allow a minimum clearance of 1-1/2" (38.1) at header and 1-1/2" (38.1) at wall jambs and subsill. Extra clearances may be necessary to accommodate building tolerances.

Cut members to size

Subsill: Overall FRAME WIDTH PLUS 1" (25.4). Subsill must extend 1" (25.4) outside of last wall jamb to allow last panel installation. Subsill runs through. If opening exceeds 24’ (7.32 m) in width splice sleeves must be used at splice joints. If entrances occur subsill should butt against door jambs.

Verticals: FRAME HEIGHT MINUS 5/16" (7.9). Verticals run through.

Horizontals: DAYLIGHT OPENING. Horizontals run between verticals. Cut horizontal glazing beads 1/32" (0.8) undersize for easier installation.

Vertical Trims: FRAME HEIGHT MINUS 5/16" (7.9). Verticals run through.

Horizontal Trims: END HORIZONTALS: Daylight Opening plus 1-1/16" (27).
CENTER HORIZONTALS: Daylight Opening plus 2-1/8" (54).

NOTE: Subsill must extend 1” (25.4) outside of frame to allow for last panel installation
FABRICATION

DRILLING ATTACHMENT HOLES
Mark the location of horizontals in vertical members and drill holes for assembly screws. The use of drill jigs is recommended. Place jig over glazing edge.

INSTALLING TW700 STIFFENER CLIPS
Slide the TW700 Stiffener Clip into TW770 split mullion. Position clips and stake in place.

NOTE: The length, quantity and spacing of the TW700 Stiffener Clips MUST be determined by a qualified engineer.
FABRICATION

FABRICATE SILL WEEP HOLES
Fabricate one 2" (50.8) weep hole 6" (152.4) from each end of all sills.

NOTE: One weep hole each end of all sills.

FABRICATE TW703 WEEP HOLES

FABRICATE HORIZONTAL FACE CAP WEEP HOLES

NOTE: One weep hole each end of all horizontal face caps. See DETAIL G.
ASSEMBLY

FRAME MEMBER CONNECTION

Apply silicone to ends of horizontal members and assemble panels using screws provided. Tool excess silicone.

Four Cat.No. ST251 #10 x 1" Hex Head Phillips Assembly Screws (Three screws per joint at head and sill, four at horizontal members)

Clean and apply Cat.No. RTV408 silicone sealant to ends of all horizontal members before assembling.

DETAIL H
ASSEMBLY

FRAME SEALING
After panels are assembled apply bead of silicone to joint between verticals, horizontals, head and sill members from underside, including over all screw threads to ensure a watertight installation.

FILLER PLATE ATTACHMENT
Apply Cat. No. RTV408 Silicone Sealant on jamb before snapping jamb fillers to back of wall jamb.
ASSEMBLY

WATER DEFLECTORS (ONLY AT JAMBS)

Apply silicone to vertical glazing pocket and gasket reglet at vertical/horizontal intersection. Silicone must be applied to two sides of pocket only. Clearance at exterior side will allow infiltrated water to run down to subsill. See DETAIL K.

Insert water deflector into glazing pocket and slide it down into position. See DETAIL L. Top of deflector must be flush with horizontal glazing pocket.

NOTE: Water deflectors applied to door jambs must be sealed all around to prevent water from running to floor (Water will drain at opposite end).

Apply sealant to two sides of the glazing channel at the vertical and horizontal joints before inserting water deflectors.

Fill gasket reglet with sealant after water deflector is installed.

Seal joints at horizontal and vertical members

Water deflector as viewed from the top.

Seal and tool all horizontal joints around water deflector leaving a gap on the exterior sides.

DETAIL K

DETAIL L
ASSEMBLY

SETTING BLOCKS

Locate two setting blocks at quarter points or eighth points as shown on approved shop drawings.

Peel off paper backing from edge blocks and locate one on each vertical at mid-points of the glass height.

NOTE:
Due to glass tolerances, side blocks may be installed after glass is in place.
ASSEMBLY

GASKET INSTALLATION (FACE CAPS)

NP726 EPDM Exterior Dense gasket is used on all Face Caps. Vertical face gaskets run continuous and should be cut 1" (25.4) long on each end to allow for shrinkage.

Horizontal Trim Plates

Top gasket runs full length. Cut 1/4" (6.4) longer on each end.

Bottom gasket runs for 8" (203.2) then a 10" (254) gap from each end.

Vertical Face Plates

Only used with jambs

Crimp ends of reglets at bottom of Vertical Face Caps.

DETAIL O
ASSEMBLY

GASKET INSTALLATION (FRAME)

NP716 sponge glazing gasket is used on the interior framing members. Insert push-in gaskets into all back members and face covers. Vertical gaskets on the mullions run through. Horizontal gaskets butt against vertical gaskets and are silicone together.

**NOTE:** All glazing gaskets should be cut 1/8” (3.2) longer per foot of aluminum member to allow for shrinkage.

**NOTE:** All gasket butt joints require silicone adhesive.

Start glazing at bottom and work up.

NOTE: Vertical gaskets stop at intermediate mullions to allow for End Dam and Water Diverter installation. They extend approximately 1/2” (12.7) past edge of Horizontal Mullion.

- Cut gasket square to mate up against vertical gasket. Butter end before joining.

**CRITICAL SEAL**

Butter both ends of Horizontal and Vertical Gaskets before installing. Apply silicone 3” (76.2) on verticals and full length on horizontals.
NOTE: When setting the glass, the upper and lower glass MUST BE in line at all verticals.

GLASS FORMULAS
Vertical = D.L.O. + 1" (25.4)
Horizontal = D.L.O. + 1-3/8" (34.9)

**ASSEMBLY**

**GLAZING END SECTIONS**

**DETAIL Q**
- PS145 Jamb Filler
- TW718
- TW770
- TW700
- 1/2" (12.7)
- 7/8" (22.2)
- Daylight Opening
- Side Block
- Tooled Structural Sealant

**DETAIL R**
- TW728
- Cat. No. RTV408 Sealant End Dam Tooled Flat
- Setting Block

**DETAIL S**
- TW700
- Cat. No. RTV408 Sealant End Dam Tooled Flat
- Tooled Structural Sealant
- Adhesive Side Blocks

**GLASS FORMULAS**
Vertical = D.L.O. + 1" (25.4)
Horizontal = D.L.O. + 1-3/8" (34.9)
NOTE: When setting the glass, the upper and lower glass MUST BE in line at all verticals.

GLASS FORMULAS
Vertical = D.L.O. + 1" (25.4)
Horizontal = D.L.O. + 1-3/4" (44.5)
ASSEMBLY

INSTALLING FACE CAP CLIPS

Install NC900 Face Cap Clips using spacing guidelines below. To install Face Cap Clips, twist clockwise. See DETAIL V.

NC900 Face Cap Clip Spacing

Horizontal Members:
2" (50.8) from each end
2" (50.8) from center of each lite
6" (152.4) on center MAX.

Vertical Members: (Jambs only)
2" (50.8) from each end
2" (50.8) from center of Horizontal Member
6" (152.8) on center MAX.

Splice Joints:
2" (50.8) from each side of Joint

VERTICAL FACE CAP INSTALLATION

Install Vertical Face Caps on end jambs and door jambs from top to bottom and in between Horizontal Face Caps. Care must be taken to prevent damage of Face Caps during installation. See DETAIL W.

Use a 2" x 4" (50.8 x 101.6) piece of wood with Cat. No. ST57534 CRL 52 oz. Stanley® No Bounce Soft-Face Power Hitter Mallet to engage Face Caps. Use the markers on the glass indicating NC900 Face Cap Clip locations to engage Face Caps. See DETAIL X.

ONLY HIT COVERS AT FACE CAP CLIP LOCATIONS.

1. Fit vertical Face Cap onto jambs.

2. Use wood block and Cat. No. ST57534 Mallet to install.

HIT ONLY AT FACE CAP CLIP LOCATION.

DETAIL V

DETAIL W

DETAIL X
ASSEMBLY

VERTICAL FACE CAP INSTALLATION

Pinning of Vertical Face Caps is required to prevent covers from sliding. Use one screw per cut length nearest the center of the length. Locate the screw so that it rests on the tip edge of the bottom wall of the Horizontal Face Cap, concealed from view.


HORIZONTAL FACE CAP INSTALLATION

Install Horizontal Face Caps. Use same procedure as Vertical Face Caps, striking the covers only at Face Cap clip locations. Always install horizontal face covers with beveled edge on top.

1. Fit Horizontal Face Caps onto horizontal members.

2. Use wood block and Cat. No. ST57534 Mallet to install. HIT ONLY AT FACE CAP CLIP LOCATION.

NOTE: 1/16” (1.6) MAX gap between Caps at jamb, 1/8” (3.2) MAX at split mullions.
INSTALLATION

SUBSILL END DAMS

Apply end dams to ends of subsill. Do not apply end dams to ends that butt against door jambs.

NOTE: Clean all surfaces prior to applying sealants. See sealant manufacturer requirements. TYPICAL AT ALL CONDITIONS

SUBSILL INSTALLATION

Set subsill in place, shimmed as required for leveling and anchor it to structure. Locate fasteners 6" (152.4) each side of verticals and 24" (609.6) O.C. or as required. Holes for fasteners should be elongated laterally to allow for thermal movement. Pin subsill to structure at one point only per cut length. (This hole is not elongated). Subsill should be shimmed at fasteners location and underneath verticals. Seal around all joints and over head of fasteners.

NOTE: The equivalent to two weep holes per lite are required
SUBSILL INSTALLATION (CONTINUED)

When end of subsill butts against door jamb it cannot be dammed to allow for sidelite installation. Special care should be taken to control water infiltration at this joint.

Infiltrated water from upper lites must be kept out of door jambs.

Splice subsill as required. Splice sleeves are required at splice joints. Locate splice sleeves near center Daylight Opening.

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

Splice sleeve

 Seal full length of splice

Expansion direction

1/2” (12.7) 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

Apply bond breaker tape to subsill and splice sleeve full length of joint and seal over with Cat. No. RTV 408 Silicone Sealant.

NOTE: INSTALL SIDELITE WHILE SEALANT IS STILL WET

Completely fill base of door Jamb with Cat. No. 33S Silicone Sealant, creating a water shed.

Silicone Vertical Joint after sidelite is installed (at both interior and exterior)

DETAIL CC

Pin subsill to floor near door Jamb to prevent movement. (Do not elongate this hole).

DETAIL DD
INSTALLATION

HEAD ANCHORS

Install snap in covers and head anchors. Tape head anchor in place. Mullion caps installed after panels are pushed together.

Hole size to be 1/32" larger than the anchor bolt diameter. See shop drawings for size, location and quantity per bay.

Insert VS302000012 Weather Gasket.
INSTALLATION

INSERTING THE PANELS

If there are no entrances start installation at wall jamb unit. Apply silicone to end dam contact area. Tuck the panel in from the exterior and then slide up against the end dam.

Cat.No. 95C
Butter contact area with sealant

NOTE: Use a temporary shim to keep end dam tight against wall jamb. Remove shim before sealing perimeter.

Apply sealant to the sub sill just before setting the panel.

Shim at anchor points.

Butter the end of horizontal face plates and top exterior gasket before setting the next panel.

DETAIL FF

DETAIL GG
INSTALLATION

FASTEN HEAD ANCHORS
Fasten head anchors to the structure using specified fasteners.

NOTE: 1/2" (12.7) Minimum clearance between head and structure required to allow for vertical expansion. Anchors may be shimmed if required.

SEAL END JAMB
The last glazed panel will require a 1" (25.4) gap between the Jamb and the Wall to allow room for inserting it into the subsill. Once the panel is in place. Seal it to the sub sill and wall using Cat. No. 95C Silicone Sealant.
INSTALLATION

SEALING THE SUBSILL

Seal joints between panels and subsill at both inside and outside.

CRITICAL SEAL
Cat. No. 95C Silicone seal the exterior gap.

Panels must be pushed tight against subsill inside upturned leg before fastening head and caulking sill.

CRITICAL SEAL
Silicone seal the interior gap.

FINAL SEALING

All exterior perimeter seals must be done as a secondary operation from the exterior. See Detail KK.
Seal interior perimeter at sill and 8" (203.2) up where panels meet. See Detail LL.
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.

- **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. 8277

- **Seal Tape Edges**
  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**
  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**

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

STRUCTURAL

• **ALL STRUCTURAL SEALANTS REQUIRE TESTING AND APPROVAL.**
Glass-to-Glass or Glass-to-Metal