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 CRL 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.
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. STEEL ANCHORS. Steel anchors that weld to steel structure are normally line set before mullions are hung. Outstanding leg of anchors must be at 90° to offset lines. Mullion space should be held to ±1/32" (0.8). Anchor clips vary per job conditions. Follow approved shop drawings for size and location of clips.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. WATER HOSE TEST. 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.

13. 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.).

14. 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

15. JOB SITE ESSENTIALS. See pages 34 and 35.
All tubular back members and shear block attachment of horizontal members allows for traditional stick type erection.
TYPE "A" FABRICATION PROCEDURES

CUTTING INSTRUCTIONS FOR SHEAR BLOCK AND SCREW SPLINE ASSEMBLY

Details shown on these instructions are for 1" (25) Glazing of 4" (101.6) back members.

1. Cut members to size:

   **Vertical Back Members:** Rough Opening Minus Top and Bottom Clearances (Frame Height)
   **Vertical Pressure Bars:** Frame Height Minus 1/4" (6.4)
   **Vertical Face Covers:** Frame Height
   **Vertical Transition Adapters:** D.L.O. Plus 1" (25)
   **Horizontal Transition Adapters:** D.L.O. Minus 1/16" (1.6)
   **Horizontal Back Members:** D.L.O. Plus 1/32" (0.8)
   **Horizontal Pressure Bars:** D.L.O. Minus 1/4" (6.4)
   **SSG Pressure Bars:** Frame Width Minus 4-1/4" (108)
   **Horizontal Face Members:** D.L.O. Minus 1/32" (0.8)
   **Horizontal Trim Members:** D.L.O. Minus 1/32" (0.8)
   **Jamb Perimeter Fillers:** Frame Height Minus 1/4" (6.4)
   **Head and Sill Perimeter Fillers:** D.L.O. Minus 1/8" (3.2)
DRILL JIG PREPARATION

SHEAR BLOCK FABRICATION

2. Fabricate verticals for horizontal members. Mark on verticals the location of horizontal members and drill holes for shear blocks (Detail B). Visit usalum.com for additional information.

NOTE: For larger projects we offer the Accufab Pro Tool Visit usalum.com for additional information.
3. Fabricate structural silicone verticals for horizontal members. (Detail C)
SHEAR BLOCK ASSEMBLY

4. Fabricate ends of horizontal members for shear block attachment screws. See Detail D for drill usage.

NOTE: Drill lower hole only at head and upper hole only at sill. Countersink for a #8 FHSMS

5. Notch head and sill members as shown. (Detail E)

DETAIL D

NOTE: Drill lower hole only at head and upper hole only at sill. Countersink for a #8 FHSMS

DETAIL E
6. Drill 1/4" (6.4) dia. holes in bottom of horizontal face covers 6" (152.4) from each end. (Detail G)
7. Fabricate horizontal pressure bar members for slots and holes. Pressure bars are supplied with 9/32" (7.1) attachment holes at 9" (228.6) O.C.. Additional holes are required in pressure bars at 1-1/2" (38.1) from each end. (Detail H)
1. Apply Closure Plates to vertical mullions. *(Detail I)*

NOTE: Clean all surfaces prior to applying sealants. See sealant manufacturer requirements.

TYPICAL AT ALL CONDITIONS

NOTE: Shear Blocks not shown for clarity.

DETAIL I
2. Slide anchors into ends of vertical mullions (Detail J). If shims are required place them directly under each side of vertical for proper load distribution. Secure anchors to structure plumb, level, and true. See approved shop drawings for anchor bolt type and size.

**NOTE:** Aluminum anchors must be isolated from dissimilar materials. Typical at top and bottom.

3. Attach Shear Blocks to verticals with screws provided.

**NOTE:** Tubular intermediate horizontals must be installed per bay along with verticals. Head and sill members are notched. Last bay intermediate horizontal is notched. (See Page 08)
ASSEMBLY PROCEDURE

INSTALLATION PROCEDURE FOR PRE-ASSEMBLED MULTI-LITE ASSEMBLY

1. Attach shear blocks to mullion and jambs. (Detail L)

2. Assemble frame. (Detail M)
ASSEMBLY PROCEDURE

3. Install perimeter angle into opening. See approved shop drawings for proper anchor bolt and size. Apply RTV408 Silicone to areas as shown in (Detail N).

NOTE: Attach Jamb Member to angle with one screw at bottom only.

4. Install frame into opening plumb, level and true. Attach frame to angle at sill and one screw at bottom of jambs with ST035 screws #10 x 5/8" (15.9), 12" (304.8) on center. Attach a piece of the perimeter pressure bar at the head to temporarily hold the frame in place.

NOTE: Attach Jamb Member to angle with one screw at bottom only.
FRAME SEALANT PROCEDURE

1. Apply RTV408 Silicone and seal joint at horizontal and vertical intersection. Seal over heads of screws in the glazing pockets (Detail P).
2. Apply RTV408 Silicone at the three contact areas of end dams. Fill the vertical gasket reglet with RTV408 Silicone at the end dam location.
3. Slide end dams into place. NOTE: End dams occur at head and sill also.

NOTE:
Consult sealant manufacturer for proper cleaning and priming recommendations.

CRITICAL SEAL
Apply RTV408 Silicone and seal all Horizontal to Vertical Joints.

CRITICAL SEAL
Fill with RTV408 Silicone, portion of Gasket Reglet just behind the End Dam.

CRITICAL SEAL
Apply RTV408 Silicone to three contact areas of End Dams prior to installation.

CRITICAL SEAL
Seal over head of Screws with RTV408 Silicone.

Apply RTV408 Silicone as shown filling Gasket Reglets and Vertical Grooves.

DETAIL P
GLAZING

GLASS SIZES (Captured)
GLASS WIDTH and HEIGHT = DAYLIGHT OPENING + 1" (25.4)

GLASS SIZES (Structural Silicone Glazed)
GLASS HEIGHT = DAYLIGHT OPENING + 1" (25.4)
GLASS WIDTH = DAYLIGHT OPENING + GLASS BITES

NOTE: These formulas do not take into account glass tolerances. Consult glass manufacturer before ordering glass.
1. Remove gaskets from carton and lay flat in a clean, dry area in order to recover shape. Allow gaskets to relax at least two hours at temperatures above 50°F (10°C). Glaze with gaskets above 40°F (4°C). If necessary warm gaskets in a hot box before installing. Use NP430 dense gasket at exterior and NP420 sponge gasket at interior.

2. Cut gaskets allowing 1/8" (3.2) extra length per foot of extrusion to allow for shrinkage. Vertical gaskets on mullion run past horizontal gaskets by 5/8" (15.9). Horizontal gaskets butt against vertical gaskets.

3. Install back gaskets into vertical and horizontal members and front gaskets into pressure bars. Horizontal pressure bar gaskets should extend 1/8" (3.2) beyond each end of the extrusions. Vertical pressure bar gaskets run continuous.

4. Position two setting blocks for each glass lite as directed by the deadload charts and shop drawings.

5. Apply RTV408 Silicone to vertical mullion and press on two side blocks per glass lite, at approximately mid-height of glass (Detail R).

6. Apply bead of RTV408 Silicone at interior gasket corners 2" (50.8) in each direction. (Detail S)

7. Install glass and center in opening. Use CW368 Temporary Glass Retainers to hold glass in place until pressure bars are installed. (Detail T)
GLAZING STRUCTURAL SILICONE APPLICATION

8. Structural silicone is applied from the interior. Follow silicone manufacturer's instructions and recommendations for surface preparation and silicone application. Mask glass and aluminum and tool sealant.

9. After structural silicone has fully cured remove temporary glass retainers from intermediate verticals; insert open cell polyurethane rod between glass edges; mask glass adjacent to joint, and apply outside weatherseal.

**NOTE:**
Vertical Gaskets do not run through to allow for End and Intermediate Dams installation. They extend approximately 5/8” (15.9) past edge of the Horizontal.

Apply RTV408 Silicone to Interior Gaskets corner 2’ (50.8) on each direction

Apply RTV408 Silicone over heads of screws

Fill void between Gaskets with RTV408 Silicone

CW368 Temporary Glass Retainer.
Torque to 30 in. Pound (3.4 Nm)
**NOTE:** Do Not Over Torque Glass Retainers Bolts. Use one Retainer per each 150 lbs. (667.2 N) of load. (I.e. if glass height x glass width x windload = 350 lbs. use three retainers)

RG635 Temporary Glass Retainer

DETAIL S

DETAIL T
Install vertical pressure bar bolts from bottom to top and horizontal pressure bar bolts from center outward. Always locate bolts 1-1/2” (38.1) maximum from vertical/horizontal intersections to ensure proper pressure over end dams. (Detail V) **NOTE:** Be sure pressure bar spacer is not disengaged.

1. Install vertical pressure bars first, leaving 1/8” (3.2) gaps at top and bottom. Using a torque wrench, torque bolts to 30 inch pound (3.4 Nm). Increase torque to 50 to 60 inch pound (5.7 to 6.8 Nm) minimum after all four sides have been secured.

2. Center horizontal pressure bars in opening, leaving 1/8” (3.2) gaps at each end. **NOTE:** Weep slots must be on top side of all horizontal pressure bars and level with bottom of glazing pocket to ensure proper drainage. (Detail V)

3. Seal gaps at vertical/horizontal intersections and at top and bottom of vertical pressure bars. (Detail V)

---

**NOTE:** Weep Slots are required in all Horizontal Pressure Bars including the Head and Sill.

Seal all gaps and tool sealant, making sure it will not interfere with the Snap On Face Covers. Typical.
FACE COVER INSTALLATION

Care must be taken to prevent damage of face covers during installation. Use a piece of wood such as 2" x 4" x 12" (51 x 102 x 305) and CRL ST57550 Compo-Cast Dead Blow Soft Face Hammer.

1. Install vertical face covers first. Do not disturb top and bottom closure plates when installing face covers. Pinning of vertical face cover is required to prevent slippage. Use one pin on each side per cut length, concealed behind horizontal face cover closer to center line or as shown on shop drawings. (Detail W).

2. Install snap-in horizontal face covers with the weep holes located on the bottom side.

NOTE: Extended face covers require a special pressure bar. Pin vertical extended covers with one 1/8" (3.2) Dia. pop rivet on each side per cut length (optional #10 x 1/2" (12.7) FHSMS). (Detail X)

Extended horizontal covers must be pinned on top side at both ends.

NOTE: Locate splice joints at center line of vertical members. Splice joint width should be based on linear expansion for aluminum specifications and sealant movement capability. Do not align face cover splices with pressure bar splices; offset by 6" (152) minimum. Set backer rod between face cover and pressure bars at joint and seal. (Detail Y)

1/16" x 1/2" (1.6 x 12.7) Roll
Pin at center of cut length on each side. (Concealed behind Horizontal Face Cover)

1/8" (3.2) Pop Rivet at center of cut length at each side. (Concealed behind Horizontal Face Cover)

Insert Backer Rod between Face Cover and Pressure Bar to facilitate sealing

Seal Splice Joint and tool Sealant. Use Backer Rod as shown below

Weather Seal

6" (152.4) Minimum Offset

NOT TO SCALE
TRANSITION GLAZING

1. Apply RTV408 Silicone into gasket reglets before installing snap-in transition adapters.
2. Install vertical adapters first.
3. Install horizontal adapters and seal horizontal/vertical joints. Tool sealant. (Detail Z)

Fill Gasket Reglet with RTV 408 Silicone before installing Adapters (This is a continuous seal)

Secure Butt Glazing Adapters with #10 x 1” FHSS Screws 1-1/2" (38.1) from ends and 24" (609.6) O.C. maximum.

NOT TO SCALE
VERTICAL SPLICE JOINTS

Splice joint width should be based on sealant movement capability and on the following formula:

\[
\text{Linear expansion for aluminum, in inches} = \text{Length (\text{") \times F\text{" difference in temperature \times .0000129}}
\]

\[
\text{Linear expansion for aluminum, in millimeters} = \text{Length (mm) \times C\text{" difference in temperature \times .0232}}
\]

A 1/2" (12.7) minimum joint is recommended. Use a 1/2" (12.7) spacer shim to set and hold the mullion joint constant during erection. Remove the shim after attaching the verticals to the anchors. **Splice joints must occur at spandrel areas.**

**NOTE:** Splice joints are designed to accommodate thermal movement only. They do not compensate for variations in floor levels.

1. Clean splice sleeves and all joint surfaces. Apply bond breaker tape to areas where sleeve will be sealed to avoid three side adhesion. **(Detail AA)**

2. Slide sleeve into the upper member before it is installed and tape to hold it in retracted position. **(Detail AA)**

3. Install stop screw, 2-3/4" (69.9) down from top of extrusion at inside of lower member. **(Detail BB)**

4. Install upper member and let extruded sleeve slide down until it sits on top of stop screw.

5. Seal joint over sleeve. **(Detail CC)** When transition adapters for 1/4" (6.4) spandrel are used they should be discontinued at splice joint and installed after splice joint is sealed. Stagger joints on back members, pressure bars and face caps. **(Detail BB)**

6. Seal pressure bar joint. **(Detail CC)**

7. Install face covers and seal joint using backer rod as required. **(Detail CC)**
Use Backer Rod to facilitate Face Cover Seal

1/2" (12.7) min. Splice Joint Width

1/2" (12.7) Pressure Bar Splice

1/2" (12.7) Face Cover Splice Joint

Seal Face Cover Joint and tool (Use Backer Rod as required)

Detail BB

1-1/2" (38.1)

1-1/2" (38.1)

Apply CRL 827T2 Bond Breaker Tape

Seal and tool joint

Seal Pressure Bar Joint

Detail CC

NOT TO SCALE
MULTI-SPAN CONDITION

Detail DD and Detail EE show fixed (deadload) and expansion (windload) anchors. Anchor type and size vary per job requirements. Details shown are to be used as a guide only. See approved shop drawings for actual conditions.

Secure verticals to anchor clips after alignment has been completed.

NOTE: Mullion spacing must be held to within +1/32" (0.8).
Check overall frame dimension every four bays to monitor dimension build up.
ENTRANCE FRAMES

Entrance Frames may be installed simultaneously with Curtain Wall or after Curtain Wall installation has been completed. Use CW917 or CW916 pocket fillers to close glazing pocket at door side.

DETAIL FF
Offset Hung Door
**FLUSH DOOR ADAPTOR FABRICATION AND INSTALLATION**

**NOTE:** Flush door adaptors are not available for Series 2100 butt glaze applications

1. Cut door adaptor members to length.

   ![Diagram of CW207]

   **CW207**
   - Header Adaptor Length = DOOR OPENING WIDTH Minus 1/32" (0.8).
   - Jamb Adaptor Length = DOOR OPENING HEIGHT Plus 7/16" (11.1).

   ![Diagram of CW206]

   **CW206**
   - Header Cap Length = DOOR OPENING WIDTH Minus 1/32" (0.8).
   - Jamb Cap Length = DOOR OPENING HEIGHT Plus 7/16" (11.1).
   (Field cutting may be required to obtain a tight joint with vertical cap above)

   ![Diagram of CW209]

   **CW209**
   - Header Door Stop Length = DOOR OPENING WIDTH Minus 1/32" (0.8).
   - Jamb Door Stop Length = DOOR OPENING HEIGHT Minus 1-1/32" (26.2).

2. Drill 5/16" (7.9) diameter anchor holes in all cut to length adaptors 1-1/2" (38.1) from each end and 9" (228.6) O.C. (Detail GG).
   **NOTE:** Isolator must be in place prior to drilling anchor holes.

   ![Diagram of Detail GG]
FLUSH DOOR ADAPTOR FABRICATION AND INSTALLATION

FABRICATION

3. For butt hung doors, fabricate header adaptor for weep slots and additional anchor holes. (Detail HH)
   (Refer to the Entrances and Frames section of this manual for flush bolt and panic rod strike fabrication.)

4. For offset pivot doors, fabricate header adaptor for pivot (Left hand shown), weep slots and additional anchor holes. (Detail II) Notch face cap for pivot clearance (Detail JJ).
   (Refer to the Entrances and Frames section of this manual for flush bolt and panic rod strike fabrication.)


**FLUSH DOOR ADAPTOR FABRICATION AND INSTALLATION**

5. Fabricate for lock jamb (Detail KK).
   (Right hand shown; left hand opposite)

6. Fabricate for butt hinges (Detail LL).
   (Left hand shown; right hand opposite)

---

**DETAIL KK**

- 1-9/32" (32.5)
- 1-1/2" (38.1)

**DETAIL LL**

- 1-1/2" (38.1)
- 1-5/32" (29.4)

---

**FABRICATION**

- 15/64" (5.9)
- 11/64" (4.4) Dia. Hole or #16 Drill Bit
- 2-17/64" (57.5)
- 1-1/16" (14.3)

---

**FLUSH DOOR ADAPTOR**

- Fabricate for lock jamb (Detail KK).
- Fabricate for butt hinges (Detail LL).

---

**NOT TO SCALE**

---

CR Laurence – USA Aluminum

---

Page 28
FLUSH DOOR ADAPTOR FABRICATION AND INSTALLATION

FABRICATION

7. Fabricate for offset pivots (Detail MM). (Left hand shown; right hand opposite)

- Drill and Countersink for #12 FHMS
  - 7/16" (11.1) Dia.
  - Countersink 11/64" (4.4) Dia.
  - Hole or #16 Drill Bit

- Top of Door Opening (Reference)
- Top of Cut-out
- Door Opening + 2
- Bottom of Door Opening (Reference)

DETAIL MM

DOOR OPENING HEIGHT Plus 7/16" (11.1)

9" O.C. (Typ.) (228.6)

1-1/2" (38.1)

15/64" (5.9)

1-5/32" (29.4)

11/64" (4.4) Dia. Hole or #16 Drill Bit

Drill and Countersink for 1/4"-20 FHMS

NOT TO SCALE
FLUSH DOOR ADAPTOR FABRICATION AND INSTALLATION

FABRICATION

8. For butt hung application, install hinge back up plates and threshold clips. (Detail NN and Detail OO)
   For offset pivot application, install bottom frame portion pivot(s). (Detail PP) Single doors require
   threshold clip at lock jamb. (Detail OO)

9. Install gaskets in door adaptors.

INSTALLATION

NOTE: Prior to adaptor installation all End Dams must be installed and sealed. Transom and sidelite glass
must be in place.

1. Seal face of end dams. (Detail QQ)

2. Install jamb and head adaptors using MS222 pressure bar screws. (Detail QQ) Refer to page 24 of
   the glazing portion of this section for bolt tightening procedures. Vertical adaptors extend from floor to 7/16" (11.11)
   above bottom of door header/horizontal and must be installed prior to head adaptor installation.

3. Secure adaptors to mullion side walls with AV9605 Pan Head Phillips tek screws. (Detail QQ)

Cover Face of
End Dams with
RTV408 Silicone

AV9605
#8-18 x 1/2" (12.7)
PH Tek

MS222
Pressure Bar Screw
FLUSH DOOR ADAPTOR FABRICATION AND INSTALLATION

4. Seal all pressure bar bolt heads. (Detail RR)

5. Seal gaps at intersections of pressure bars and door adaptors.
   NOTE: THIS IS A CRITICAL SEAL.

6. Install thresholds into opening using screws provided with door hardware.
   (Detail SS for butt hung, Detail TT for offset pivot application).

Apply RTV408 Silicone to Seal Pressure Bar and Bolt Heads
Seal intersecting Pressure Bar and Adaptor Joints

Attach Threshold to Clips with (2) MS176 #12-24 x 3/8" (9.5) FH Screws.

Threshold Clip

NOTE: THIS IS A CRITICAL SEAL.
FLUSH DOOR ADAPTOR FABRICATION AND INSTALLATION

INSTALLATION

7. Snap on face caps (Detail UU). Vertical face caps run from floor to 9/16" (14.3) above bottom of header. (Field cutting to length is recommended)

8. Snap door stop on header adaptor (Detail UU). (Head door stop runs through)

9. Snap door stops on jamb members (Detail UU).

10. For offset pivot doors, install frame portion pivots (Detail WW).

(3) #12-24 x 1/2" (12.7) Included

(2) 1/4-20 x 1/2" (12.7) Included

(crlaurence.com | usalum.com)
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.

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

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

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
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

CRL33S Acetic Cure Silicone Sealant
CAT. NO. 33S

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

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

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

CRL Complete Set of Seven All Stainless Steel Spatulas
CAT. NO. AB958G

CRL Spring Clamps
CAT. NO. JC3202HT

CRL Backer Rod Roller Tool
CAT. NO. SBRR

CRL Soft-Face Power Hitter
CAT. NO. ST57532

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

CRL Utility Knife
CAT. NO. K82

CRL PHS Series Plastic Horseshoe Shims

CRL Plastic Bearing Shimstrips

CRL Knit Fit Gloves

CRL Knife Blades
CAT. NO. 1992C