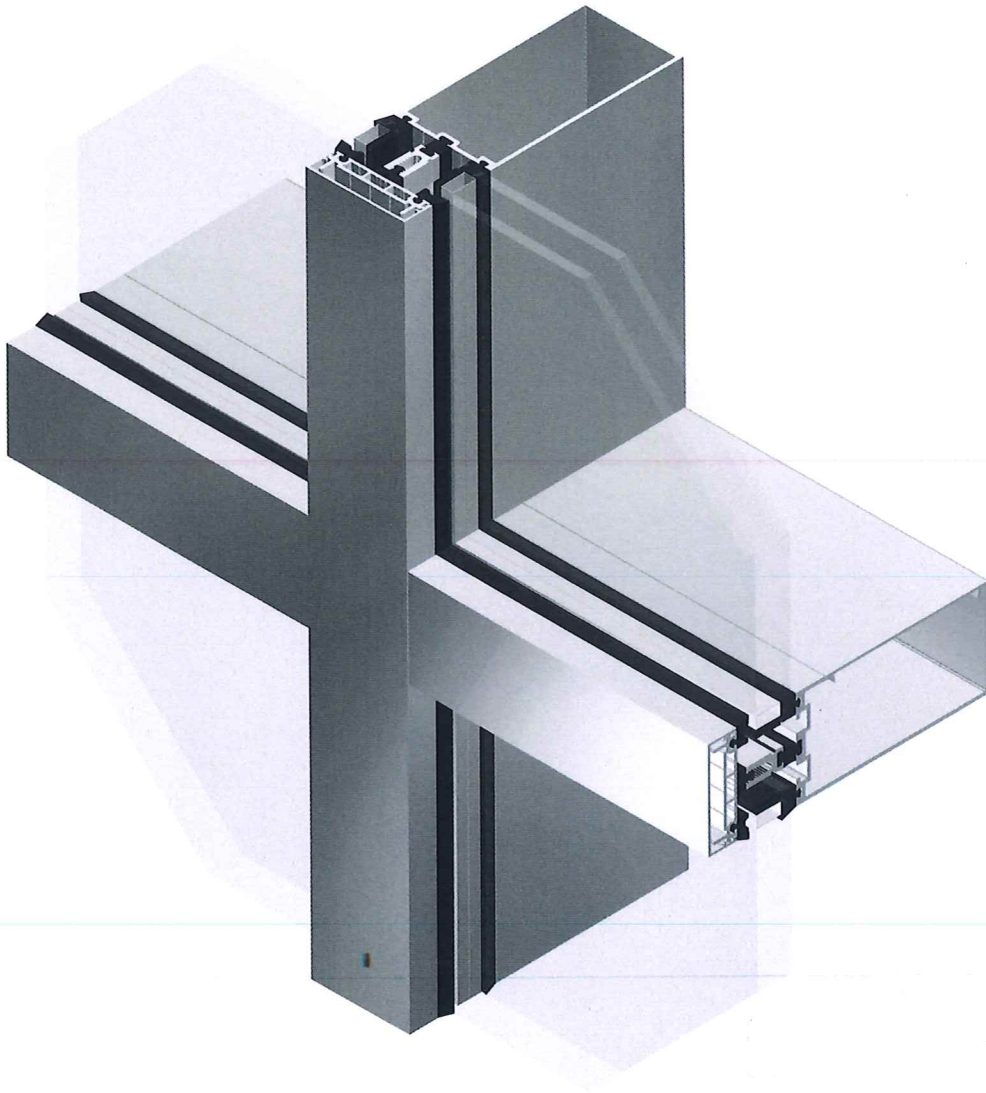


INSTALLATION INSTRUCTIONS

SERIES 3252HP CURTAIN WALL WITH A POLYAMIDE PRESSURE BAR



Phone: (800) 262-5151 • Fax: (866) 262-3299
crlaurence.com • usalum.com • crl-arch.com

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 the 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.***

PRESSURE PLATE HANDLING INSTRUCTIONS

HANDLING OF PRESSURE BARS SHOULD BE PERFORMED AS FOLLOWS:

Products are shipped either in a crate (wood or hybrid cardboard/wood) or palletized on a wood skid as specified by CRL or customer preference. Palletized material can be moved with a fork lift, tow motor, or hand truck. Crated material should be moved via a fork lift or tow motor and supported always at the midpoint of the crate.

If stacking created, work crates are not to be stacked more than three high and hybrid crated not more than two high. Improperly stacking crates or staking crated higher than recommended can cause crates to fall, causing potential injury to workers or damage to the material.

When handling CRL product directly, be sure to use the proper Personal Protective Equipment (PPE). The proper PPE should include, a minimum, gloves and eye protection. CRL products are not hazardous/toxic and do not require a MSDS.

IMPROPER STORAGE CONDITIONS:

The pressure bars must be properly supported for the entire length of the part to avoid sagging of the material.

The longer the storage period, the greater the possibility of the sag becoming permanent if improperly stored. If the pressure bars are longer than the pallets or racks in which they are stored, they may sag at the ends. (i.e. 24 feet long strips on 20 feet long pallets) This also applies to pressure bar stored on pallets where there is no continuous floor or bottom support.

Bundled pressure plates may also become deformed over time if individual bundles are not removed, separated and straightened.

CORRECT STORAGE PROCEDURE:

In order to reduce bending, twisting, sagging or deforming of the pressure plates, store them in the following conditions:

- Store pressure plates so that the degree of sag is minimized
- Make sure to support protruding sections
- Brief storage periods, First In - First Out (FIFO)
- Store covered with an ideal room temperature range of 59 to 68 F (15 to 20 C)
- Keep profiles out of direct sunlight and contact with moisture

The rapidly changing technology within the architectural aluminum products industry demands that C.R. Laurence/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, square, 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 degrees to offset lines. Mullion space should be held to $\pm 1/32"$ (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 soon as 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.

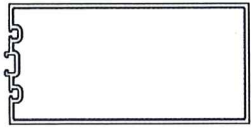

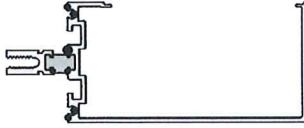





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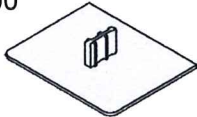
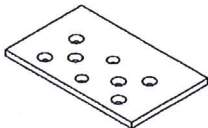
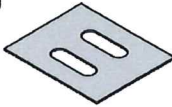
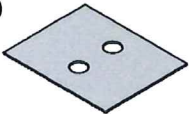
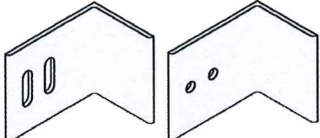
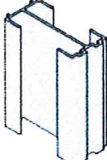
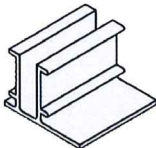
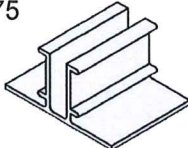
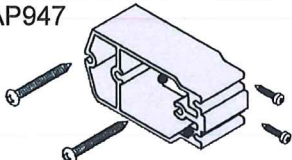
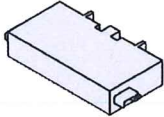

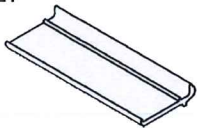
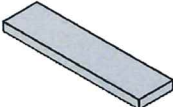


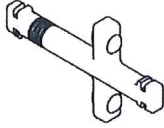
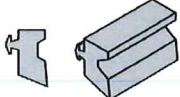
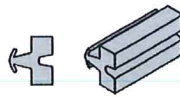
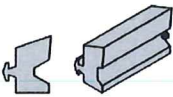
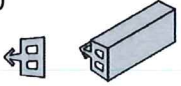



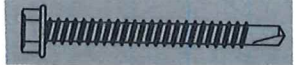
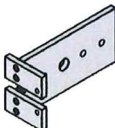
SERIES 3252HP CURTAIN WALL WITH A POLYAMIDE PRESSURE BAR

PARTS LIST

EXTRUSIONS

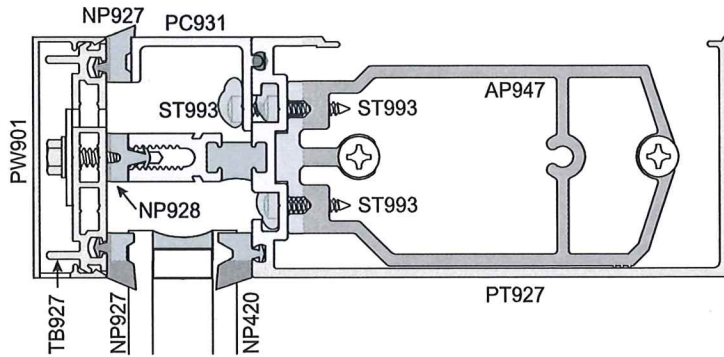
<p>CW935</p>  <p>5" SSG Vertical</p>	<p>PT905</p>  <p>5" Vertical</p>	<p>PT927</p>  <p>5" Horizontal</p>	<p>PC931</p>  <p>1" Perimeter Filler</p>
<p>PW901</p>  <p>3/4" x 2-1/2" Face Cap</p>	<p>CW950</p>  <p>Horizontal Cover</p>	<p>TB927</p>  <p>Polyamide Pressure Bar</p>	<p>PC921</p>  <p>1/4" Glazing Adaptor in 1" Pocket</p>

ACCESSORIES

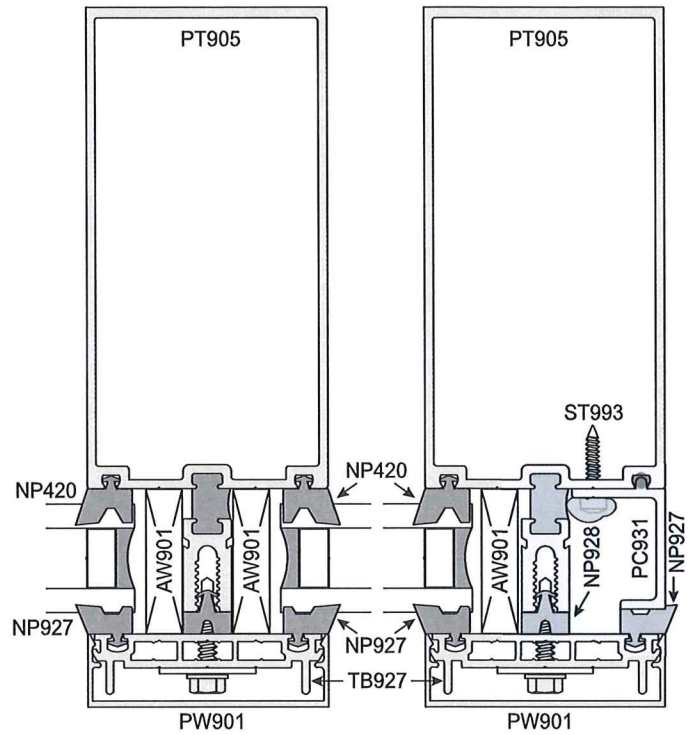
<p>CP900</p>  <p>Mullion End Cap</p>	 <p>Tapping Bar</p>	<p>AP360</p>  <p>Nylatron Slip Pad for Wind Load Anchor</p>	<p>AP360</p>  <p>Nylatron Slip Pad for Dead Load and Wind Load Anchor</p>
 <p>Steel Anchors Supplied by Customer</p>	<p>SL945</p>  <p>Splice Plate</p>	<p>AP965</p>  <p>"T" Anchor for PT905 5" Hollow Back Member</p>	<p>AP975</p>  <p>"F" Anchor for PT905 5" Hollow Back Member</p>
<p>AP947</p>  <p>Shear Block with Screws</p>	<p>WD900</p>  <p>SSG Water Diverter</p>	<p>HD975</p>  <p>End Dam</p>	<p>SC927</p>  <p>Setting Chair</p>
<p>SB577</p>  <p>1/4" x 1" Setting Block</p>	<p>AW901</p>  <p>Edge Block for 1" Glazing with 2 Sided Tape</p>	<p>CW368</p>  <p>Temporary Glass Retainer</p>	<p>SB450</p>  <p>Vertical SSG Gasket</p>
<p>NP927</p>  <p>Exterior Rigid Gasket</p>	<p>NP928</p>  <p>Thermo Isolator</p>	<p>NP420</p>  <p>Interior Sponge Gasket</p>	<p>SB450</p>  <p>Vertical SSG Gasket</p>
<p>MF070</p>  <p>1/4" Fender Washer</p>	<p>ST933</p>  <p>#8 x 3/4" Phillips Fillister HD SMS "A" for Shear Block and PC931 Perimeter Filler</p>	<p>MS240</p>  <p>1/4 - 20 x 1-1/4" HWH (GRD 5)</p>	<p>12x2HHDTEK</p>  <p>#12 x 2" Hex Drill Point SMS for Shear Block</p>
<p>DJ364</p>  <p>Drill Jig</p>			

TYPICAL ELEVATION

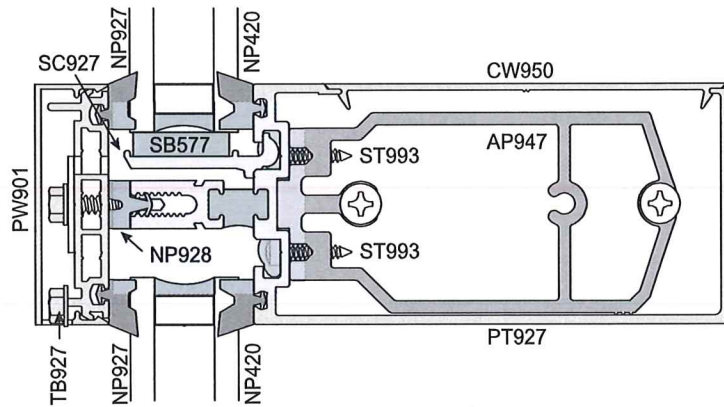
HEAD



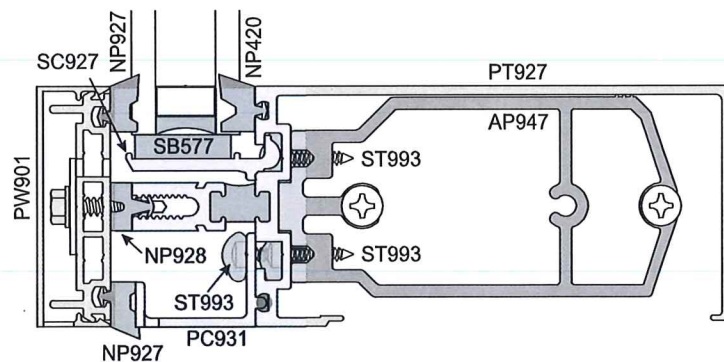
VERTICAL MULLIONS



INTERMEDIATE

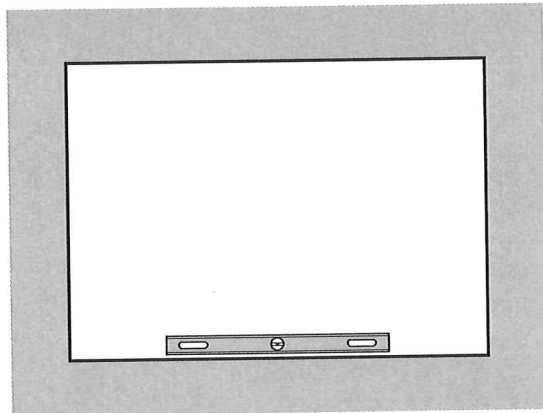


SILL

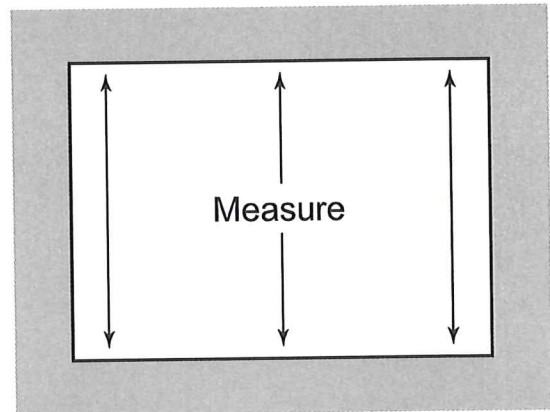


SITE PREPARATION BEFORE INSTALLATION

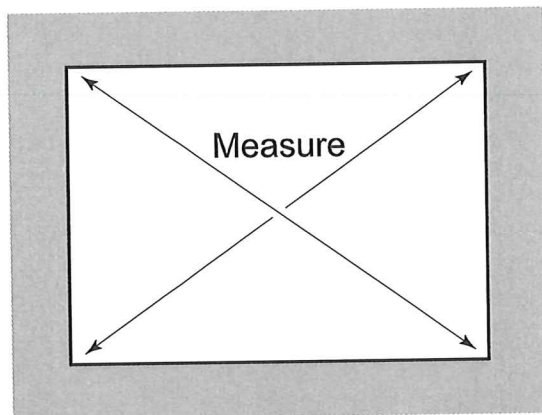
1. Review and measure the opening.
2. Verify rough window opening size 1/2" (13) clearance in both width and height to the window. Verify framing is plumb, straight, and true around window opening. Measure opening at each end and at center vertically and horizontally. Make corrections to openings as required. Measure opening diagonally to check squareness. Chip concrete high points to flush and rounded corners to square.



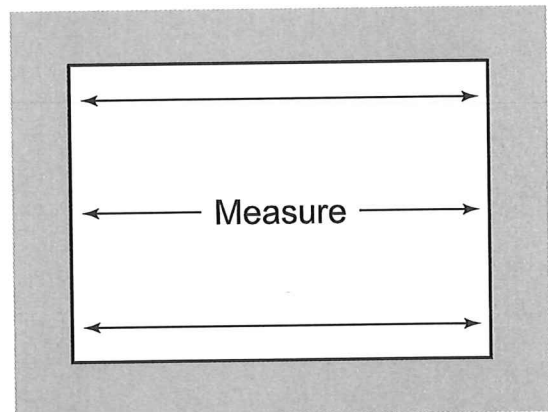
LEVEL



VERTICAL DIMENSION



SQUARE



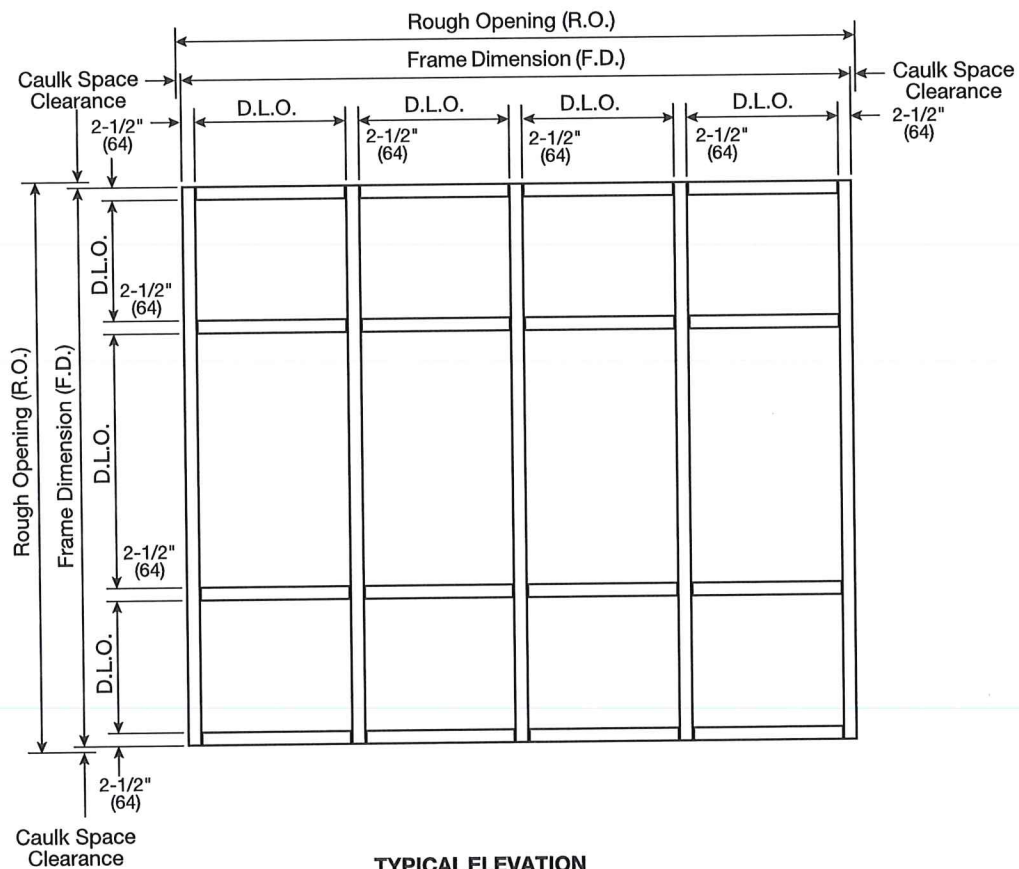
HORIZONTAL DIMENSION

FRAME FABRICATION CUTTING

Details shown on these instructions are 1" (25) glazing systems and 5" (127) back members.

1. Cut members to size. Use the following information below:

Component	Dimensioning
Vertical Members: R.O.	R.O. Minus Top and Bottom Clearances
Vertical Pressure Bars:	F.D. Minus 1/4" (6)
Vertical Face Covers:	F.D. Minus 1/32" (0.8)
Horizontal Members:	D.L.O. Minus 1/32" (0.8) - plus 0"
Horizontal Pressure Bars:	D.L.O. Minus 1/4" (6)
Horizontal Face Covers:	D.L.O. Minus 1/32" (0.8)
Vertical Transition Adapters:	D.L.O. Plus 1" (25)
Horizontal Transition Adapters:	D.L.O. Minus 1/8" (3)



TYPICAL ELEVATION

DETAIL A

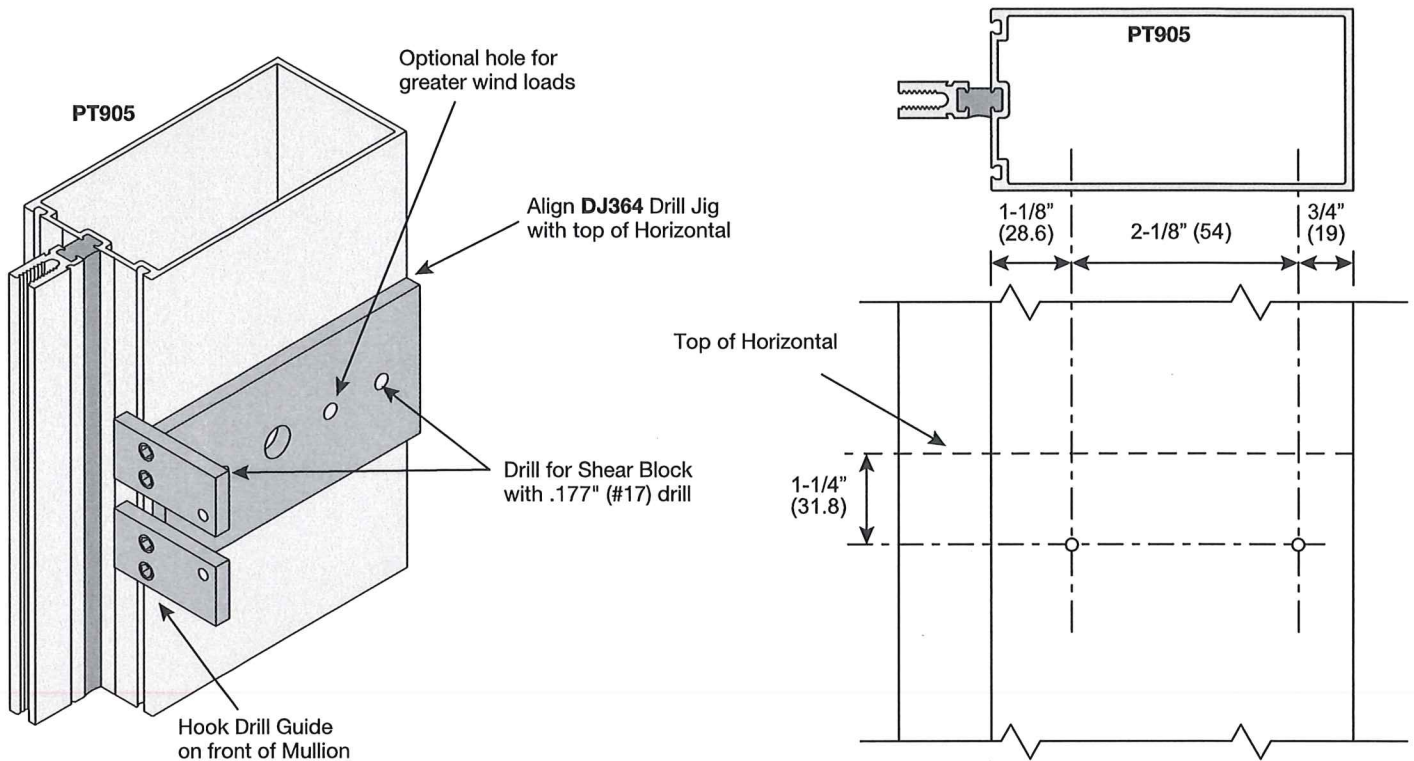
NOT TO SCALE

FRAME FABRICATION (CONTINUED)

DRILLING

- Mark on verticals the location of horizontal members and drill holes for shear blocks. Drill Jigs are available. See **DETAIL B** for drill jig usage.

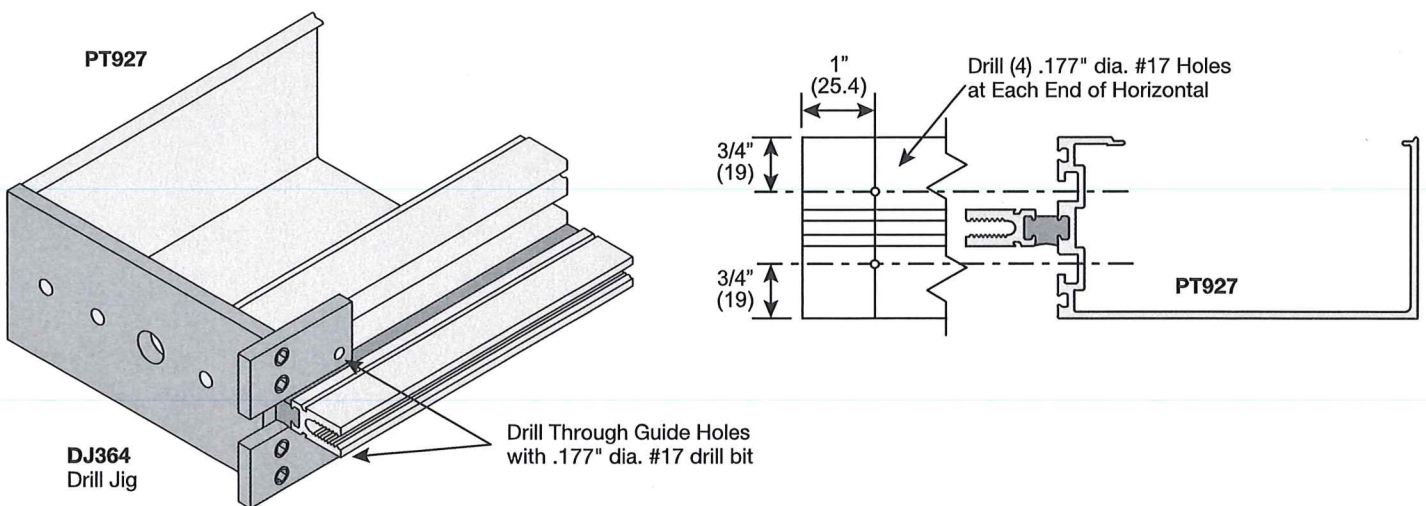
Vertical Mullion



DETAIL B

- Fabricate ends of horizontal members for shear block pick-up screws. See **DETAIL C** for drill jig usage.

Horizontal Member



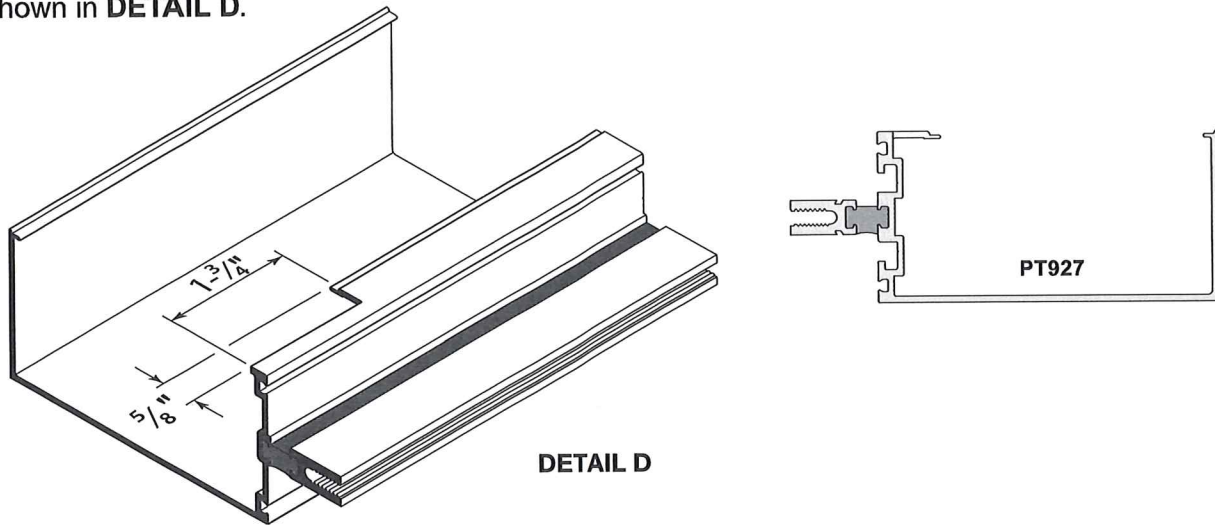
DETAIL C

NOT TO SCALE

FRAME FABRICATION (CONTINUED)

NOTCHING

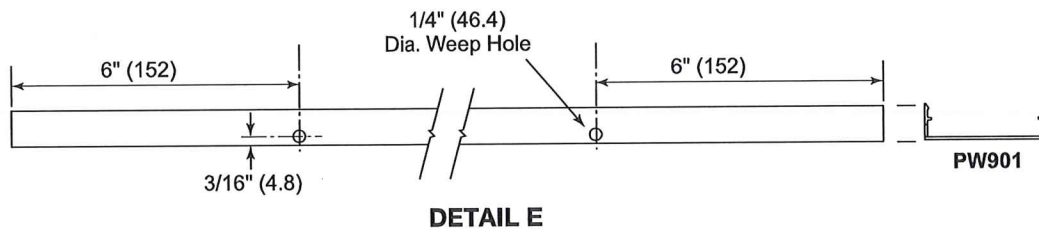
4. Some open back Head and Sill Members require notching at each end for shear block clearance as shown in **DETAIL D**.



DETAIL D

FACE PLATE WEEP HOLES

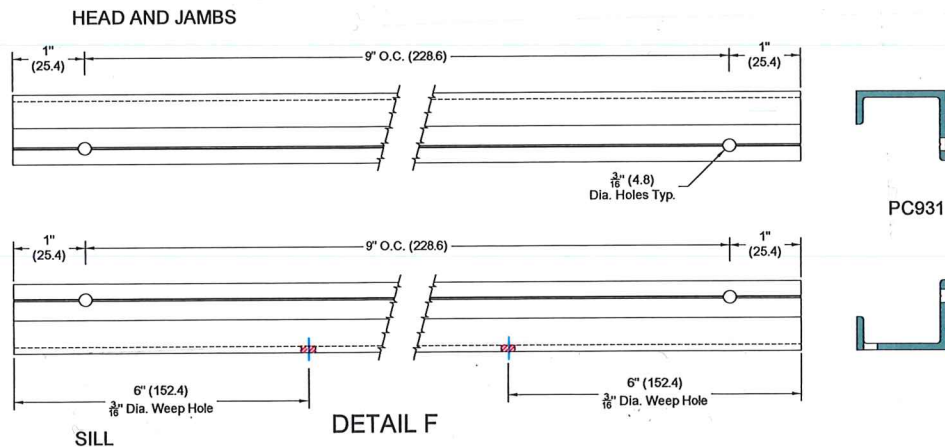
5. Fabricate bottom of horizontal face covers for weep holes 6" from each end as shown in **DETAIL E**.



DETAIL E

PERIMETER FILLER

6. Fabricate vertical and horizontal perimeter fillers as shown in **DETAIL F**.



DETAIL F

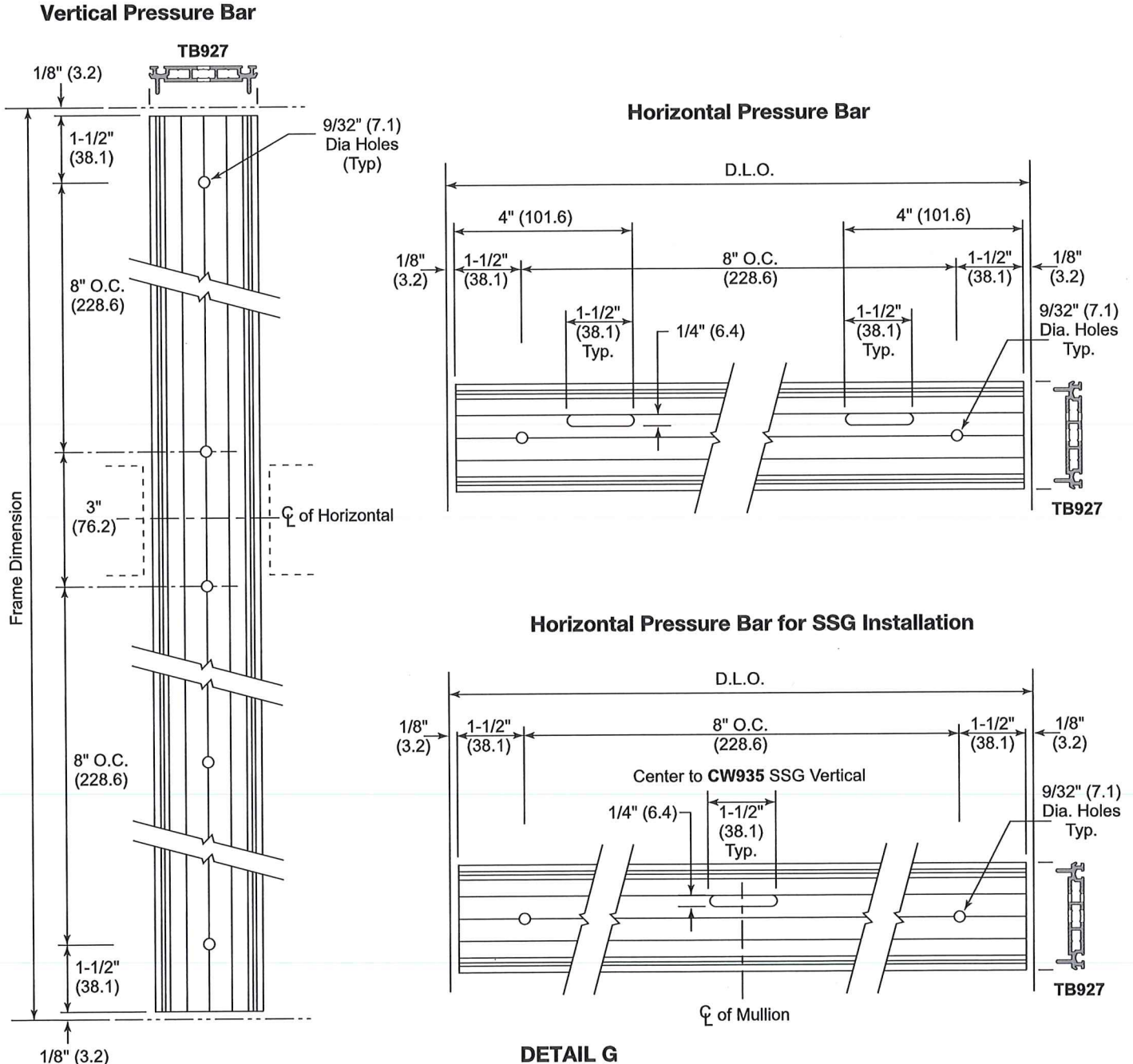
NOT TO SCALE

FRAME FABRICATION (CONTINUED)

PRESSURE BARS

- Vertical pressure bars feature 9/32" (7.1) diameter attachment holes 8" (228.6) On Center; additional holes should be drilled at 1-1/2" (38.1) from all ends and at vertical/horizontal intersections. See **DETAIL G**.
- Fabricate two 1/4" x 1-1/2" (6.4 x 38.1) weep slots 4" (101.6) from each end in horizontal pressure bars and drill 9/32" (7.1) diameter attachment holes 1-1/2" (38.1) from each end as shown on **DETAIL G**.

NOTE: Weep slots are located at the center of each **CW935** SSG Vertical Mullion for Structural Silicone Glazing installations. **DETAIL G**.



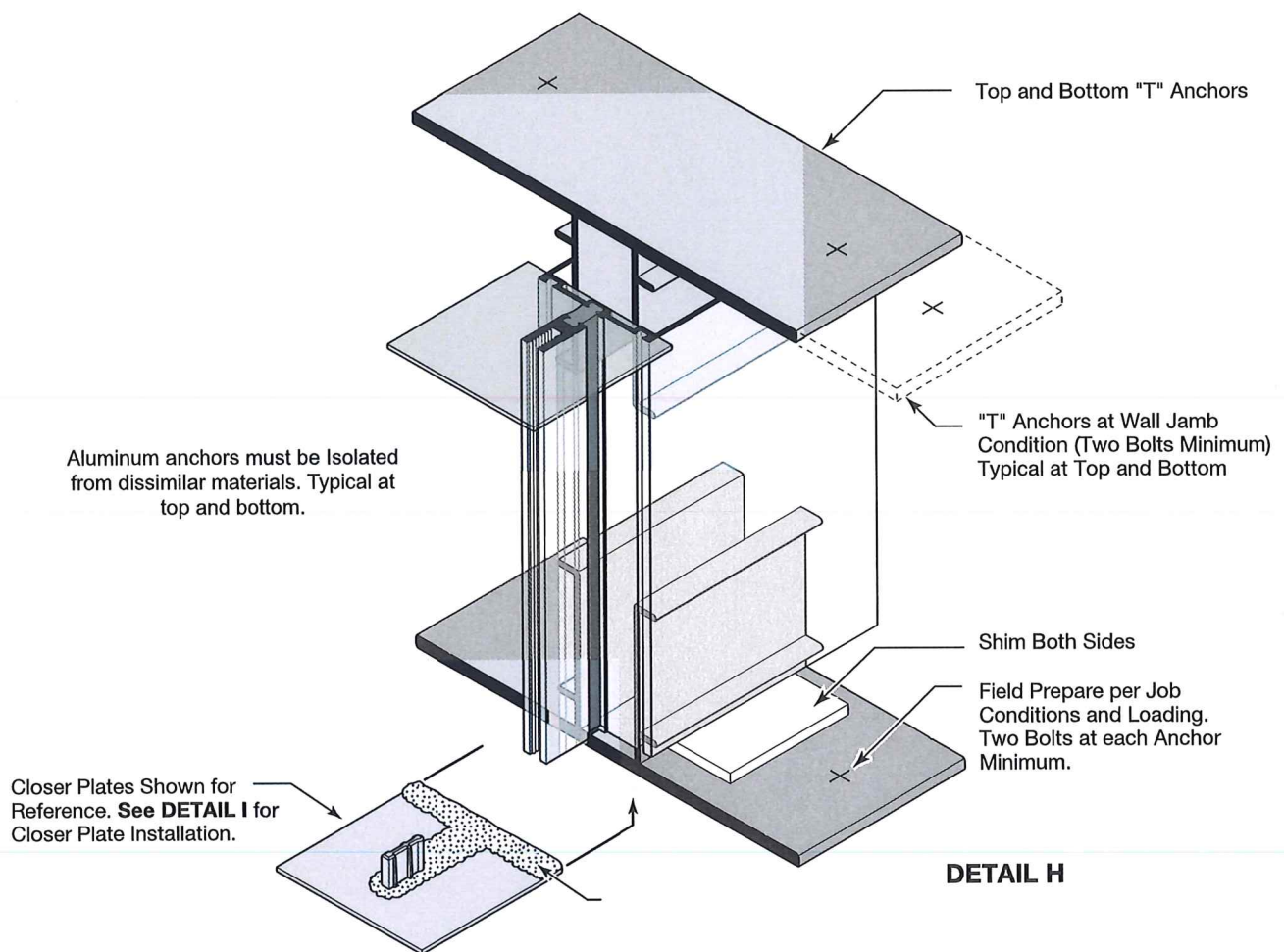
NOT TO SCALE

FRAME INSTALLATION

NOTE: ANCHOR TYPE AND SIZES VARY PER JOB REQUIREMENTS. DETAILS SHOWN ARE TO BE USED AS A GUIDE ONLY. SEE APPROVED SHOP DRAWINGS FOR ACTUAL CONDITIONS.

SINGLE SPAN CONDITION

1. Slide top and bottom "T" anchors into vertical members. See **DETAIL H**.
2. Install verticals plumb and level. If shims are required place them directly under each vertical for proper load distribution. Secure top and bottom anchors to structure. Secure verticals to anchor clips after alignment has been completed.

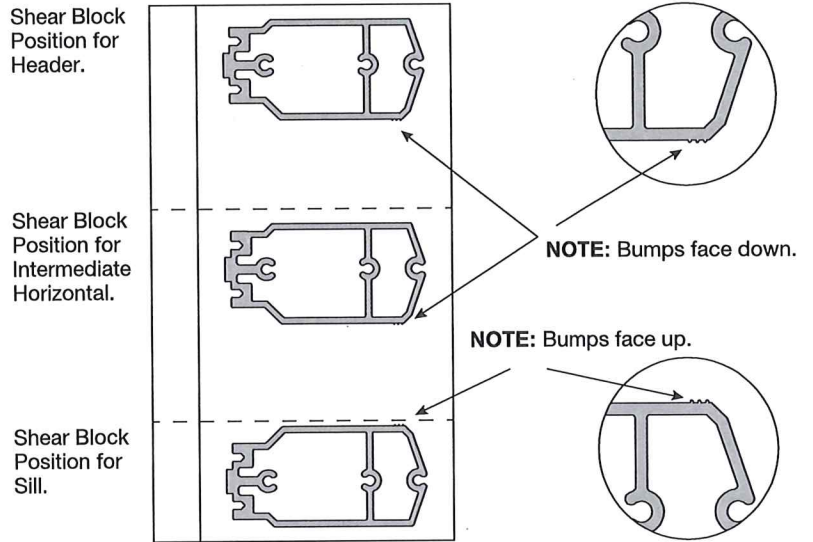
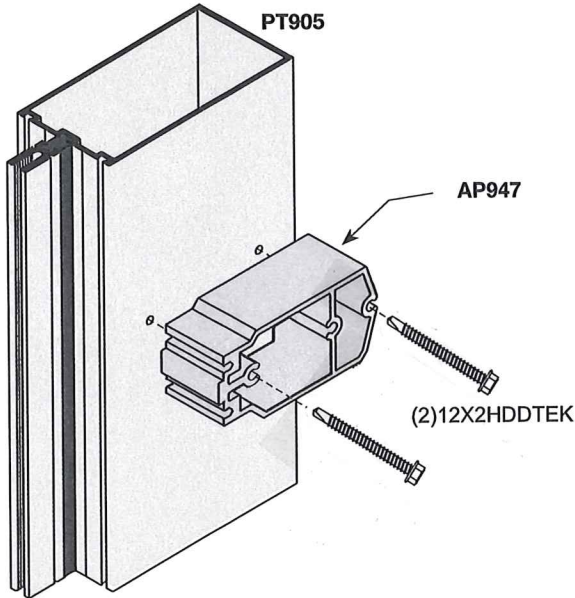


NOT TO SCALE

FRAME INSTALLATION (CONTINUED)

SINGLE SPAN CONDITION (CONTINUED)

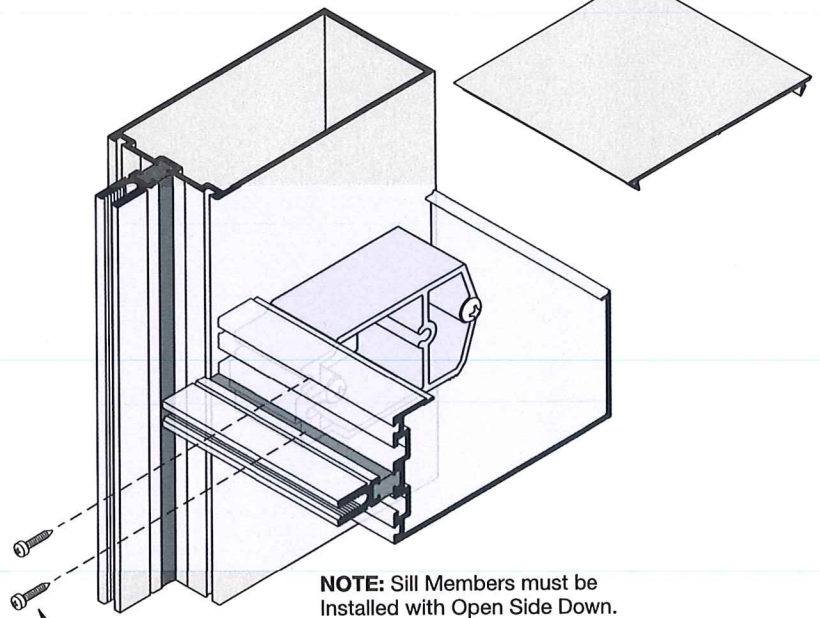
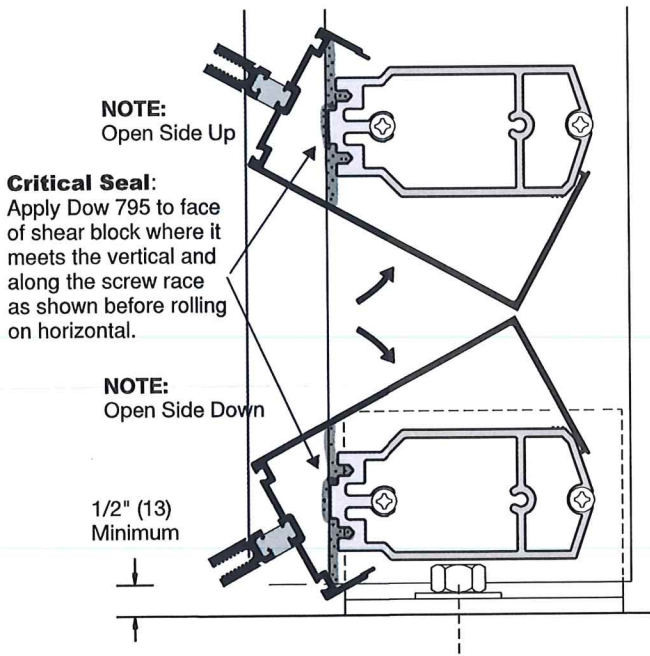
5. Attach shear blocks to verticals with screws provided. See **DETAIL K** for shear blocks position.
6. Roll horizontal members over shear blocks and secure them with screws provided. See **DETAIL L**.



DETAIL K

NOTE: Top and Intermediate Horizontals must be Installed with Open Side Up.

CW950



DETAIL L

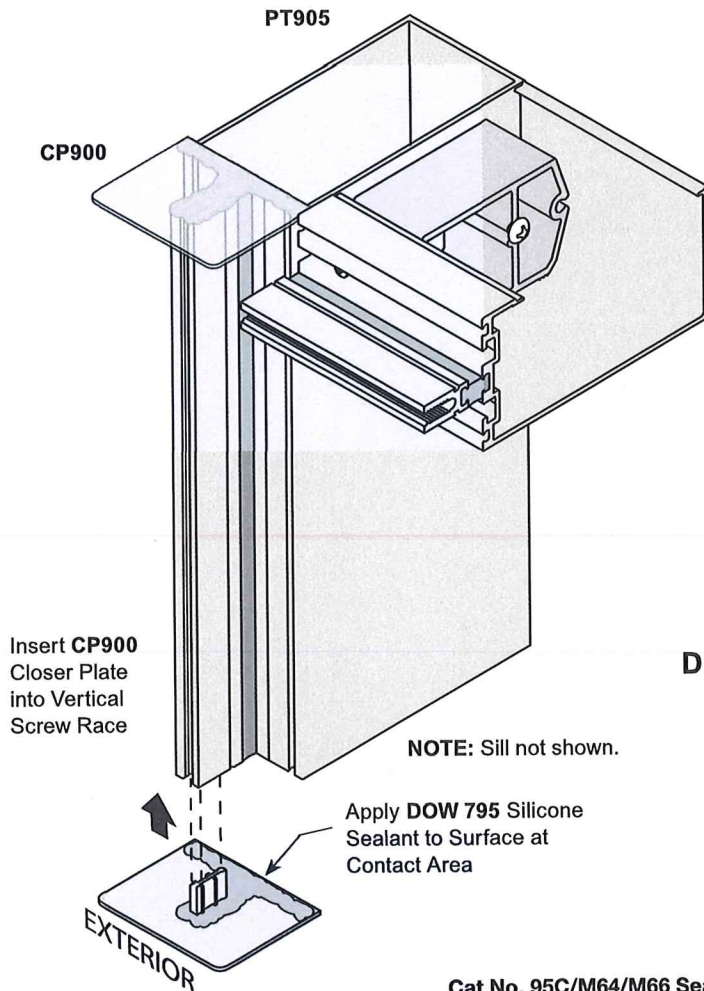
Secure Horizontal Members to Shear Blocks with (2) **ST933** #8 x 3/4" Phillips Fillister HD SMS "A"

NOT TO SCALE

FRAME INSTALLATION (CONTINUED)

SINGLE SPAN CONDITION (CONTINUED)

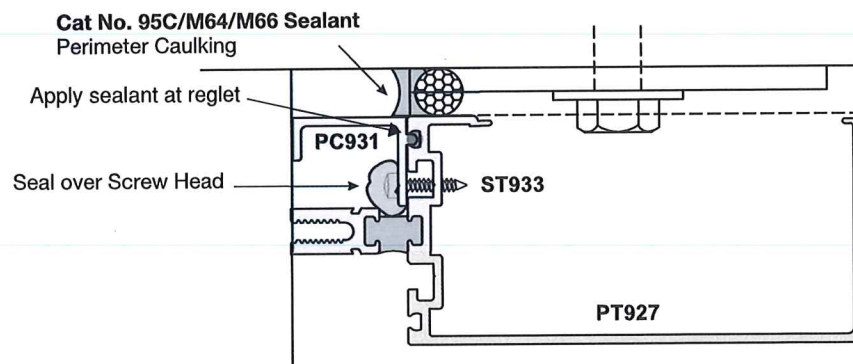
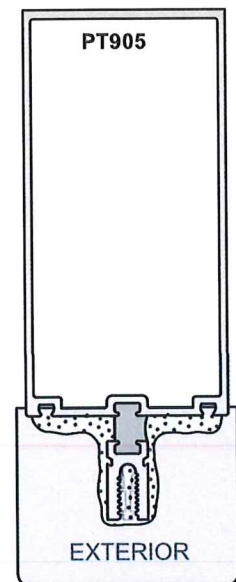
3. Apply **DOW 795** Silicone sealant to closer plates as shown in **DETAIL I**. Install at top and bottom of jambs and mullions after head and Sill Members are in place.
4. Once all verticals and perimeter members are installed, apply **Cat. No. 95C/M64/M66** Sealant to seal around perimeter. See **DETAIL J**. Perimeter caulking must be completed prior to installation of glass and pressure bars. Ensure perimeter sealant has smooth transition across vertical end dams.



NOTE: Clean All Surfaces prior to Applying Sealants. See Sealant Manufacturer Requirements. TYPICAL AT ALL CONDITIONS

Position closer plate properly. Raised letters "EXTERIOR"

DETAIL I



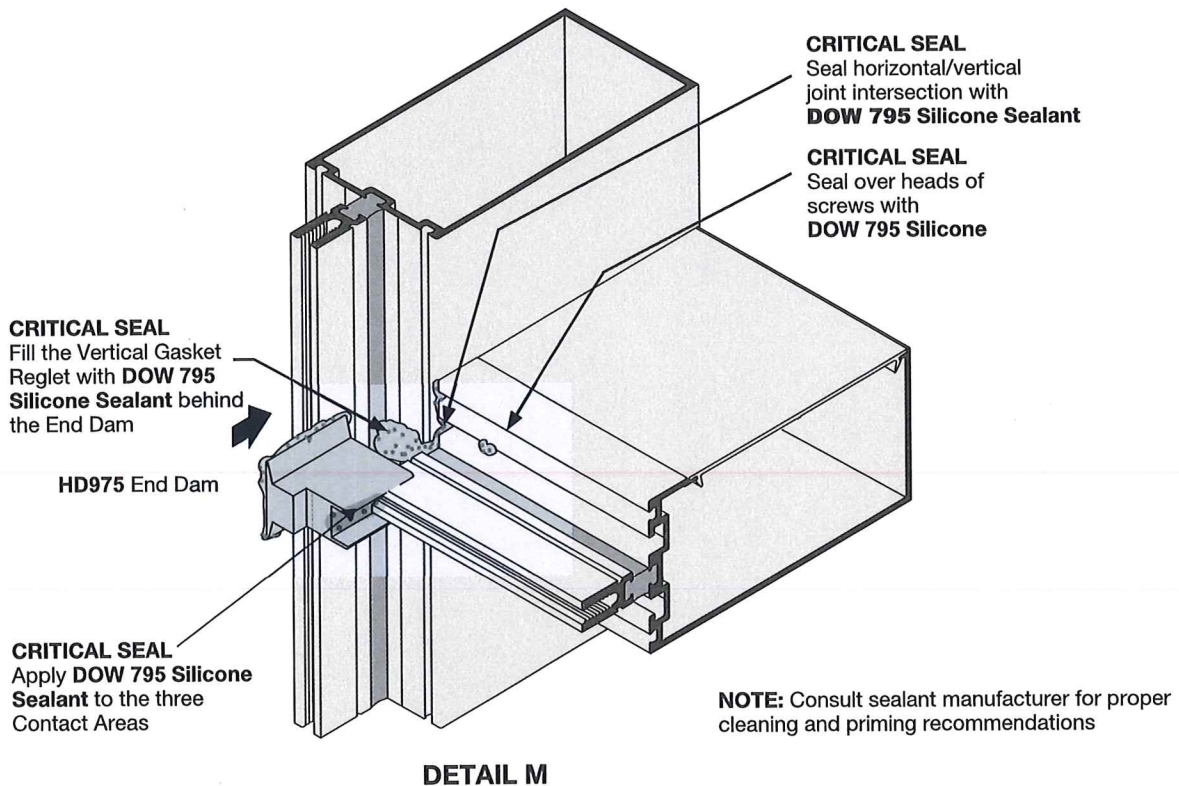
DETAIL J

NOT TO SCALE

FRAME INSTALLATION (CONTINUED)

SINGLE SPAN CONDITION (CONTINUED)

7. Apply **DOW 795 Silicone Sealant** to seal joint between horizontal and vertical. Also seal over heads of screws in the glazing pockets with **Cat. No. 33S Silicone**. See **DETAIL M**.
8. Apply **DOW 795 Silicone Sealant** at the three contact areas of end dams. Also fill the vertical gasket reglet with **DOW 795 Silicone Sealant** at the end dam location. See **DETAIL M**. Slide end dams into place.



NOTE: End dams occur at head and sill as well.

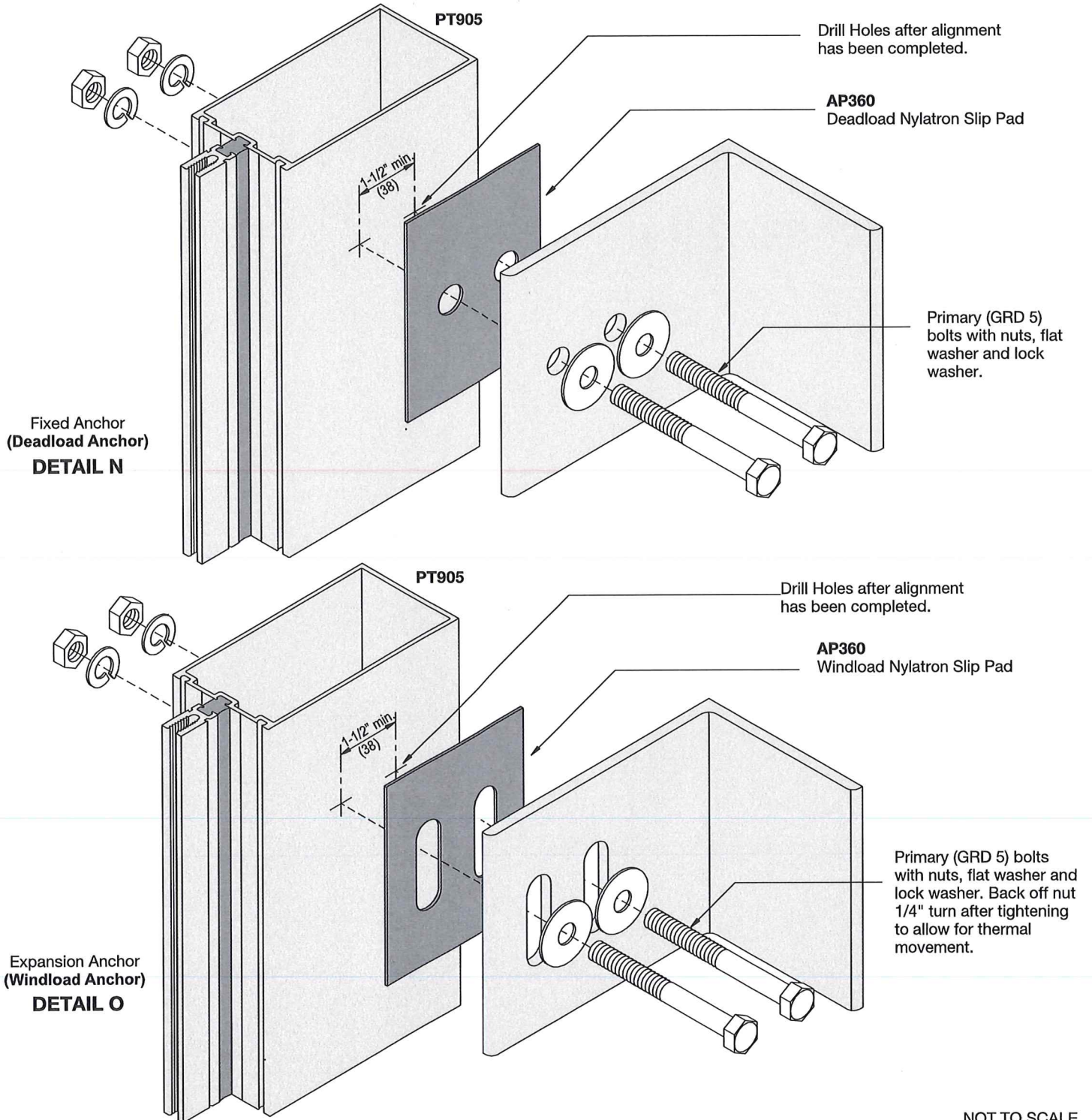
NOT TO SCALE

FRAME INSTALLATION (CONTINUED)

MULTI-SPAN CONDITION

Details N and O 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.

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



NOT TO SCALE

GLAZING GLASS SIZES

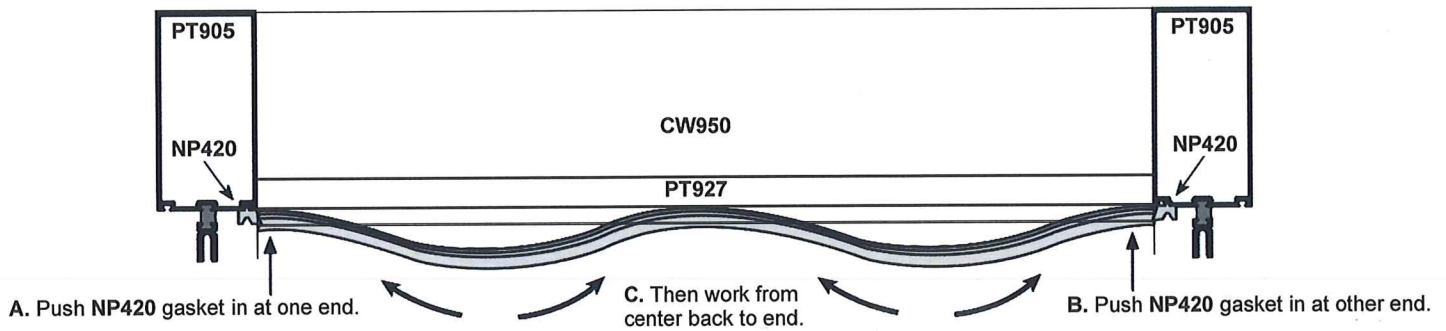
GLASS WIDTH AND HEIGHT = DAYLIGHT OPENING + 1" (25)

NOTE: These formulae do not take into account glass tolerances. Consult glass manufacturer before ordering glass.

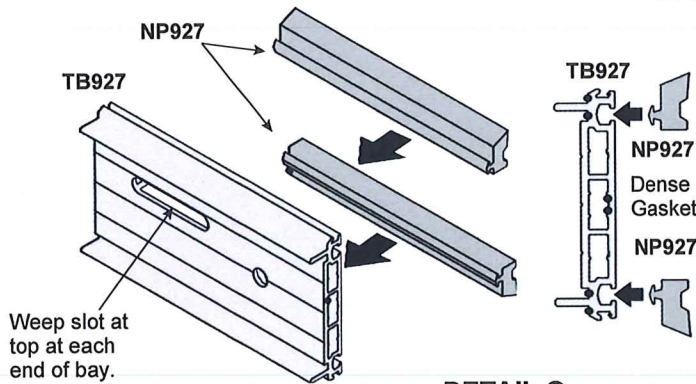
Remove gaskets from carton and lay flat in a clean, dry area in order to recover shape. Allow gaskets to relax at least two hours at temperatures above 50°F (10°C). Glaze with gaskets above 40°F (4.44°C). If necessary warm gaskets in a hot box prior to installing.

Use **NP927** dense gasket at exterior, **NP420** sponge gasket at interior and **NP928** thermal isolator gasket at interior.

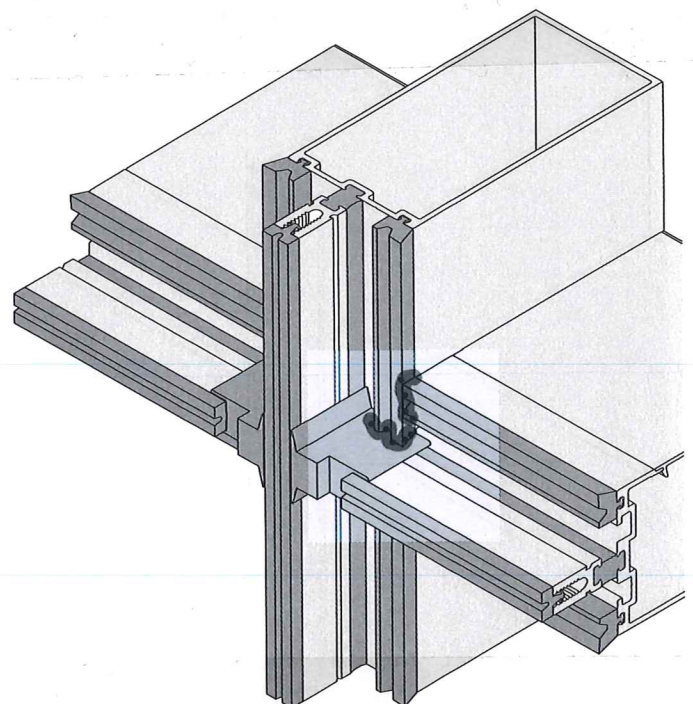
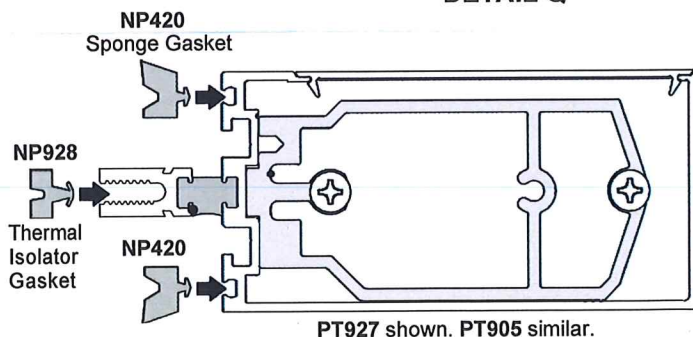
1. Cut gaskets allowing 1/8" (3) extra length per foot of extrusion to allow for shrinkage. Vertical gaskets on mullion run past horizontal gaskets by 5/8" (16). Horizontal gaskets butt against vertical gaskets. Apply sealant to reglet corners 2" in each direction prior to inserting interior gasket. Push gaskets into reglet at ends and then work from center to each end. Seal horizontal gasket to vertical gasket. See **DETAIL P**.
2. Install back gaskets into vertical and horizontal members and front gaskets into pressure bars. See **DETAIL Q**. Horizontal pressure bar gaskets should extend 1/8" (3) beyond each end of the extrusions. Vertical pressure bar gaskets run continuous.



DETAIL P



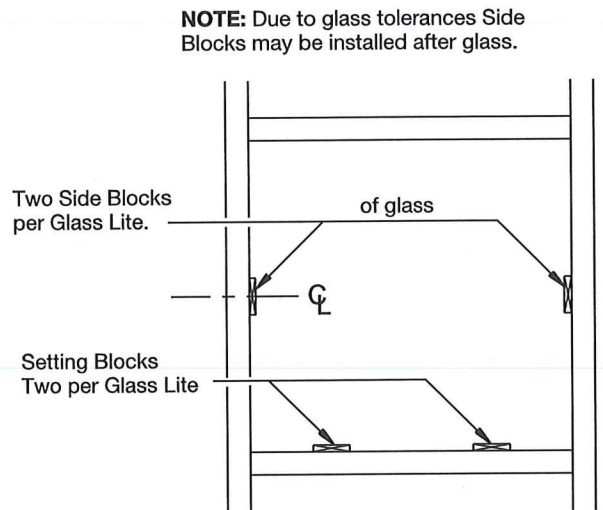
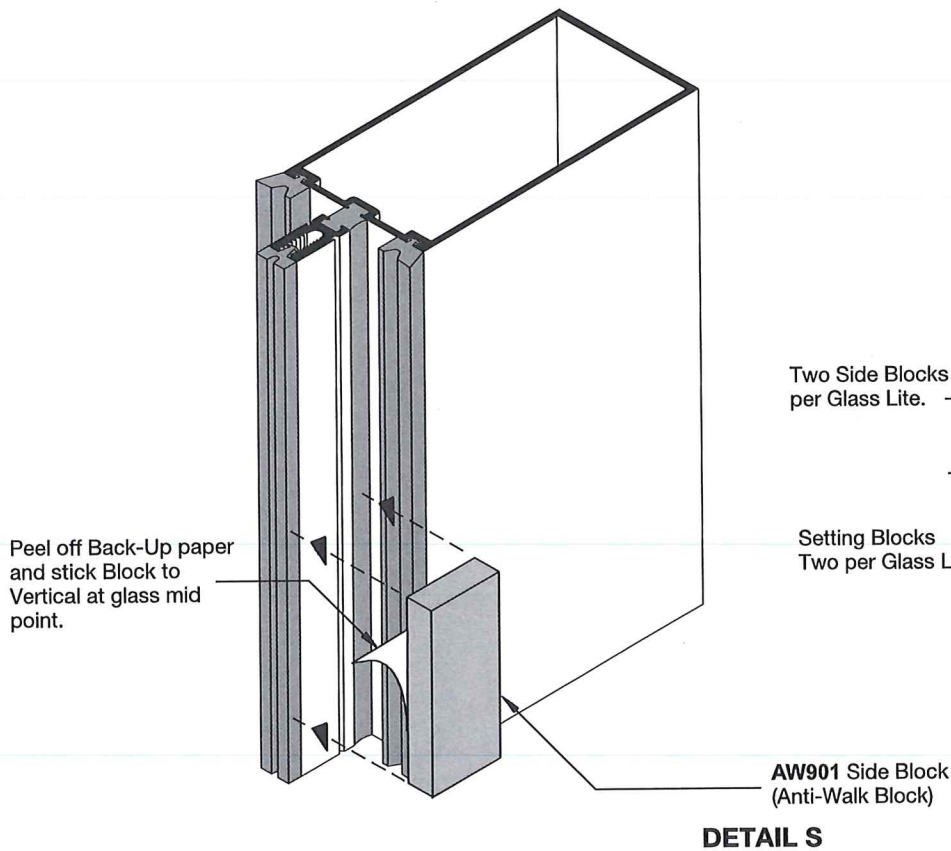
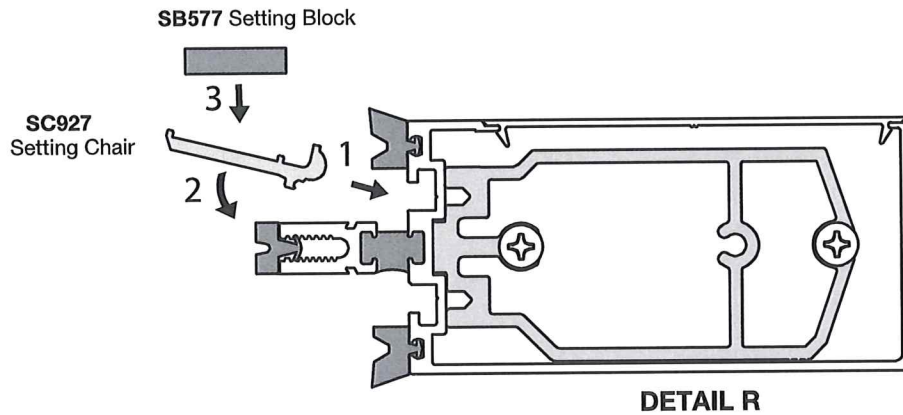
DETAIL Q



NOT TO SCALE

GLAZING (CONTINUED)

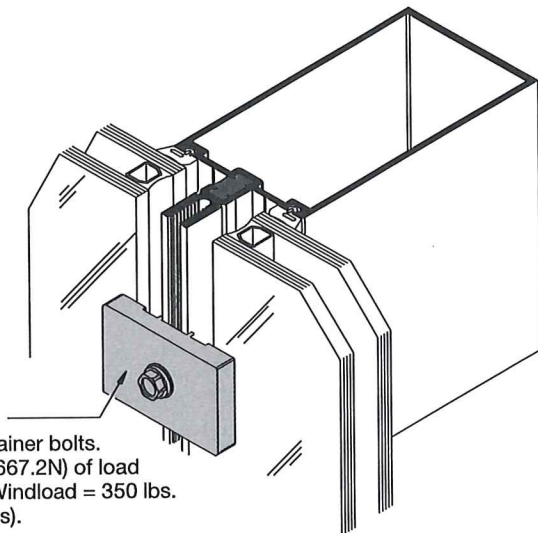
3. Position two setting blocks for each glass lite as directed by the deadload charts and shop drawings. See **DETAIL R**.
4. Peel off side blocks paper backing and locate them, two per glass lite, at approximately mid-height of glass. See **DETAIL S**.



GLAZING (CONTINUED)

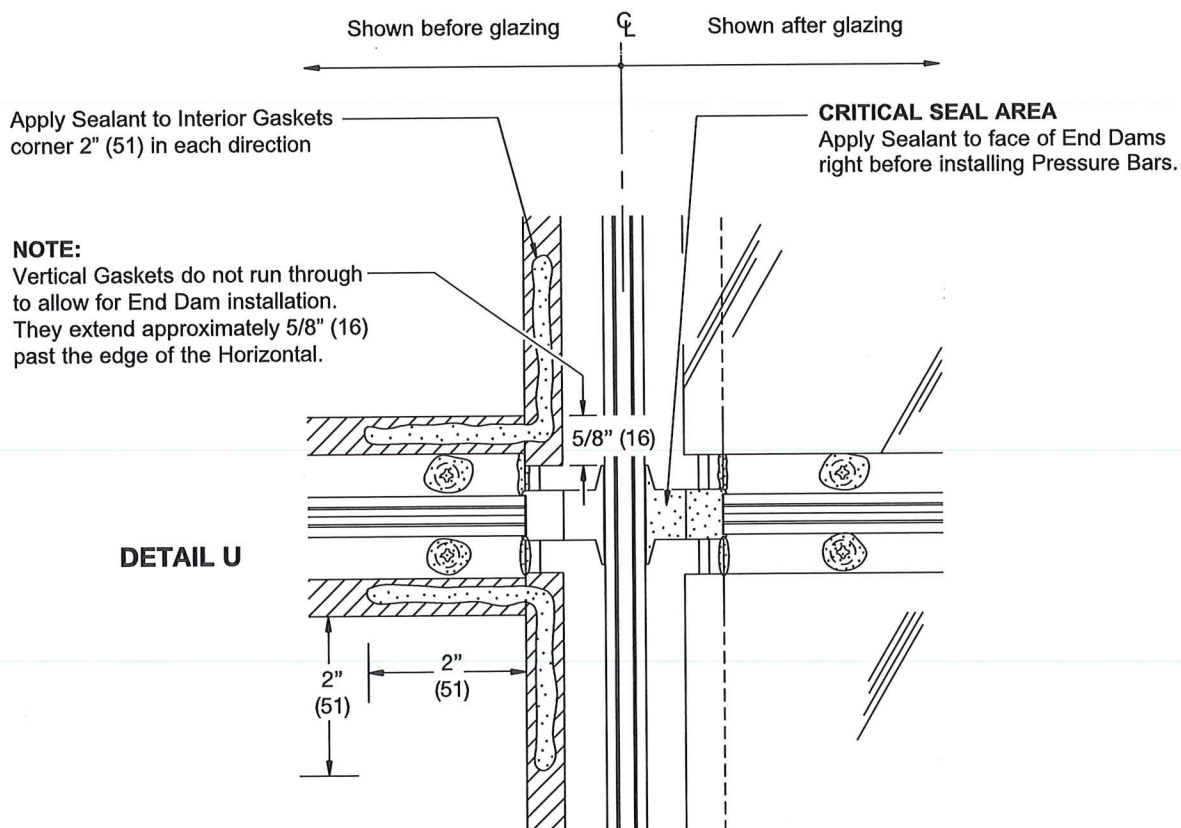
5. Apply bead of sealant at corners of interior gaskets 2" (51) in each direction. See **DETAIL T**.
6. Install glass and center in opening. Use **CW368** temporary glass retainers to hold glass in place until pressure bars are installed. See **DETAIL U**.

DETAIL T



CW368 Temporary Glass Retainer.
Torque to 30 in.-lbs. (3.4N.m)
NOTE: Do not over torque Glass Retainer bolts.
Use one Retainer per each 150 lbs. (667.2N) of load
(i.e. if Glass Height x Glass Width x Windload = 350 lbs.
use three Retainers each side of glass).

7. Apply sealant to face of dams. This is a critical seal area. See **DETAIL U**.



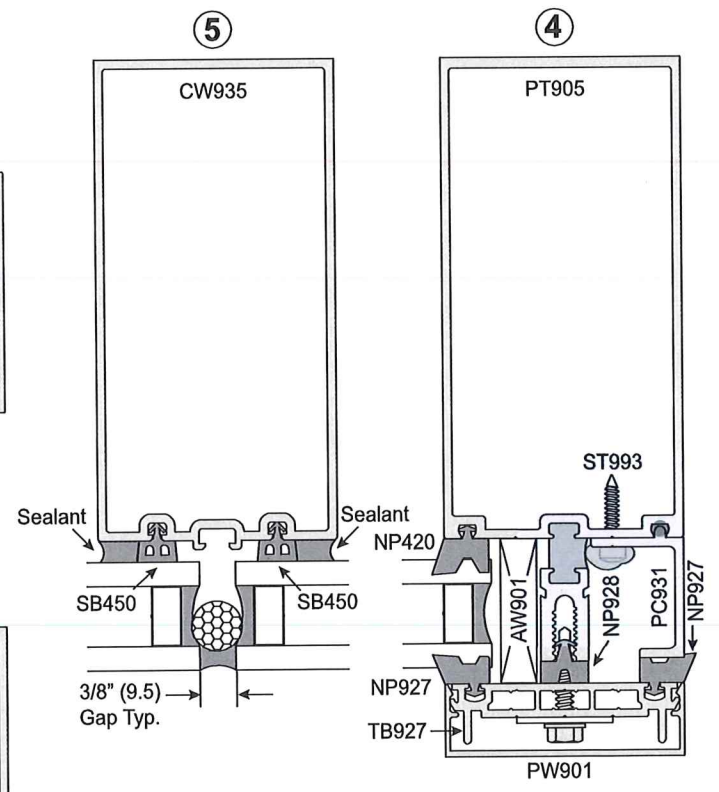
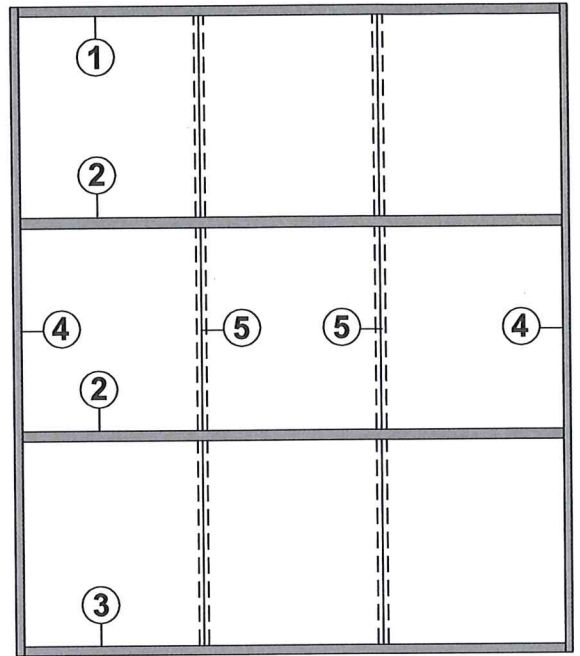
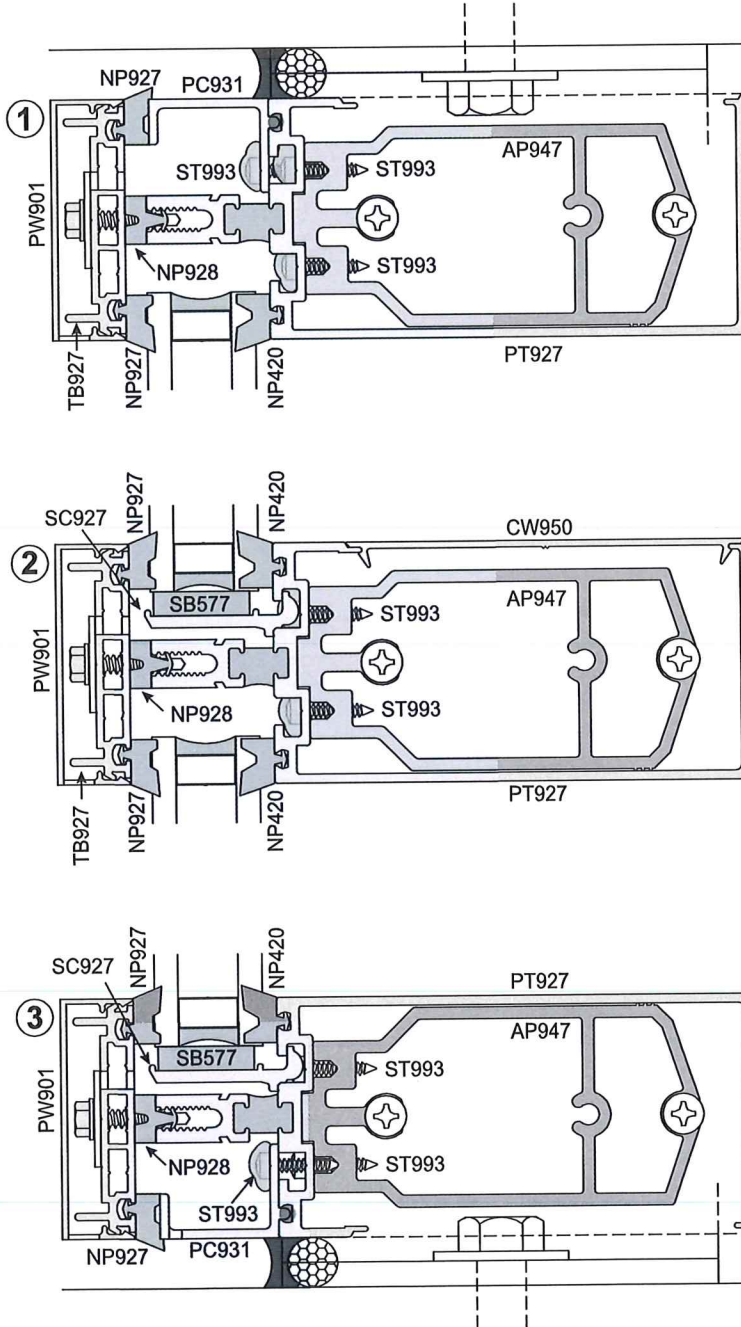
NOT TO SCALE

STRUCTURAL SILICONE GLAZING TYPICAL ELEVATION

GLASS WIDTH & HEIGHT = DAYLIGHT OPENING + 1" (25)

NOTE: These formulae do not take into account glass tolerances. Refer to item 8 of the General Installation Notes on Page 3 regarding structural sealants.

CONSULT GLASS MANUFACTURER BEFORE ORDERING GLASS.



DETAIL V

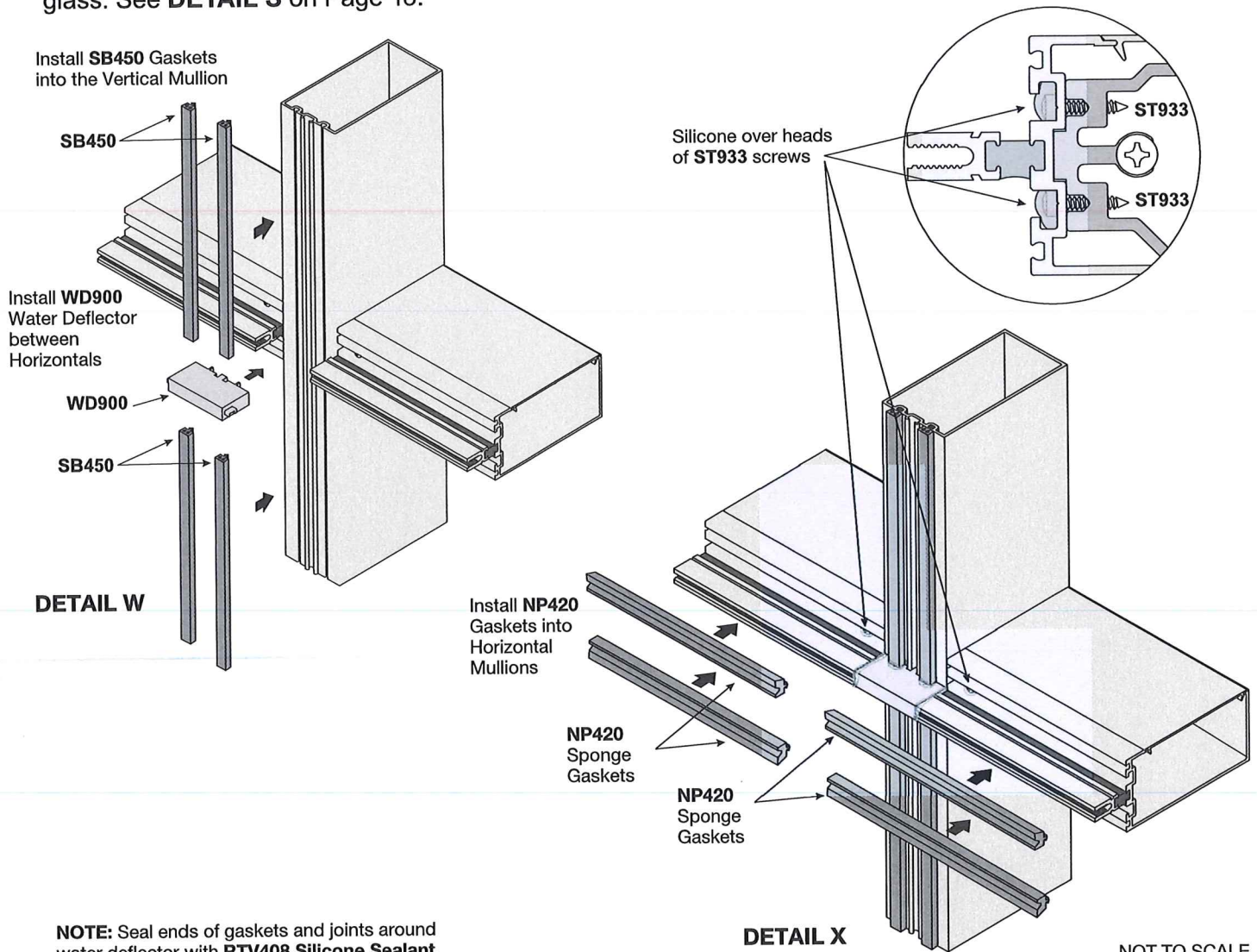
NOT TO SCALE

STRUCTURAL SILICONE GLAZING (CONTINUED)

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 (4.44°C). If necessary warm gaskets in a hot box prior to installing.

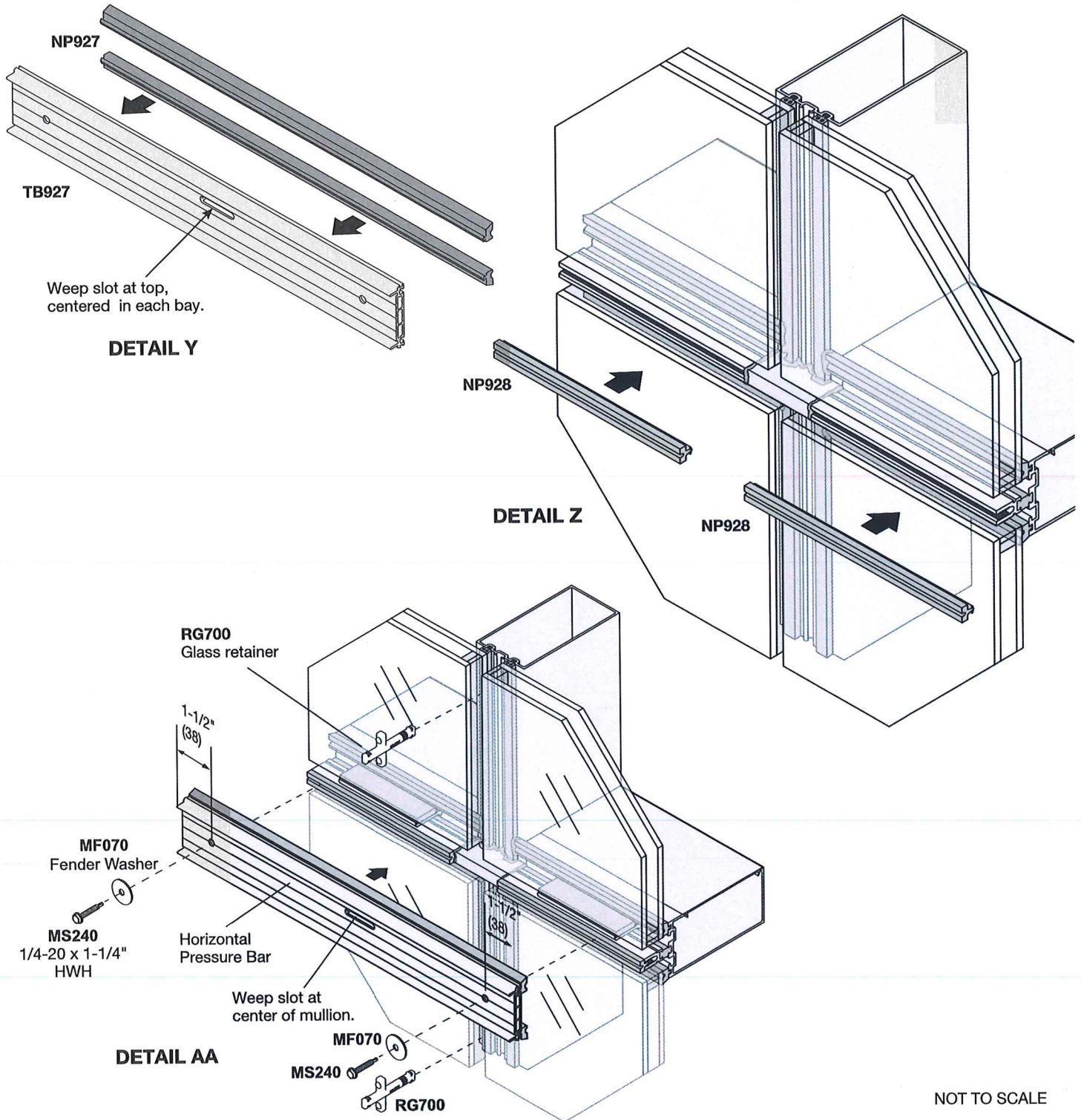
For the intermediate horizontal mullions, use **NP927** rigid gasket at exterior and **NP420** sponge gasket and **NP928** thermal isolator gasket at interior stem. Use **SP450** spacer gasket on the Intermediate Vertical Mullions.

1. Cut gaskets 1/8" (3) longer per foot of extrusion to allow for shrinkage. Vertical gaskets on mullion run past horizontal gaskets by 5/8" (16). Horizontal gaskets butt against vertical gaskets. Insert a water deflector between the two horizontal members and install spacer gaskets into verticals. See **DETAIL W**.
2. Install the **NP420** gaskets into the intermediate horizontal mullions. Seal the horizontal gaskets to the vertical gaskets and the joints around all water deflectors with **DOW 795** Silicone Sealant as shown in **DETAIL X**.
3. Position the two setting blocks on the horizontal mullions for each glass lite as directed by the deadload charts and shop drawings. See **DETAIL R** on Page 18.
4. Remove paper backing from the side blocks and apply to the Jambes only, at approximately mid-height of glass. See **DETAIL S** on Page 18.



STRUCTURAL SILICONE GLAZING (CONTINUED)

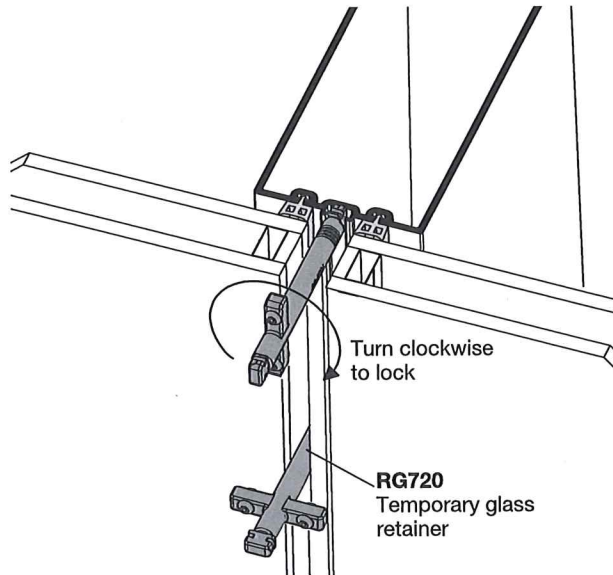
5. Assemble Pressure Bar with Gaskets **NP927** as shown in **Detail Y**. Install gaskets **NP928** into stem on horizontal stiles. See **DETAIL Z**.
6. Partially secure the glass units in place by installing the Horizontal Pressure Bar to the horizontal mullions with Cat. No. **MS240** screws and 1/4" Fender Washers. Weep slots should be to the top of the bar when installed. See **DETAIL AA**.



NOT TO SCALE

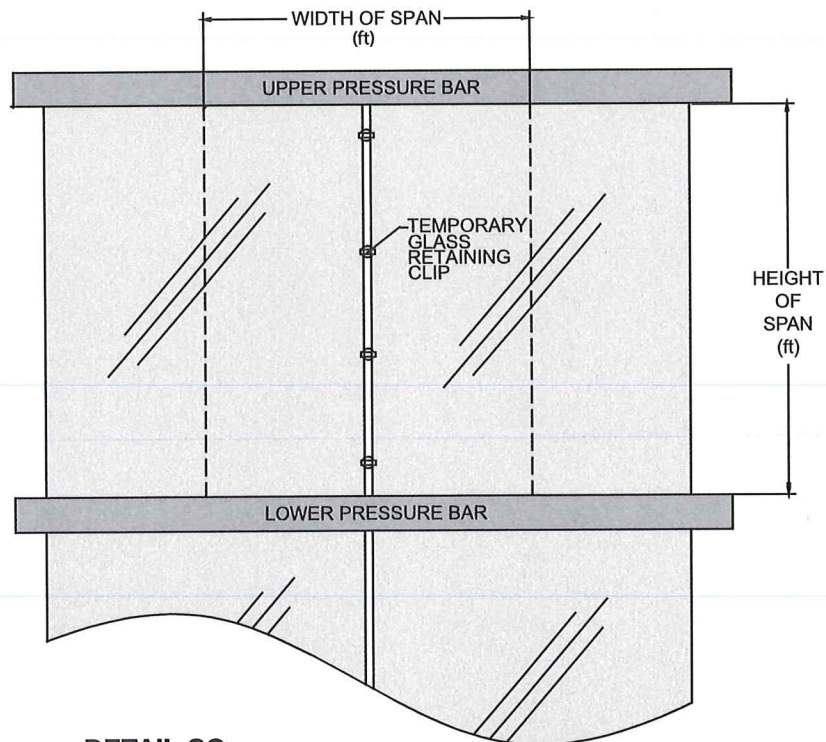
STRUCTURAL SILICONE GLAZING (CONTINUED)

- At the Intermediate Verticals, install **RG720** temporary glass retainers. (See **DETAIL CC** for number of clips per mullion). Insert the long end of the retainer in between the glass units and turn clockwise to engage with the mullion. See **DETAIL BB**.



DETAIL BB

$$\text{NUMBER OF CLIPS} = \frac{\text{WIDTH OF SPAN} \times \text{HEIGHT OF SPAN} \times \text{WINDLOAD (psf)}}{150}$$



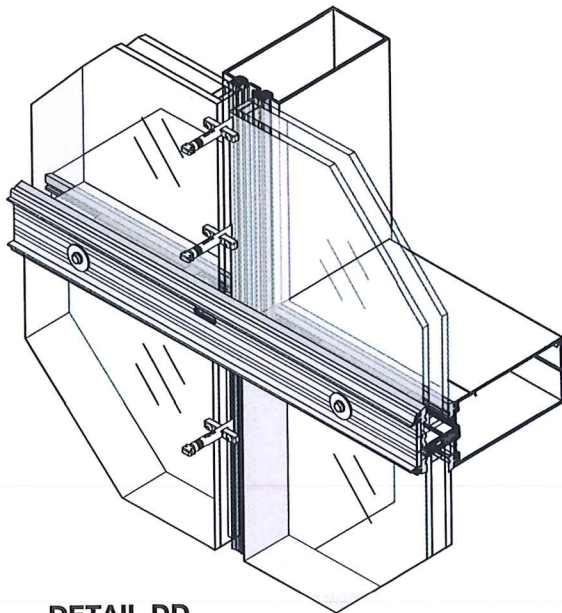
DETAIL CC

NOT TO SCALE

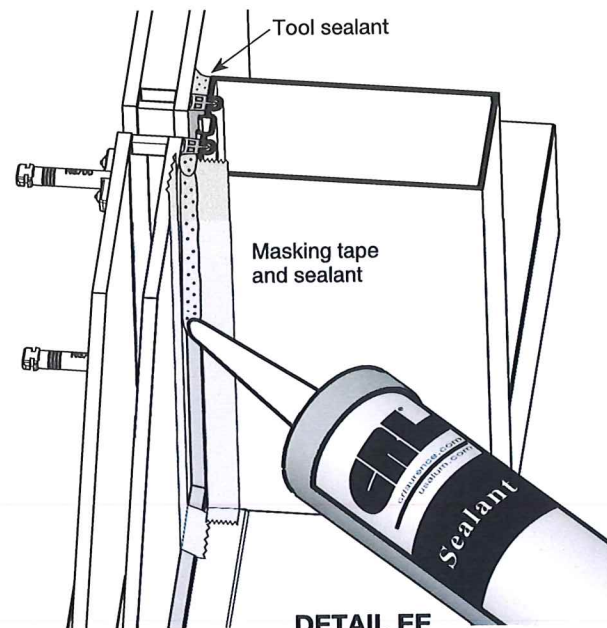
STRUCTURAL SILICONE GLAZING (CONTINUED)

8. Securing the glass from the exterior with the horizontal pressure bars and temporary retainers. See **DETAIL DD**.
9. Apply structural silicone to the intermediate vertical mullions on the interior side. The gap between the intermediate vertical mullion and the glass will be filled with structural silicone. Use masking tape along the edge of the mullion and on the glass to achieve a clean bead after tooling. See **DETAIL EE**. Remove the masking tape before the silicone cures.

NOTE: Always follow structural silicone manufacturer's instructions and recommendations for surface preparation and silicone application.

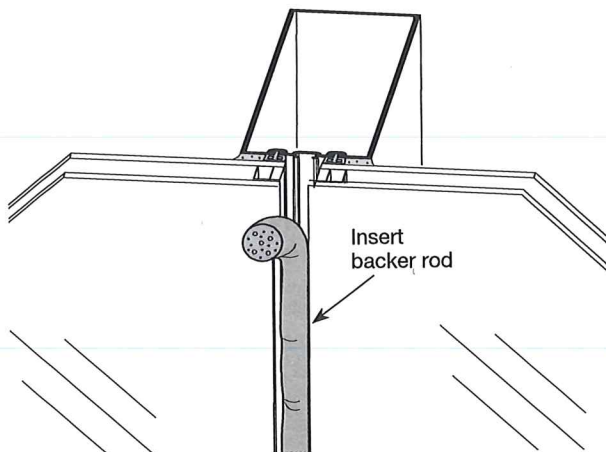


DETAIL DD

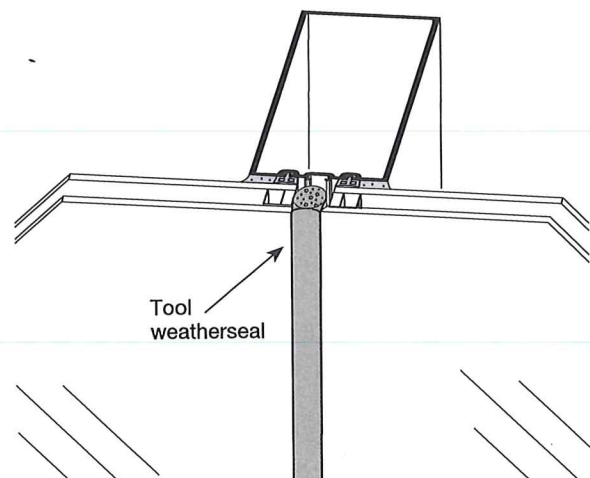


DETAIL EE

10. Following the manufacturer's specifications, allow the silicone to fully cure before removing the temporary glass retainers. After removing the glass retainers, insert open cell polyurethane backer rod between the glass edges on the exterior side. Mask glass and aluminum adjacent to joint and apply **DOW 795** sealant for an exterior weatherseal. See **DETAIL FF**.



DETAIL FF

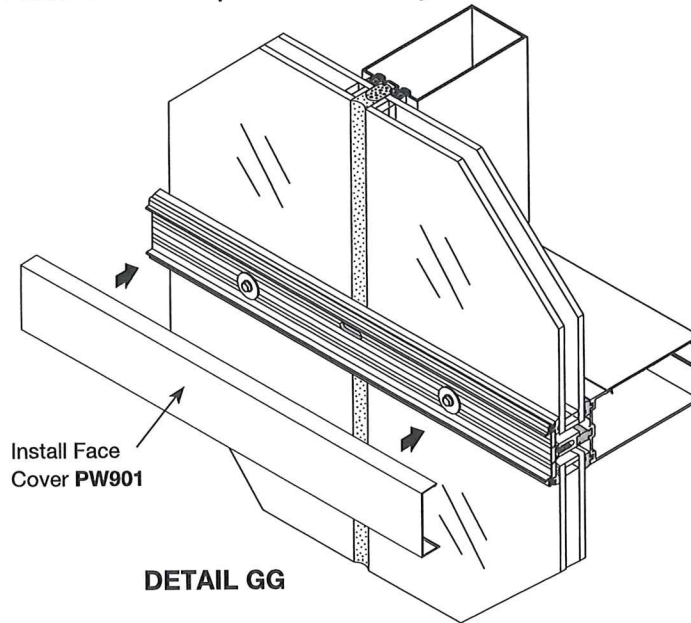


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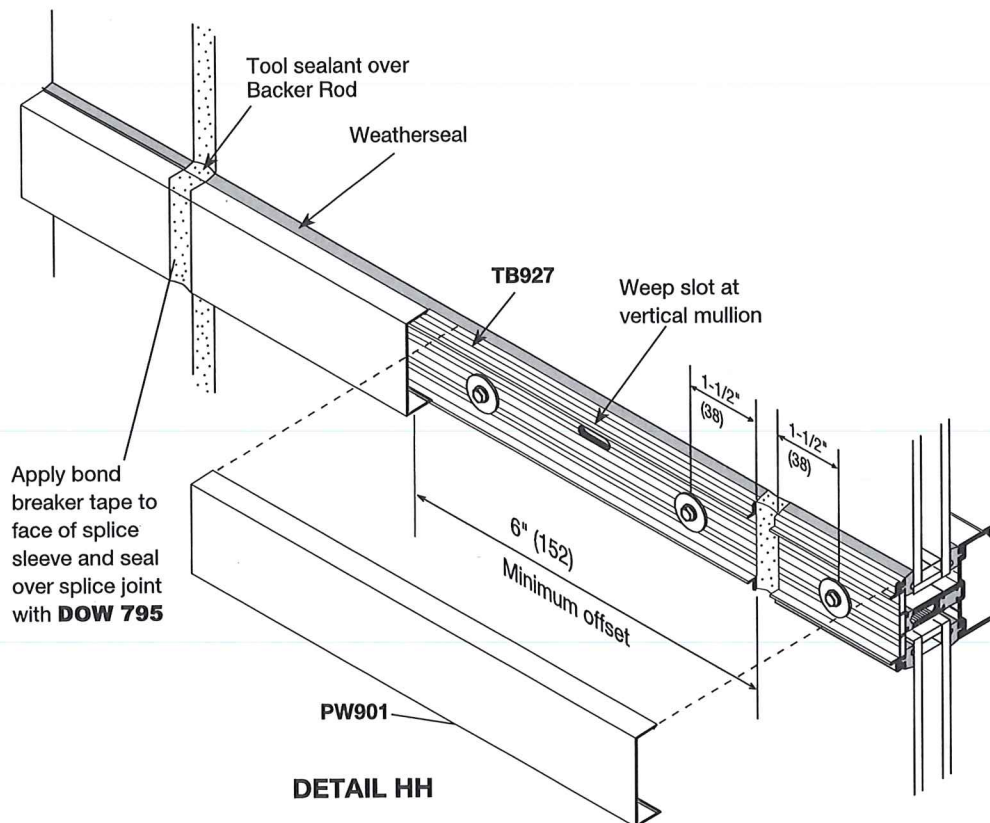
STRUCTURAL SILICONE GLAZING (CONTINUED)

11. Install the horizontal face cover onto the pressure bar, see **DETAIL GG**. Locate splice joints at center line of vertical glass butt joints. Splice joint width should be based on formula for linear expansion for aluminum specifications and sealant movement capability.

NOTE: Do not align face cover splices with pressure bar splices. Offset 6" (152) minimum. See **DETAIL HH**. Set backer rod between face cover and pressure bar at joint and seal.



HORIZONTAL FACE COVER SPLICE JOINTS



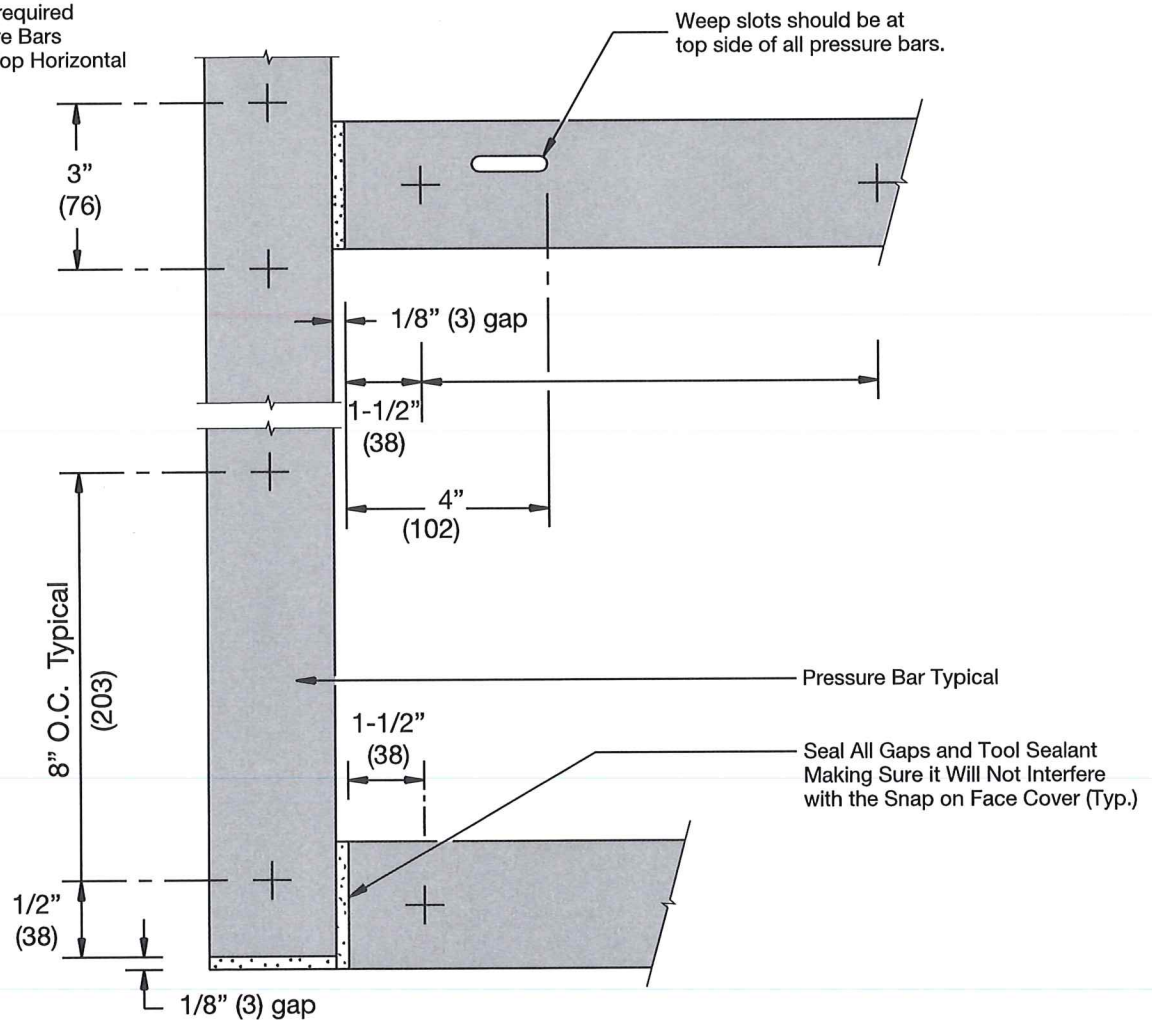
NOT TO SCALE

PRESSURE BAR INSTALLATION

Install vertical pressure bar bolts from bottom to top and horizontal pressure bar bolts from center outward. Always locate bolts 1-1/2" (38) maximum from vertical/horizontal intersections to ensure proper pressure over end dams. See DETAIL S. Be sure pressure bar spacer is not disengaged.

1. Install vertical pressure bars first leaving 1/8" (3) gaps at top and bottom. Using a speed wrench, torque bolts to 30 inch pound (3.4N.m). Increase torque to 40 inch pound (4.0 N.m) minimum after all four sides have been secured. NOTE: weep slots must be in top side of all horizontal pressure bars and level with bottom of glazing pocket to ensure proper drainage. See **DETAIL II**.
2. Center horizontal pressure bars in opening leaving 1/8" (3) gaps at each end.
3. Seal gaps at vertical/horizontal intersections and at top and bottom of vertical pressure bars. See **DETAIL II**.
4. 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. See **DETAIL U**.

NOTE: Weep slots are required in all Horizontal Pressure Bars Including the Head or Top Horizontal



DETAIL II

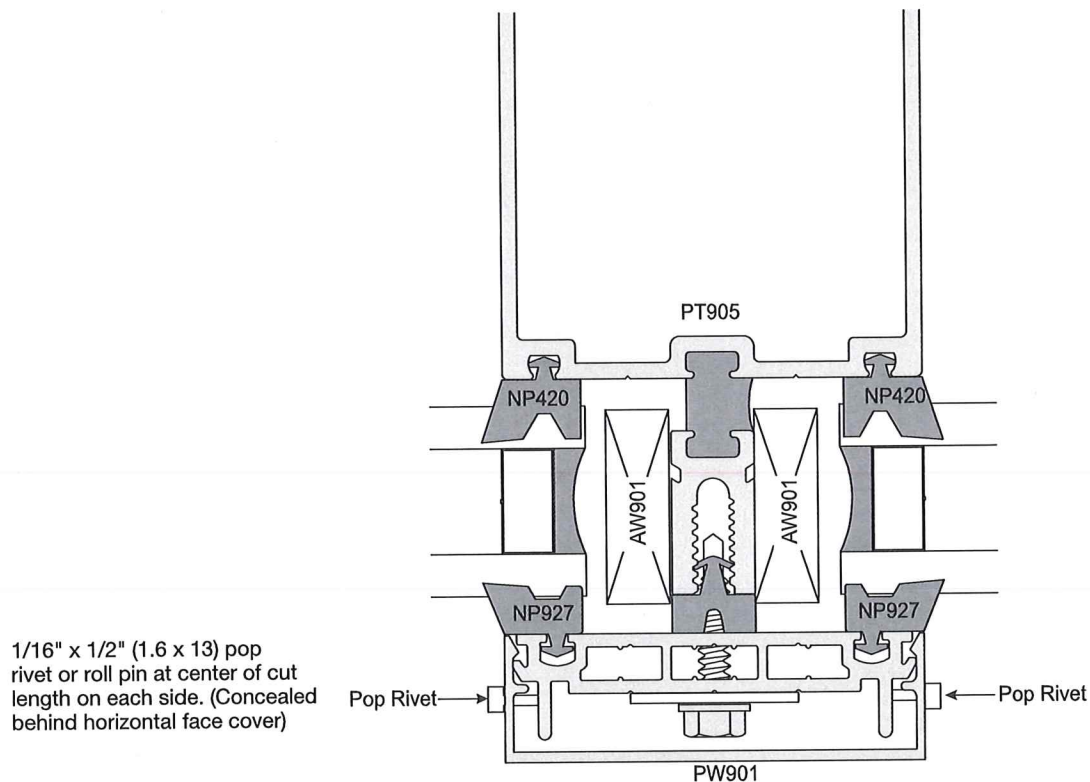
NOT TO SCALE

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 a 3" (76) diameter Stanley 3 lbs. (13.3N) Compo-Cast dead blow soft face hammer.

5. Install snap-in horizontal face covers with the weep holes located on the bottom side. See **DETAIL E** on page 9. Seal gaps at vertical/horizontal intersections and at top and bottom of vertical pressure bars.

NOTE: Extended face covers require a special pressure bar. Pin vertical extended covers with one 1/8" (3) diameter pop rivet on each side per cut length (optional #10 x 1/2" FH SMS) See **DETAIL JJ**. Extended horizontal covers must be pinned on top side at both ends.



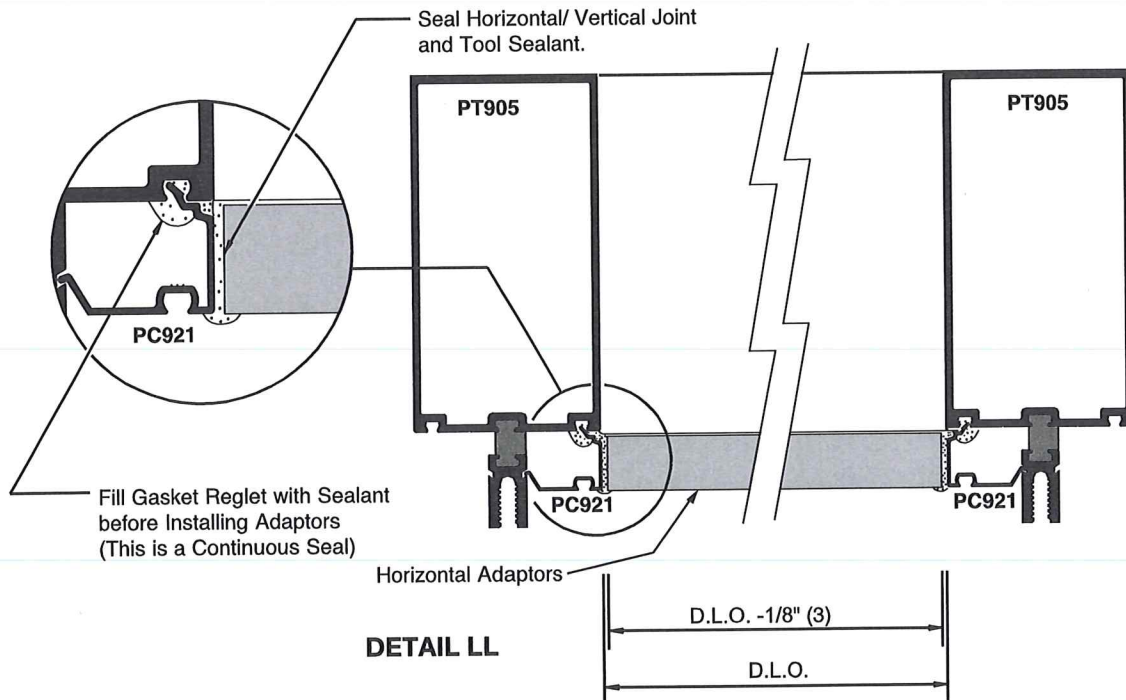
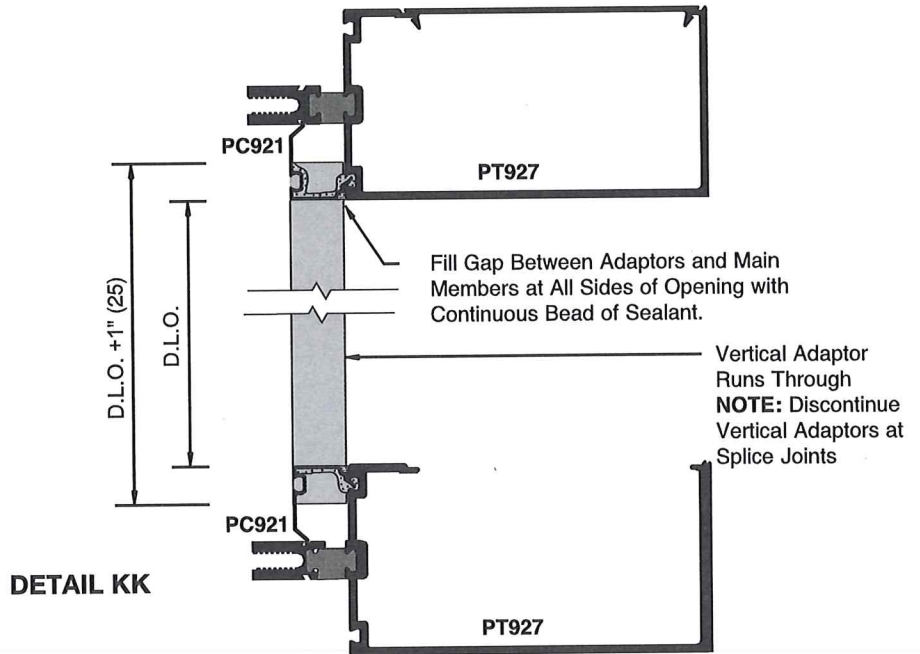
DETAIL JJ

NOT TO SCALE

TRANSITION GLAZING

1. Apply sealant into gasket reglets before installing snap-in transition adaptors.
2. Install vertical adaptors first.
3. Install horizontal adaptors and seal horizontal/vertical joints. Tool sealant. See **DETAIL KK and LL.**

PC921
Transition From 1" to 1/4"
Glass for Series 3252



NOT TO SCALE

VERTICAL SPLICE JOINTS

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

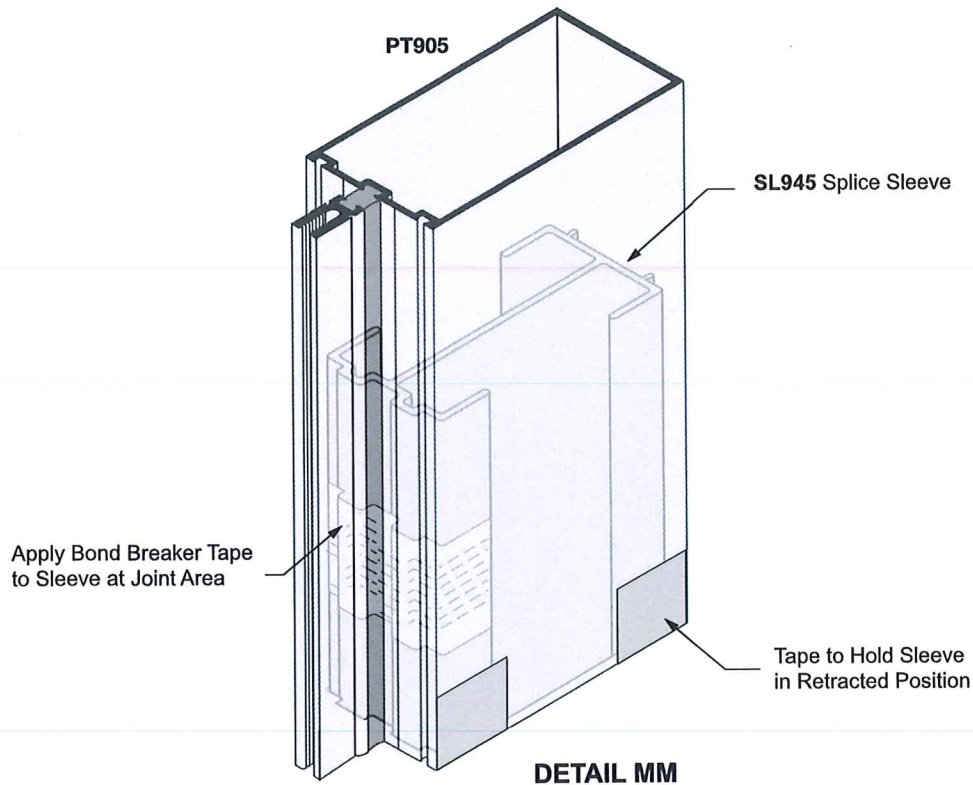
Linear expansion for aluminum, in inches	=	Length (") x F° difference in temperature x .0000129
Linear expansion for aluminum, in millimeters	=	Length (mm) x C° difference in temperature x .02322

A 1/2" (13) minimum joint is recommended. Use a 1/2" (13) 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.

SPLICE SLEEVE

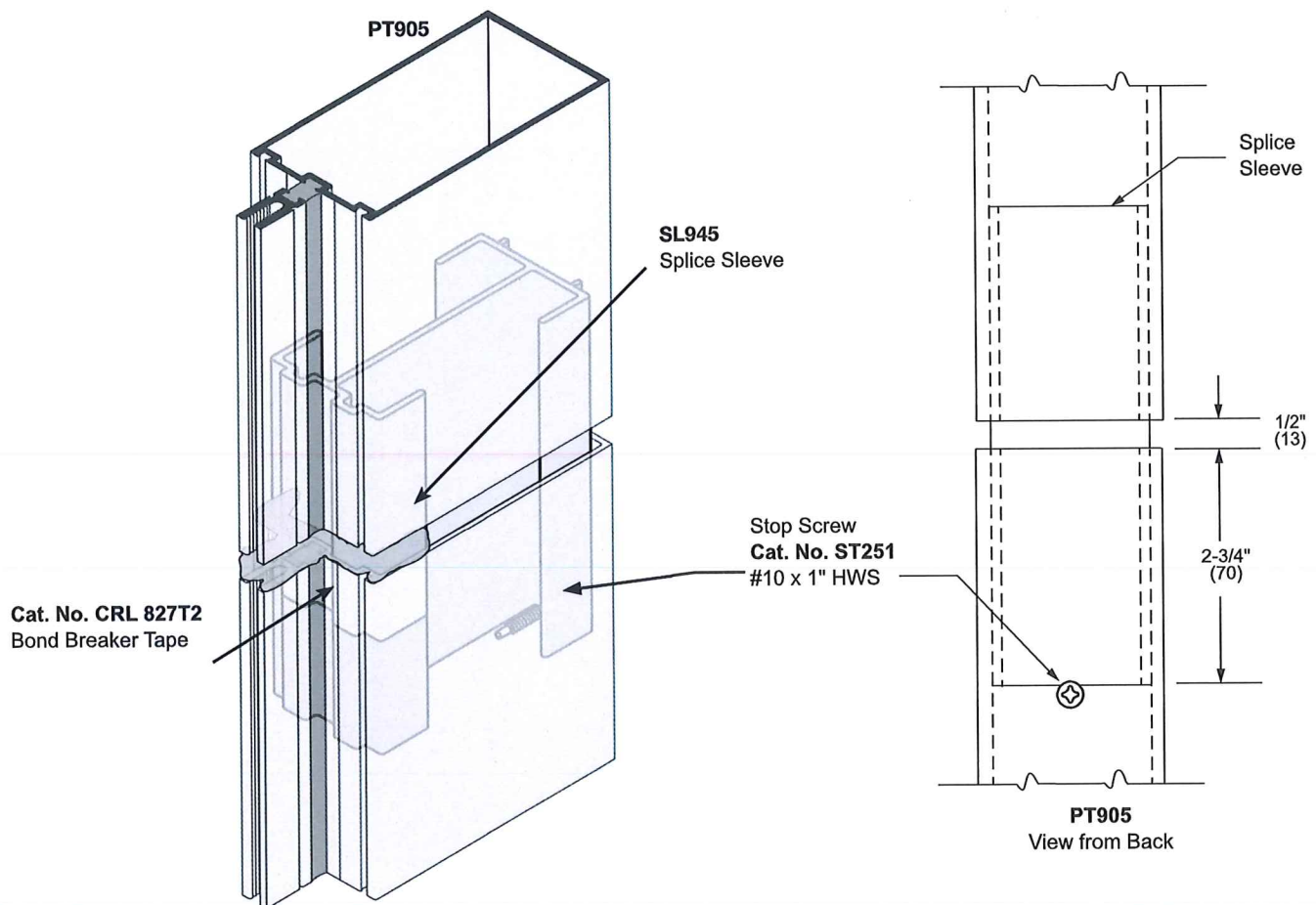
1. Clean splice sleeves and all joint surfaces. Apply CRL Cat. No. 827T2 Bond Breaker Tape at areas where sleeve will be sealed to avoid three side adhesion (**DETAIL MM**).
2. Slide sleeve into the upper member before it is installed and tape to hold it in retracted position. See **DETAIL MM**.



VERTICAL SPLICE JOINTS (CONTINUED)

SPLICE SLEEVE (CONTINUED)

3. Install **Cat. No. ST251** stop screw #10 x 1" HWS at location 2-3/4" (70) down from top of extrusion at inside of lower member (**DETAIL NN**).
4. Install upper member and let extruded sleeve slide down until it sits on top of stop screw.
5. Seal joint over sleeve as shown on **DETAIL PP** on Page 30. When transition adaptors for 1/4" (6) 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 as shown on **DETAIL OO** on Page 30.

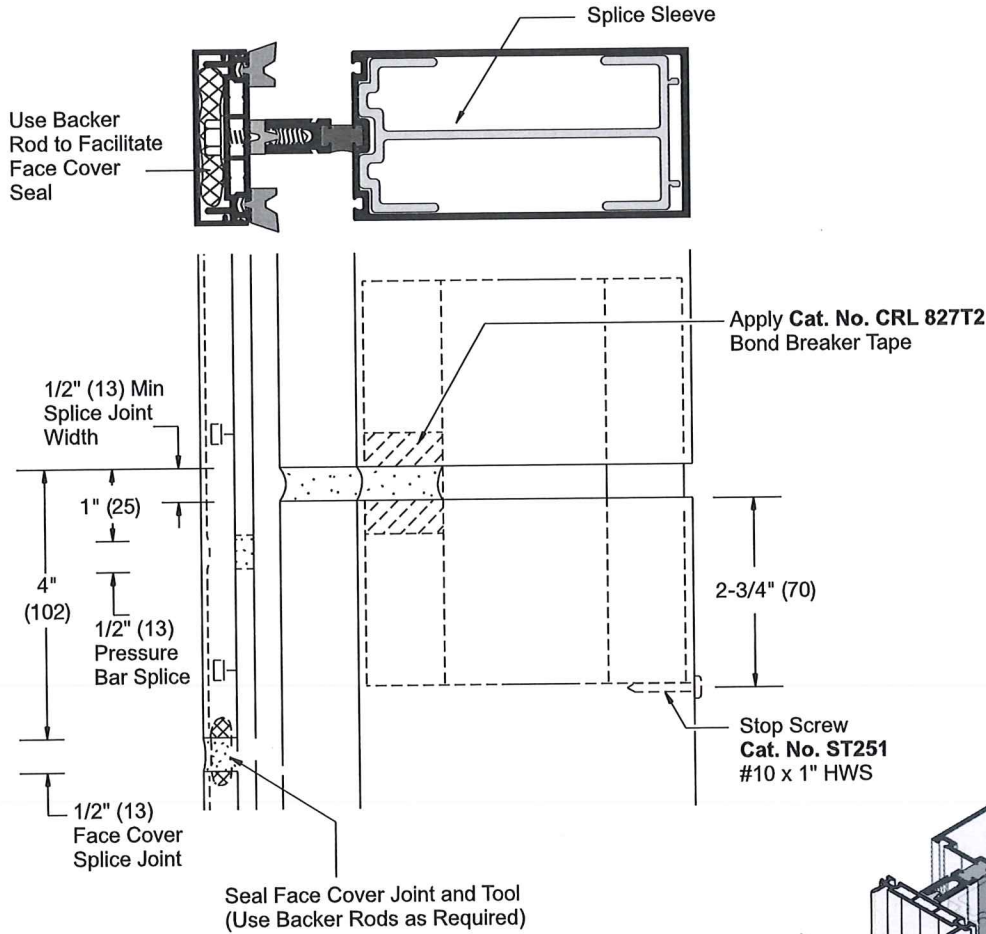


DETAIL NN

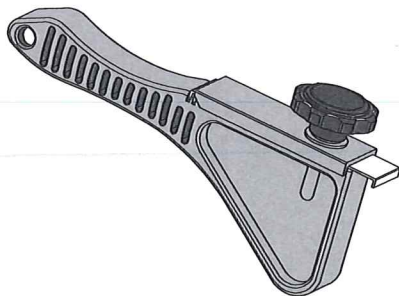
VERTICAL SPLICE JOINTS (CONTINUED)

PRESSURE BAR AND FACE PLATE

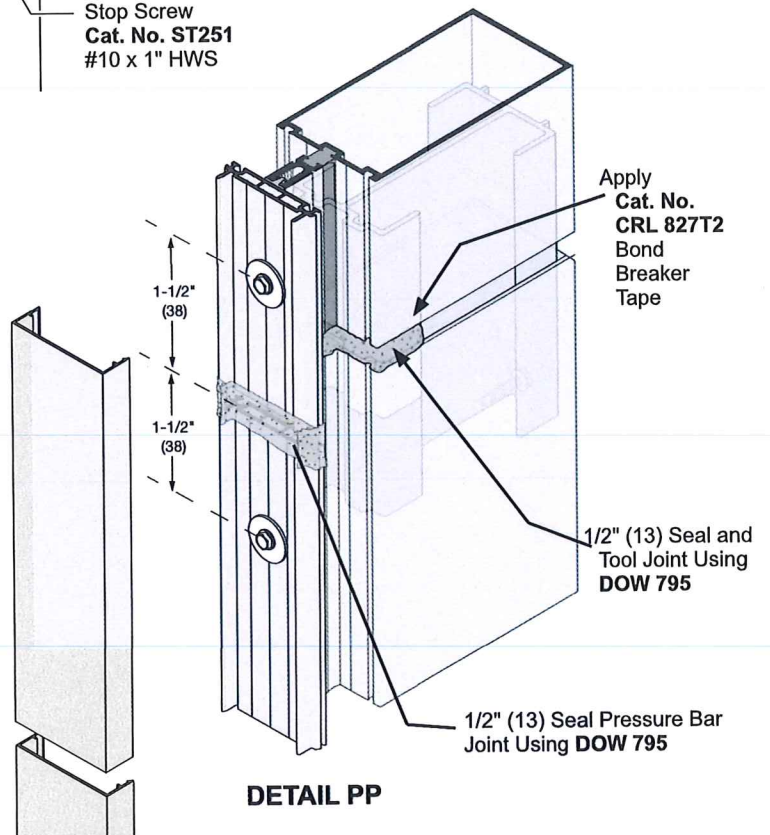
- Seal pressure bar joint (**DETAIL PP**).
- Install face covers and seal joint using backer rod as required (**DETAIL PP**).



DETAIL OO



Aluminum Face Cap Remover Tool
Cat. No. FCR1

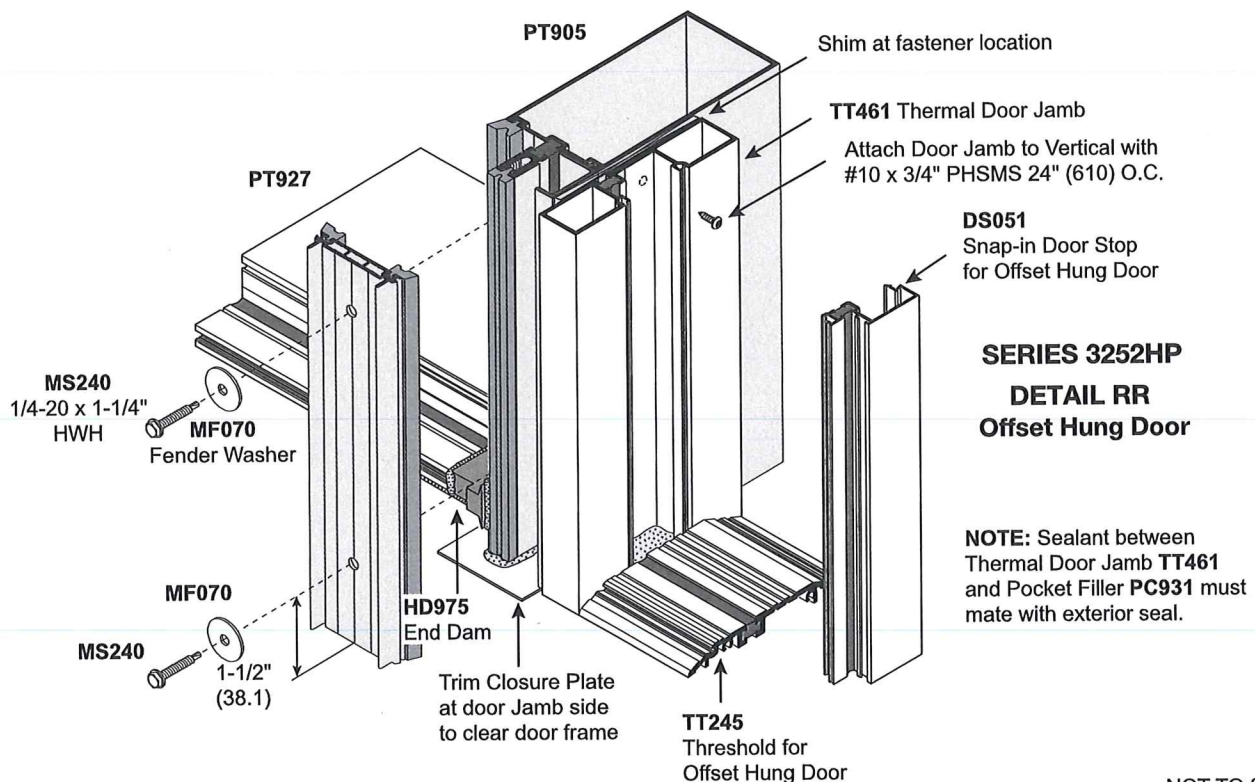
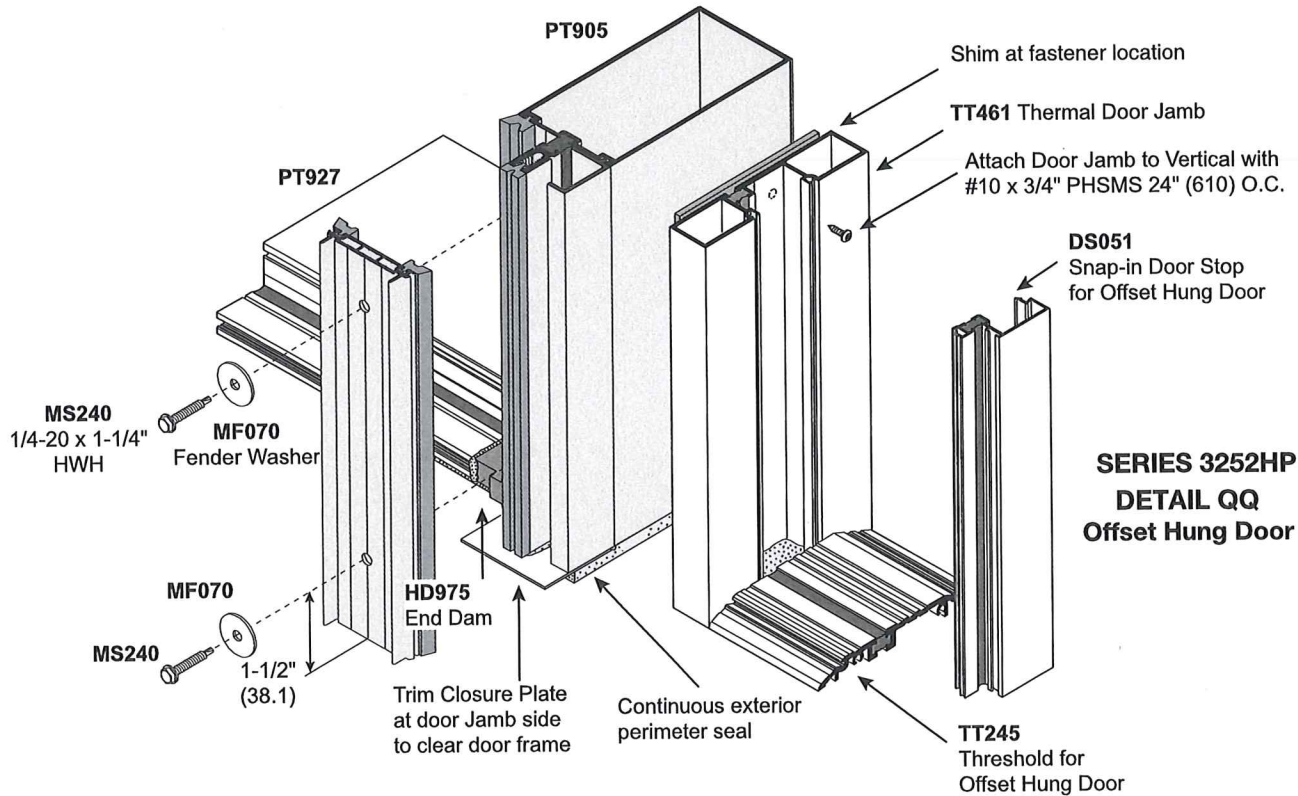


DETAIL PP

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

ENTRANCE FRAMES

Entrance Frames may be installed simultaneously with Curtain Wall or after Curtain Wall installation has been completed. Use **PC952** or **PC352** pocket fillers to close glazing pocket at door side.



NOT TO SCALE

SERIES 3252HP CURTAIN WALL WITH A POLYAMIDE PRESSURE BAR

This Concludes the Installation Manual for your product. We hope that this guide has been helpful. Should you need further assistance, our knowledgeable Technical Sales Department is available at no charge during regular business hours. Please have your Order Number ready before calling.



"WE'RE HERE TO HELP"
TECHNICAL SALES
1-323-588-1281

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www.crlaurence.com or
www.usalum.com

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Tools, Hardware, Sealants, Safety Gear, U.V., and Equipment

Architectural HardwareExt: 17700

Entrances and Storefronts, Balanced, Stacking, and Sliding Doors

Architectural and Ornamental MetalsExt: 17700

Formed Sheet Metal, Awnings, Columns, and Wall Panels

Shower DoorsExt: 17740

Hinges, Handles, Enclosures, Grab Bars, and Partitions

Transaction and HospitalityExt: 17760

Bullet Resistant, Drive Thru, Sneeze Guards, and Speak Thrus

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