

Oldcastle BuildingEnvelope®

*RELIANCE UNIT WALL
STRUCTURAL SILICONE GLAZE
ASSEMBLY & GLAZING INSTRUCTIONS*

NOTE:

THE ASSEMBLY DETAILS FOUND IN THIS PACKAGE ARE GENERIC AND ARE FOR REPRESENTATION ONLY WITH THE INTENT OF GIVING THE ASSEMBLY TEAM A VISUAL REPRESENTATION AS TO HOW THE ASSEMBLIES TYPICALLY ASSEMBLE. THE SHOP SUBMISSION DRAWINGS AND DETAILS ARE THE GOVERNING DOCUMENTS AND AS SUCH THIS PACKAGE IS TO BE USED ONLY AS A RESOURCE.

FOLLOW STRUCTURAL SEALANT MANUFACTURER'S RECOMMENDATIONS FOR USE AND APPLICATION OF THE STRUCTURAL GLAZING SILICONE AND WEATHER SEALANT.

NOTE: CUSTOMER / PROJECT QUALITY ASSURANCE PROCEDURES ARE SEPARATE DOCUMENTS AND ARE TO BE FOLLOWED IN CONJUNCTION WITH THIS MANUAL.

RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS

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RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS

GENERAL INFORMATION

PRODUCT USE

The **Reliance™ Unit Wall** system is intended for fabrication, assembly, sealing, installation and glazing by professionals with appropriate knowledge and experience of the system(s) and their incorporation into various building conditions.

Consult sealant manufacturer for review and recommendation of sealant application. Follow sealant manufacturer's recommendations and literature for proper installation.

The fabrication and installation of a structural silicone-glazed (SSG) or wet glazed system requires more technical knowledge and experience than is required for a conventional pressure-glazed or dry glazed system. The glazing contractor should take all steps as outlined and required by the structural silicone sealant manufacturer, glass fabricator, framing manufacturer, and the project professional engineer of record as well as follow local building code requirements and industry best practices to ensure the proper installation and safe performance of the SSG system.

The glazing contractor for each project needs to ensure compliance with each step, including, but not limited to, design reviews, formal adhesion testing, formal compatibility testing, project specification compliance, validating procedures, field testing, and quality control validation of installed product and surrounding conditions.

Testing of component materials for use in a SSG or wet glazed system is mandatory to fulfill project specifications and warranty requirements and must be submitted by the glazing contractor to the structural silicone manufacturer. All materials that comprise the structural silicone joint, such as the framing system (with the job-specific finish) and job-specific glass must be tested by the structural silicone manufacturer for compatibility and adhesion. All other accessory materials in contact with the structural silicone, such as setting blocks, spacers, gaskets, sweeps, air seals and expansion joints, must also be submitted to the silicone sealant manufacturer for compatibility testing.

To ensure that nothing has changed in formulation or chemistry since the initial tests, subsequent testing during periodic time frames of the project is to be conducted to confirm continued acceptance of the material for use on the project. To ensure the structural performance and integrity of the insulating glass unit (IGU), the glazing contractor must submit the project shop drawings to the glass fabricator to obtain approval for use of their product(s) in any 2, 3 or 4-sided SSG applications.

Quality control procedures for field glazing are to be increased beyond those required for shop glazing. Job conditions will normally have dust, dirt, and other construction debris on the surfaces where structural silicone is to be applied. Great care should be exercised in cleaning and preparing these surfaces for silicone application. The recommendations of the silicone sealant manufacturer are to be strictly enforced and followed. The fabrication and installation of the SSG system and its components, whether shop or field glazed, should be governed by a quality control program, and all steps, procedures, and test reports should be documented throughout the project.

Prior to installation of any SSG system, refer to industry documents (e.g., AAMA Curtain Wall Design Guide Manual, ASTM C1401-14, and AAMA SSGDG-17) for detailed instructions and recommendations.

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THE GLAZING CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ENSURING COMPLIANCE WITH THE ABOVE AND ASSUMES FULL LIABILITY FOR ANY ISSUES ARISING FROM NONCOMPLIANCE.

GLAZING PRACTICES

The air and water performance of the **Reliance™ Unit Wall** system is directly related to the completeness and integrity of the installation process, including but not limited to the assembly seals of the framing joinery, the installed glazing gaskets, and the alignment of the framing joinery glazing plane. Before glazing, verify the glazing pocket width and glazing infill thickness, as both must be in tolerance to assure adequate edge pressure and to achieve the desired air and water performance levels. (In general, framing systems utilizing 1" insulating glass are designed to accommodate a thickness variance of +/- 1/32"). Note: Excessive pressure can cause glass breakage and/or IGU failure. Consult the glass manufacturer for their recommended edge pressure per lineal inch. To achieve the designed and tested air and water performance, best practices include:

1. Surface to be sealed should be cleaned with isopropyl alcohol or solvent and dried as recommended by sealant manufacturer to remove dirt and cutting oils. Sealant at horizontal to vertical connections should be a minimum 3/16" diameter bead on surfaces where horizontal abuts vertical per glazing instructions herein. No gap should be visible in the sealant. Exposed surfaces should be cleaned of excess sealant after installing the horizontal. Inspect joint for complete sealant contact, especially where the horizontal meets the face of the vertical member. Repair joint as required.
2. Glazing gaskets should be cut 1/4" longer per foot, and lay flat, preferably for 24 hours.
3. Gaskets should be cut as single monolithic pieces and "crowded" during their installation to avoid corner gaps caused by post-installation relaxation.
4. The interior glazing gasket should be installed so as to avoid stretching, buckles, or tears.
5. Corners must be cut square, and at a slight angle when required to conform to the bevel on the intersecting gasket; sealed and butted together.
6. Gasket corner joinery must also be crowded, and sealant applied onto the gasket contact frame surface and into gasket reglet raceway where applicable.
7. Gasket corner seals are to be done just prior to installing glass, while the sealant is still wet and uncured, and ensure exterior gaskets are installed so as to place the glass into it's final in-service condition and allow the sealant to conform to optimum configuration. Note: If the sealant cures prior to glazing, the cured sealant could create excessive edge pressure onto the glass and has the potential to cause glass breakage.
8. The glass must be checked for squareness, size dimension, and thickness along the edges paying attention to any variances from center edge to corner edge.
9. Check the placement of the installed glass and verify there is proper edge bite into the pocket, and proper edge clearance from framing elements.
10. After sealant has set and a representative amount of the wall has been installed and glazed (250 square feet or more) run a water hose test in accordance with AAMA 501.2 specifications to check installation. On large projects the hose test should be repeated during the glazing operation. Consult and follow NGA's GANA Manual and FGMA Glazing Manual for proper glazing technique and procedure.

Vertical movement of mullion at intermediate floors requires special expansion joints and glazing materials. The system permits maximum +/-3/4" movement. For designs and applications that may require greater movement or special considerations, please contact your local Oldcastle BuildingEnvelope facility.

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Variations on the details shown are inevitable and are not the responsibility of Oldcastle BuildingEnvelope when drawn by others. Oldcastle BuildingEnvelope strongly encourages its customers to utilize Oldcastle BuildingEnvelope® supplied calculations and shop drawings.

BUILDING CODES

Oldcastle BuildingEnvelope® does not control the application nor selection of its product configurations, sealant, or glazing materials, and assumes no responsibility thereof. It is the responsibility of the owner, architect, and installer to make these selections in strict compliance with applicable laws and building codes.

PROTECTION AND STORAGE

Handle all material carefully. Do not drop from the truck. Stack with adequate separation so the material will not rub together. Store material off the ground, protecting against the elements and other construction hazards by using a well-ventilated covering. Remove material from package if wet or located in a damp area. For further guidelines consult AAMA publication CW-10 "Care and Handling of Architectural Aluminum From Shop to Site."

CHECK MATERIAL

Check glass dimensions for overall size as well as thickness. Oldcastle BuildingEnvelope cannot be held responsible for gaskets that are not watertight due to extreme glass tolerances. The unitized curtain wall system is designed to accommodate glass or panels measuring 1" in thickness (+/- 1/32"). Check all material upon arrival at job site for quality and to determine any shipping damage.

Using the contract documents, completely check the surrounding conditions that will receive your materials. Notify the general contractor by letter of any discrepancies before proceeding with the work. Failure to do so constitutes acceptance of work by other trades.

Check shop drawings, installation instructions, architectural drawings and shipping lists to become familiar with the project. The shop drawings take precedence and include specific details for the project. The installation instructions are of a general nature and cover the most common conditions. Due to varying job conditions all sealant used must be approved by the sealant manufacturer to ensure it will perform per the conditions shown on the instructions and shop drawings. The sealant must be compatible with all surfaces in which adhesion is required, including other sealant surfaces. Use primers where directed by sealant manufacturer. Properly store sealant at the recommended temperatures and check sealant for remainder of shelf life before using.

FIELD CONDITIONS

All material to be installed must be plumb, level and true. Aluminum to be placed in direct contact with masonry or incompatible material should be isolated with a heavy coat of zinc chromate, bituminous paint or non-metallic material unless otherwise specified. After sealant is set and a representative amount of the wall has been glazed (250 sq. ft. or more), perform a water hose test in accordance with AAMA 501.2 "Field Check of Metal Storefront, Curtain Walls and Slope Glazing Systems for Water Leakage".

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On large projects the hose test must be repeated during the glazing operation. Review anchors or embeds in structure as early as possible to confirm that 'as built' building structure can accommodate anticipated anchor tolerances.

CLEANING MATERIALS

Cement, plaster terrazzo, alkaline and acid-based materials used to clean masonry are very harmful to finishes. Any residue should be removed with water and mild soap immediately or permanent staining will occur. A spot test is recommended before any cleaning agent is used. Refer to the Architectural Finish Guide in the Detail Catalog.

EXPANSION JOINTS

Expansion joints and perimeter joints shown in these instructions and in the shop drawings are shown at nominal size. Actual dimensions may vary due to perimeter conditions and/or differences in metal temperature between the time of fabrication and the time of assembly/installation. For example, a 12-foot unrestrained length of aluminum can expand or contract 3/32" over a temperature change of 50 degrees F. Any movement potential should be accounted for at the time of the assembly and installation.

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MEASURING & CUTTING MATERIAL

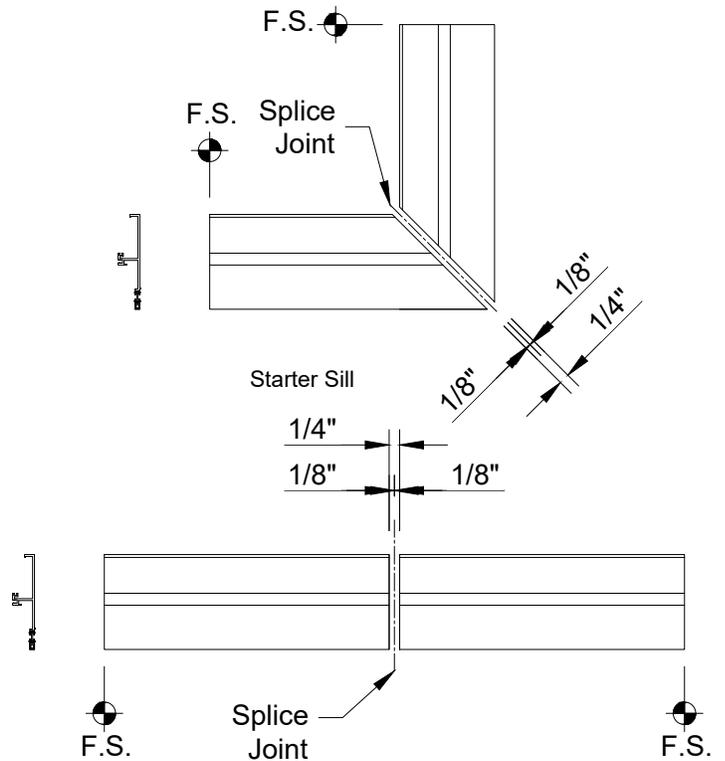
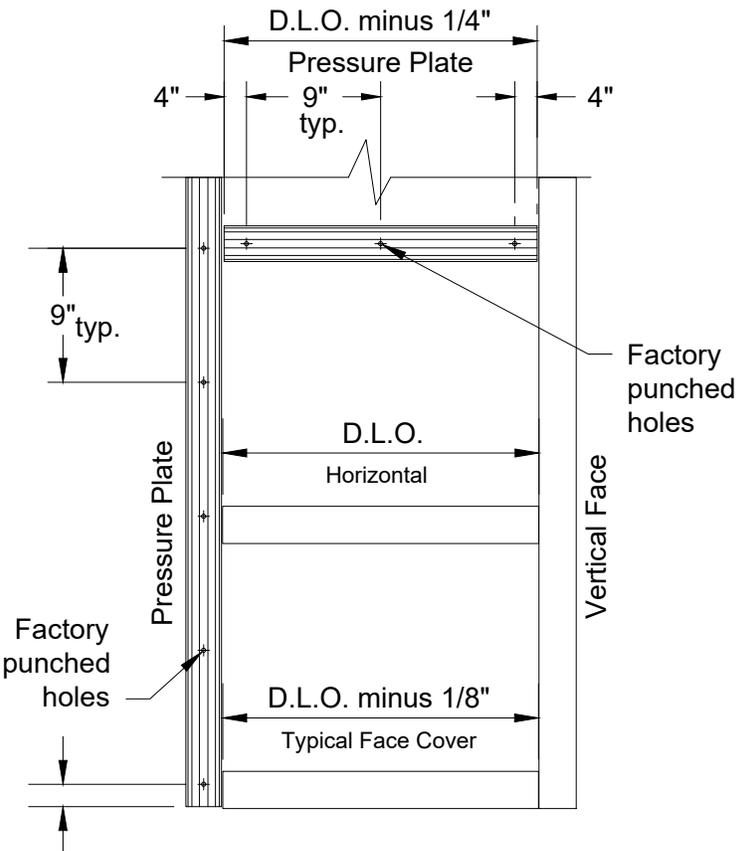
Unless otherwise noted, the details shown in these instructions reflect 1 " glazing, and are representative of typical non corner conditions.

- 1.1 Measure ROUGH OPENING to determine FRAME WIDTH and FRAME HEIGHT dimensions. Allow 3/4" minimum clearance at jamb vertical & 1 1/4" at head frame installation.
- 1.2 Cut material to size.

Frame Members

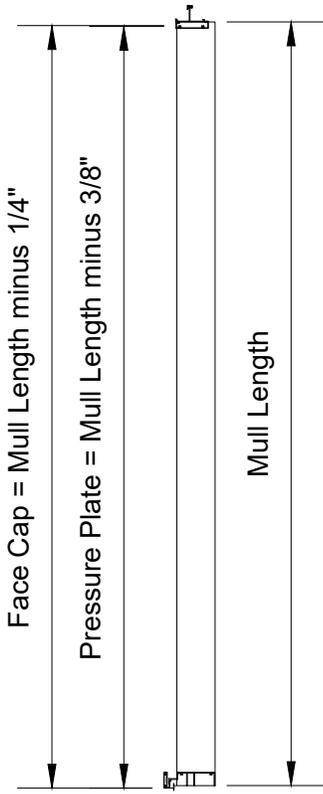
- Verticals
- Vertical Pressure Plates
- Vertical Face Covers
- Vertical Pocket Filler (Non Capt.)
- Vertical Pocket Filler Trim (Non Capt.)
- Horizontals
- Horizontal Interior Trim
- Horizontal Stack
- Horizontal Pocket Filler
- Horizontal Pressure Plates
- Horizontal Face Covers
- Horizontal Pocket Filler (Non Capt.)
- Horizontal Pocket Filler (Non Capt.)
- Starter Sill

- Reference Project Shop Drawings.
- See Page 6 for Cut Lengths
- See Page 6 for Cut Lengths
- Mull Height
- Mull Height
- D.L.O.
- D.L.O. minus 1/16"
- D.L.O. plus 3 5/8" (jamb unit)
- D.L.O. plus 2 1/4" (typ. unit)
- D.L.O. plus 3 5/8" (jamb unit)
- D.L.O. plus 2" (typ. unit)
- D.L.O. minus 1/4"
- D.L.O. minus 1/8"
- D.L.O. plus 3 1/4" (jamb unit)
- D.L.O. plus 1 1/2" (typ. unit)
- Frame size w/ 1/4" splice joints as required



CUT TO LENGTH MATERIAL

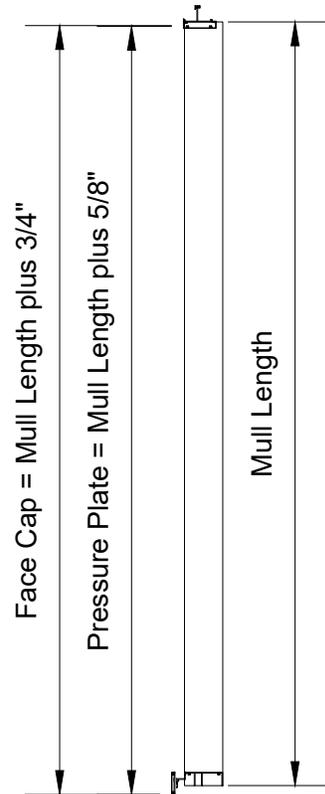
RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS



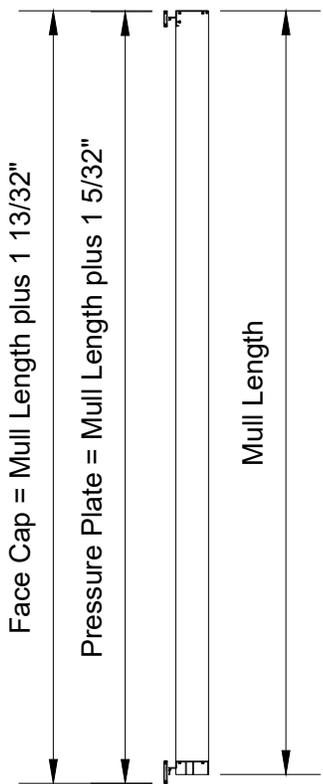
Live Load
 Starter Sill to Stack



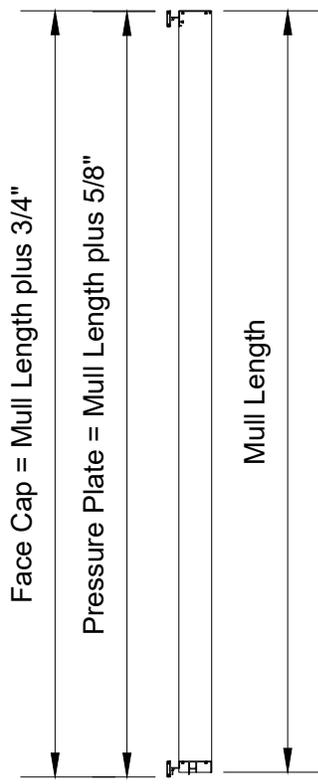
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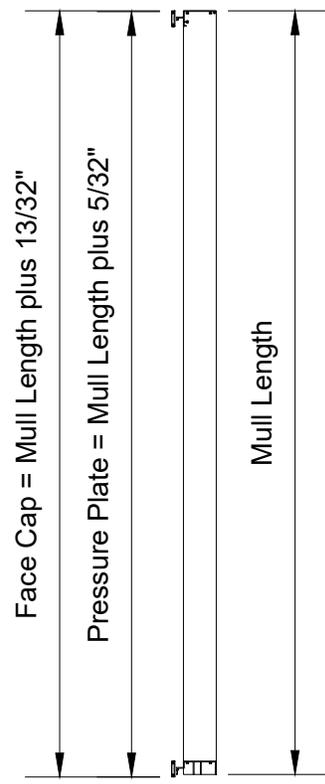
Stack to Stack



Stack to Head

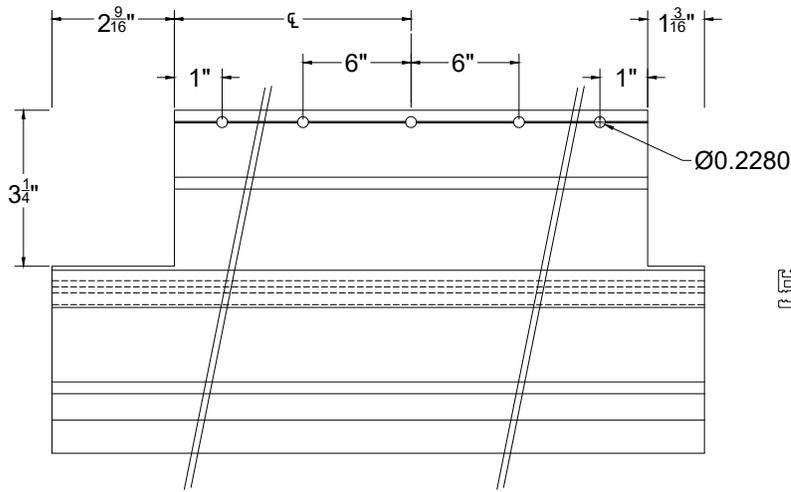


Dead Load
 Starter Sill to Head



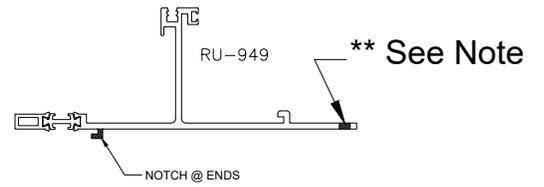
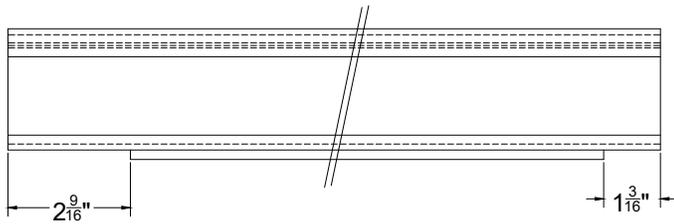
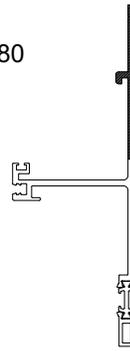
Live Load
 Starter Sill to Head

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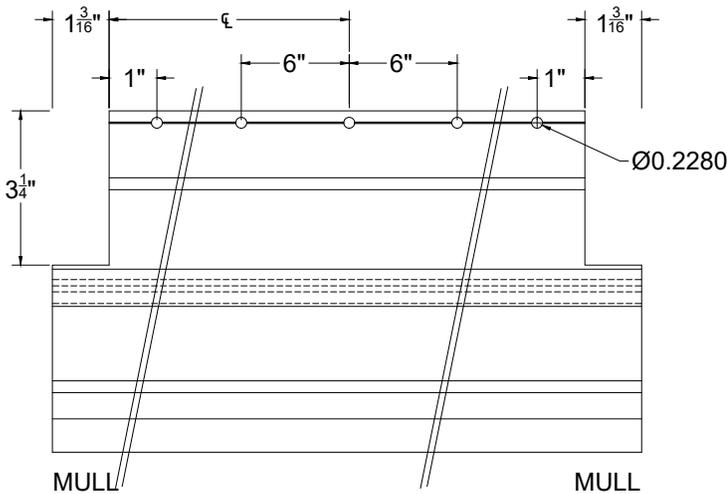


JAMB

MULL

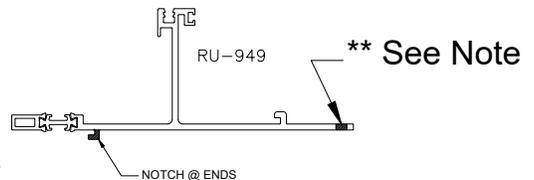
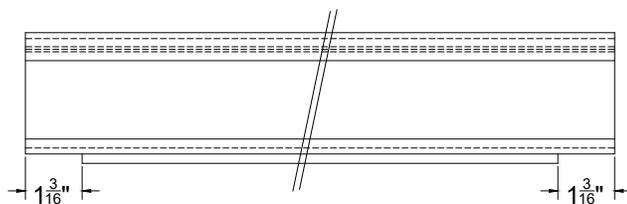
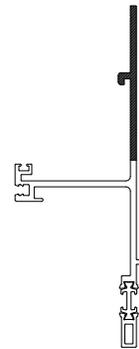


****Additional fasteners may be required to meet project specific structural requirements.**



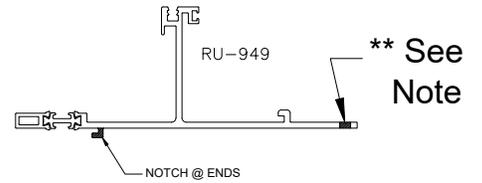
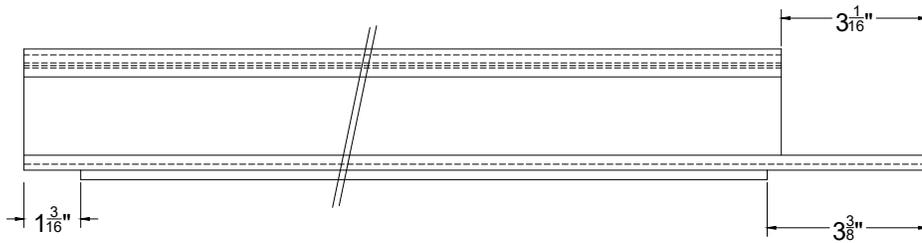
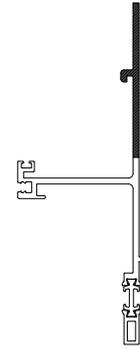
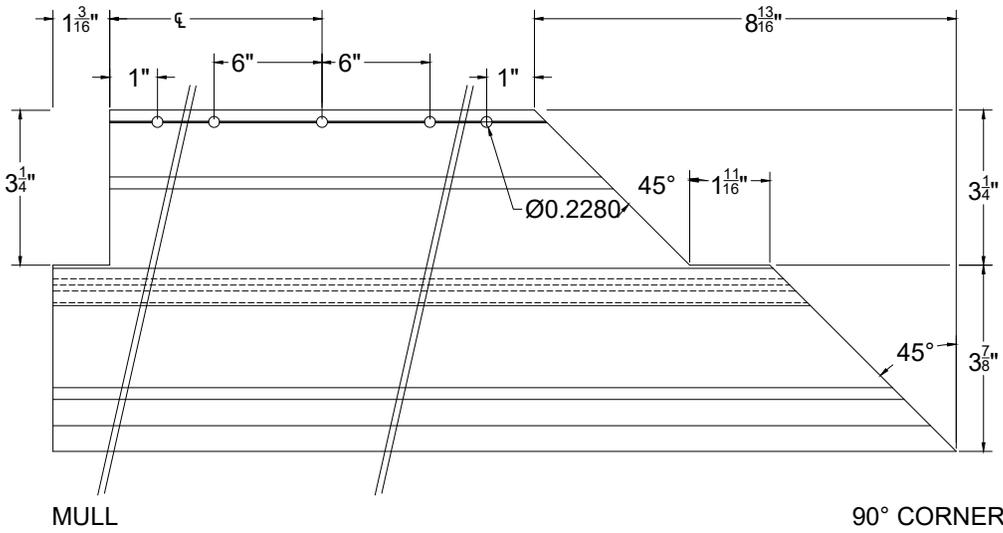
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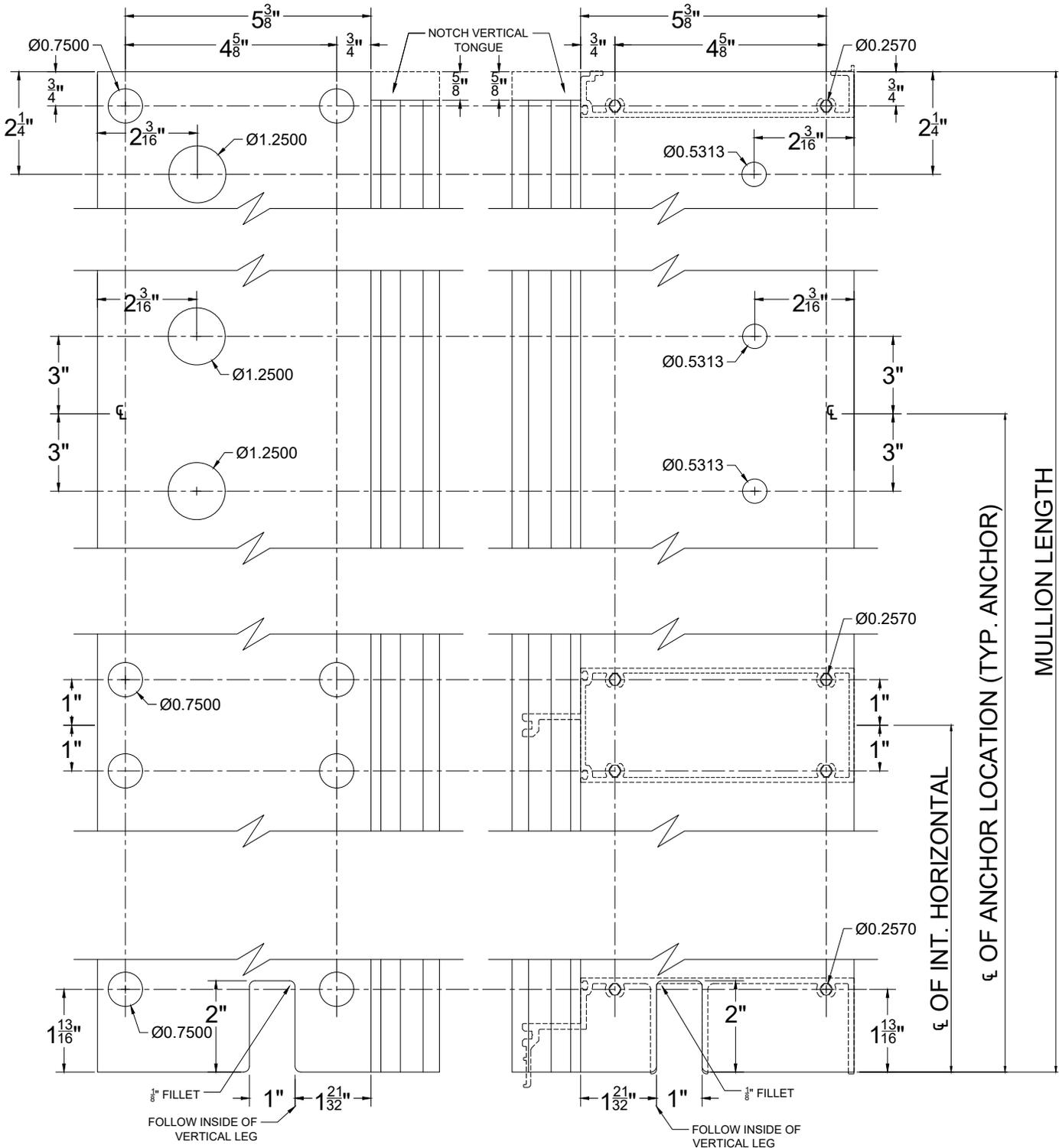
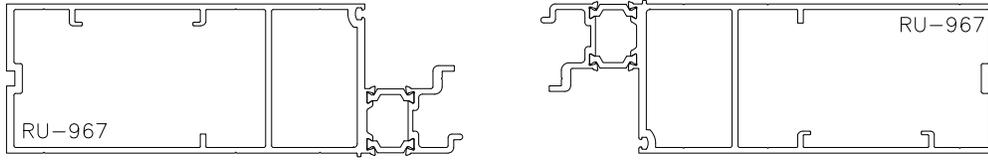


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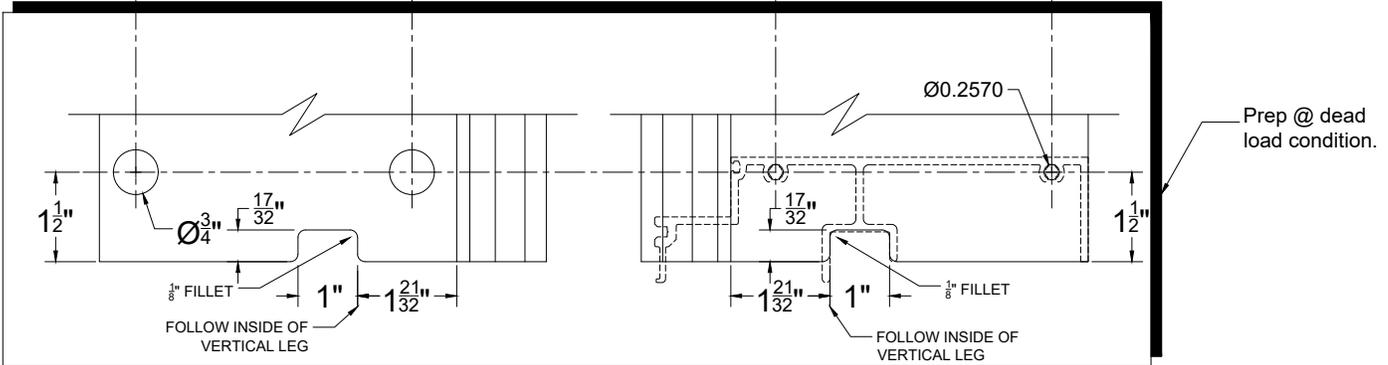
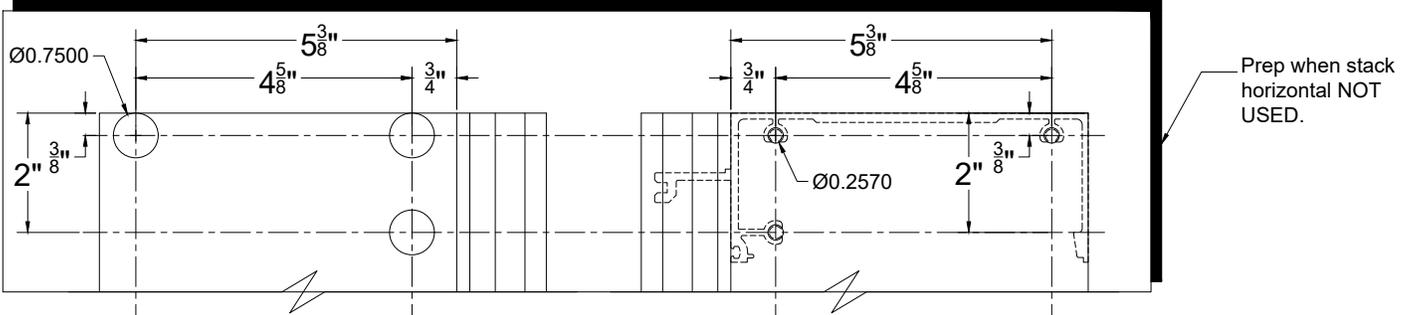
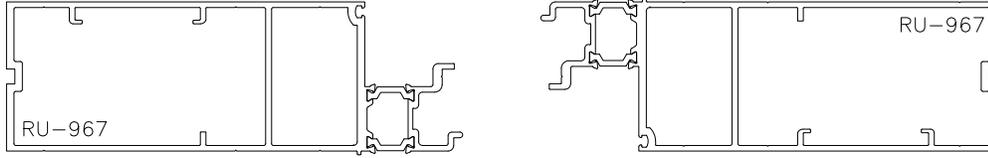


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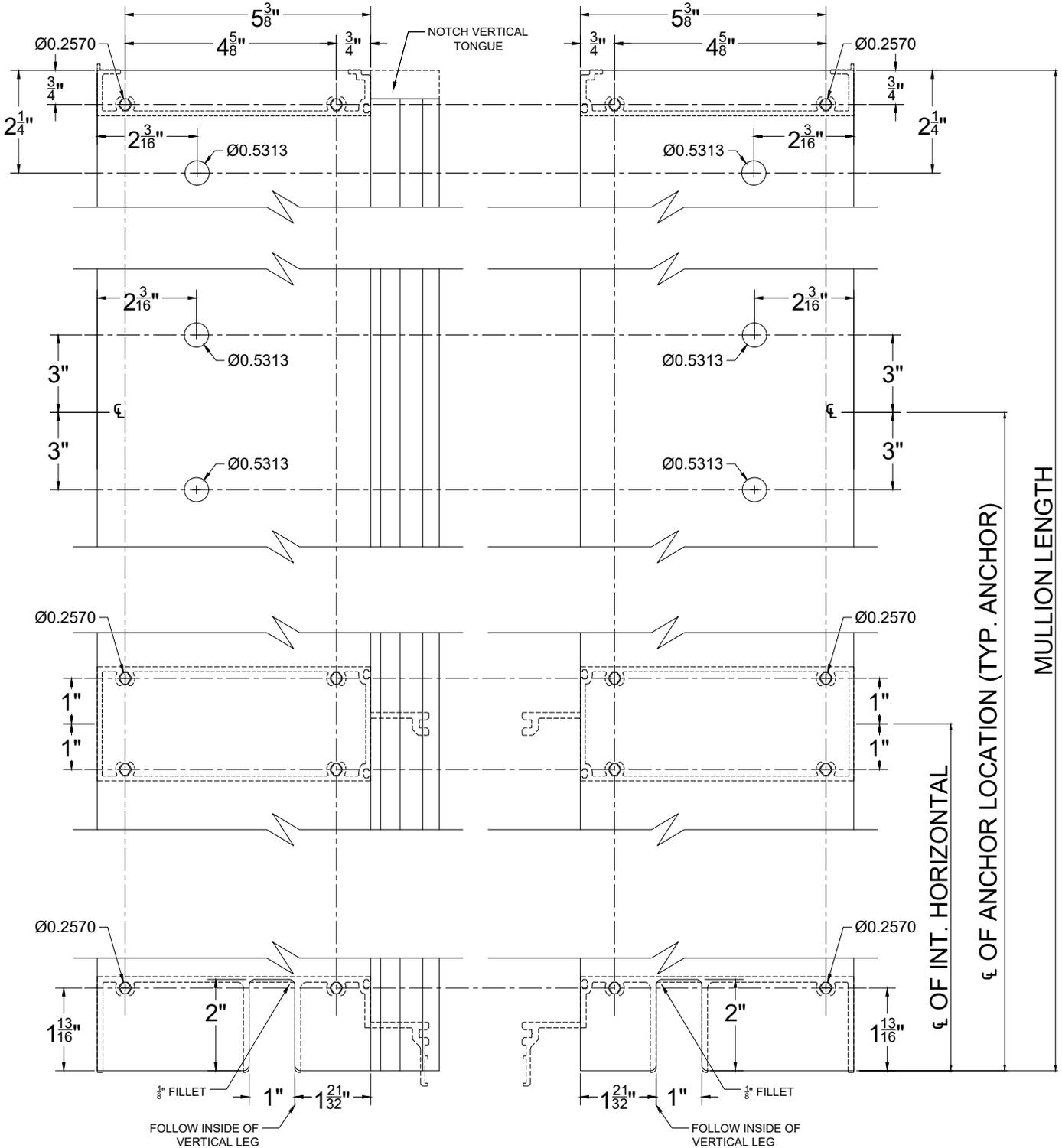
8" VERTICAL REFERENCE INFORMATION (CAPTURED JAMB)

RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS



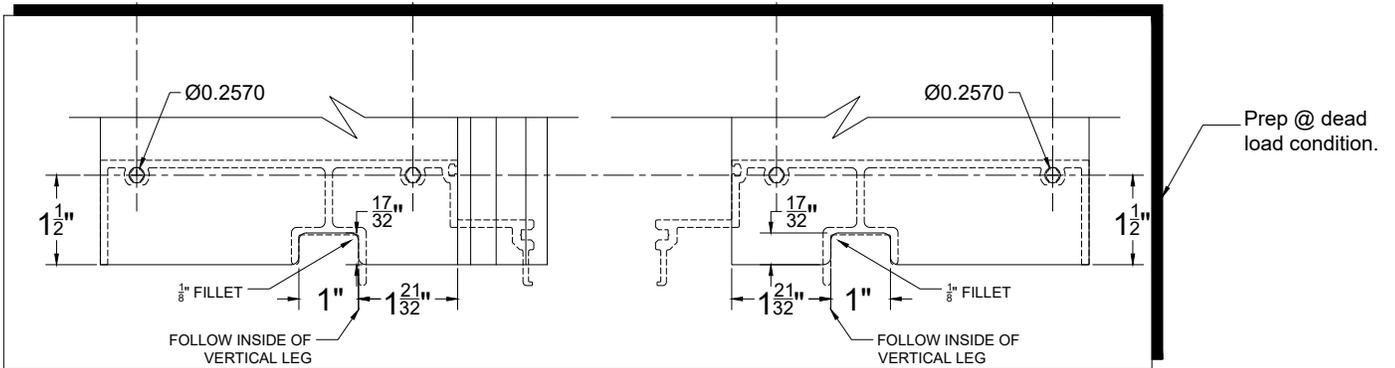
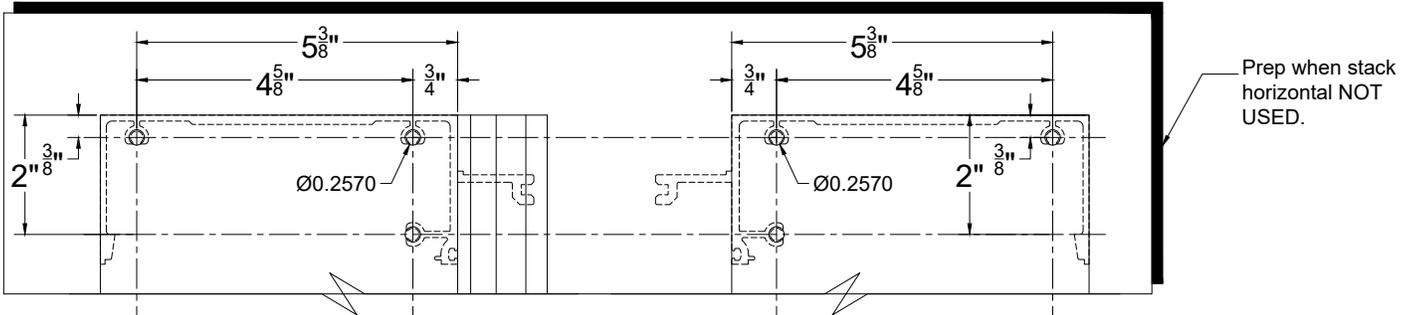
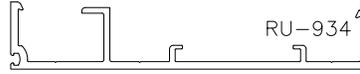
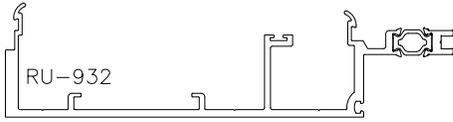
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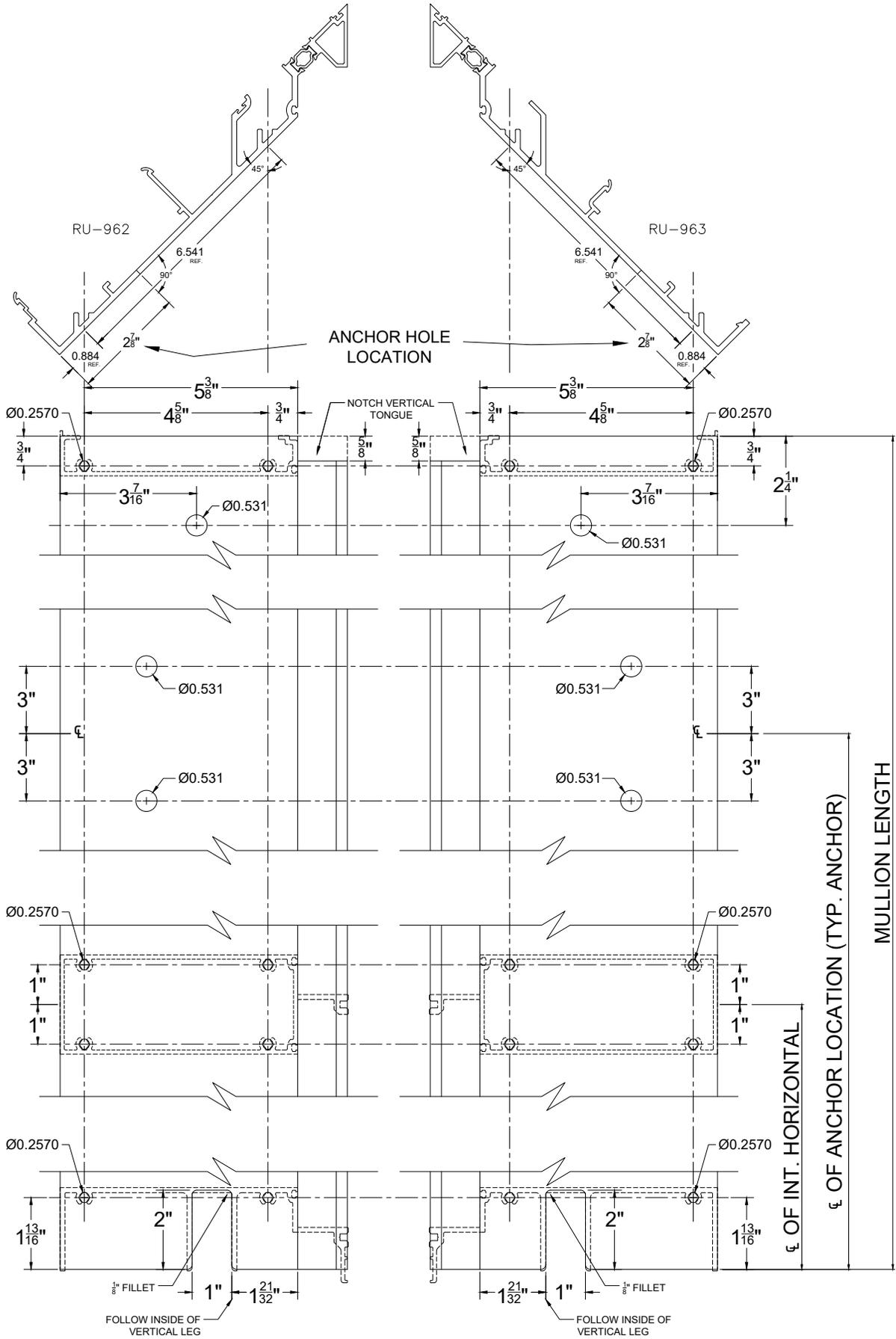
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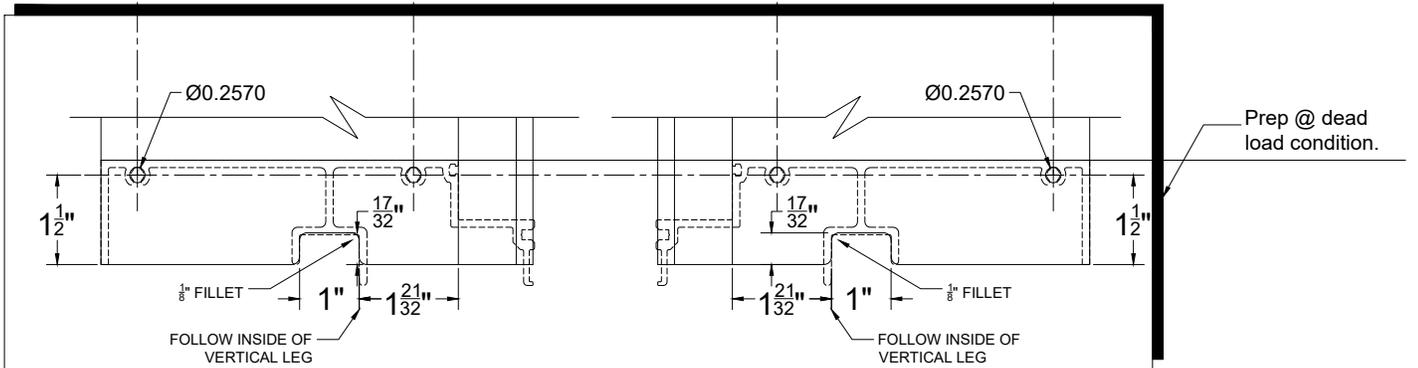
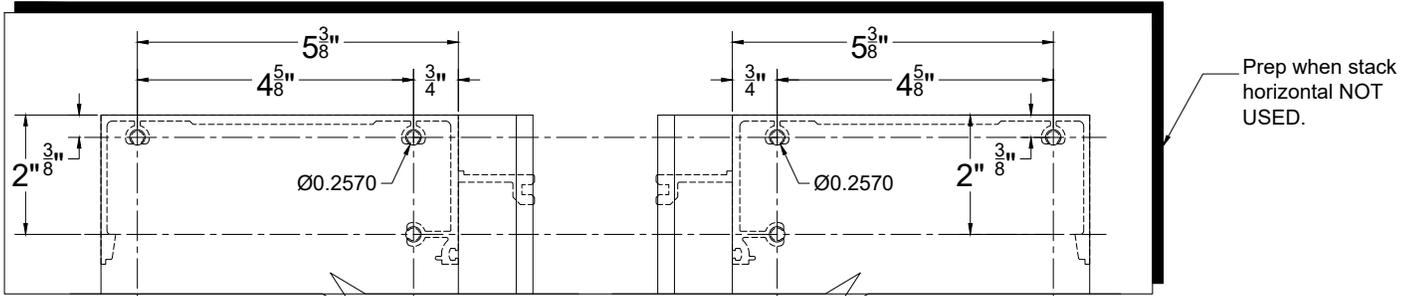
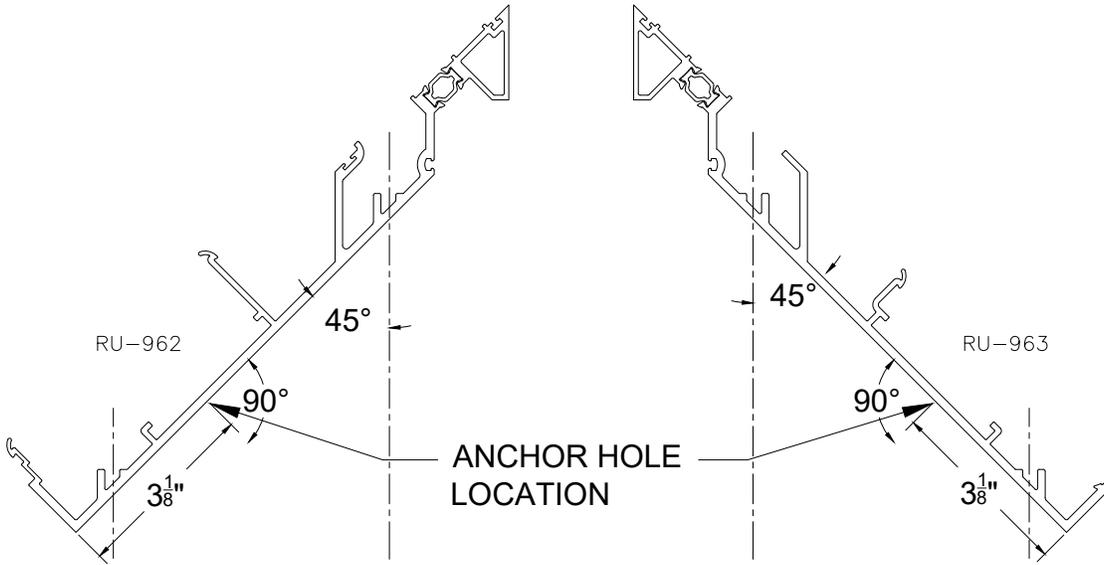
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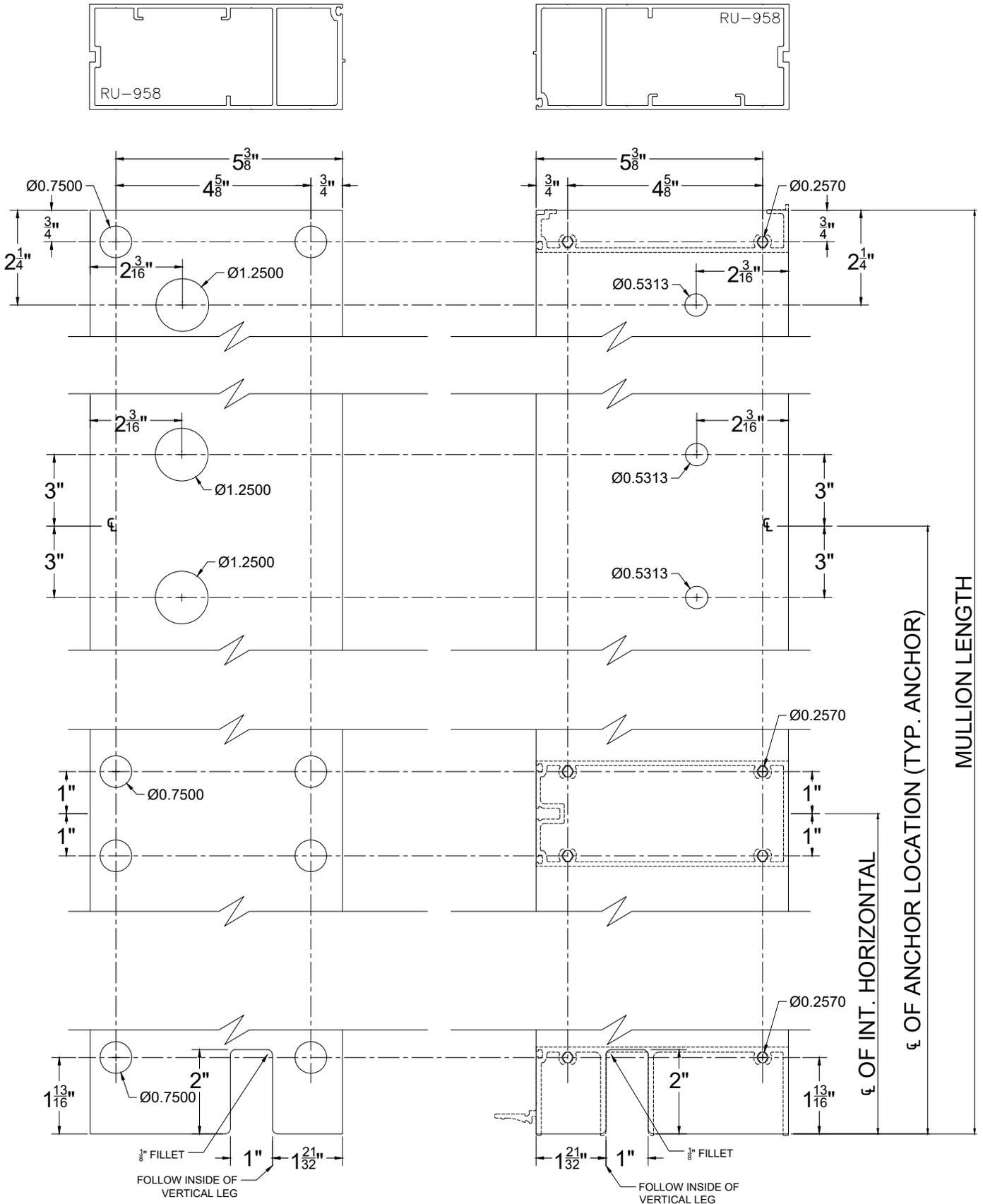
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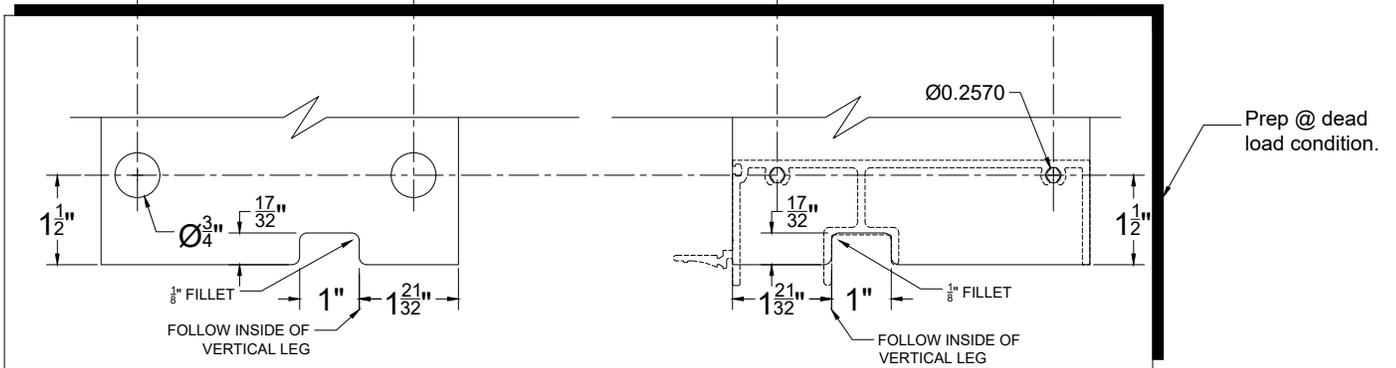
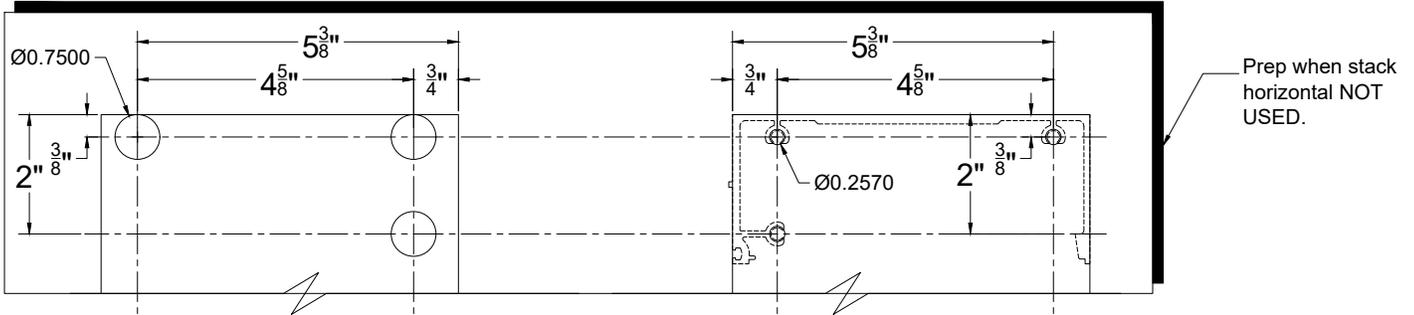
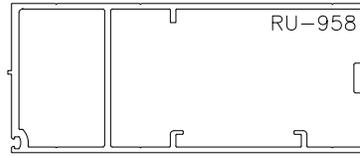
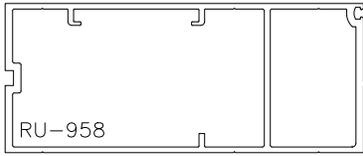


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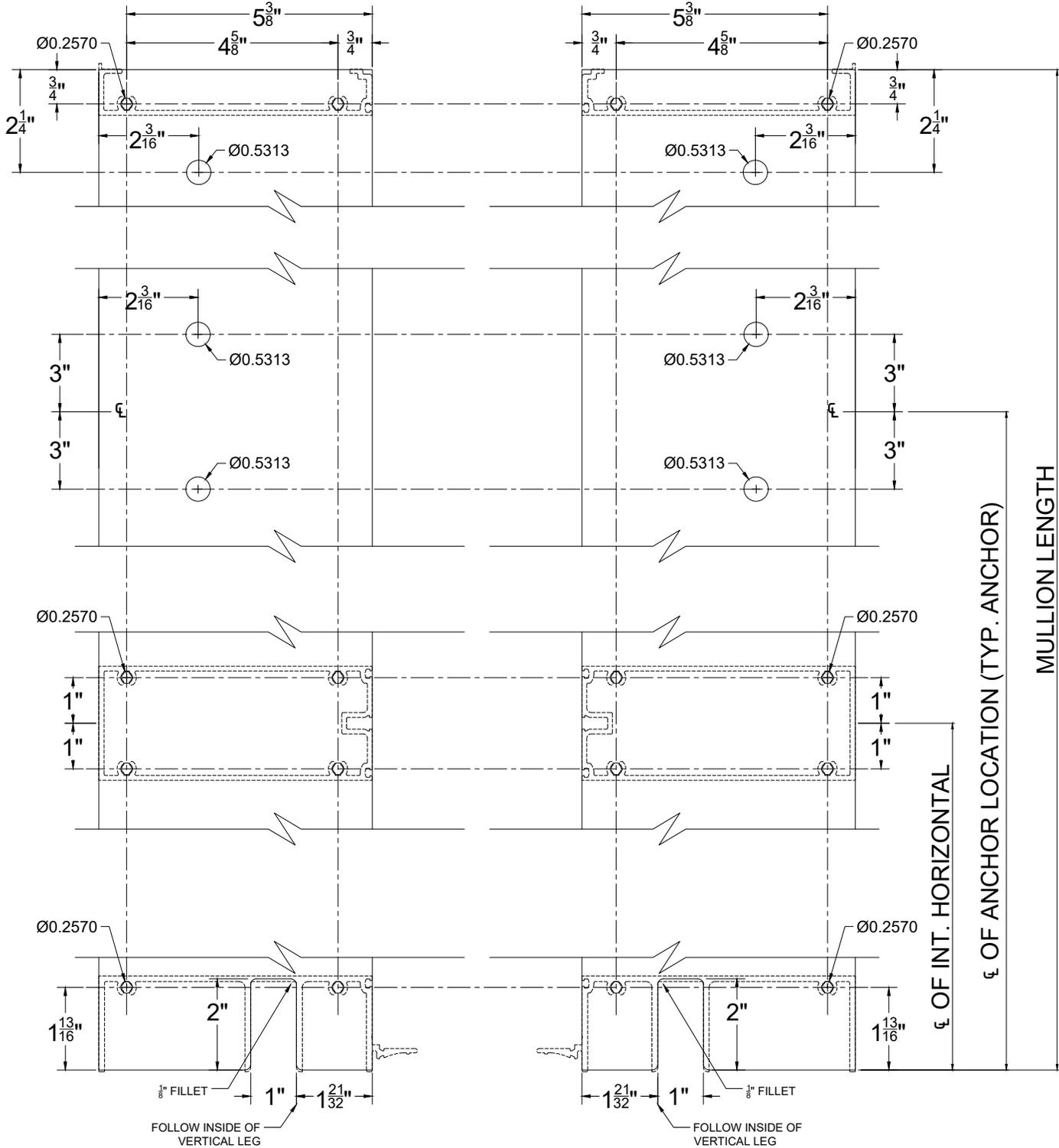
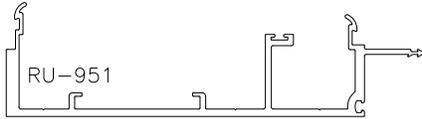
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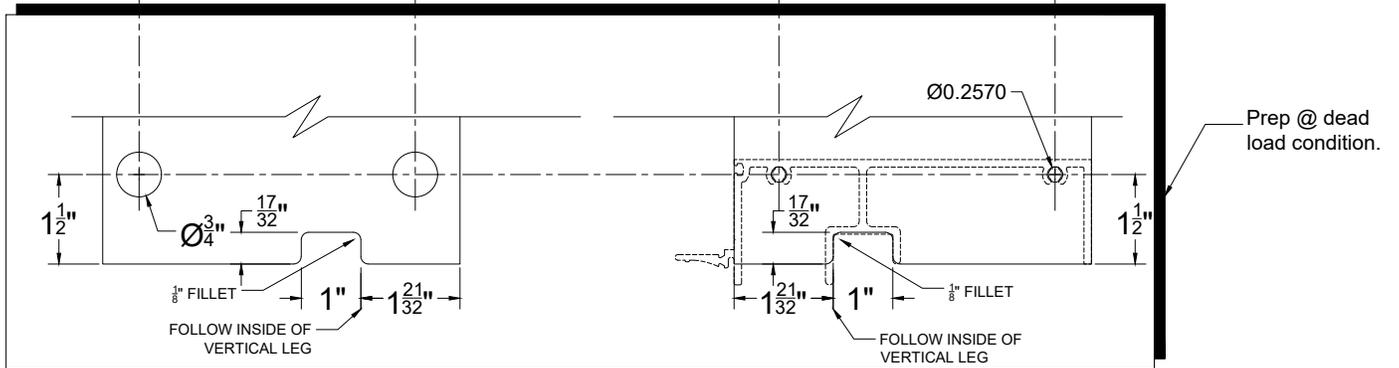
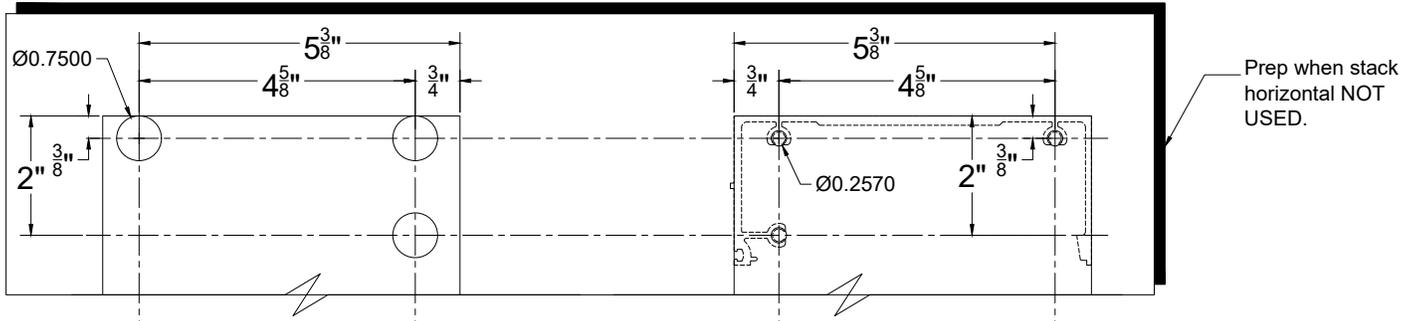
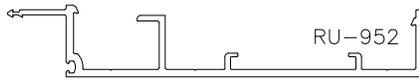
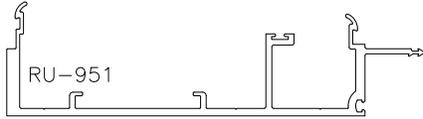
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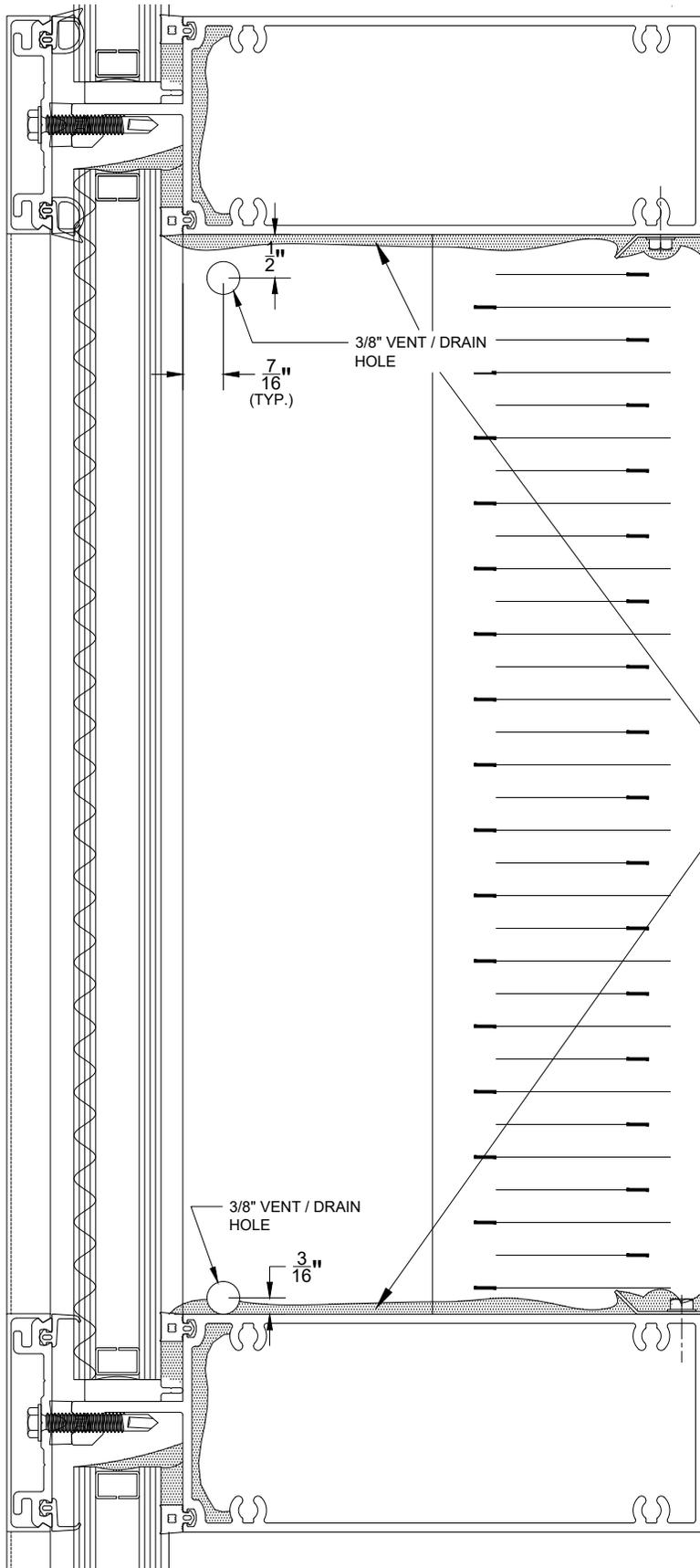
8" VERTICAL REFERENCE INFORMATION (NON CAPTURED INTERMEDIATE MULLS)

December 2025

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NOTE: Vent holes are designed for use with metal back pans which are hermetically sealed to glazing cavity openings on the back face. If the cavity is left open, or if FSK tape is used to seal the insulation to the framing, consideration must be given to the effect of vent holes at elevated structural loads during testing.

NOTE: Completely seal, water tight, all metal to metal joints within the spandrel cavity.

RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS

1. LAYOUT PARTS

Typically units are to be assembled with Female Mullion Half on the left of the unit and with the Male Mullion Half on the right of the unit (viewed from exterior of the unit). Please refer to shop drawings for proper mullion half required at left and right jamb units.

Check that all preps have been applied and located in the proper position per approved shop drawings.

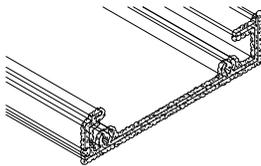
2. APPLY SILICONE SEALANT

Clean and butter top of the vertical mullions and both ends of horizontals with silicone sealant per approved shop drawings.

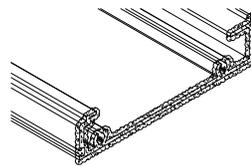
NOTE: ALL ASSEMBLY WORK MUST BE COMPLETED IMMEDIATELY AFTER SEALANT APPLICATION BEFORE SEALANT SKINS.

Butter both ends of the head horizontal from the front leg continuously around the perimeter including screw chase. (SEE BELOW)

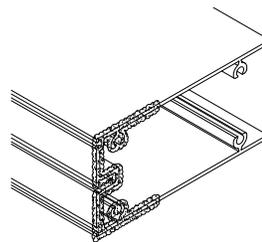
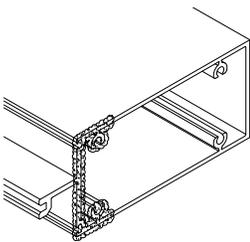
CAPTURED



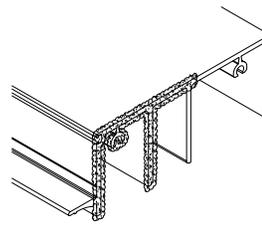
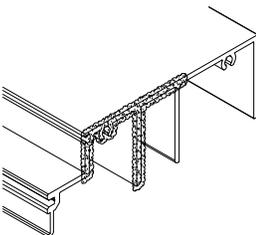
NON CAPTURED



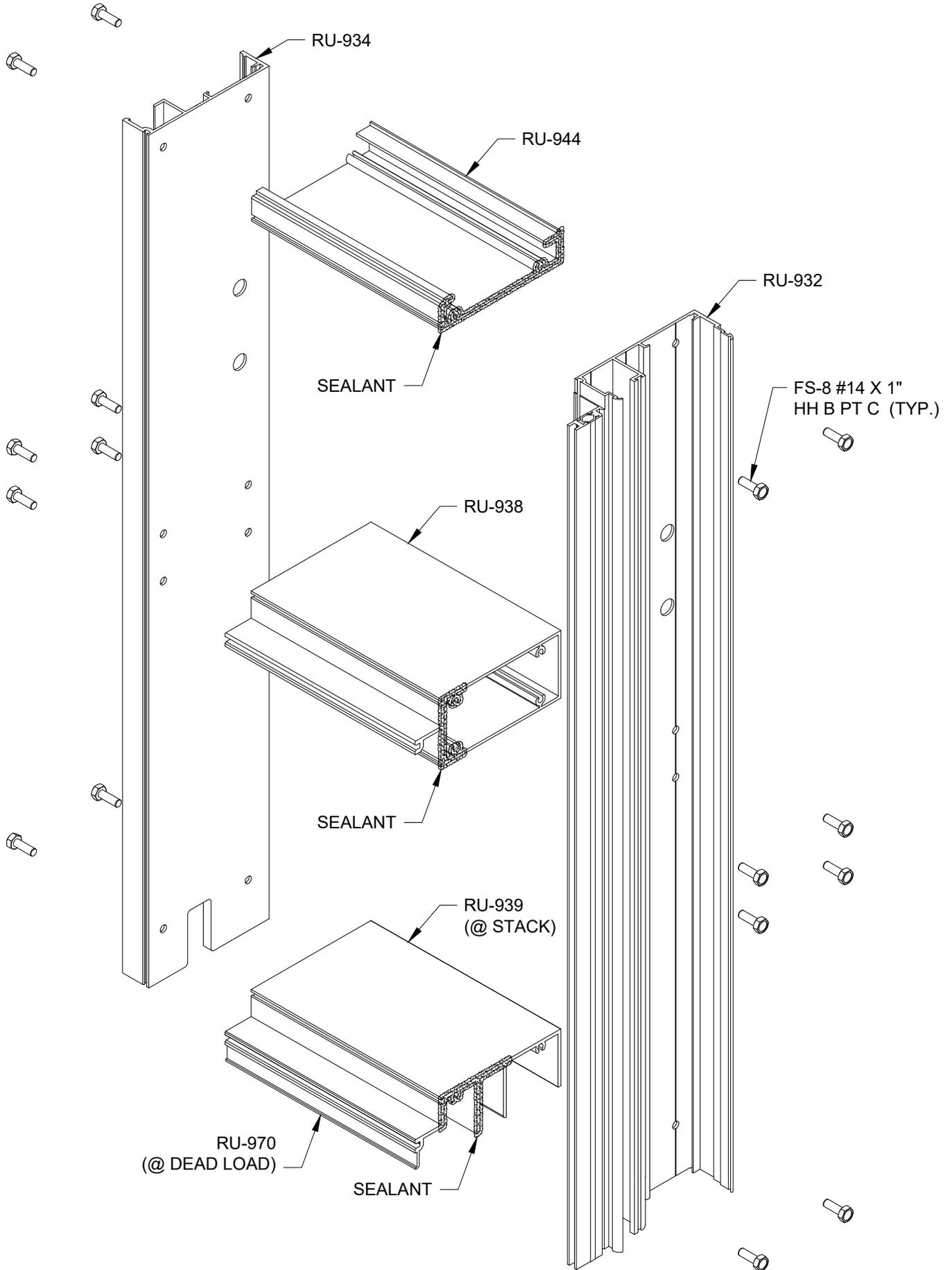
Butter both ends of the intermediate transom from the lower screw chase inboards to the upper screw chase. (NOTE: Spandrel & shadow box cavity areas are to be sealed full depth of horizontal.) (SEE BELOW)



Butter both ends of the transom. (NOTE: Spandrel & shadow box cavity areas are to be sealed full depth of horizontal.) (SEE BELOW)

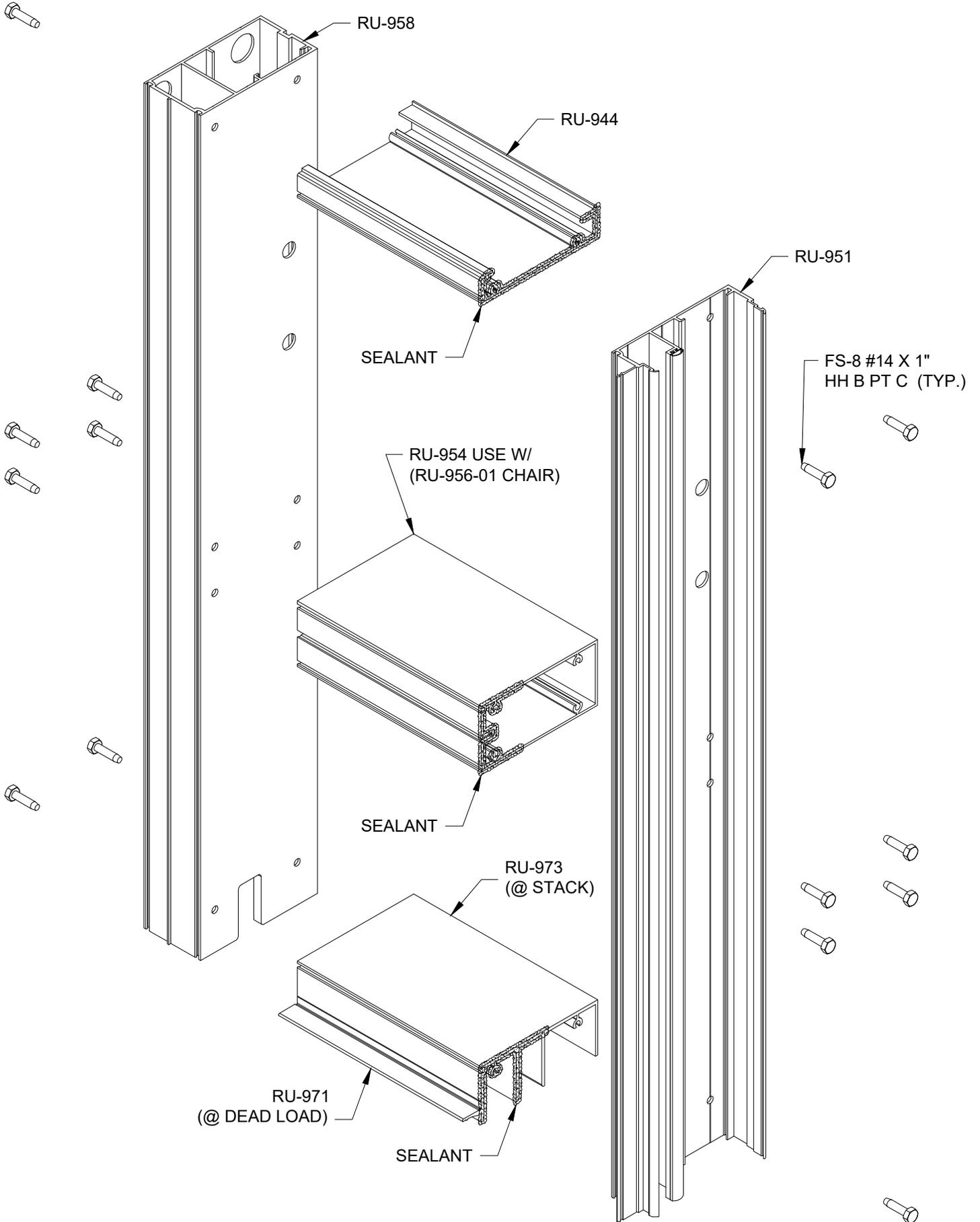


RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS



FRAME ASSEMBLY INSTRUCTIONS (CAPTURED)

RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS



FRAME ASSEMBLY INSTRUCTIONS (NON CAPTURED)

RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS

RUW-MA04 is attached using
 FS-74 1/2"-13 X 2"
 (2)FSW-73 FLAT WASHER
 FSW-71 LOCK WASHER
 FSN-69 NUT
 (1) PER LIFTING LUG

RUW-MA01 is attached using
 FS-289 .375 X 1 1/4"
 (2) FSW-80 FLAT WASHERS
 FSW-83 LOCK WASHER
 FSN-81 NUT
 (2) PER ANCHOR

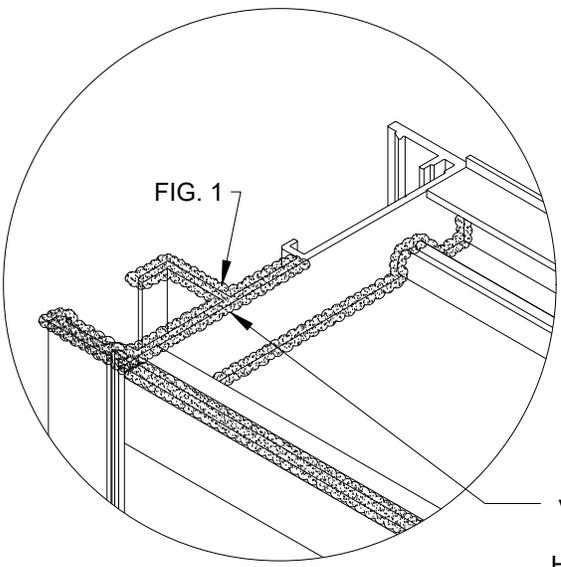
RUW-MA04

FS-327

FIG. 1

FIG. 2

RUW-768-FP-01



Prep and butter tops of
 verticals with sealant prior to
 attachment of RU-940
 Horizontal. (Tool sealant after
 RU-940 is installed)

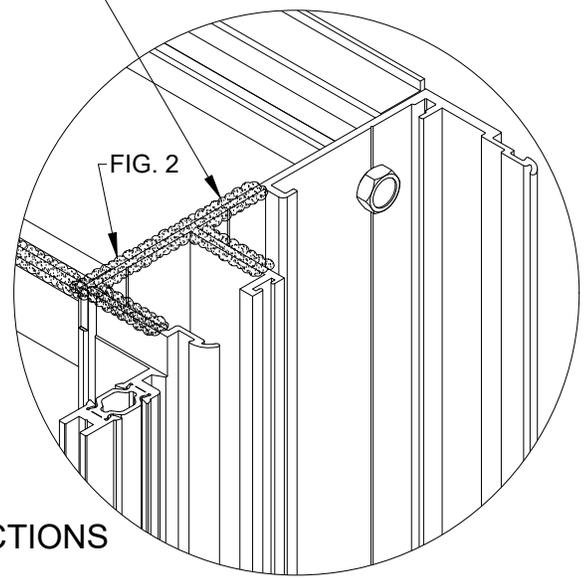


FIG. 2

RUN SEALANT
 FULL LENGTH
 RU-940
 HORIZONTAL
 STACK

RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS

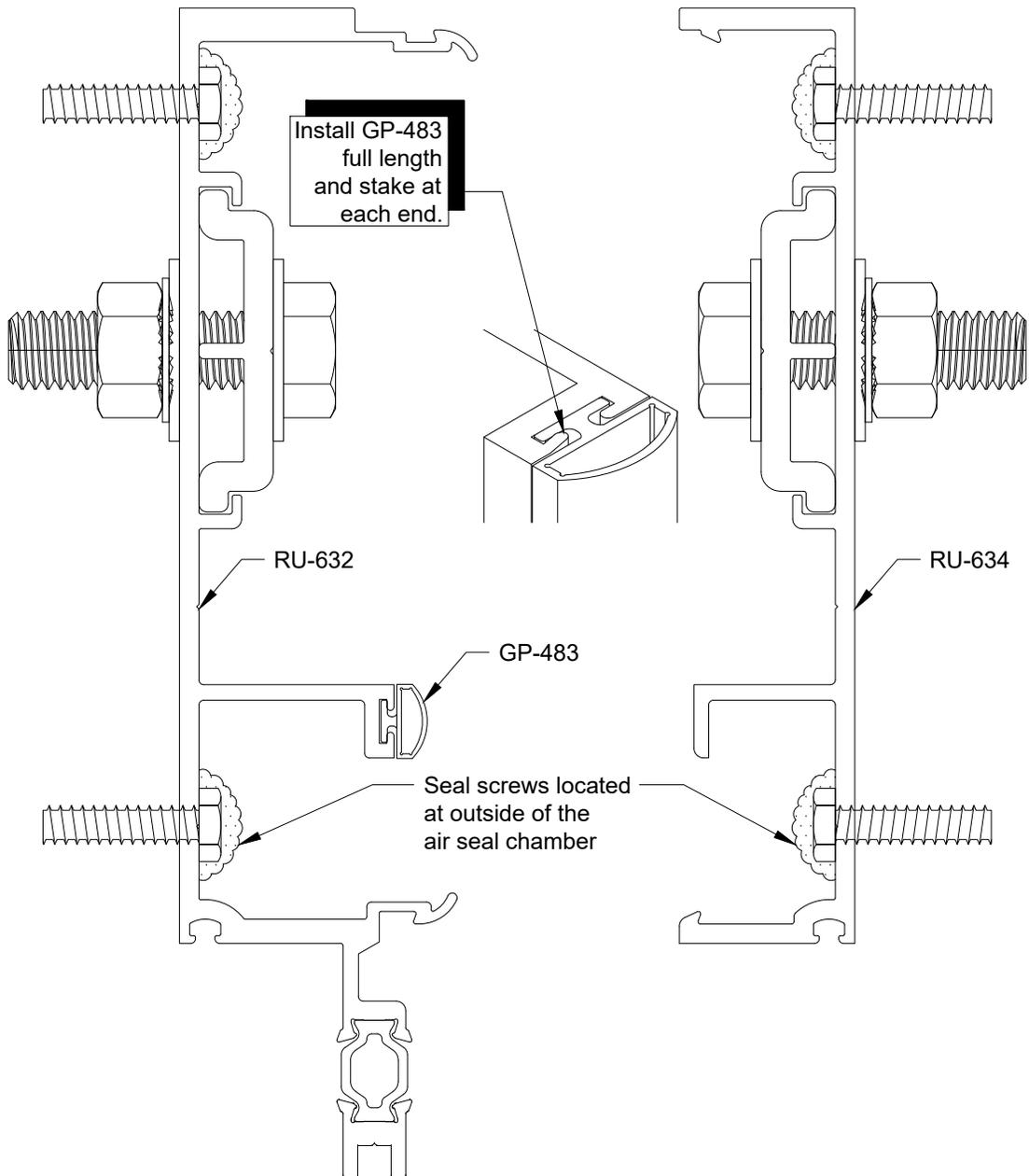
ASSEMBLING FRAME

Position horizontal members aligning with splines with screw holes and assemble with FS-8 #14 x 1" long hex washer head Type B pt assembly screws.

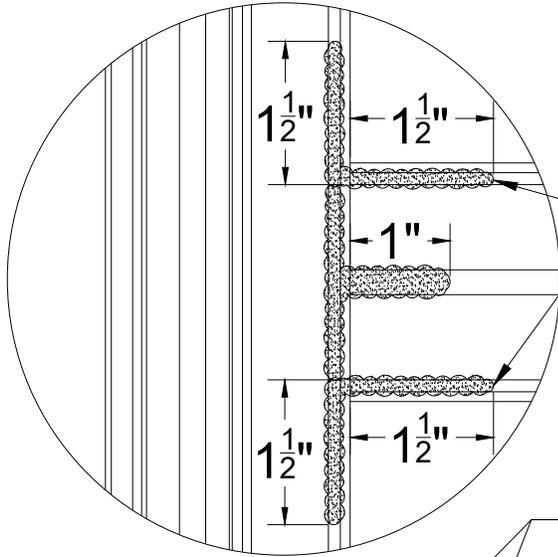
When applying opposite side of mullion half, do not tighten screws until all horizontals have been applied to keep from wiping off the sealant with mullion during installation.

A RING OF SEALANT SHOULD APPEAR AROUND EVERY SCREW HEAD LOCATED IN WET AREAS. (SEE FIGURE BELOW)

THOROUGHLY SEAL OVER SCREW HEADS WHICH ARE LOCATED OUTSIDE OF THE AIR SEAL CHAMBER.



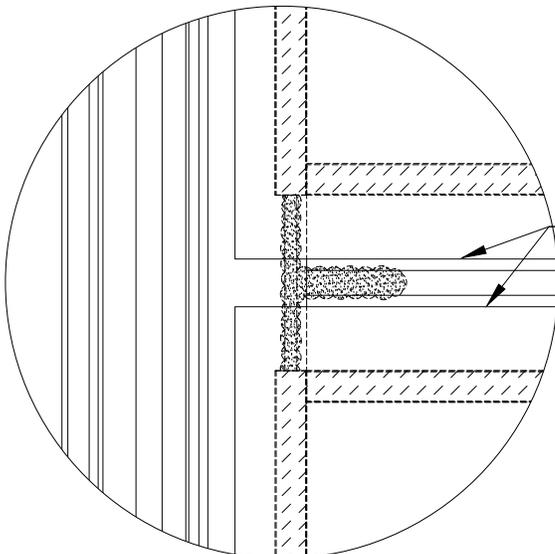
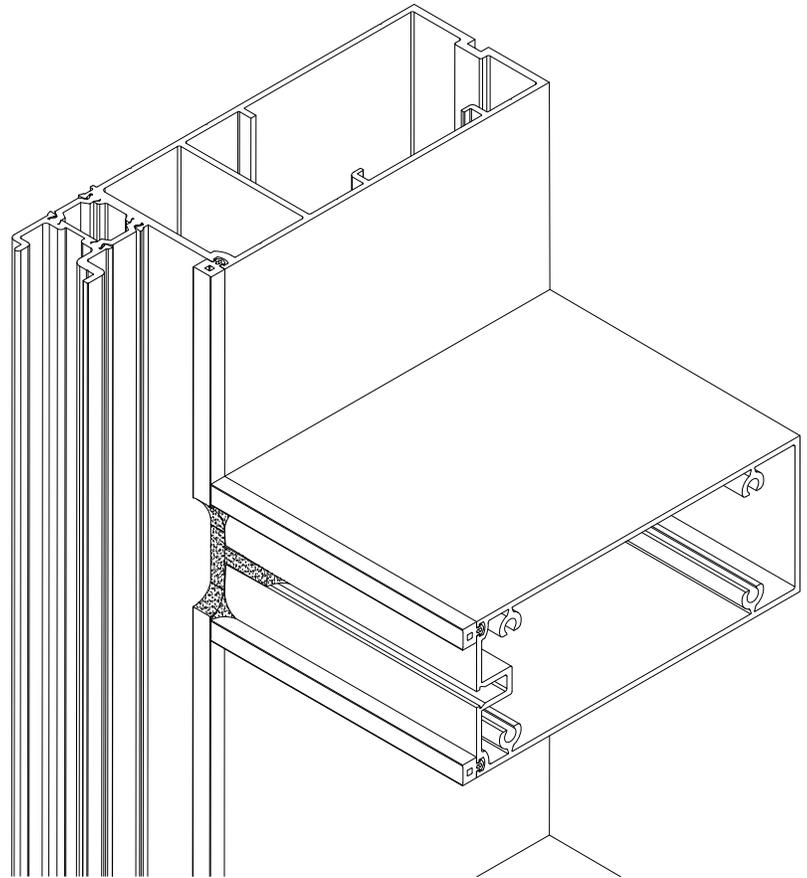
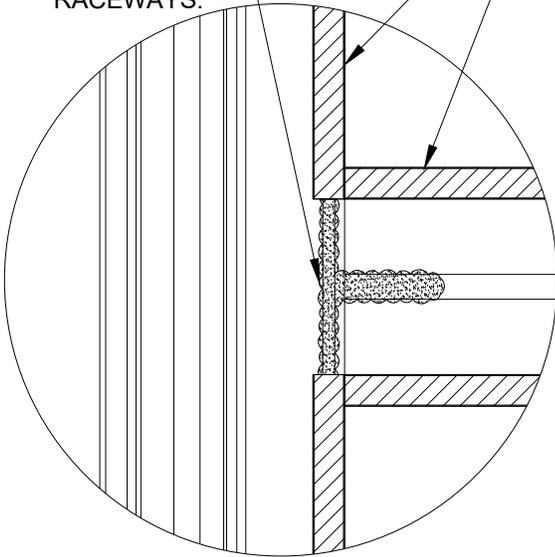
RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS



SILICONE SEALANT IS A 3" CORNER WRAP APPLIED JUST PRIOR TO INSTALLATION OF GASKETS. ENSURE SEALANT DOES NOT EXTEND MORE THAN 1/4" FROM SIDE OF MULLION. SEALANT SHOULD NOT INTRUDE ON STRUCTURAL SEAL.

SILICONE SEALANT MARRY TO SEALANT IN VERTICAL AND HORIZONTAL GASKET RACEWAYS.

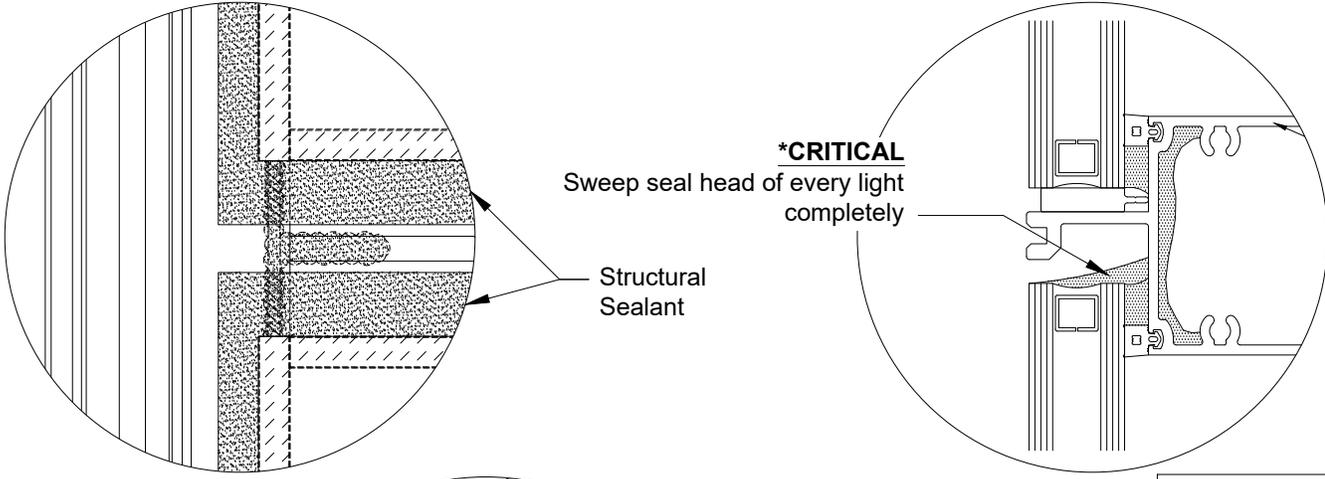
INSTALL SPACER GASKETS, AND CLEAN EXCESS SEALANT FROM GASKET EXPOSED SURFACE.



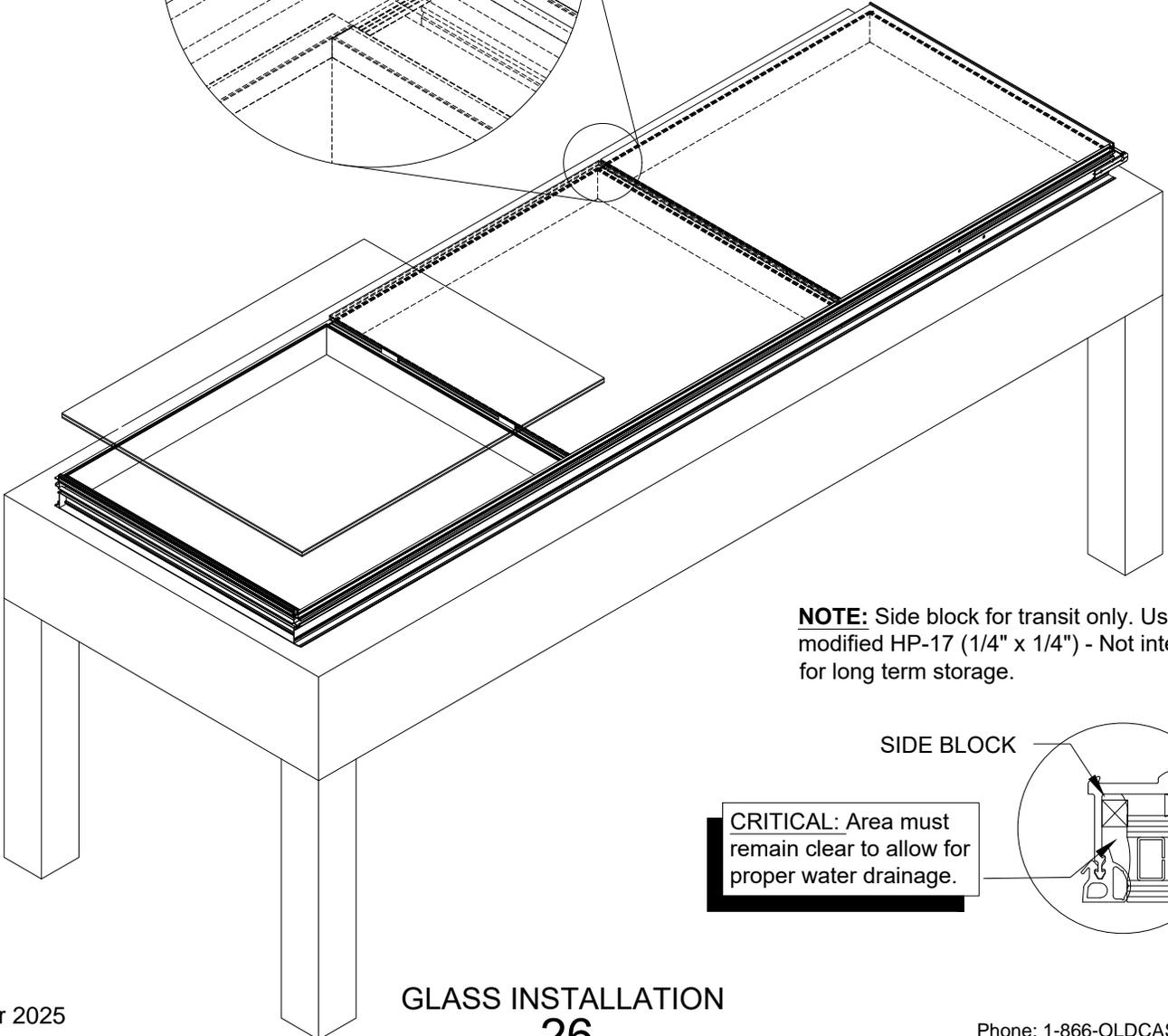
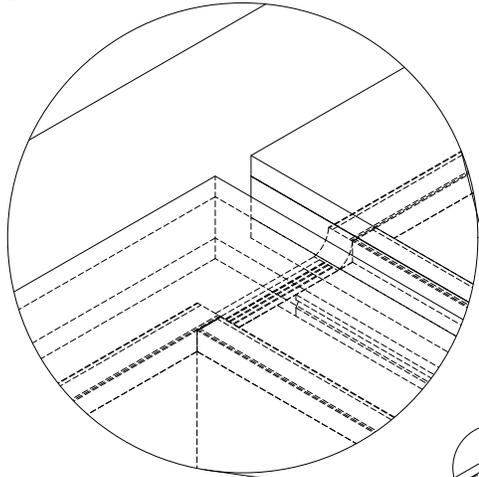
GLASS

- SHOP NOTE:** Silicone sealant must be applied into vertical gasket raceways, adjacent to horizontals.
- NOTE:** Sealant must be applied before gasket is installed and tooled fully into raceway to fill designated raceway area completely.
- NOTE:** Ensure filler sealant bead is constrained to raceway area only. Do not "Trowel" on a wide band of sealant.
- NOTE:** Ensure surface preparation (cleaning, priming, etc.) per sealant manufacturer is followed without fail.

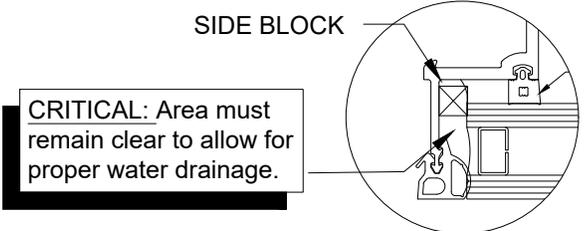
RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS



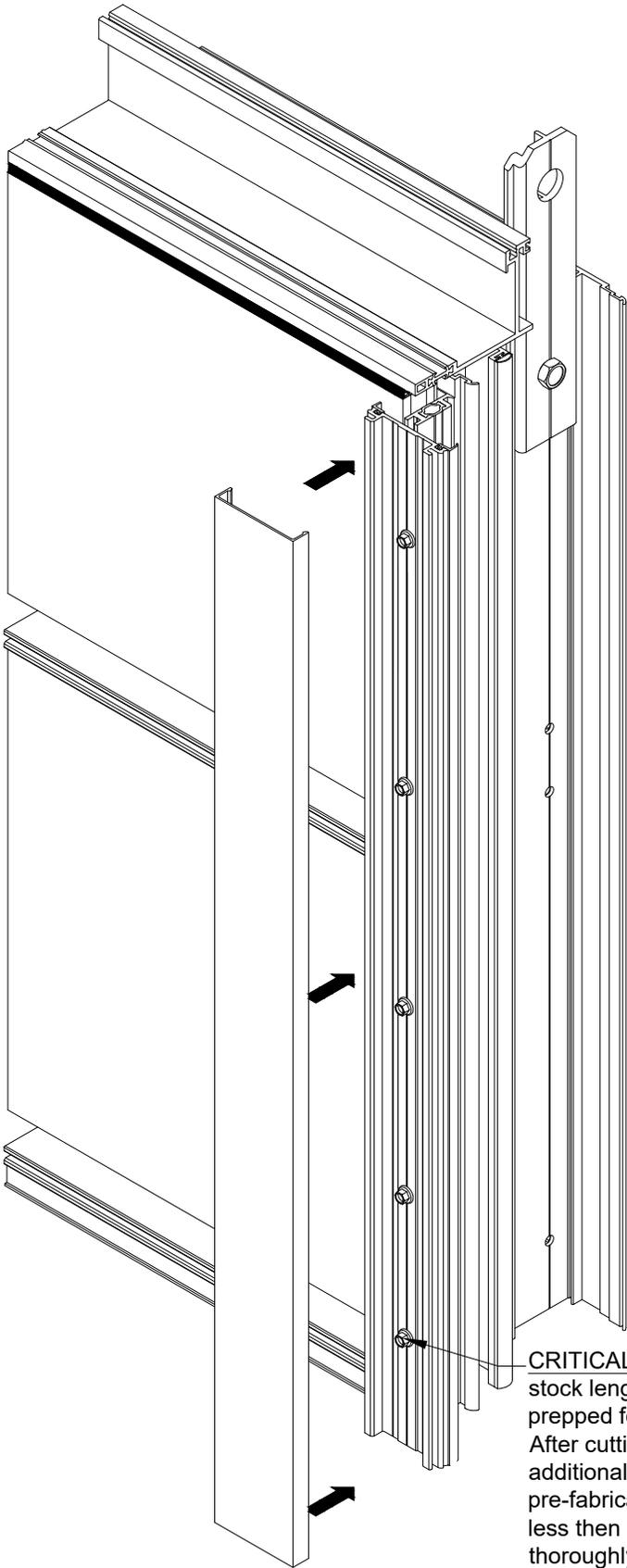
ENSURE FRAME IS SQUARE PRIOR TO SETTING GLASS.



NOTE: Side block for transit only. Use modified HP-17 (1/4" x 1/4") - Not intended for long term storage.

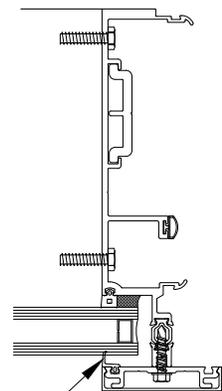
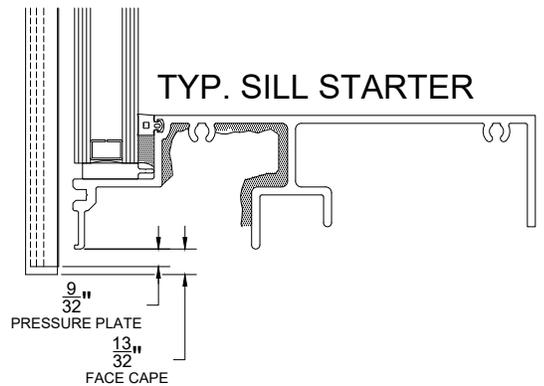
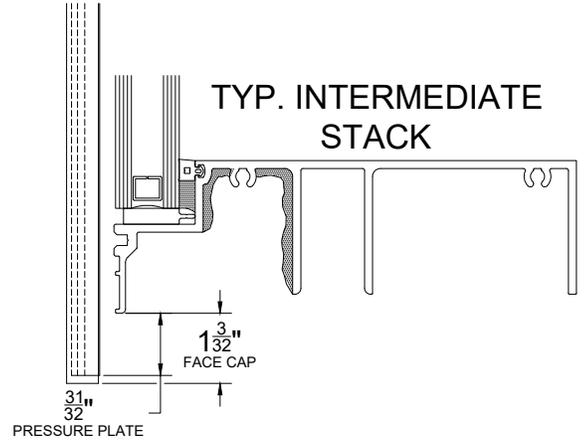


RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS



CRITICAL: Pressure plate stock lengths will come pre-prepped for fasteners at 9" O.C. After cutting to length, drill additional holes 4" from ends. If pre-fabricated holes/slots exist less than 4" from end, seal over thoroughly. Attach w/ FS-322 and torque to 35 in-lbs.
NOTE: Different fastener used to secure horizontal pressure plate.

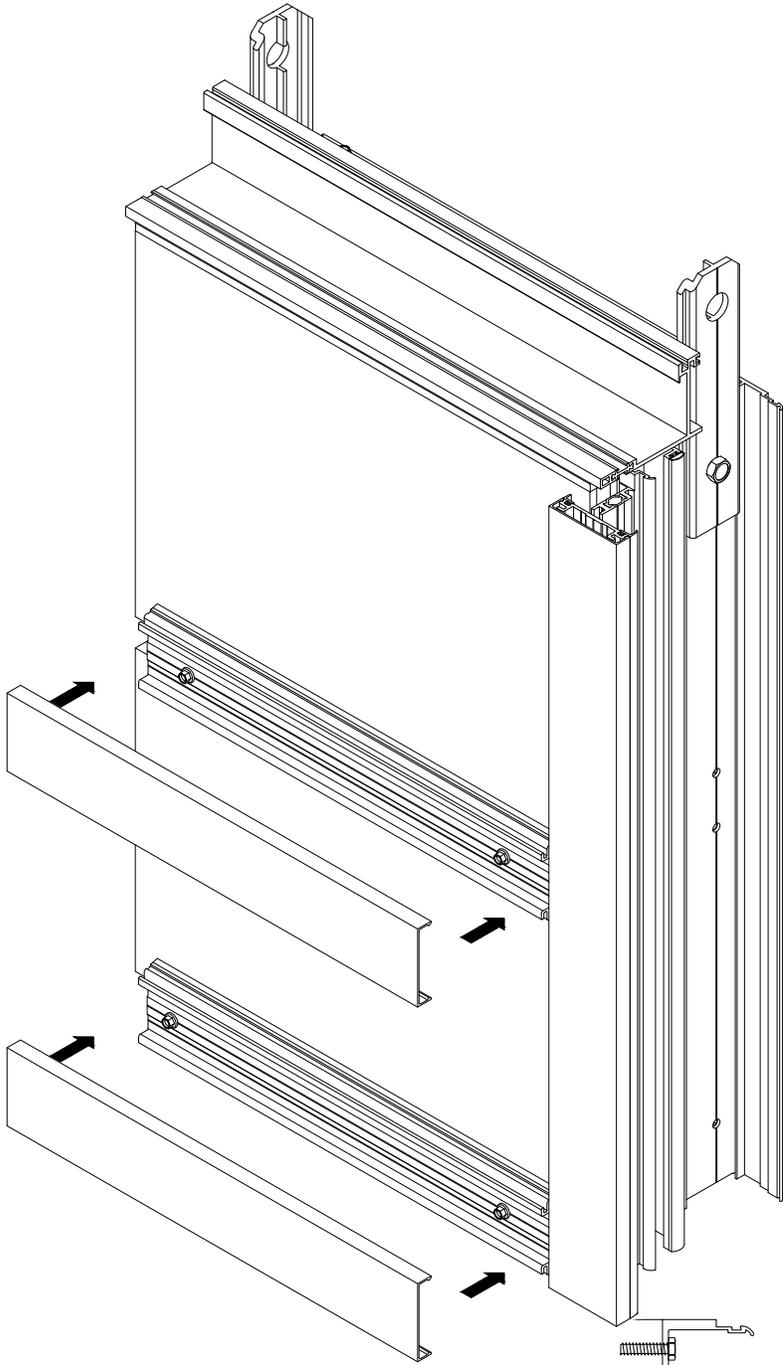
VERTICAL FACE CAP & PRESSURE PLATE LOCATING DIMENSIONS



GP-50028 SWEEP GASKET (2) @ MULLION

PRESSURE PLATE INSTALLATION

RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS

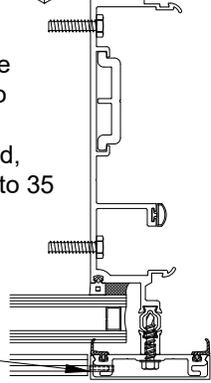


CRITICAL: Pressure plate stock lengths will come pre-prepped for fasteners at 9" O.C. After cutting to length, drill additional holes 4" from ends. If pre-fabricated holes/slots exist less than 4" from end, seal over thoroughly. Attach w/ FS-322 and torque to 35 in-lbs.

NOTE: Different fastener used to secure vertical pressure plate.

(FS-317 Pin) (1) required at vertical cap only. Location of pin to be concealed behind horizontal cap.)

See Figure **



VERTICAL

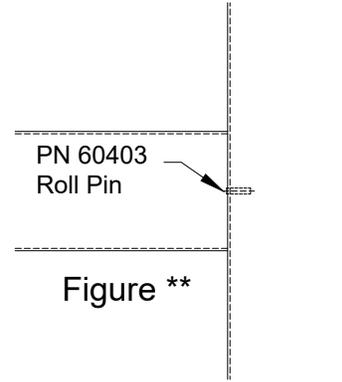
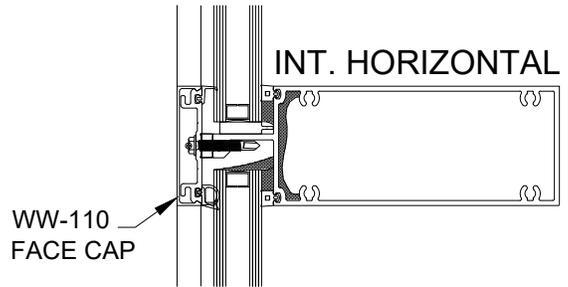
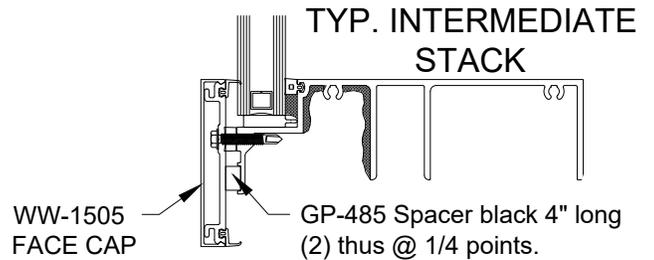


Figure **

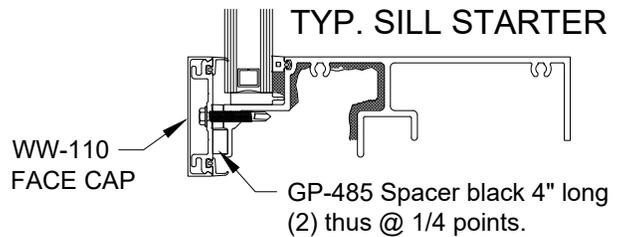


WW-110
FACE CAP



WW-1505
FACE CAP

GP-485 Spacer black 4" long
(2) thus @ 1/4 points.

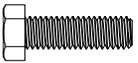
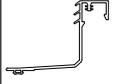
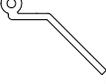


WW-110
FACE CAP

GP-485 Spacer black 4" long
(2) thus @ 1/4 points.

HORIZONTAL FACE CAP INSTALLATION

RELIANCE UNIT WALL SSG - ASSEMBLY AND SEALING INSTRUCTIONS

ACCESSORIES					
	FS-289	Hex Head Bolt 3/8" X 1 1/4"		GP-492	Formed Silicone Boot for Sealing of 90° O.S. Corner
	FSW-80	Flat Washer For 3/8" Bolt		GP-483	Santoprene Weather Gasket
	FSN-81	Nut For 3/8" Bolt		GP-142	EPDM Isolator
	FS-74	Hex Head Bolt 1/2"-13 X 2"		GP-50008	EPDM / Silicone Gasket
	FSW-73	Flat Washer For 1/2" Bolt		GP-486	EPDM / Silicone Gasket
	FSW-71	Lock Washer For 1/2" Bolt		GP-498	Silicone Spacer Gasket
	FSN-69	Nut For 1/2"-13 Bolt		GP-50028	EPDM / Silicone Weatherseal Gasket
	FS-8	Typical Assembly Fastener		GP-185	Air Seal Gasket @ Stack
	FS-322	Vertical Pressure Plate, Pocket Filler / Chicken Head 1" Fastener		GP-186	Air Seal Gasket @ Sill
	FS-325	Horizontal Pressure Plate 1-11/32" Fastener		GP-497	1" X 1/4" Setting Block
	FS-347	Adjustment Bolt 3/8"-16x5" Square Head Cup Point Bolt		GP-485	5/16" X 1/2" Spacer Block
	FS-346	Taplock Threaded Insert 3/8"-16x11/16"		HP-17	Edge Block Modified as Needed
	FS-317	Attachment Pin		UCW-8759	Serrated Washer
	UW-465	Silicone Splice 4"		UCW-387	Anchor Lug Typical
	UW-466	Silicone Splice 2"		UCW-200	Serrated Anchor Plate Washer
				UCW-309	Anchor Plate Typical
				UCW-6006	Lifting Lug Typical
				UCW-6012	Lifting Lug 90° O.S. Corner
				RU-647	Dead Load Block
				RU-768	8" Mullion Anchor Typical
				RU-237	8" Mullion Anchor 90° O.S. Corner
				RU-242	Sill Shear Angle
				RU-645	Stack Shear Angle
				RU-241	Corner Mull Sun Shade Anchor
				RU-239	Standard Mull Sun Shade Anchor