



Oldcastle BuildingEnvelope®

FG-3000 STOREFRONT INSTALLATION AND GLAZING MANUAL

NOTE

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

FOLLOW SEALANT MANUFACTURERS' RECOMMENDATIONS FOR USE AND APPLICATION OF ALL STRUCTURAL SILICONE SEALANT AND WEATHER SEAL SILICONE SEALANT.

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

FG-3000 INSTALLATION MANUAL

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GENERAL INFORMATION

The Oldcastle BuildingEnvelope® (2 x 4 1/2) system represents the latest in product development technology complemented by dealer on-the-job input and experience. Proper use of these systems will assure optimum results in erection and long-term performance.

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.

INSTALLER QUALIFICATION

The FG-3000 storefront 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.

GLAZING PRACTICES

The air and water performance of the framing 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:

- Glazing gaskets should be cut ¼" longer per foot, and lay flat, preferably for 24 hours.
- Gaskets should be cut as single monolithic pieces and "crowded" during their installation to avoid corner gaps caused by post-installation relaxation.
- The interior glazing gasket should be installed so as to avoid stretching, buckles, or tears.
- 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.
- Gasket corner joinery must also be crowded, and sealant applied onto the gasket contact frame surface and into gasket reglet raceway where applicable.
- 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.

GENERAL INFORMATION CONT.

- 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.
- Check the placement of the installed glass and verify there is proper edge bite into the pocket, and proper edge clearance from framing elements.

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.

MATERIAL HANDLING, PROTECTION, AND STORAGE:

Handle the material carefully. Do not drop from the truck. Stack with adequate separation so that the material will not rub together. Store material off the ground. Protect against the elements and other construction hazards by using a well-ventilated covering. Remove material from package if it is wet or is located in a damp area.

SHOP

- Cardboard wrapped or paper interleaved material must be kept dry.
- Check arriving materials for quantity and keep record of where various materials are stored.

JOB SITE

- Material 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.
- Keep record of where various materials are stored.
- Protect materials after erection. Cement, plaster, and other alkaline solutions are very harmful to the finish.

CHECK MATERIAL:

Check all material upon arrival for quality and to assure against shipping damage. Any visible damage must be noted on the freight bill at the time of receipt. If a claim is required, then the receiving party must process a claim with the freight company. Completely check construction which will receive your materials against contract documents. 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 and installation instructions 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 sealants used should be approved by the sealant manufacture, to ensure they will function for conditions shown on instructions and shop drawings. They must be compatible with all surfaces in which adhesion is required, including other sealant surfaces. Use primers where directed by manufacturer of sealants. Be sure to properly store sealants at recommended temperatures and check sealant for remainder of shelf life before using.

GENERAL INFORMATION CONT.

FIELD CONDITIONS:

- Do not install wall if there is a walkway with a downslope towards an entrance or a storefront.
- All materials to be installed plumb, level, and true. Aluminum to be placed in direct contact with the masonry or incompatible materials, should be isolated with a heavy coat of zinc-chromate or bituminous paint.
- After sealant is set and a representative amount of the wall has been glazed (250 square feet or more), run a water hose to check installation. On large jobs, hose test should be repeated during glazing operation. Test should be conducted in accordance with AAMA 501.2 specifications.
- Coordinate protection of installed materials with general contractors and other trades.

CLEANING MATERIALS:

Cement, plaster, terrazzo, alkaline and acid-based materials used to clean masonry are very harmful to finishes and should be removed with water and a mild soap immediately or permanent staining will occur. A spot test is recommended before any cleaning agent is used.

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 differences in metal temperature between the time of fabrication and time of installation. For example, a 12-foot unrestrained length of aluminum extrusion can expand or contract 3/32 of an inch over a 50° F change. Any movement potential should be accounted for at the time of the installation.

THERMAL IMPROVEMENT SUGGESTIONS:

To maintain or improve your wall installation, the following items should be considered:

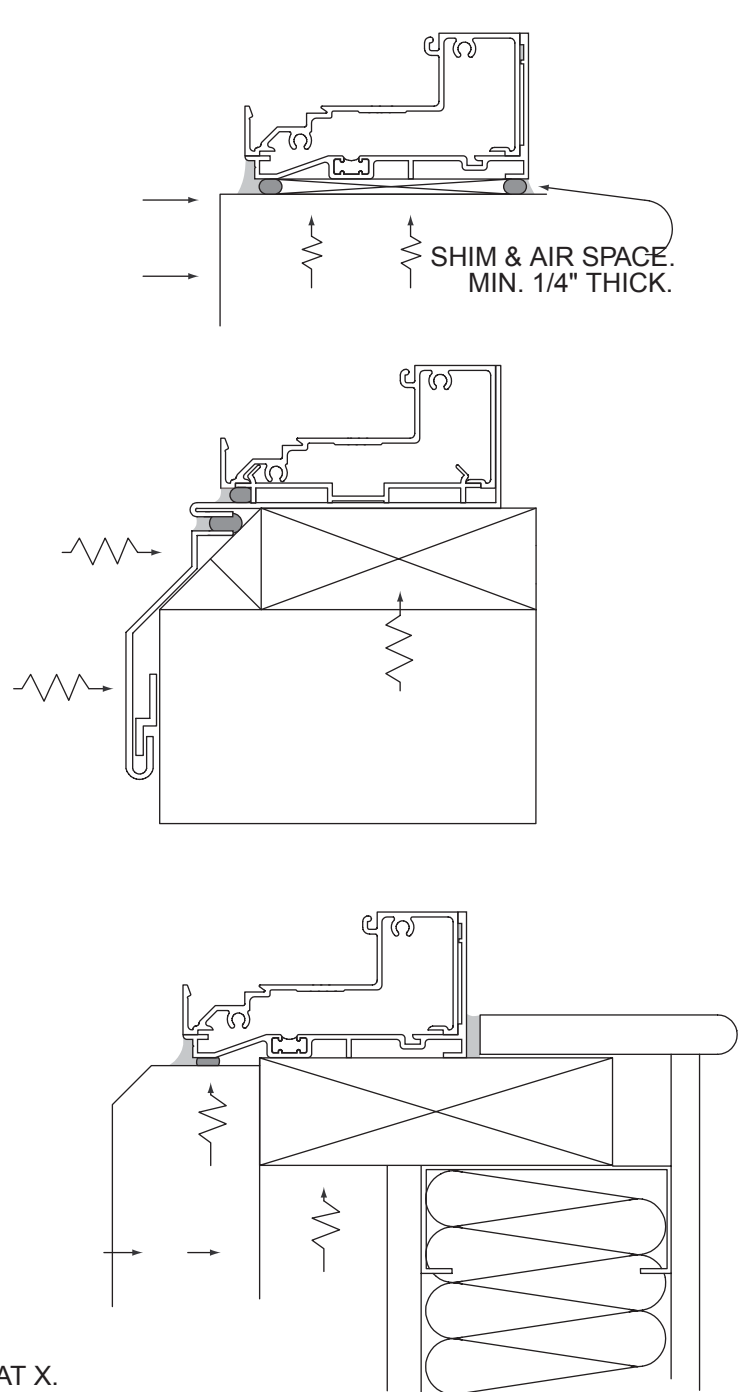
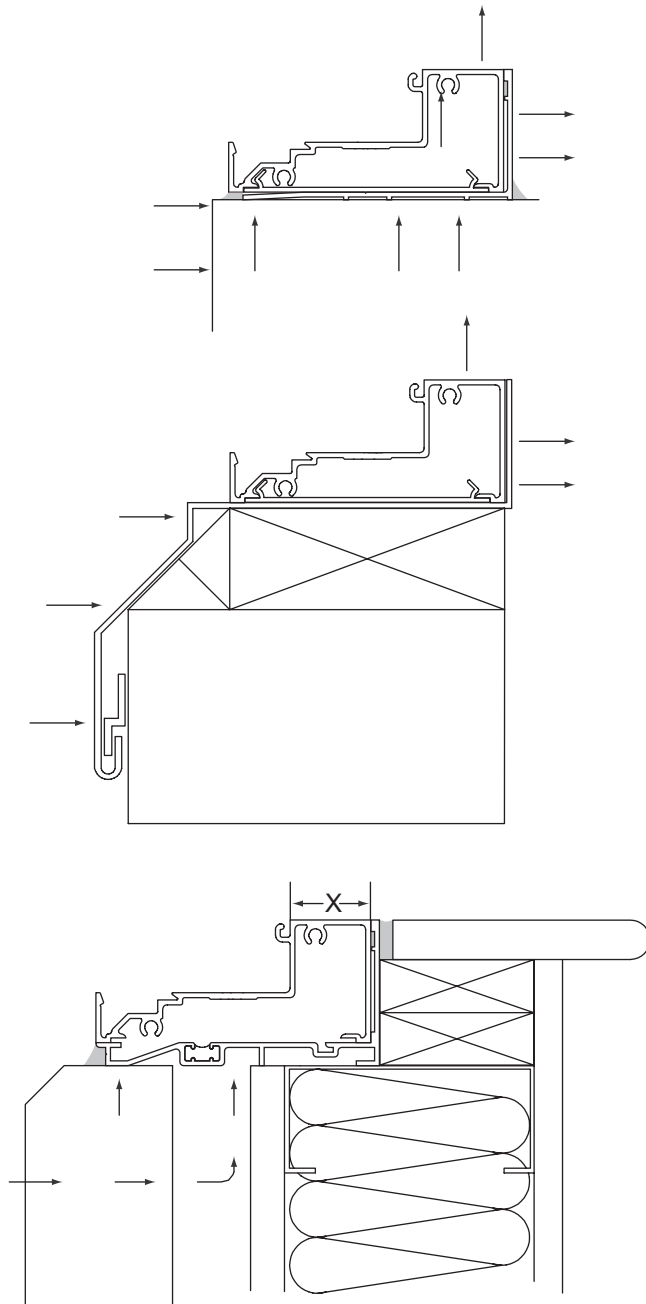
- A. Blinds or drapes prevent warm air from washing the window.
- B. Warm air ventilators too far from the window will not adequately wash the window with air to prevent condensation.
- C. In extreme conditions, the fan of the heating system should not cycle on and off but should run continuously.
- D. Some heating systems have a water injection feature that can raise humidity levels. The higher the humidity level the more likely condensation or frost will form. Raising the temperature and reducing the humidity will usually solve the problem.
- E. On rare occasions, an extremely cold storm may cause frost to appear on the glass or framing. A space heater and electric fan blowing along the plane of the window wall can reduce or eliminate this temporary condition.

GENERAL INFORMATION CONT.

TO DERIVE THE GREATEST BENEFIT FROM YOUR STOREFRONT INSTALLATION, WE RECOMMEND YOU REVIEW THE FOLLOWING.

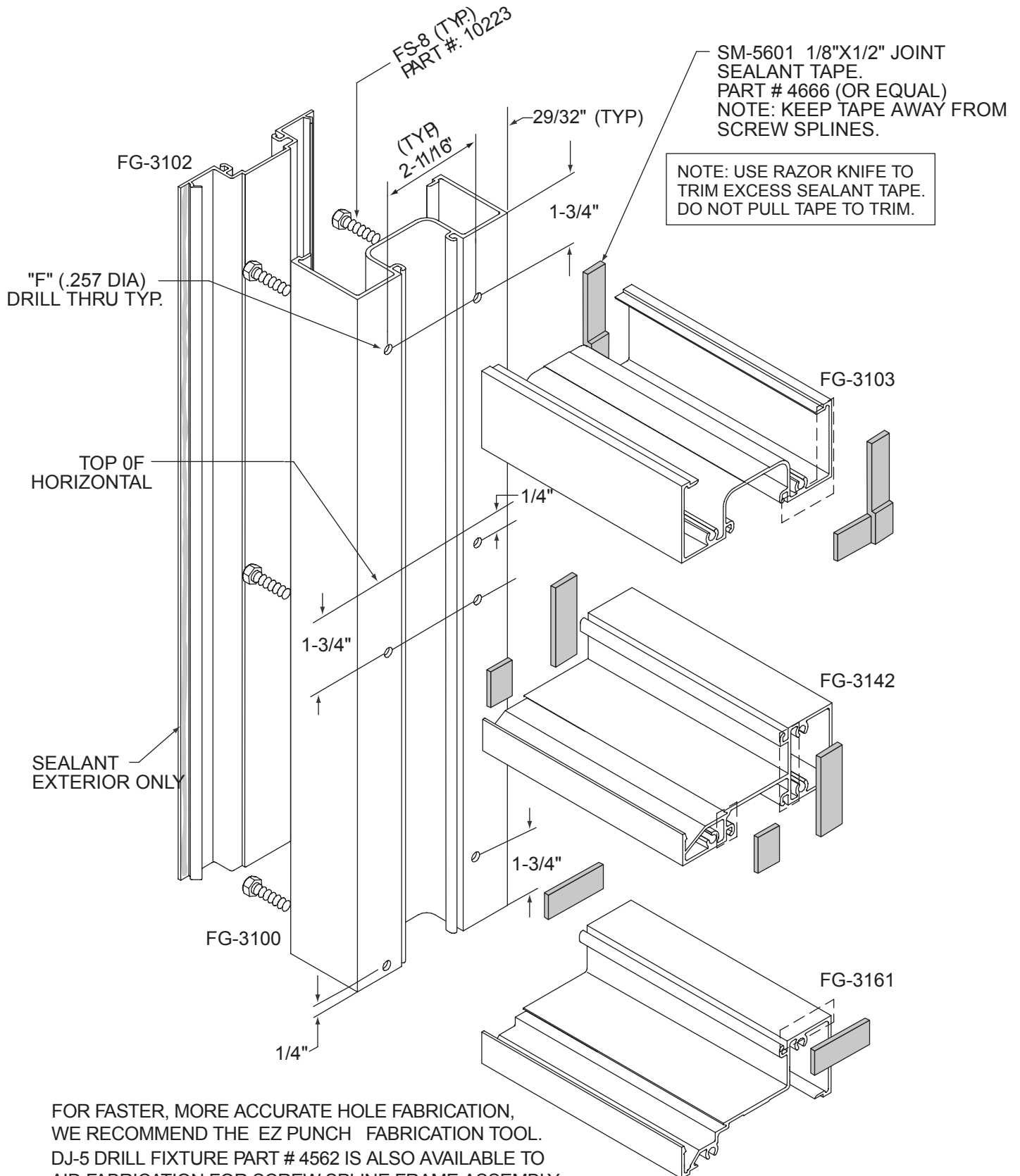
NOT RECOMMENDED

PREFERRED



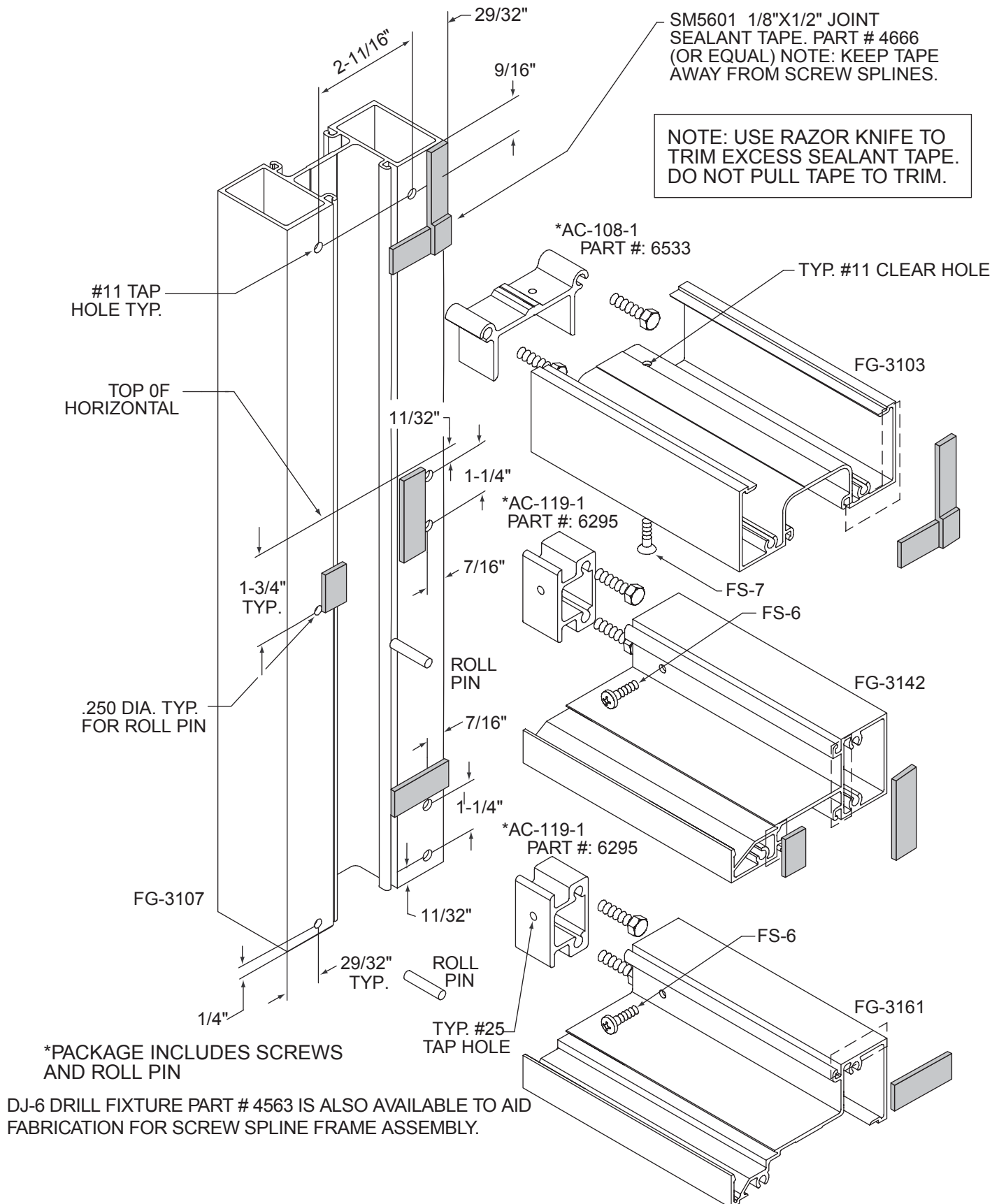
NOT ENOUGH METAL EXPOSED TO INTERIOR AT X.

OUTSIDE GLAZE SCREW SPLINE FRAME ASSEMBLY



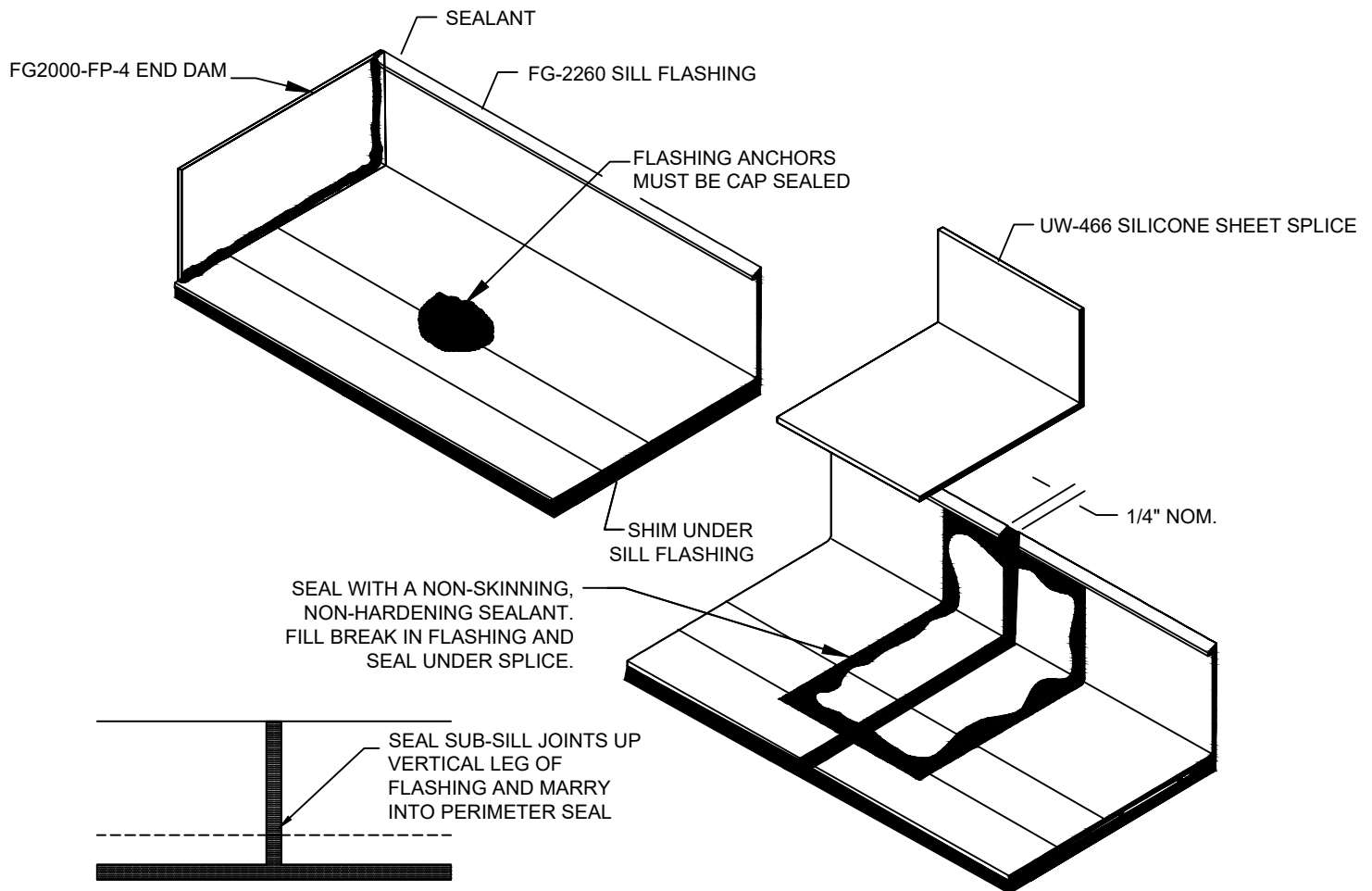
FG-3000 INSTALLATION MANUAL

OUTSIDE GLAZE SHEAR BLOCK FRAME ASSEMBLY

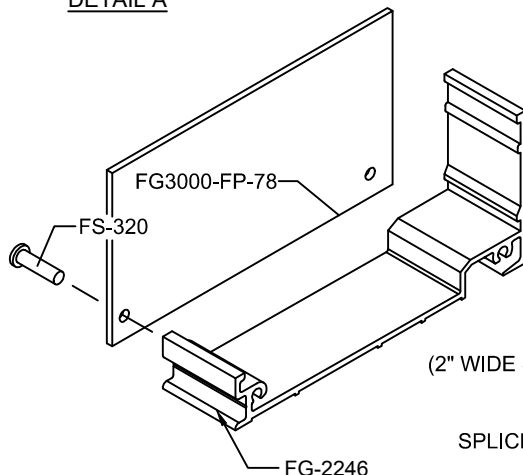


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OUTSIDE GLAZE SILL FLASHING INSTALLATION

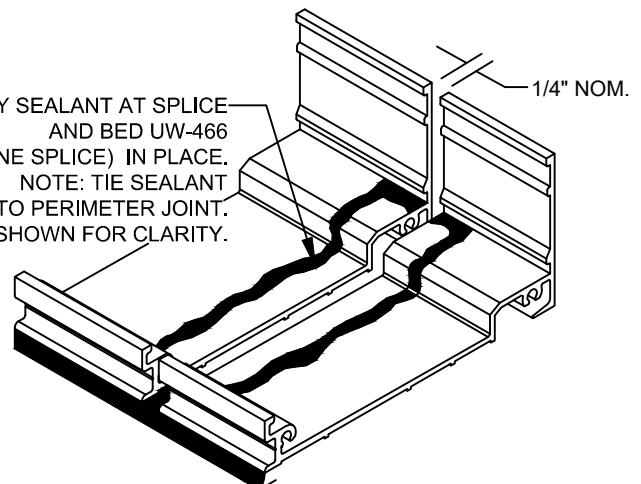


DETAIL A



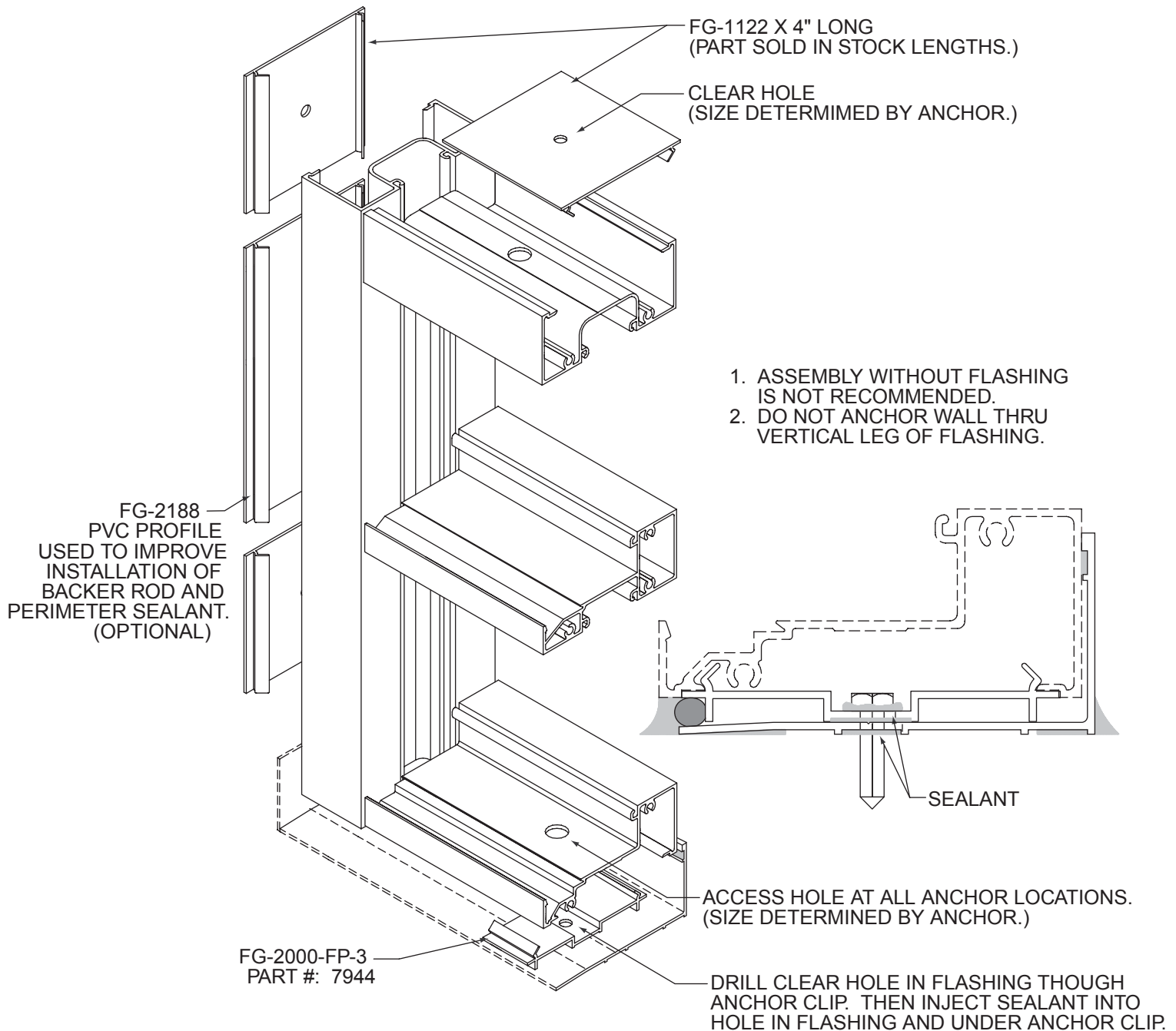
NOTE: SILL FLASHING SHOULD BE LEVEL AND MAKE SURE IT IS NOT TILTED TOWARD THE INTERIOR.

APPLY SEALANT AT SPLICE AND BED UW-466 (2" WIDE SILICONE SPLICE) IN PLACE. NOTE: TIE SEALANT INTO PERIMETER JOINT. SPLICE NOT SHOWN FOR CLARITY.



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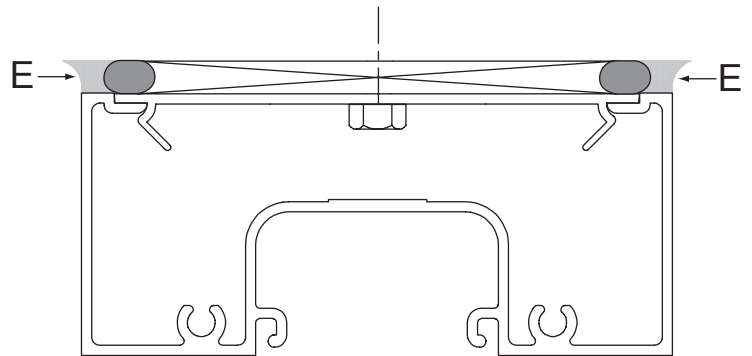
OUTSIDE GLAZE FRAME INSTALLATION



ANCHOR SIZE AND FREQUENCY SHOULD BE DETERMINED BY STRUCTURAL REQUIREMENTS. SILL ANCHOR FG-2000-FP-3 AND HEAD ANCHOR FG-2122 SHOULD BE LOCATED SO THAT THE ANCHOR IS NOT MORE THAN 4" FROM EACH SIDE OF THE MULLION.

FG-3000 INSTALLATION MANUAL

OUTSIDE GLAZE SILL FLASHING INSTALLATION AND PERIMETER SEAL

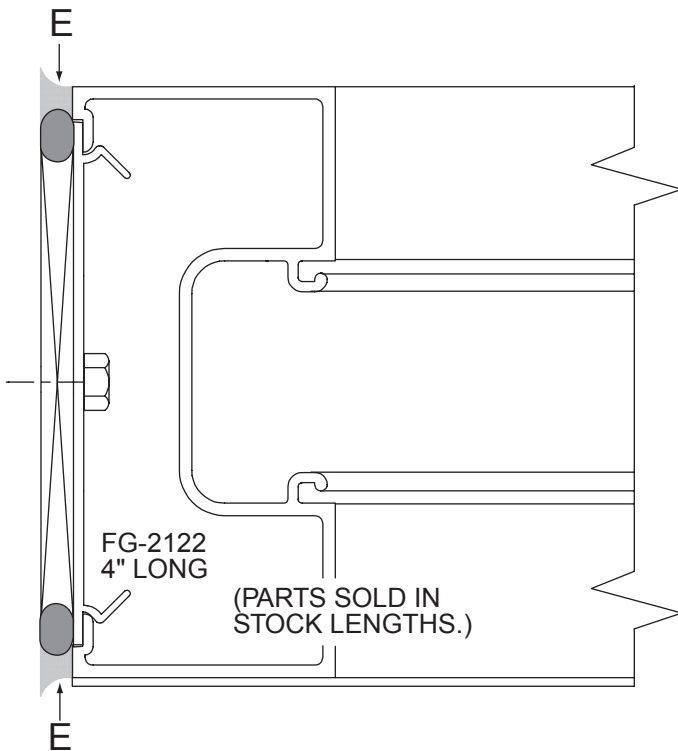


APPLY SEALANT ALONG LENGTH OF SUB SILL
AT AREAS A & B.

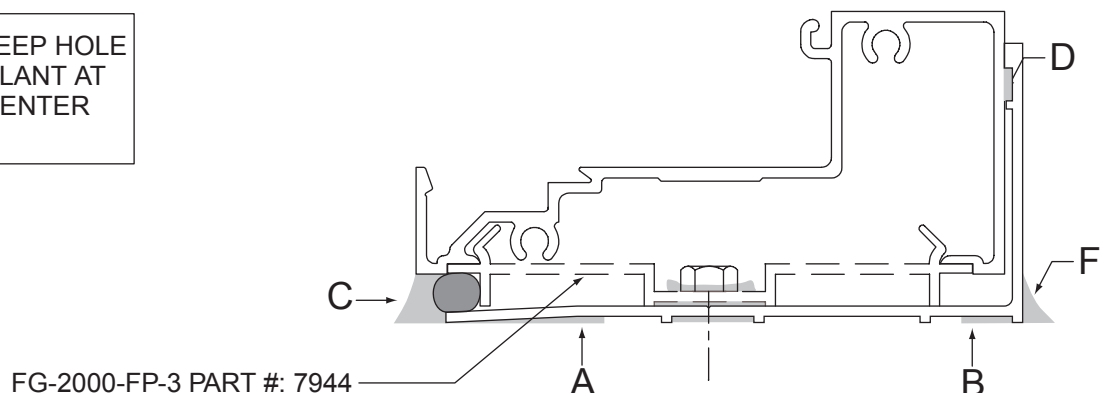
LAY FLASHING ON SLAB AND SHIM ONLY AT LOW
AREAS. RESEAL AT SHIM AREAS.

SPACE BETWEEN SILL AND FLASHING (C) TO BE
CONTINUOUSLY SEALED EXCEPT FOR 1/2"-3/4"
SPACE UNDER VERTICAL MULLIONS FOR WEEPAGE.
PRIOR TO INSTALLING FRAME, APPLY SEALANT
CONTINUOUSLY ALONG SILL FLASHING (D).
THIS WILL PROVIDE CONTINUOUS SEAL
BETWEEN SILL AND SILL FLASHING.

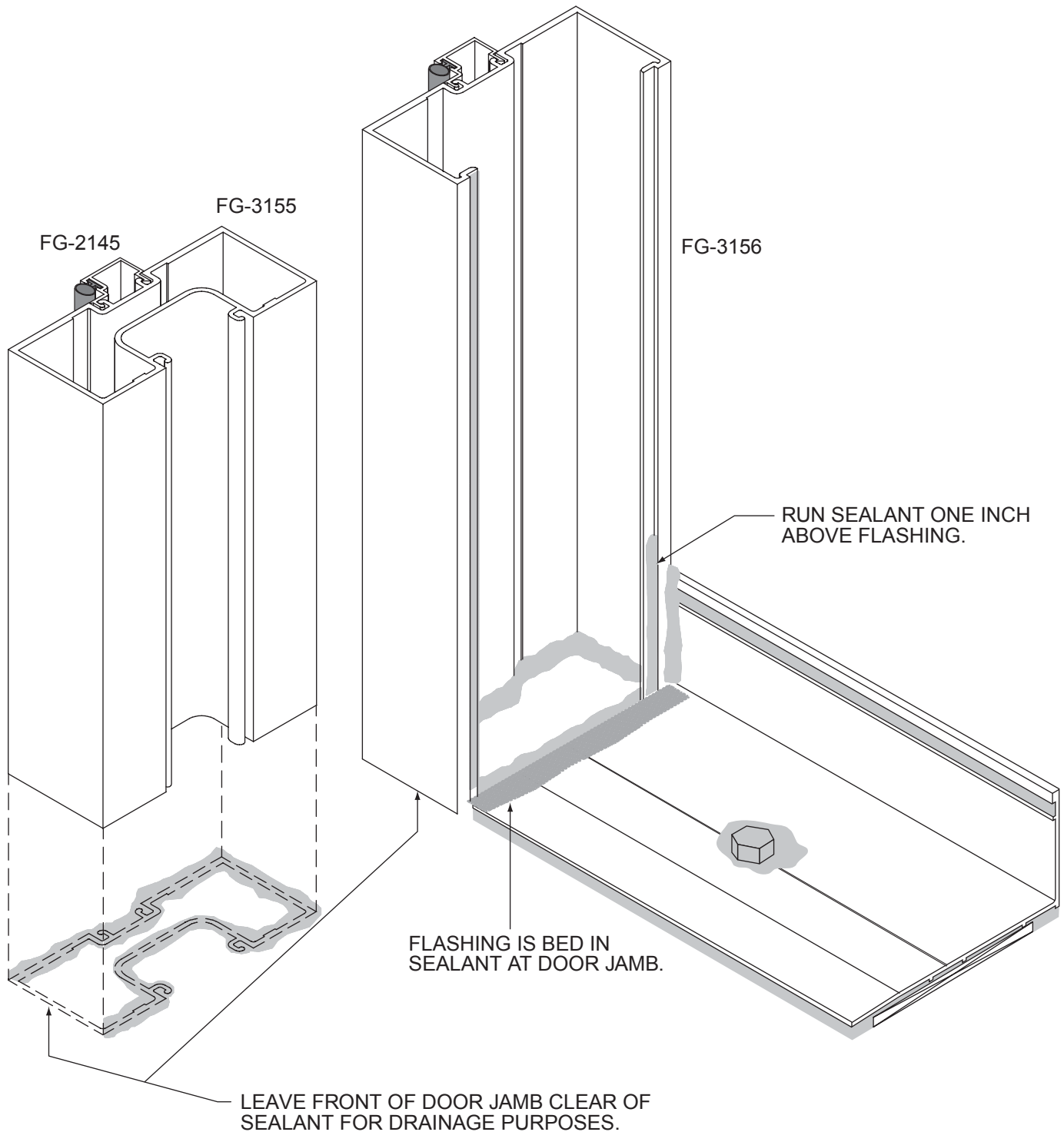
THE QUALITY OF THE INSIDE AND OUTSIDE
PERIMETER SEALS (C AND E) MAY BE IMPROVED
BY USING FG-2188 RIGID PVC FILLER.
THE PART MAY BE USED IN FULL LENGTHS OR CUT
INTO PIECES. ITS PURPOSE IS TO PROVIDE
SUPPORT FOR THE BACKER ROD REGARDLESS
OF JOINT OR SIZE. PERIMETER SEAL (F) IS FOR
COSMETIC PURPOSES AND IS OPTIONAL.



NOTE: 1/2"- 3/4" WEEP HOLE
REQUIRED IN SEALANT AT
FLASHING (C) AT CENTER
LINE OF MULLION.



OUTSIDE GLAZE SEALANT PROCEDURE FOR DOOR FRAME AT FLASHING

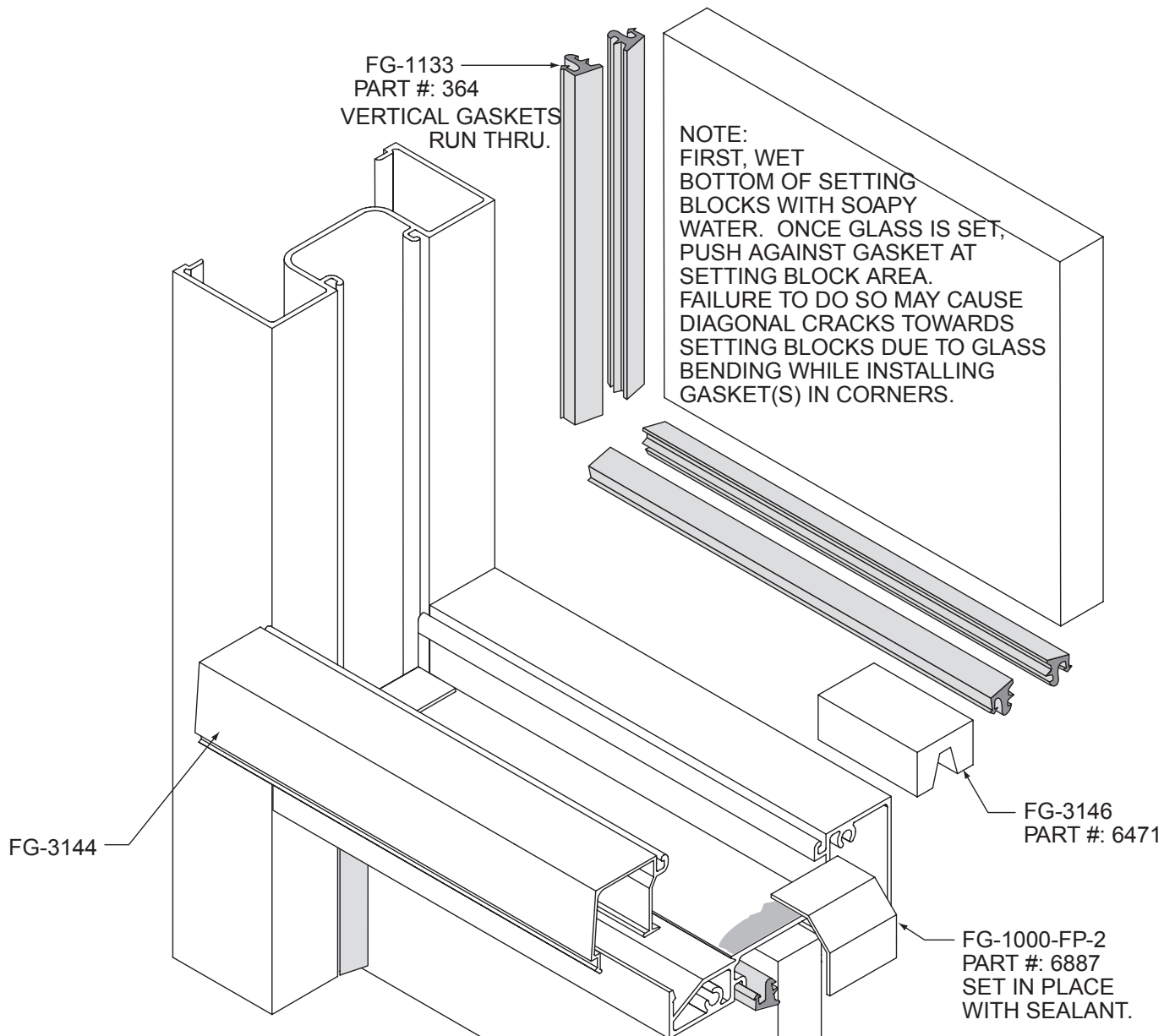


*USE SHEAR BLOCKS AS SHOWN ON PAGE 7 TO SECURE TO TUBULAR FRAME.

DOOR FRAME IS ANCHORED BY FASTENERS THROUGH THRESHOLD AND THROUGH DOOR FRAME HEADER.

DO NOT FABRICATE 2 PIECE DOOR FRAMES WITH POUR & DEBRIDGE PROFILES.

OUTSIDE GLAZE GLAZING PROCEDURE



GLAZING INSTALLATION INSTRUCTIONS

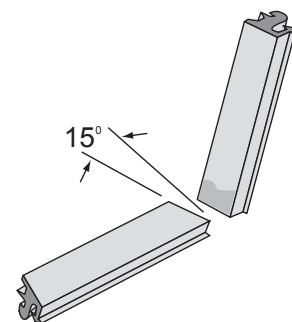
GLASS SIZE
7/8" OVER DAY LIGHT OPENING

SETTING BLOCK
SET AT 1/4 POINT OR 1/8 POINT OF HORIZONTAL LENGTH
DEPENDING ON LITE SIZE.

WATER DIVERTERS
GLAZE FROM BOTTOM TO TOP. INSTALL WATER DIVERTERS IN
HORIZONTAL ABOVE, AFTER LITE BELOW IS IN POSITION.

GLAZING GASKET
GASKET MAY BE INSTALLED ON ONE OR BOTH SIDES
SIMULTANEOUSLY. PROVIDE 1/4" ADDITIONAL GASKET
FOR EACH FOOT OF DAYLIGHT OPENING TO PROVIDE
ADEQUATE COMPRESSION FOR THE GLAZING INFILL.

NOTE: CLEAN GASKET WITH ISOPROPYL ALCOHOL PRIOR TO
SEALING CORNERS.



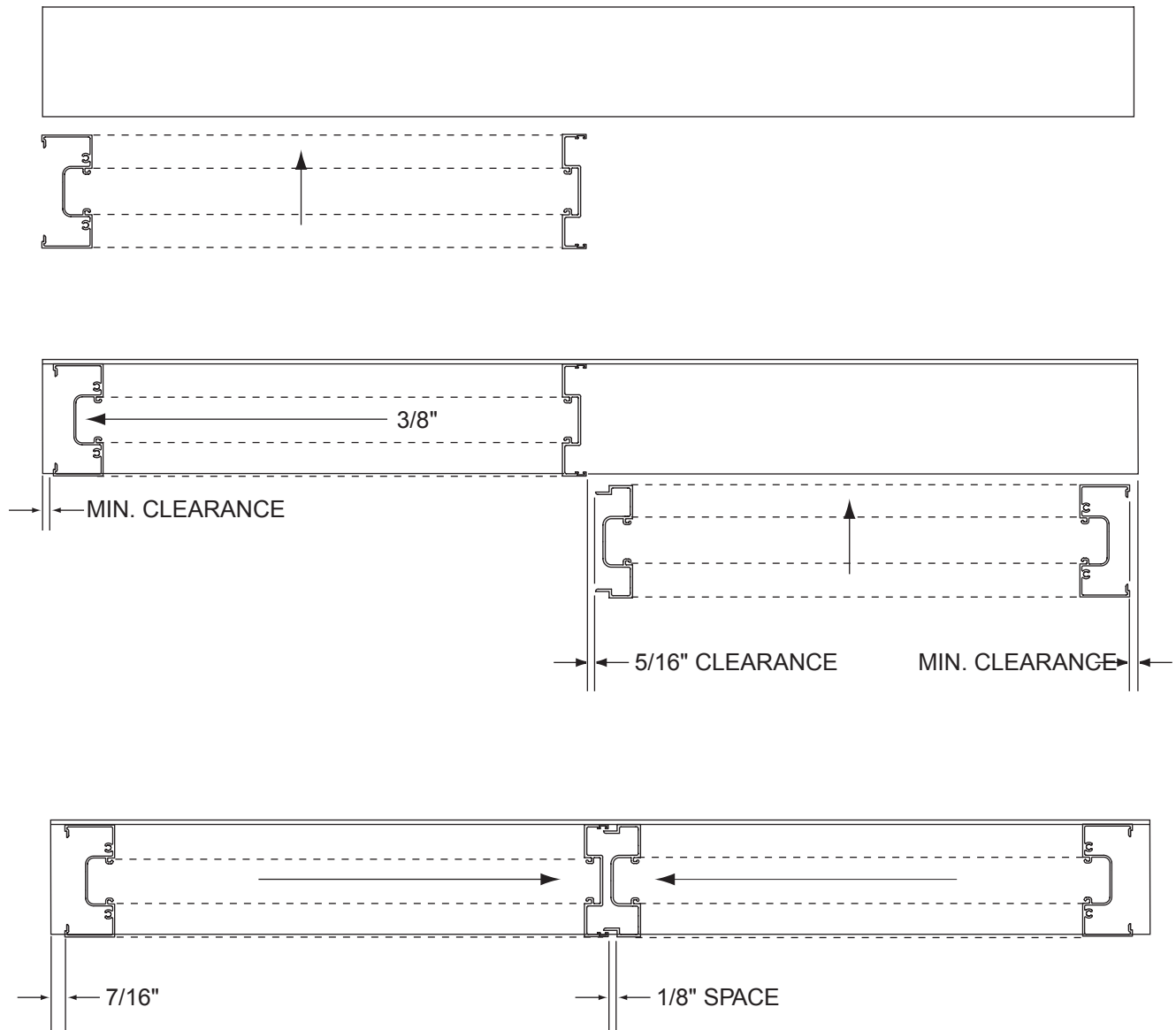
MITER HORIZONTAL GASKET
TO FIT VERTICAL GASKET.

INSIDE GLAZE SCREW SPLINE FRAME ASSEMBLY

Most of the extrusions in this system are the same, only the sill and its anchors are different. Note that the tapes used for sealing the horizontals to mullions are located in a different manner.

The sill is designed so that sill anchors may be cap sealed before the frame is installed. The frame is installed over the the sill with twist-in anchors. This prevents any additional screws from penetrating the sill and causing leaks under the sill.

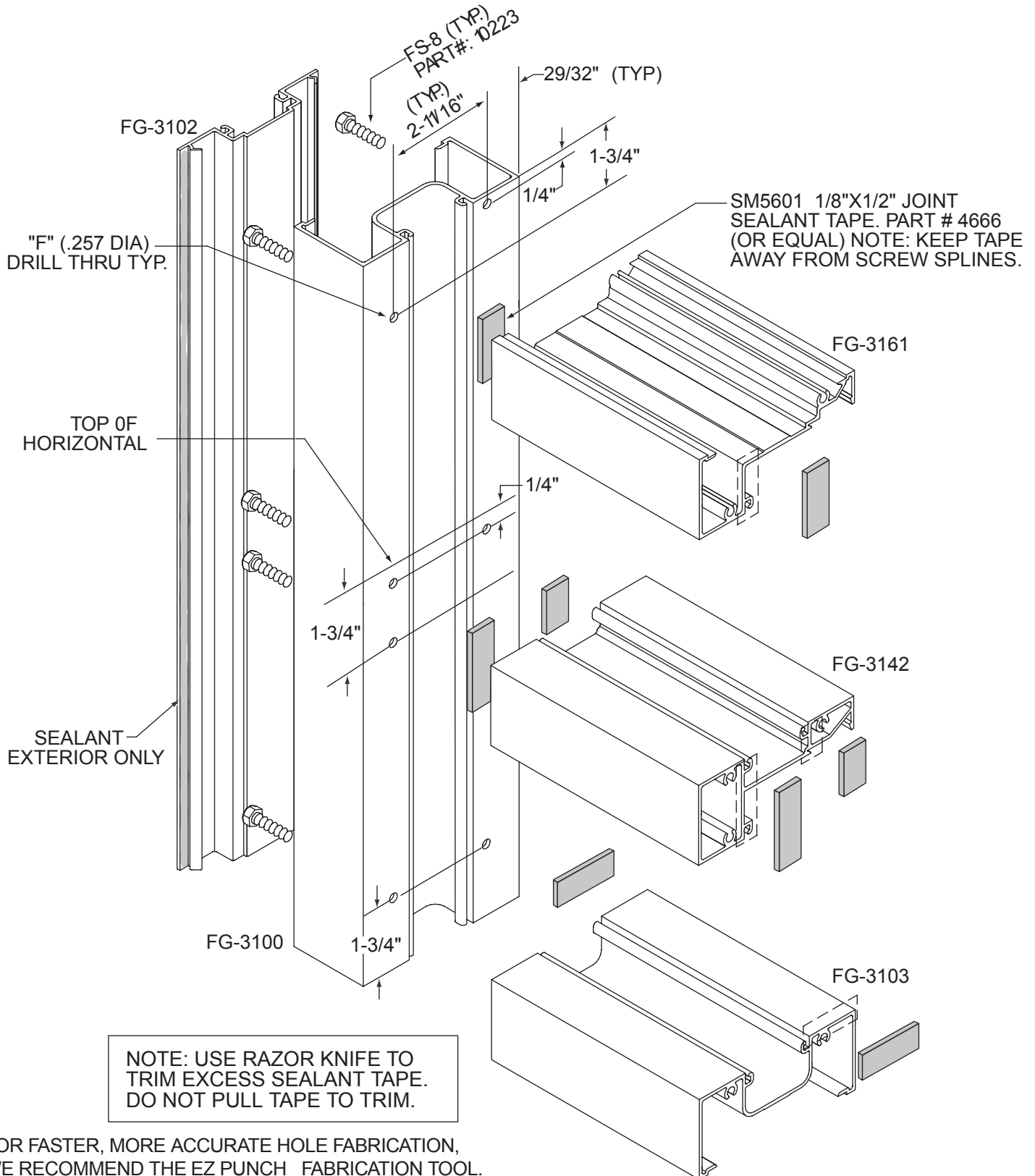
Multiple units require the use of split mullions. A minimum of 7/16" clearance between the jamb and sill end dam must be provided. This will allow a minimum of 3/8" clearance to move first unit sideways so the second unit with the same clearance will clear the interlocking legs of the expansion mull. Adjust frame locations before running perimeter seals. OBE recommends using FG-2188 vinyl filler to improve the perimeter seal.



OBE does not recommend the shear block or stack method of assembly for inside glazing.

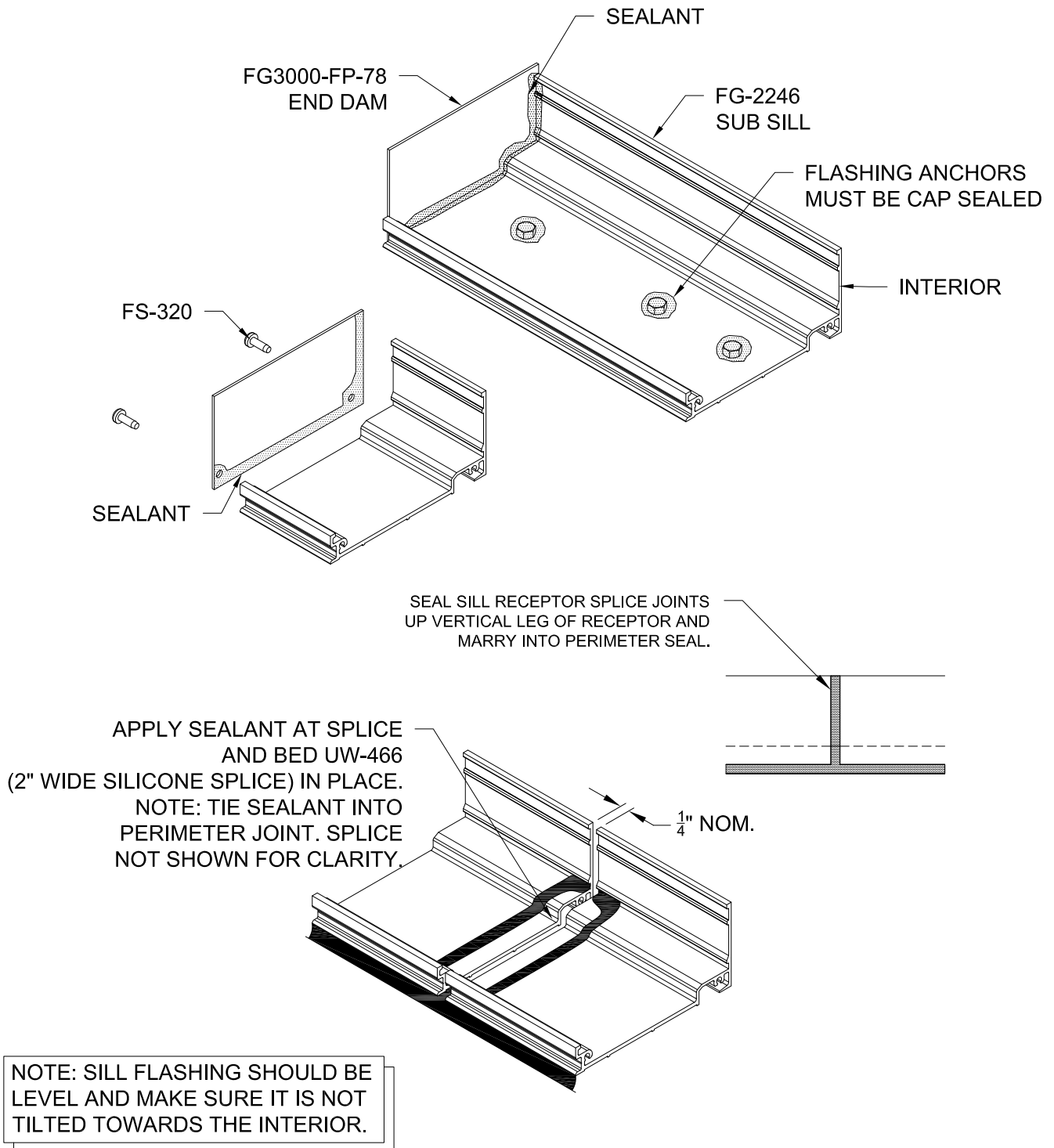
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INSIDE GLAZE SCREW SPLINE FRAME ASSEMBLY

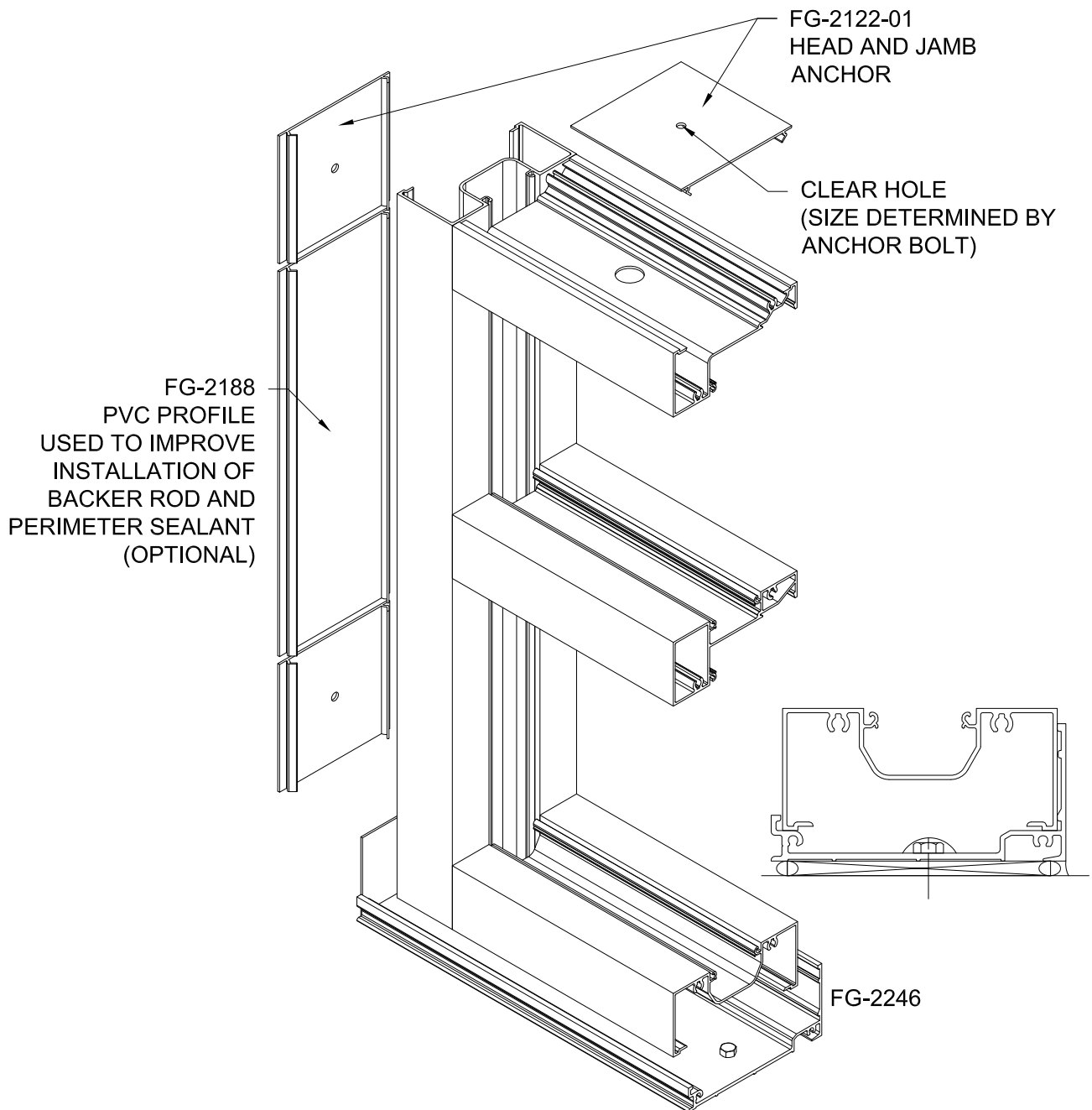


FOR FASTER, MORE ACCURATE HOLE FABRICATION,
WE RECOMMEND THE EZ PUNCH FABRICATION TOOL.
DJ-5 DRILL FIXTURE PART # 4562 IS ALSO AVAILABLE TO
AID FABRICATION FOR SCREW SPLINE FRAME ASSEMBLY.

INSIDE GLAZE SILL FLASHING INSTALLATION

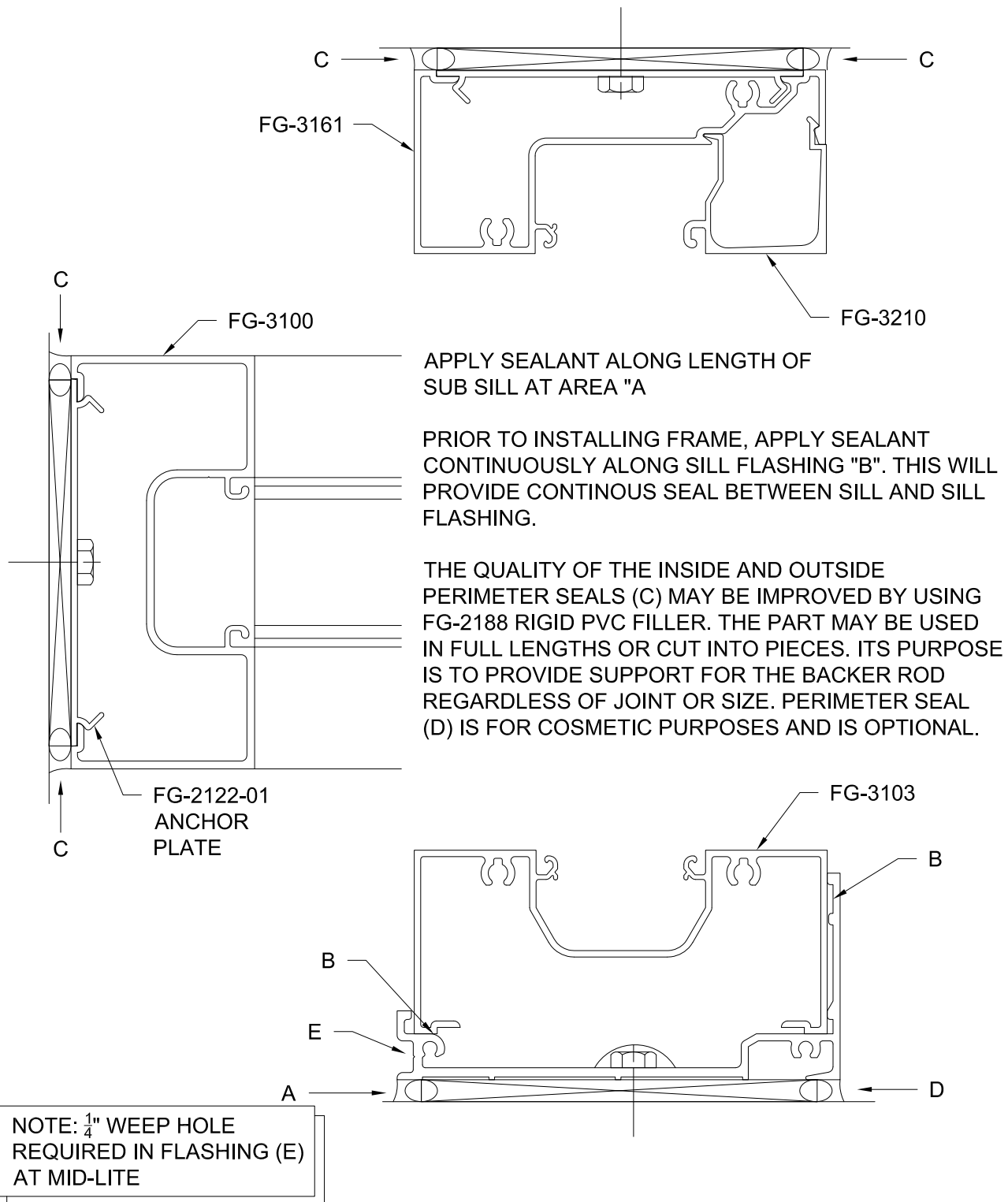


INSIDE GLAZE FRAME INSTALLATION

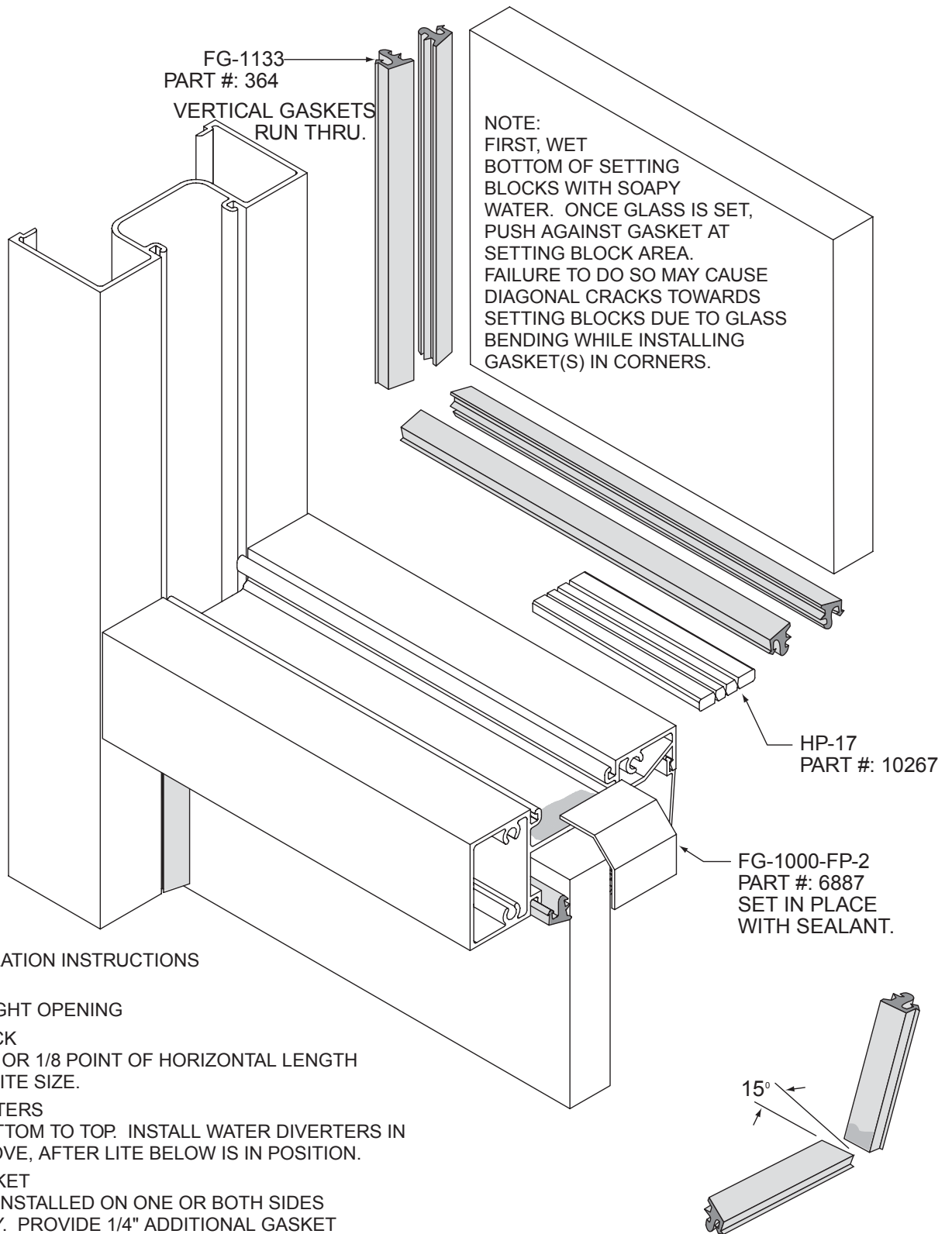


ANCHOR SIZE AND FREQUENCY SHOULD BE DETERMINED BY STRUCTURAL REQUIREMENTS. HEAD ANCHOR FG-2122 AND ANCHOR BOLT THROUGH SILL FLASHING SHOULD BE LOCATED SO THAT THE ANCHOR SCREW IS NOT MORE THAN 4" FROM EACH SIDE OF MULLION.

INSIDE GLAZE, NON THERMAL SILL FLASHING INSTALLATION AND PERIMETER SEAL



INSIDE GLAZE GLAZING PROCEDURE



GLAZING INSTALLATION INSTRUCTIONS

GLASS SIZE
7/8" OVER DAY LIGHT OPENING

SETTING BLOCK
SET AT 1/4 POINT OR 1/8 POINT OF HORIZONTAL LENGTH
DEPENDING ON LITE SIZE.

WATER DIVERTERS
GLAZE FROM BOTTOM TO TOP. INSTALL WATER DIVERTERS IN
HORIZONTAL ABOVE, AFTER LITE BELOW IS IN POSITION.

GLAZING GASKET
GASKET MAY BE INSTALLED ON ONE OR BOTH SIDES
SIMULTANEOUSLY. PROVIDE 1/4" ADDITIONAL GASKET
FOR EACH FOOT OF DAYLIGHT OPENING TO PROVIDE
ADEQUATE COMPRESSION FOR THE GLAZING INFILL.

NOTE: CLEAN GASKET WITH ISOPROPYL ALCOHOL PRIOR TO
SEALING CORNERS.

MITER HORIZONTAL GASKET
TO FIT VERTICAL GASKET.

STACK SYSTEM FRAME ASSEMBLY AND INSTALLATION

The assembly and sealant procedures are a part of the installation sequence because of the stacking method.

HEAD CAN:

Anchor screws should be within 4" of each side of the intended mullion location. Head anchors AC-121-1 should be used if the height x width x design load is 500 lbs. or more for one bay at the top of the mullion. Normally one anchor screw at the middle of the lite or 24" O.C. is adequate for securing the header. For unusual conditions, consult the OBE engineering department.

SILL CAN:

Shim can a minimum 1/4" . Anchor sill can 24" O.C. and no more than 4" on each side of intended mullion locations. Be sure weeps are located under center line of mullion. Sill both sides of can.

HORIZONTAL HEAD AND SILL INSERT:

Members are cut 1/16" less than daylight opening to allow for incremental expansion.

JAMB MEMBERS:

Remember all horizontals are cut 1/16" short. Do not over shim between jamb and structure.

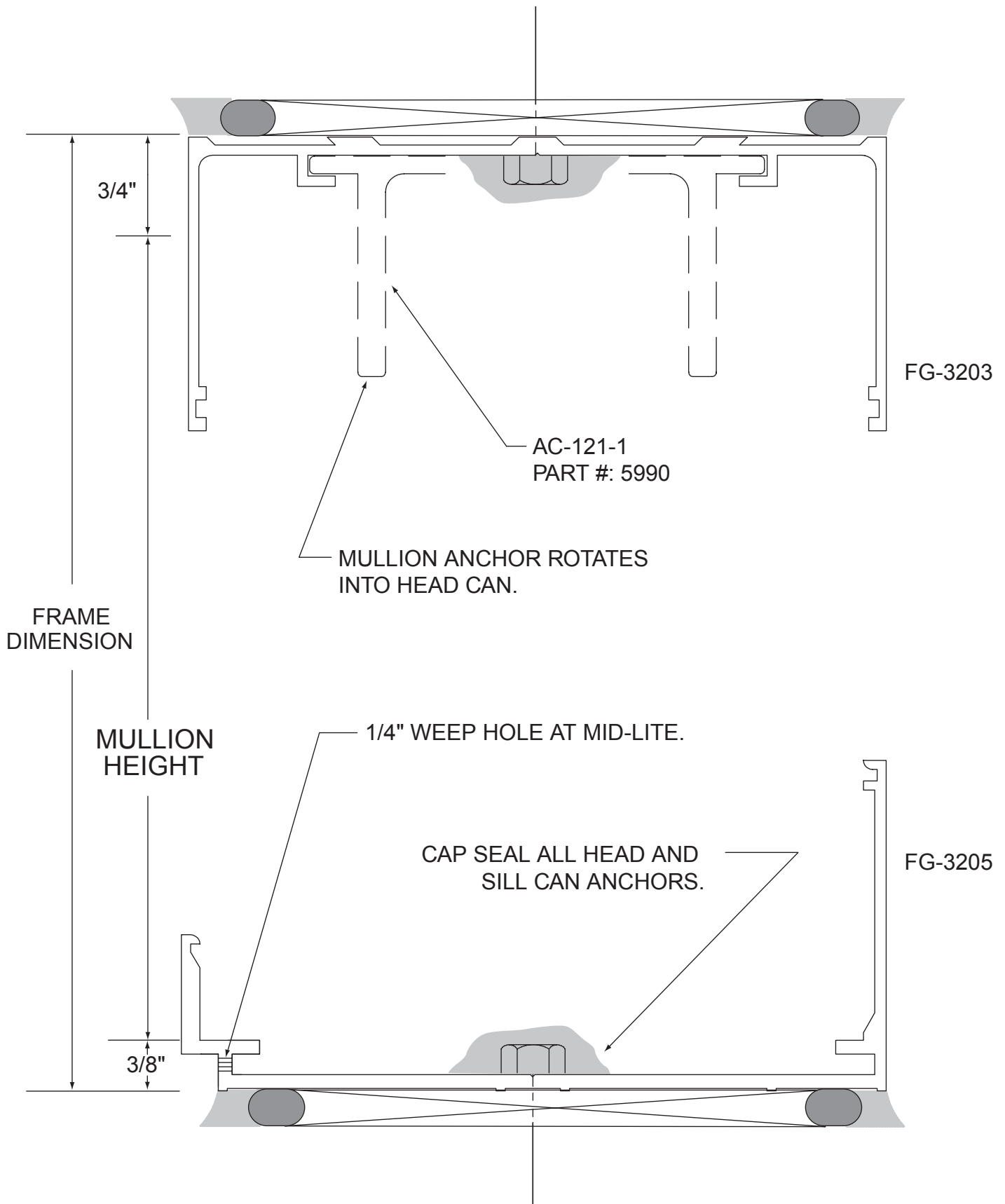
MULLIONS

Cut mullion length outside frame dimension 1-1/4" . Install mullions by sliding top end over anchor and rotating bottom into position.

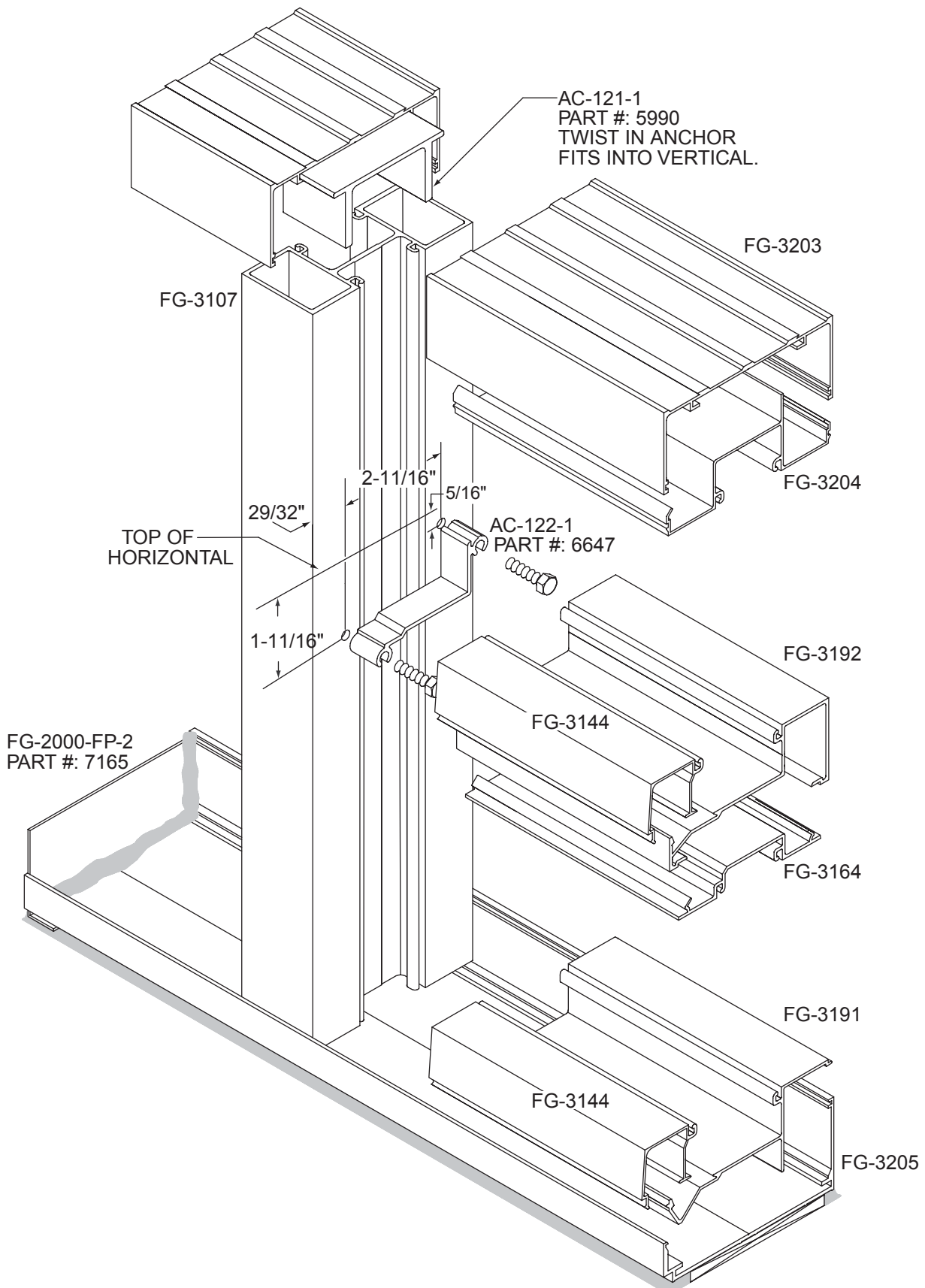
RECOMMENDATION:

Prior to glazing, fill sill cavity with water to assure that end dams and anchors are sealed. Then, run interior sill bead.

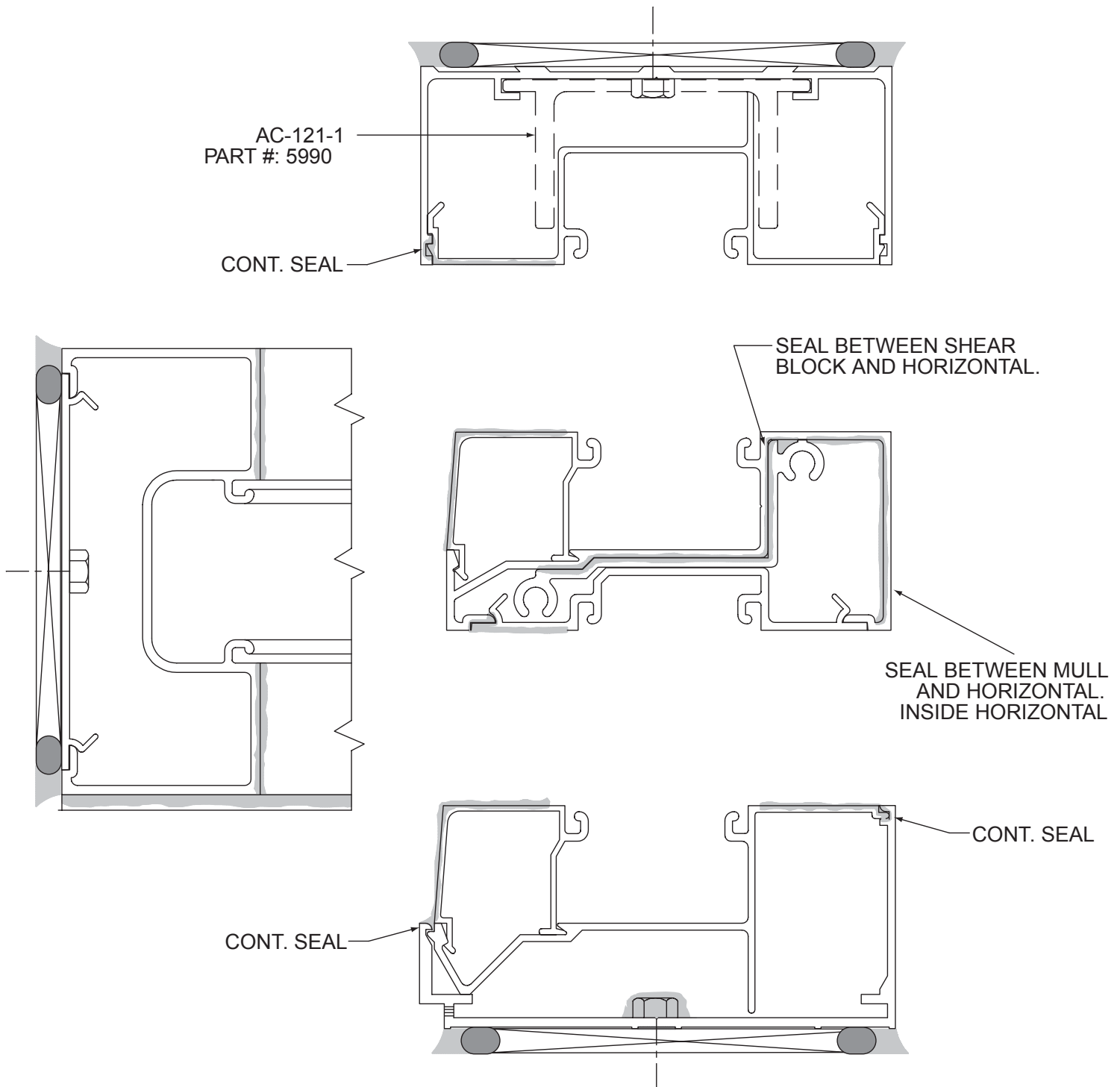
STACK SYSTEM ANCHORING



STACK SYSTEM FRAME ASSEMBLY AND INSTALLATION

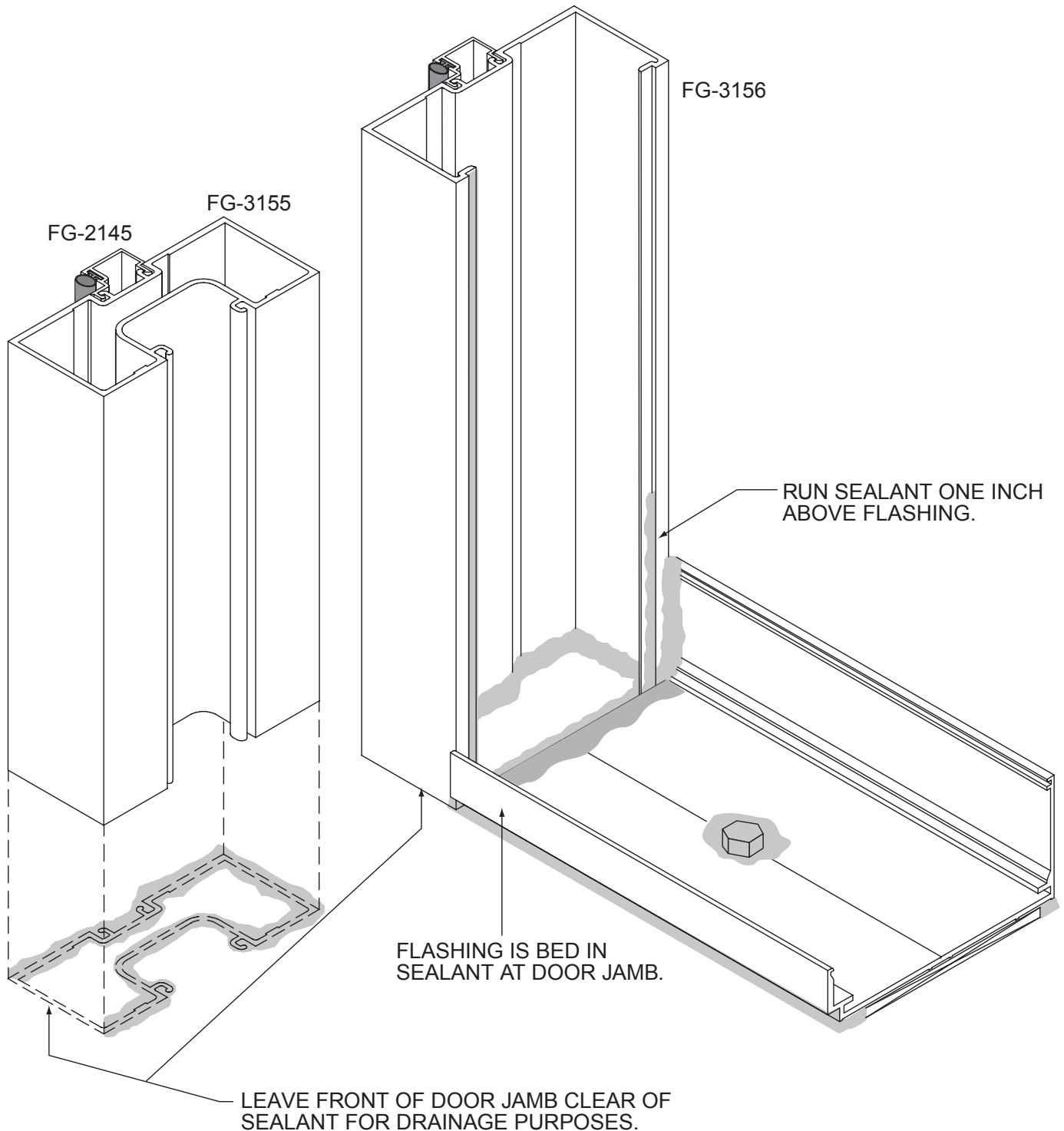


STACK SYSTEM FRAME SEALANT PROCEDURE



NOTE: THE NATURE OF THE STACK SYSTEM REQUIRES CARE WHEN APPLYING SEALANTS AS SHOWN TO ASSURE PERFORMANCE LEVELS SHOWN IN THE TEST REPORT.

STACK SYSTEM SEALANT PROCEDURE FOR DOOR FRAME AT FLASHING

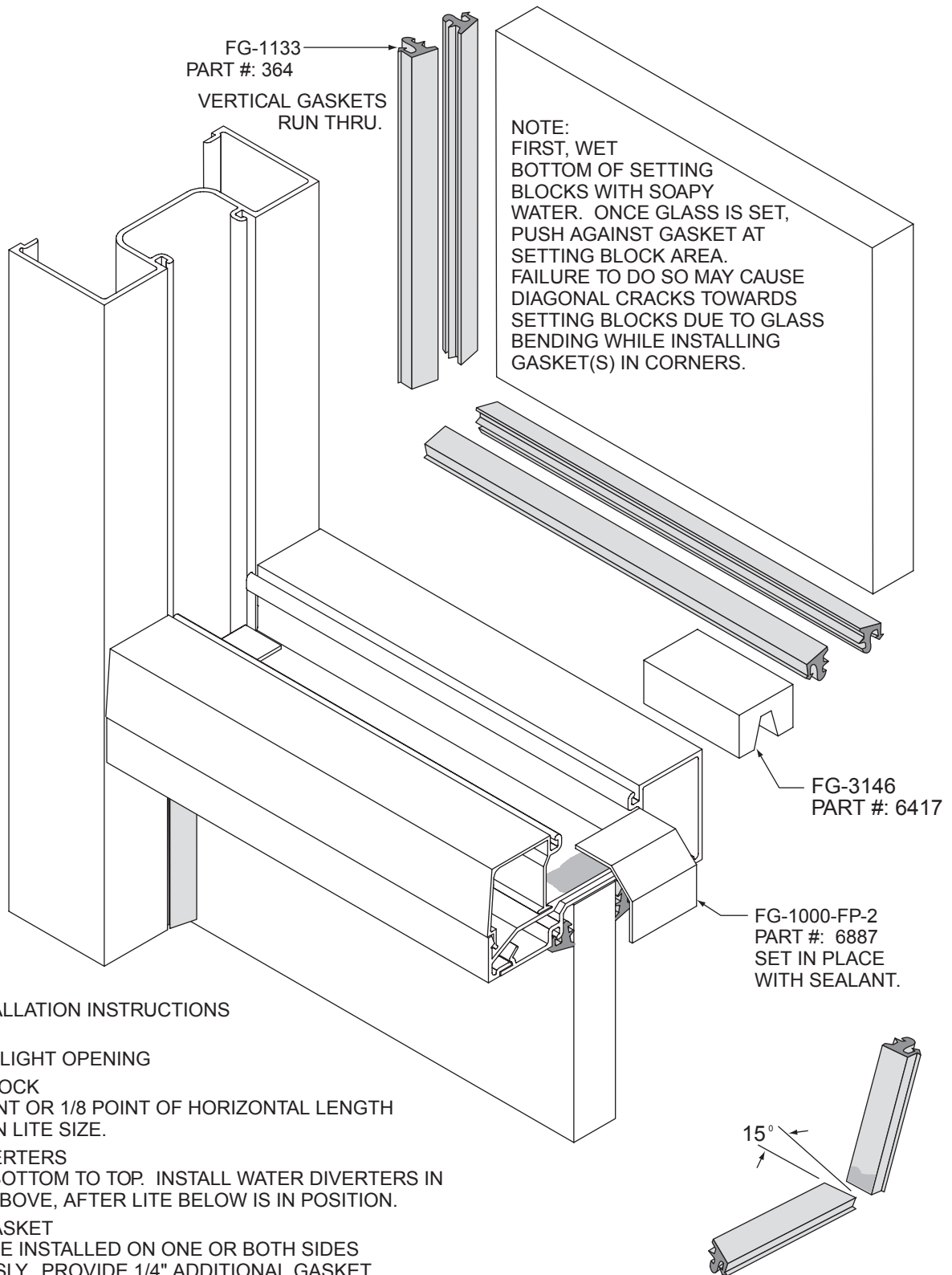


*USE SHEAR BLOCKS AS SHOWN ON PAGE 7 TO SECURE TO TUBULAR FRAME

DOOR FRAME IS ANCHORED BY FASTENERS THROUGH THRESHOLD
AND THROUGH DOOR FRAME HEADER.

DO NOT FABRICATE 2 PIECE DOOR FRAMES WITH POUR & DEBRIDGE PROFILE

STACK SYSTEM GLAZING PROCEDURE



GLAZING INSTALLATION INSTRUCTIONS

GLASS SIZE
7/8" OVER DAY LIGHT OPENING

SETTING BLOCK
SET AT 1/4 POINT OR 1/8 POINT OF HORIZONTAL LENGTH
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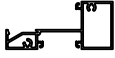
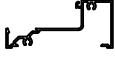

NOTE: CLEAN GASKET WITH ISOPROPYL ALCOHOL PRIOR TO
SEALING CORNERS.

MITER HORIZONTAL GASKET
TO FIT VERTICAL GASKET.




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PARTS LIST


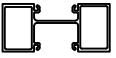


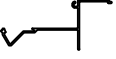

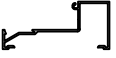
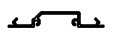

FG-3000 2" x 4-1/2" Screw Spline System

 FG-3100	Open Back Mullion
 FG-3101	Open Back Heavy Mullion
 FG-3102	Mullion Filler
 FG-3103	Jamb / Outside Glaze Head / Inside Glaze Sill
 FG-3108	Expansion Mullion Half
 FG-3109	Expansion Mullion Half
 FG-3180	Adjustable Mullion Half
 FG-3181	Adjustable Mullion Half
 FG-3135	Mullion for Steel Reinforcement
 FG-3164	Mullion Filler for Steel Reinforcement
 FG-3142	Intermediate Horizontal
 FG-3161	Outside Glaze Sill / Inside Glaze Head
 FG-3144	Glass Stop (Outside Glaze)

FG-3000 2" x 4-1/2" Screw Spline System

 FG-3210	Glass Stop (Inside Glaze)
 FG-2169	Sub-Sill (Outside Glaze Only)
 FG-2246	Sub-Sill (Inside/Outside Glaze)


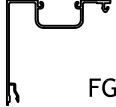
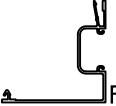
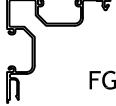






FG-3000 2" x 4-1/2" Stack System

 FG-3100	Jamb
 FG-3107	Mullion
 FG-3203	Head Receptor
 FG-3204	Head Insert
 FG-3191	Sill Insert
 FG-3205	Sill Receptor
 FG-3192	Horizontal
 FG-3164	Horizontal Filler
 FG-3144	Glass Stop

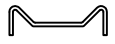




FG-3000 INSTALLATION MANUAL

PARTS LIST




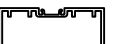

FG-3000 2 x 4-1/2" Auxiliary Extrusions

	Open Back Flat Filler
FG-2122	
	90° Corner (Self Mating for 180° Post)
FG-3110	
	90° Split Corner
FG-3111	
	90° Corner w/ FG-2112 3-Way Post w/ FG-3111
FG-3201	
	Corner Post Self Mating
FG-2112	
	135° / 45° Corner use FG-3141 Filler
FG-2138	
	Deep Pocket Filler for FG-2138
FG-3141	
	4-1/2" Head Receptor (V-11 not included)
MO-243	
	Head Receptor Face (V-11 not included)
MO-244	
	Head Receptor (V-11 not included)
FG-2139	

FG-3000 2 x 4-1/2" Auxiliary Extrusions

	Steel Reinforcement for FG-3135 and FG-3164 Only
RS-1	
	Snap-In Pocket Filler
FG-3126	
	Pocket Reducer for 1/4" Glass
FG-3194	
	Pocket Reducer for 7/16" Glass
FG-3236	
	Pocket Reducer for 5/8" Glass
FG-3237	




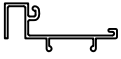







FG-3000 Door Frame Components

	Tubular Door Jamb
FG-3155	
	Open Back Door Jamb
FG-3156	
	Tubular Double Door Jamb
FG-3168	
	Tubular Door Header for OHCC
FG-3160	
	Door Header for Open Back Frames
FG-3163	

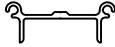
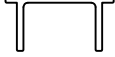
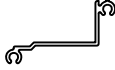




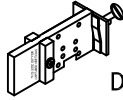
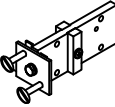


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PARTS LIST

FG-3000 Door Frame Components

 FG-3196	Door Header for OHCC
 FG-1129	Snap-In Filler for FG-3196
 FG-1184	Snap-In Filler for FG-3196 with weathering
 FG-3157	Door Transom Glazing Adaptor
 FG-3158	Door Transom Glazing Adaptor Stop
 FG-2145	1/2" x 1-1/16" Snap-In Door Stop
 FG-2120	1/2" x 1-5/8" Snap-In Door Stop
 DS-1	1/2" x 1-5/8" Door Stop (Use SC-1 Clips)
 DS-108	3/4" x 1-5/8" Door Stop (Use SC-1 Clips)
 DS-104	1-3/16" x 1-5/8" Door Stop (Use SC-1 Clips)
 FG-1123	Slide-In Pocket Filler







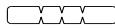





FG-3000 Accessories

 AC-108-1	Shear Block for FG-3103 Header
 AC-121-1	Mullion Anchor for FG-3190 and FG-3203
 AC-122-1	Shear Block for FG-3192 Horizontal
 FG2000-FP-3	Sill Anchor for FG-3161
 AC-119-1	Shear Block for FG-3142 and FG-3161
 FG-3218	Vinyl Pocket Filler for Window Applications 12'-0" S/L
 FG-2188	Vinyl Filler for Caulk stop 12'-0" S/L
 DJ-5	Drill Fixture for Screw Spline Assembly FG-3103, FG-3142 & FG-3161
 DJ-6	Drill Fixture for Shear Block Assembly AC-119-1 & AC-108-1
 SC-1	Spring Clip for DS-1, DS-104 and DS-108
 UW-466	Silicone Splice for FG-2246



FG-3000 INSTALLATION MANUAL

PARTS LIST






FG-3000 ACCESSORIES

 FG-1133	1" Glazing Gasket (3/16" Face Clearance)
 FG-1134	Light Gasket (1/8" Face Clearance)
 FG-5125	Heavy Gasket (1/4" Face Clearance)
 FG-3129	Heavy Gasket (3/8" Face Clearance)
 V-11	Gasket for Head Receptor and Expansion Mullions
 FG-3146	Setting Block for FG-3142, FG-3161, FG- 3191 & FG-3192
 HP-17	Setting Block for FG-3142 Inside Glazed
 SM5601	Joint Sealant Tape 1/8" x 1/2"
 FG1000-FP-2	Water Diverter for Center Set Outside Glazed & all Front Set or Back Set
 FG2000-FP-4	End Dam for FG-2169
 FG3000-FP-78	End Dam for FG-2246
 UW-466	2" Wide Silicone Sheet for splicing of sill receptors

FG-3000 ACCESSORIES

 GP-150	Side Block for Deep Pocket
 GP-154	Side Block for Shallow Pocket

FG-3000 Fasteners

 FS-6	#10 x 3/4" PPH Attachment of Sill and horizontal To Shear Block
 FS-7	#10 X 3/4" PFH Attachment of Head to Shear Block
 FS-8	1/4 X1" HHSTS Screw Spline Assembly Screw
 FS-9	1/4 X 1-1/2" HHSTS Assembly Screw For Shear Block
 FS-320	M4 x 16mm headed Helical pin Attachment of FG3000-FP-78 End Dam

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INFILL THICKNESS OPTIONS

Glass Size	Adaptor	Gaskets
1/4"	FG-3194	FG-1133 Both Sides
5/16"	FG-3236	FG-5125 Both Sides
3/8"	FG-3236	FG-1133 & FG-5125
7/16"	FG-3236	FG-1133 Both Sides
1/2"	FG-3237	FG-5125 Both Sides
9/16"	FG-3237	FG-1133 & FG-5125
5/8"	FG-3237	FG-1133 Both Sides
11/16"	FG-3237	FG-1133 & FG-1134
3/4"	FG-3237	FG-1134 Both Sides
13/16"	N/A	Not Available
7/8"	None	FG-5125 Both Sides
15/16"	None	FG-1133 & FG-5125
1"	None	FG-1133 Both Sides
1-1/16"	None	FG-1133 & FG-1134
1-1/8"	None	FG-1134 Both Sides