

Oldcastle BuildingEnvelope™

*Series 6000 THERMAL MULTI-PLANE
INSTALLATION AND GLAZING MANUAL*

*Note: Installation and Glazing Manuals are product specific. **FOR REVIEW ONLY!***

SERIES 6000 THERMAL MULTIPLANE INSTALLATION MANUAL

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GENERAL INFORMATION

The Oldcastle BuildingEnvelope™ Series 6000 Thermal MultiPlane (2" x 6") system represents the latest in product development technology complemented by dealer on-the-job input and experience. Proper use of this system will assure optimum results in erection and long-term performance.

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 are in strict compliance with applicable laws and building codes.

Over the years many components were added to our flush glaze systems. In addition, there are many ways to install storefront products. This manual represents recommendations for the best results.

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 wet area.

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 general contractor by letter of any discrepancies before proceeding with 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 manufacturer, to insure 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 sealant. Be sure to properly store sealants at recommended temperatures and check sealant for remainder of shelf life before using.

FIELD CONDITIONS:

- Do not install wall if there is a walkway with a down slope 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 wall has been glazed (250 square feet of 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.

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GENERAL INFORMATION

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 degree Fahrenheit change. Any movement potential should be accounted for at time of the installation.

THERMAL IMPROVEMENT SUGGESTIONS:

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

1. Blinds or drapes prevent warm air from washing the window.
2. Warm air ventilators too far from window will not adequately wash the window with air to prevent condensation.
3. In extreme conditions, the fan of the heating systems should not cycle on and off, but run continuously.
4. Some heating systems have a water injection feature that can raise humidity levels. The higher the humidity levels the more likely condensation or frost will form. Raising the temperature and reducing humidity will usually solve this problem.
5. 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.

FABRICATION SUGGESTIONS:

Oldcastle BuildingEnvelope™ recommends the use of our EZ Punch tooling for faster and more accurate fabrication of wall systems. If hand fabricating the mullions; drill fixtures are available to improve accuracy. Fabrication instructions for use of these drill fixtures are described within this manual on pages 21 through 23.

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FRAME FABRICATION (Storefront Typical Installations)

Measure ROUGH OPENING to determine FRAME WIDTH and FRAME HEIGHT dimensions.
Allow 1/4" min clearance for shimming and caulking at sill and jambs. The head joint requires a min of 3/8".

Cut material to size per dimensions given below:

Frame Members:

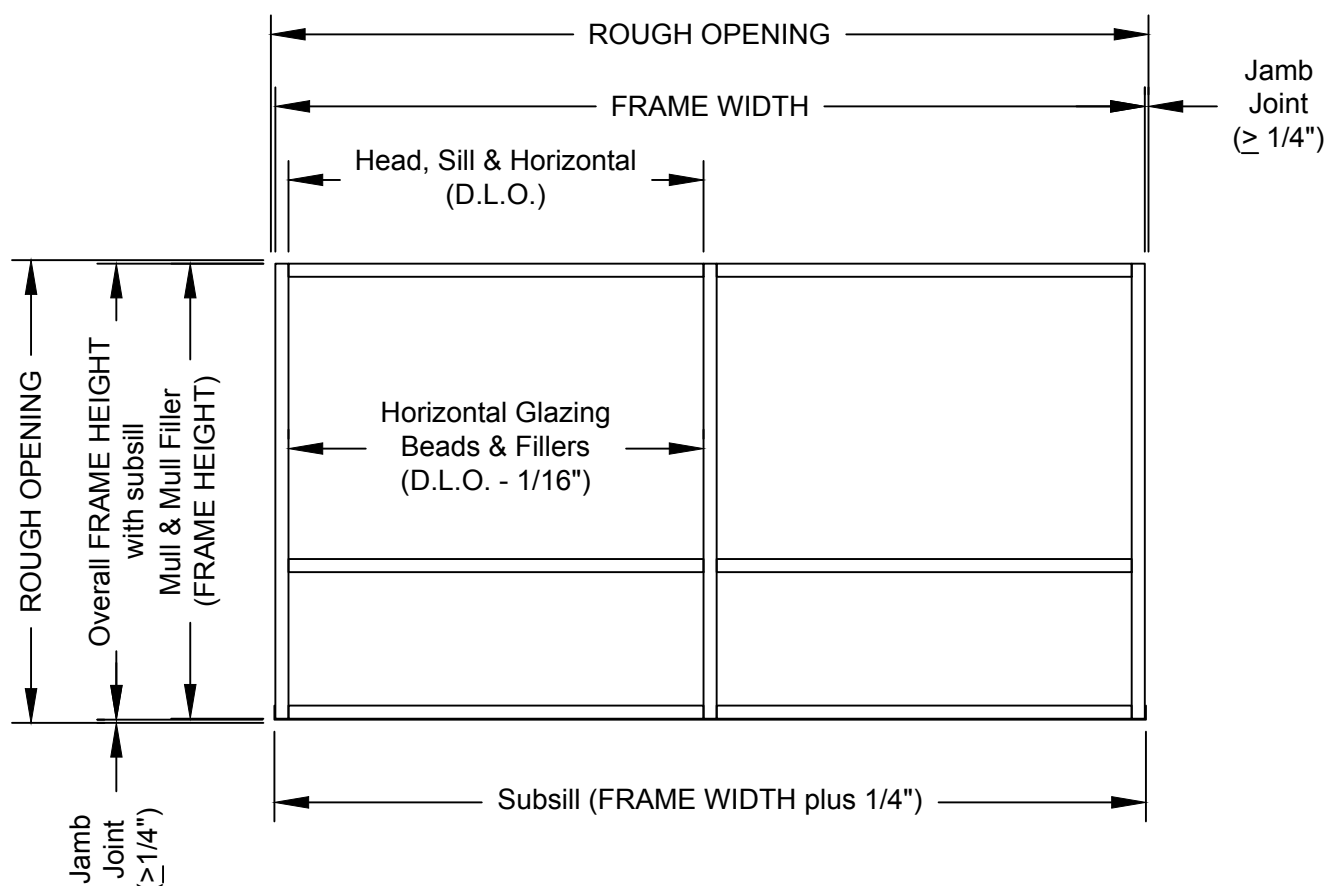
Subsill or Sill Receptor	FRAME WIDTH plus 1/4"
Mullion & Mullion Fillers	FRAME HEIGHT
Horizontal, Sill & Head	Daylight Opening (D.L.O.)
Horizontal Glazing Beads & Fillers	D.L.O. minus 1/16"

Accessories:

Horizontal Gaskets	D.L.O. plus 3/8" per foot
Vertical Gaskets	D.L.O. plus 1" plus 3/8" per foot

Other Members (as required):

Horizontal Glazing Adaptors	D.L.O. minus 1/16"
Vertical Glazing Adaptors	D.L.O. plus 7/8"
Door Jamb	ROUGH OPENING minus Head Joint



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FRAME FABRICATION (SSG Installations)

Measure ROUGH OPENING to determine FRAME WIDTH and FRAME HEIGHT dimensions.
Allow 1/4" min clearance for shimming and caulking at sill and jambs. The head joint requires a min of 3/8". Reference page 5 for elevation and terminology.

Cut material to size per dimensions given below:

Frame Members:

Subsill or Sill Receptor
Mullions & Jamb for Std Subsill (see Detail 'A')
Mullions & Jamb for Low Profile Subsill (see Detail 'B')
Head & Sill
Horizontal
Horizontal Glazing Beads & Fillers

FRAME WIDTH plus 1/4"
Overall FRAME HEIGHT minus 3 1/2"
Overall FRAME HEIGHT minus 3"
FRAME WIDTH
Daylight Opening (D.L.O.)
D.L.O. minus 1/16"

Accessories:

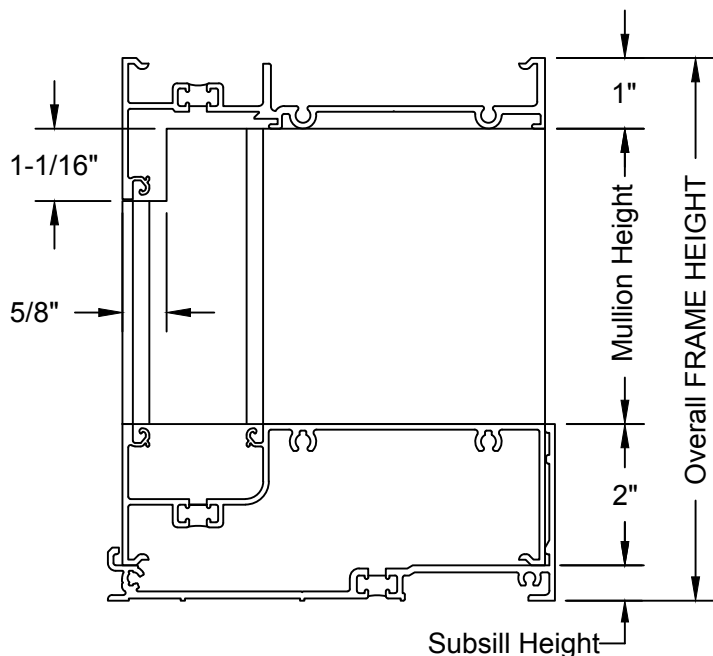
Head & Sill Exterior Gaskets
Head & Sill Interior Gaskets
Horizontal Gaskets
Vertical Gaskets

D.L.O. plus 1" plus 3/8" per foot
D.L.O. plus 3/8" per foot
D.L.O. plus 3/8" per foot
D.L.O. plus 1" plus 3/8" per foot

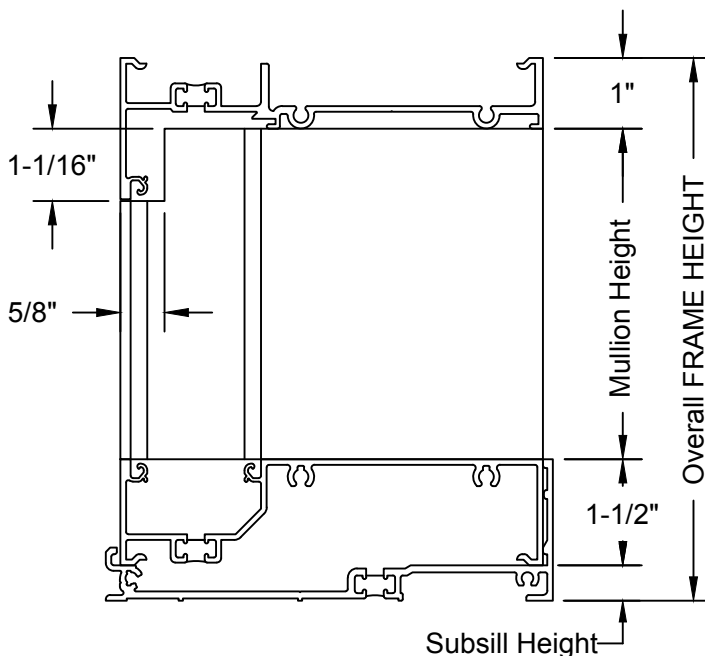
Other Members (as required):

Horizontal Glazing Adaptors
Vertical Glazing Adaptors
Door Jamb

D.L.O. minus 1/16"
D.L.O. plus 7/8"
ROUGH OPENING minus Head Joint



Detail 'A'
Standard Subsill

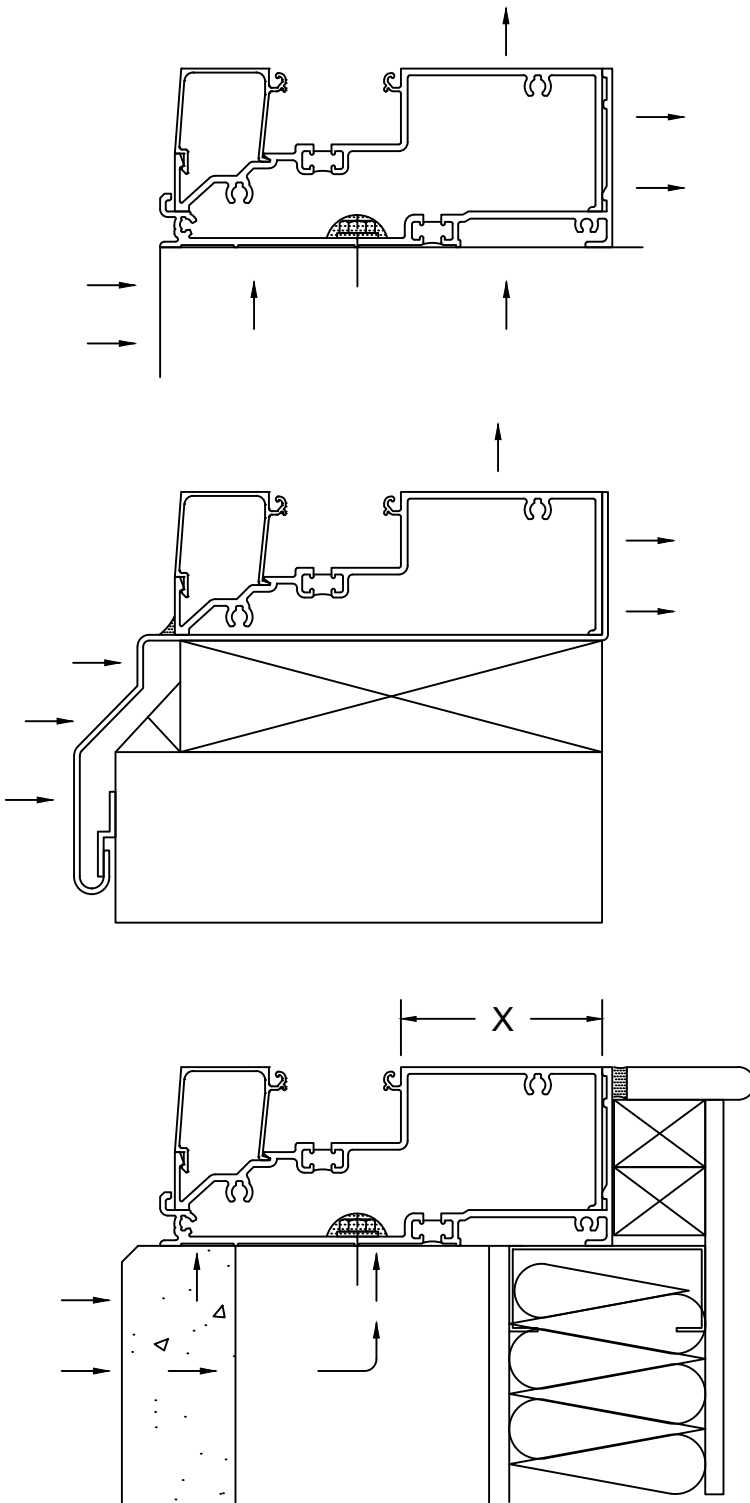


Detail 'B'
Low Profile Subsill
(8 PSF Water Max)

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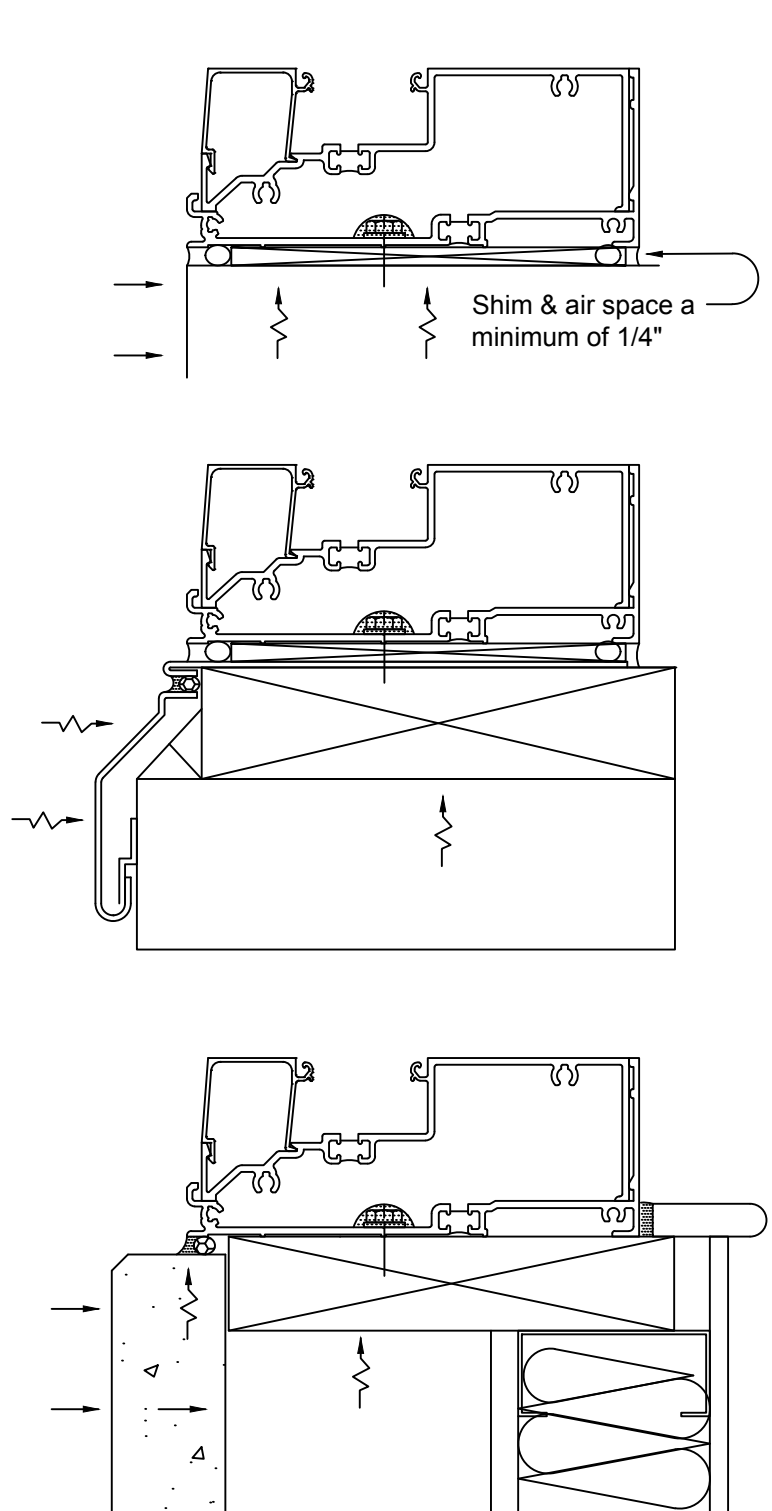
INSTALLATION FOR THERMAL PERFORMANCE

NOT RECOMMENDED



Not enough metal showing at 'X'

PREFERRED



To derive the greatest benefit from your storefront installation,
we recommend you review the details above.

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INSTALLATION INSTRUCTIONS FOR SILL RECEPTOR

Install Sill Receptor and End Dam

NOTE: 3/8" minimum caulk joint is required at the head condition to allow frame to be installed.

Anchor sill receptor within 4" from either side of intermediate mullions. Anchor size and frequency should be determined by structural requirements. Cap seal anchors as shown.

AN-50-01
end dam

Seal end dam
to sill receptor

FG-6413

Shim under
FG-6413

Drill 5/16" dia weep holes;
locate at mid-lite

Install Splice Sleeve

NOTE: Sill receptor must be installed level.

FG-6416-01

Seal with a non-skinning
non-hardening sealant.
Fill break in flashing
and under splice.

1/4" nominal

Seal up back leg of sill
receptor and marry with
perimeter seal

Seal sill receptor
vertical splice joint

Just prior to frame installation,
apply continuous sealant along
groove in front and back legs of
sill receptor and around joint as
shown. Immediately install frame
into sill receptor.

Set front of frame
in sill receptor and
tilt back into place

Clean excess
sealant away

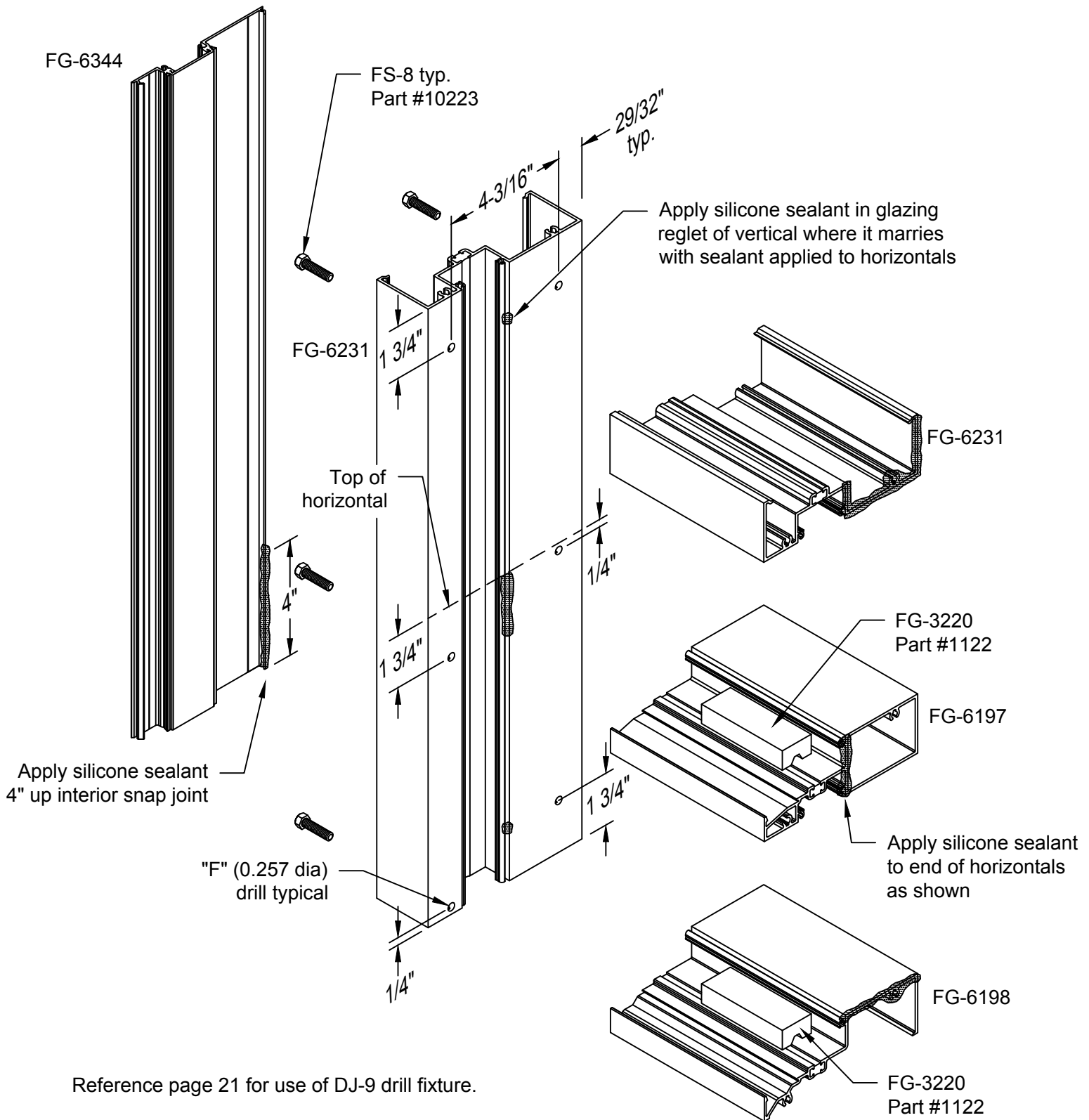
Interior perimeter seal
at sill is optional and for
cosmetic purposes only

NOTE:

1. Sill receptor shall be installed level and should never tilt towards interior of building.
2. The FG-6413 sill receptor is designed to withstand a maximum end reaction of 600 lbs.
3. Splice the sill receptor at mid-lite.
4. Locate splice joint at distance of no more than every 12 feet.

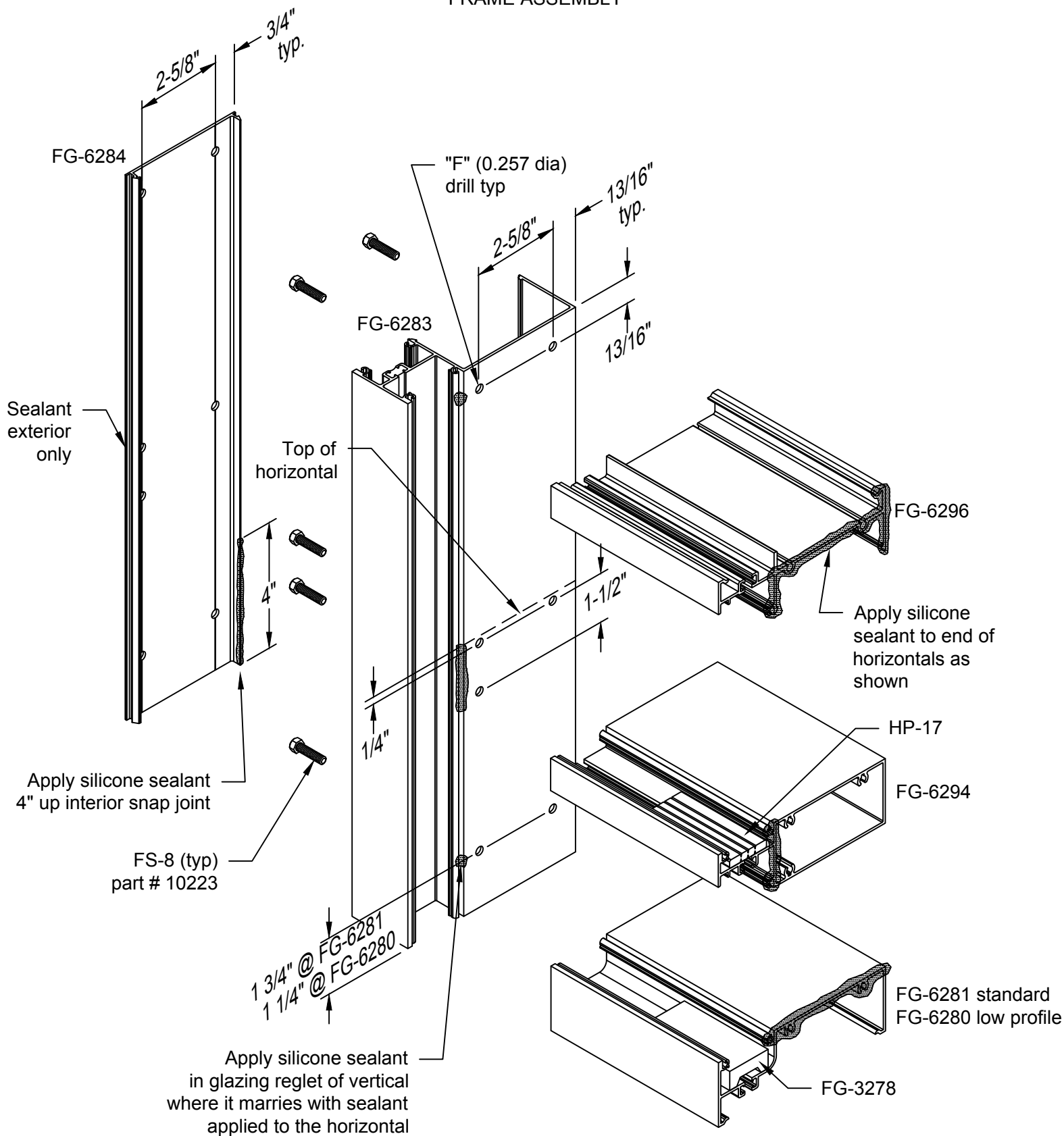
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OUTSIDE GLAZED, CENTER SET FRAME ASSEMBLY



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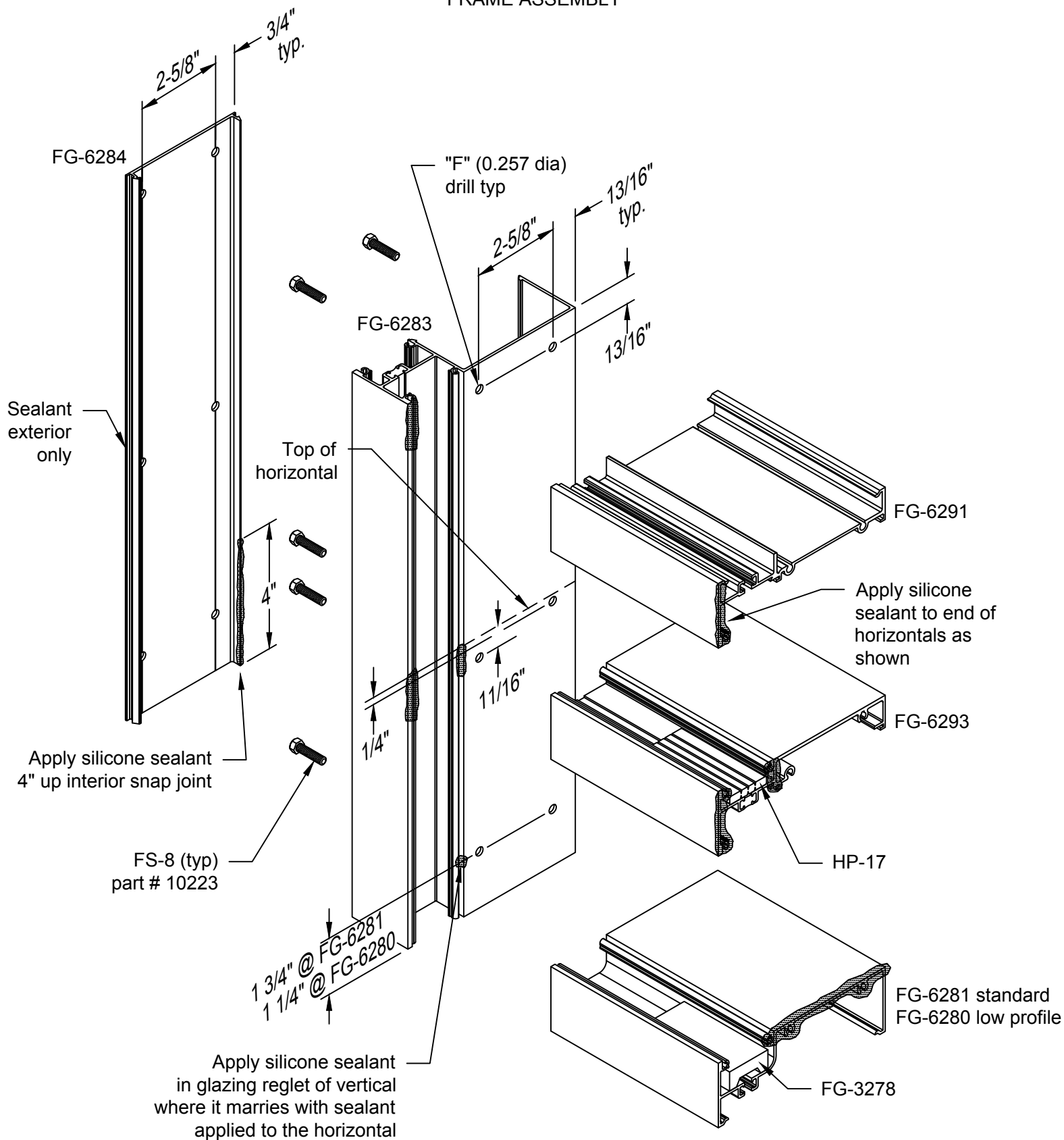
OUTSIDE GLAZED, FRONT SET FRAME ASSEMBLY



Reference page 22 for use of DJ-10 drill fixture.

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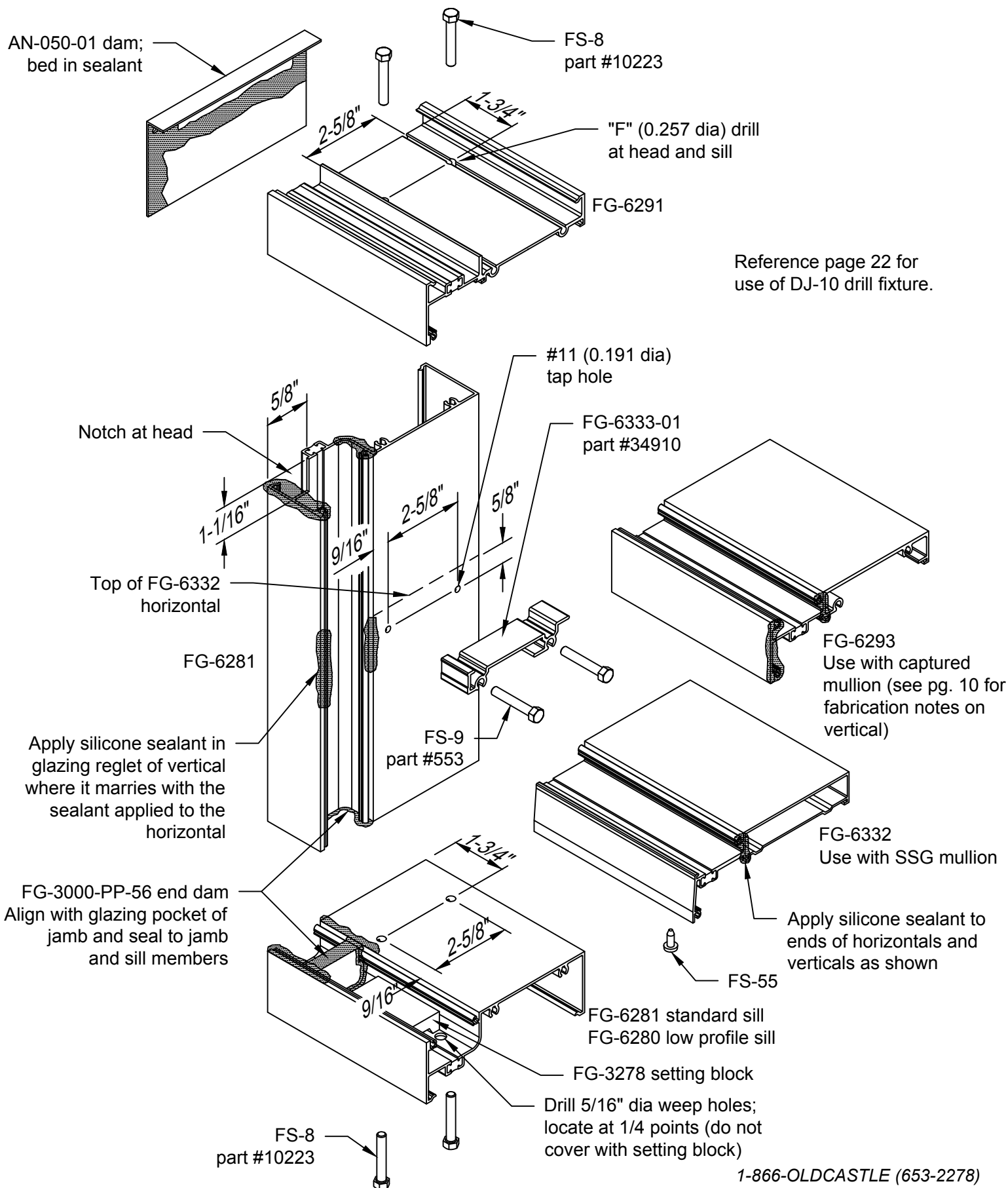
INSIDE GLAZED, FRONT SET FRAME ASSEMBLY



Reference page 22 for use of DJ-10 drill fixture.

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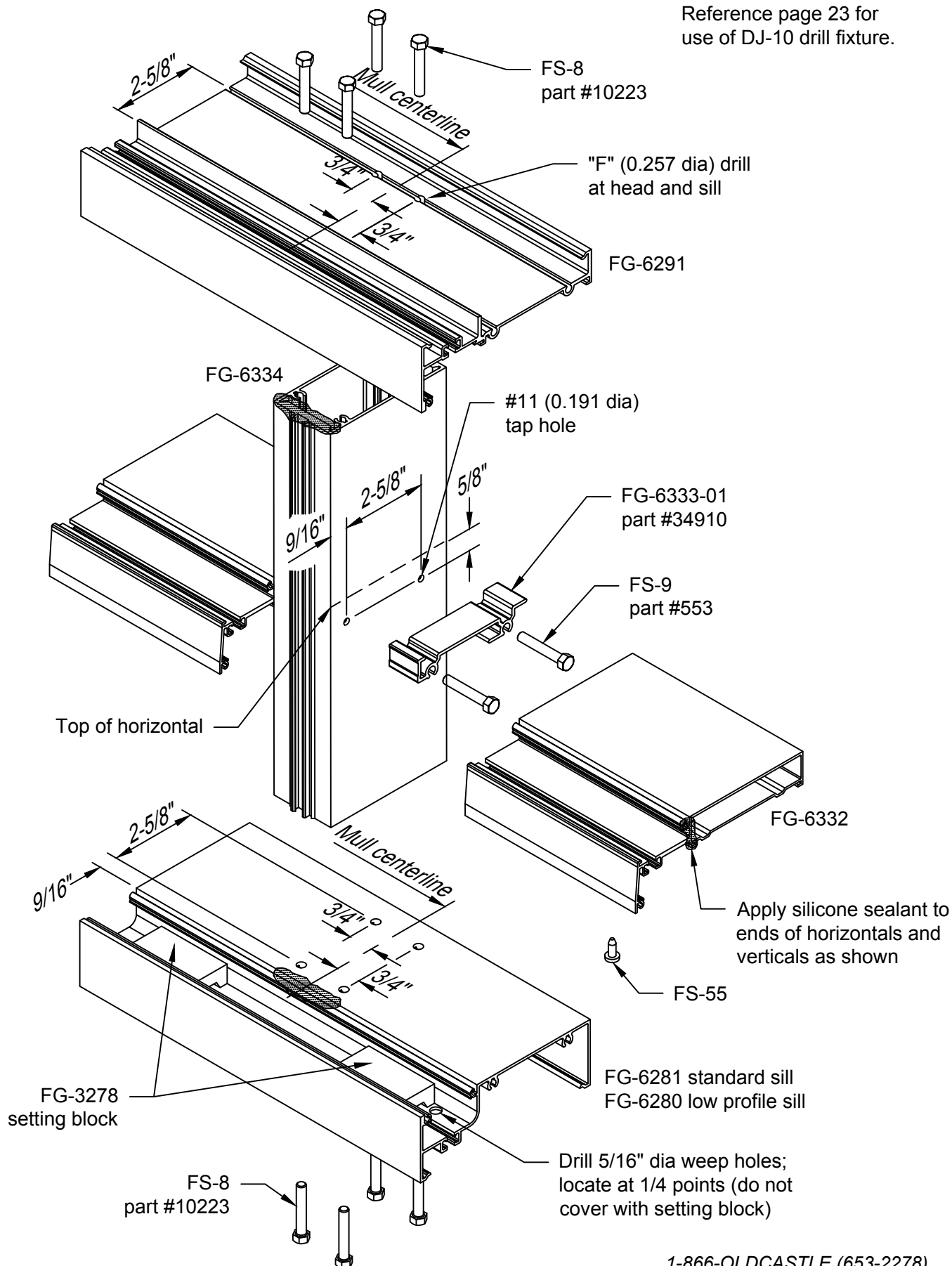
INSIDE GLAZED, FRONT SET JAMB ASSEMBLY FOR SSG SYSTEM



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INSIDE GLAZED, FRONT SET JAMB ASSEMBLY FOR SSG SYSTEM

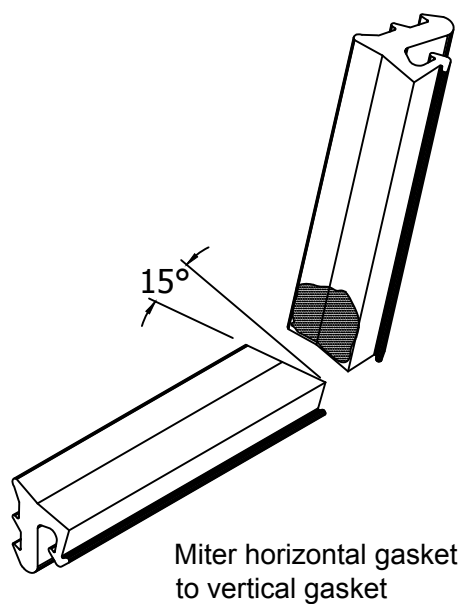
Reference page 23 for
use of DJ-10 drill fixture.



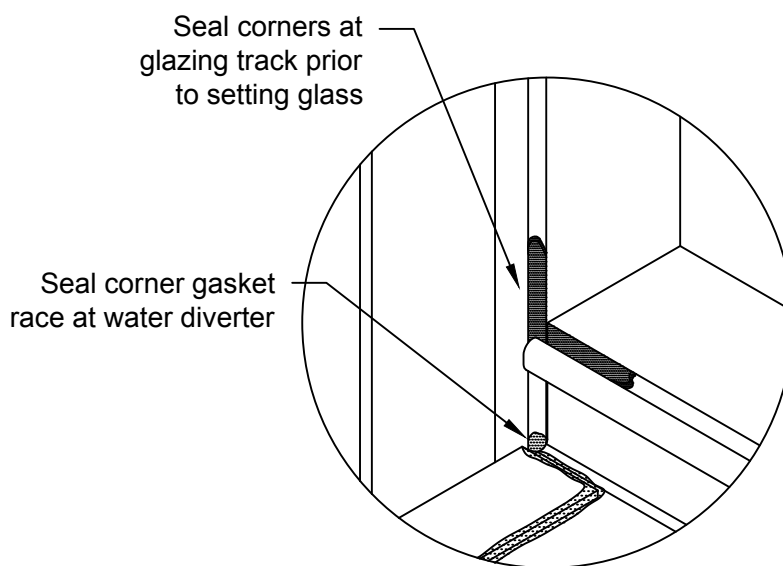
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OUTSIDE GLAZING GUIDELINES

1. Remove gaskets from roll and allow to relax overnight. All gaskets to be cut per sizing on page 4 plus 3/8" per foot.
2. Vertical gaskets run through horizontal gaskets. Horizontal gaskets should be mitered on ends as shown in Detail "A".
3. Install interior gaskets prior to glazing. Corners of interior gaskets to be set in sealant (Detail "B") and sealed just prior to setting glass (Detail "A"). NOTE: Clean gaskets and surfaces with isopropyl alcohol prior to sealing corners.
4. Locate setting blocks at either 1/4 points or 1/8 points, dependent on the size of the glass.
5. Glass bite at typical members is 7/16". At SSG verticals glass bite is 3/4".
6. Glaze openings from bottom to top. Install water diverters in horizontal above after lite below is in position.
7. Water diverters (FG-1000-FP-2) must be located on each end of horizontals and set in sealant.
8. When installing glass, first wet the top of the setting blocks with soapy water. Once glass is set in place, push glass against interior gasket at the setting block locations. Failure to do so may cause diagonal cracks towards setting blocks due to glass bending while installing the gaskets in the corners.



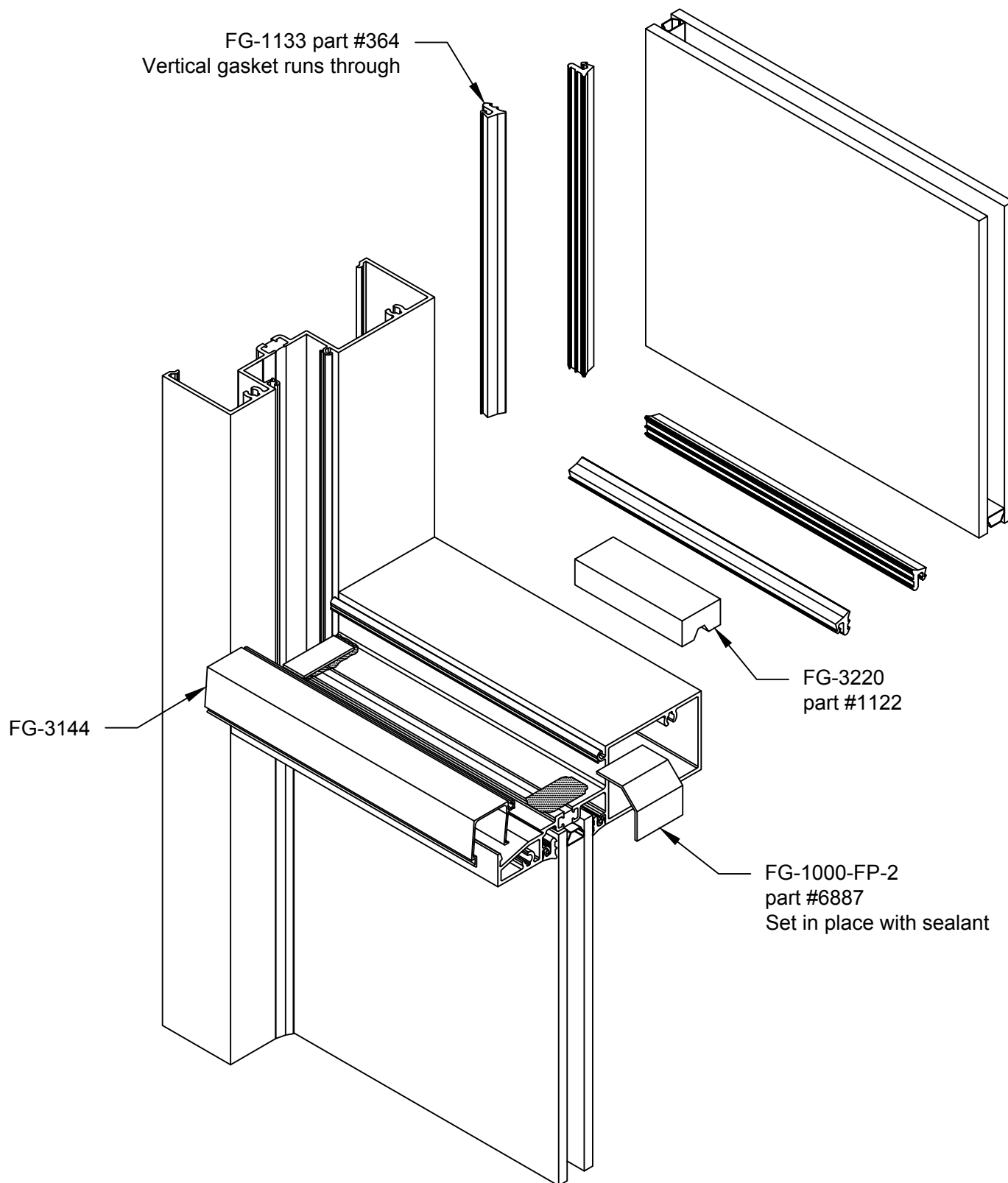
DETAIL "A"



DETAIL "B"

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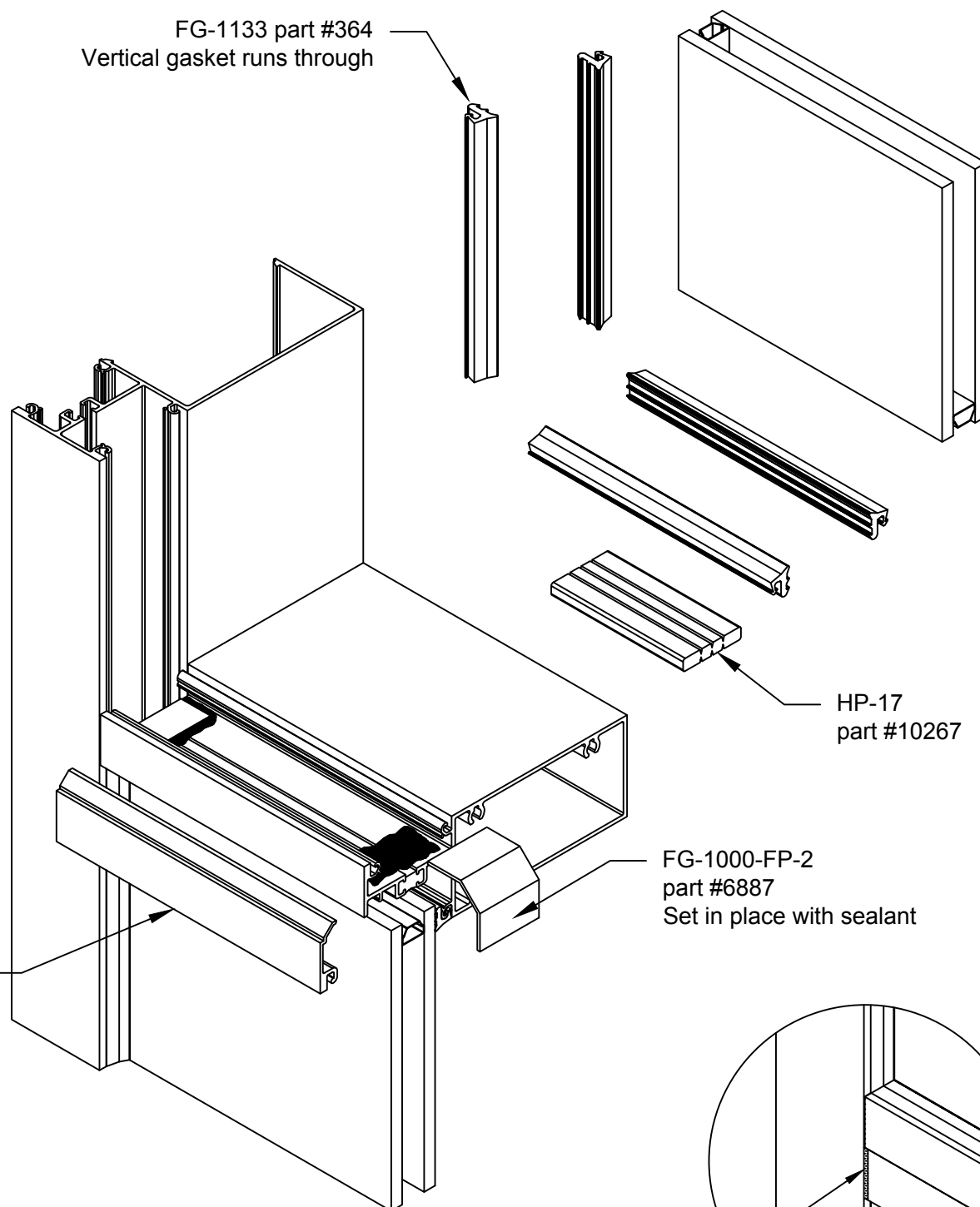
OUTSIDE GLAZED, CENTER SET GLAZING DETAIL



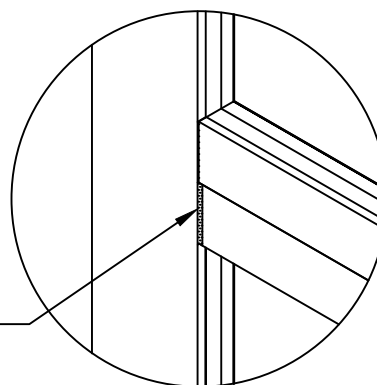
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OUTSIDE GLAZED, FRONT SET GLAZING DETAIL

FG-1133 part #364
Vertical gasket runs through



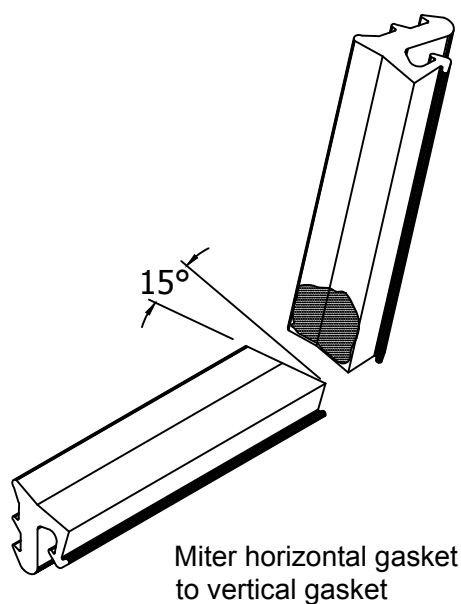
SEAL ENDS OF FG-3295
GLASS STOP AT HEAD
AND HORIZONTALS



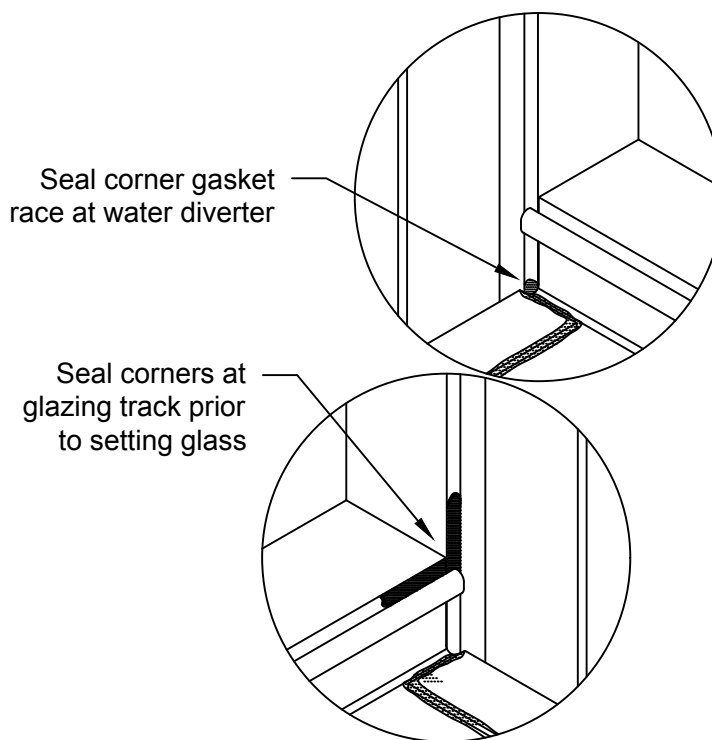
SERIES 6000 THERMAL MULTIPLANE INSTALLATION MANUAL

INSIDE GLAZING GUIDELINES

1. Remove gaskets from roll and allow to relax overnight. All gaskets to be cut per sizing on page 4 plus 3/8" per foot.
2. Vertical gaskets run through horizontal gaskets. Horizontal gaskets should be mitered on ends as shown in Detail "A".
3. Install exterior gaskets prior to glazing. Corners of exterior gaskets to be set in sealant (Detail "B") and sealed just prior to setting glass (Detail "A"). NOTE: Clean gaskets and surfaces with isopropyl alcohol prior to sealing corners.
4. Locate setting blocks at either 1/4 points or 1/8 points, dependent on the size of the glass.
5. Glass bite at typical members is 7/16". At SSG verticals glass bite is 3/4".
6. Glaze openings from bottom to top. Install water diverters in horizontal above after lite below is in position.
7. Water diverters (FG-1000-FP-2) must be located on each end of horizontals and set in sealant.
8. When installing glass, first wet the top of the setting blocks with soapy water. Once glass is set in place, push glass against interior gasket at the setting block locations. Failure to do so may cause diagonal cracks towards setting blocks due to glass bending while installing the gaskets in the corners.



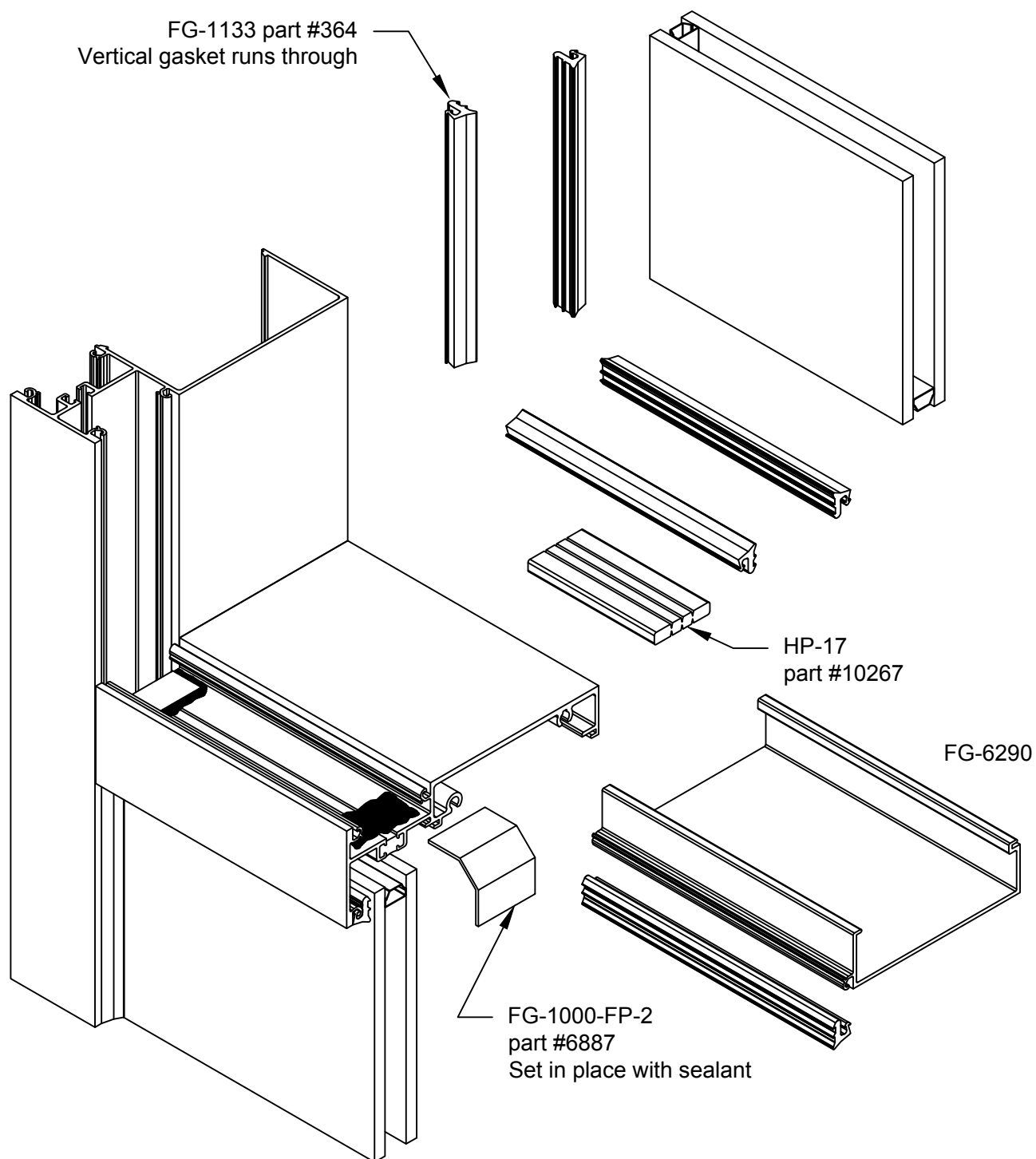
DETAIL "A"



DETAIL "B"

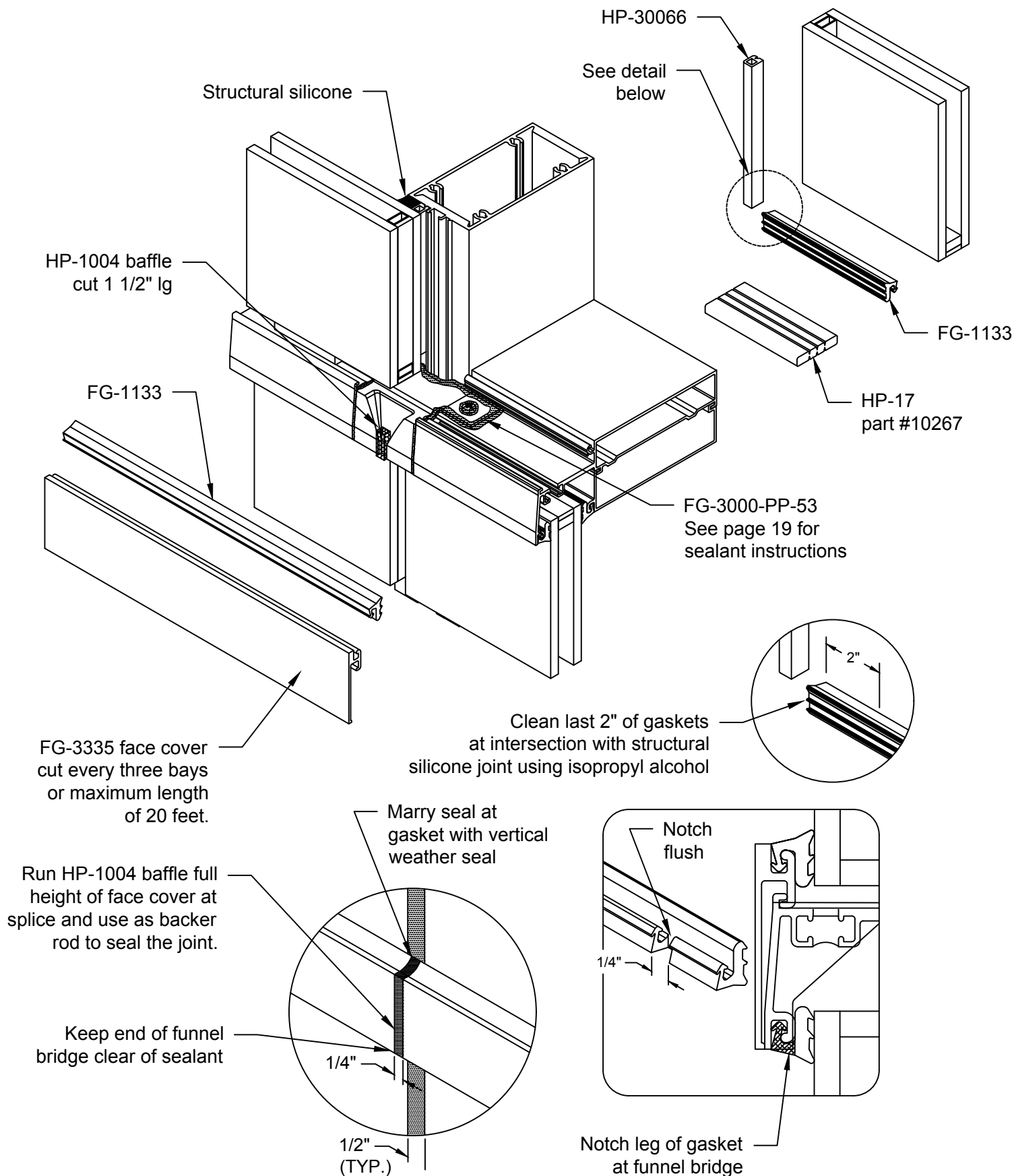
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INSIDE GLAZED, FRONT SET GLAZING DETAIL



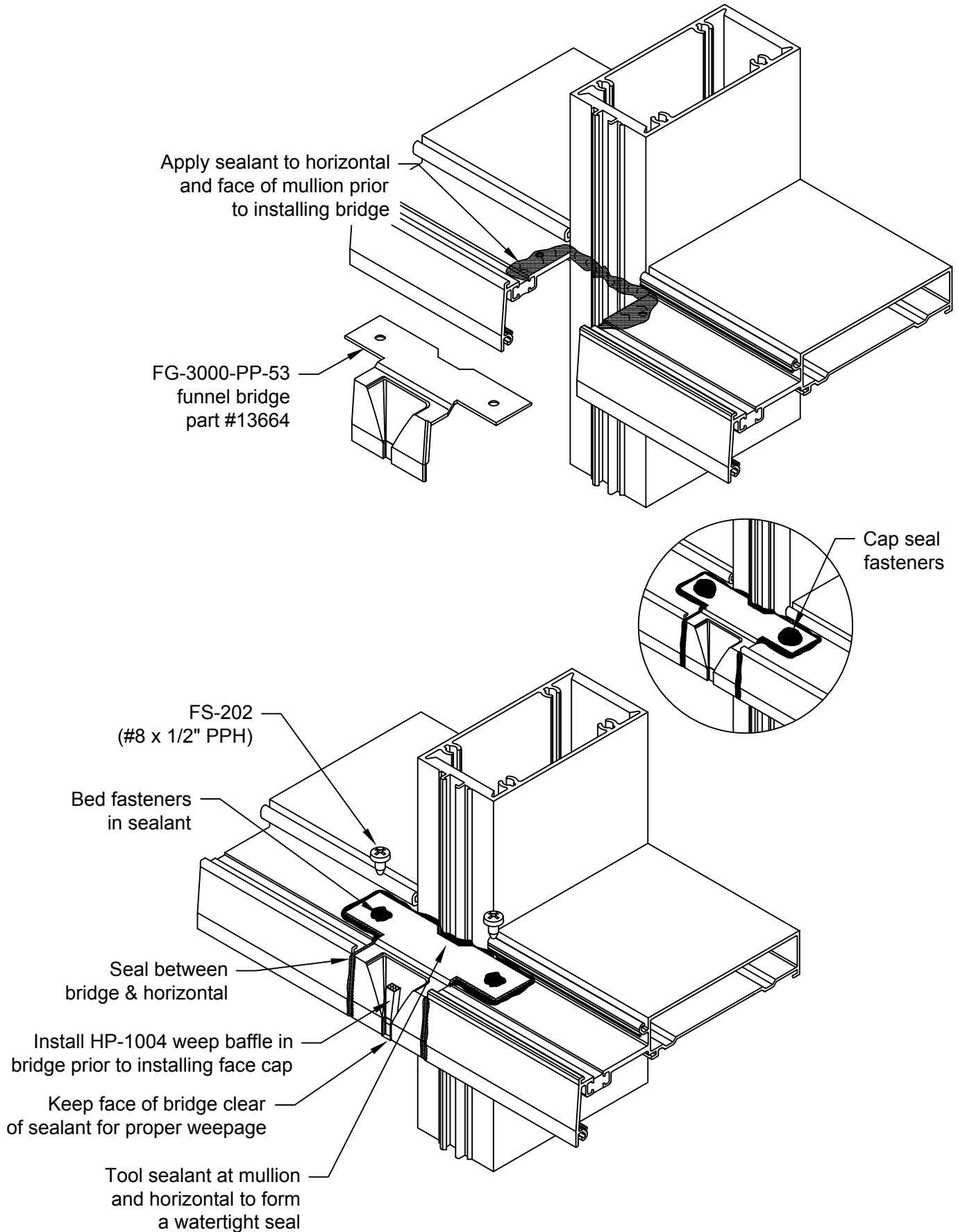
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INSIDE GLAZED, FRONT SET SSG GLAZING DETAIL



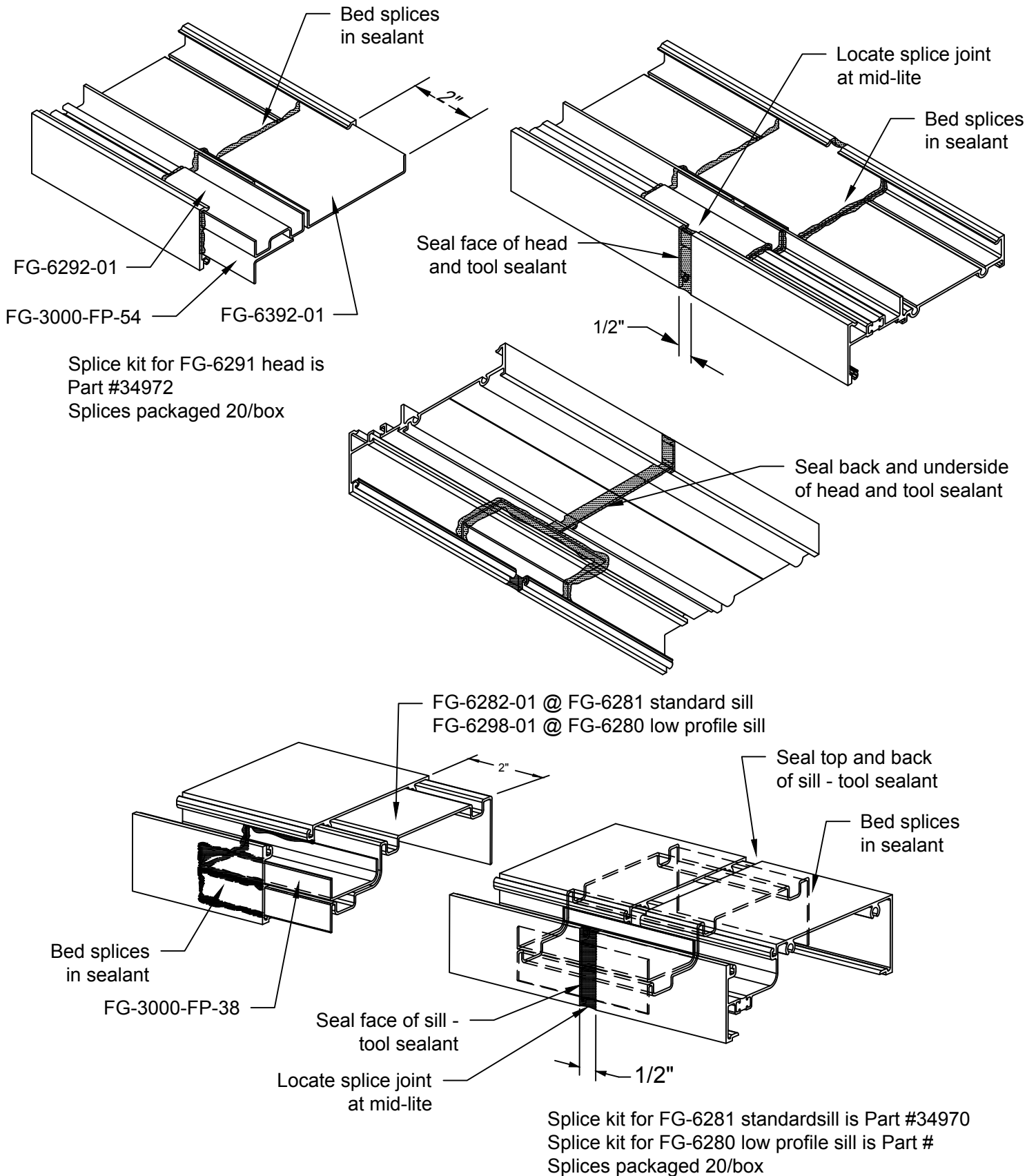
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BRIDGE INSTALLATION FOR MULTIPLANE SSG



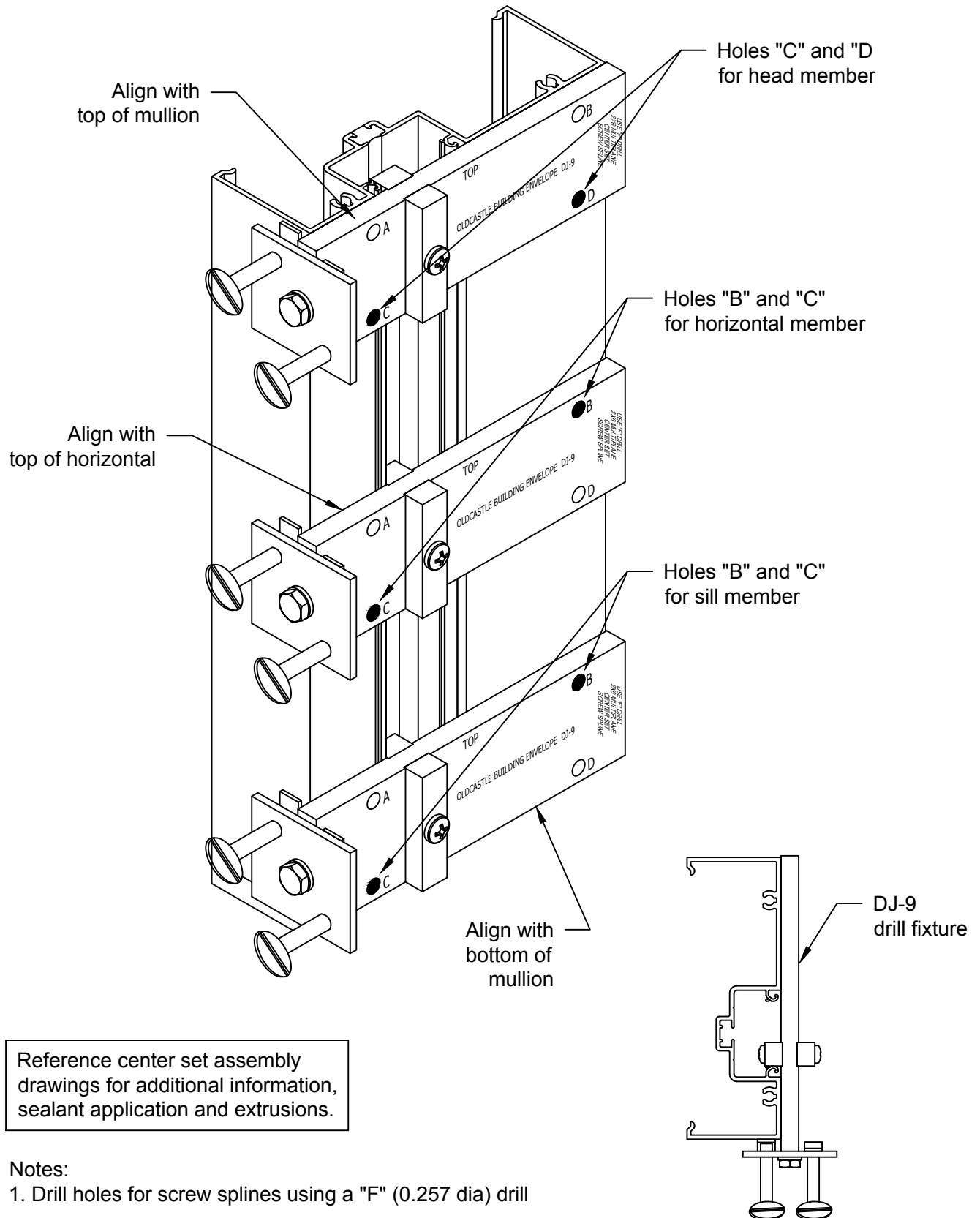
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HEAD & SILL SPLICE INSTALLATION FOR SSG SYSTEM



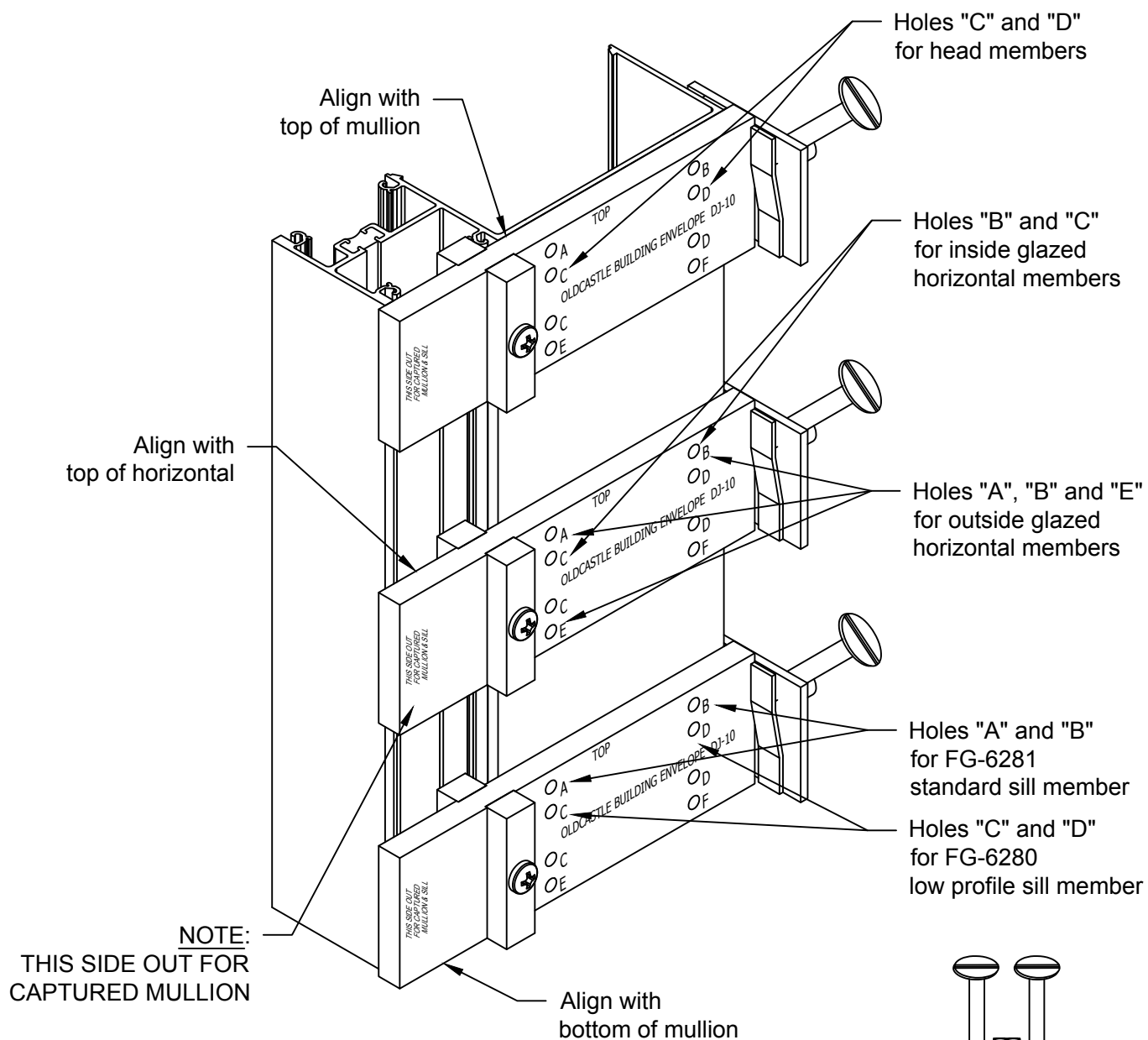
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OUTSIDE GLAZED, CENTER SET MULLION FABRICATION USING DRILL FIXTURE



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FRONT SET MULLION FABRICATION USING DRILL FIXTURE



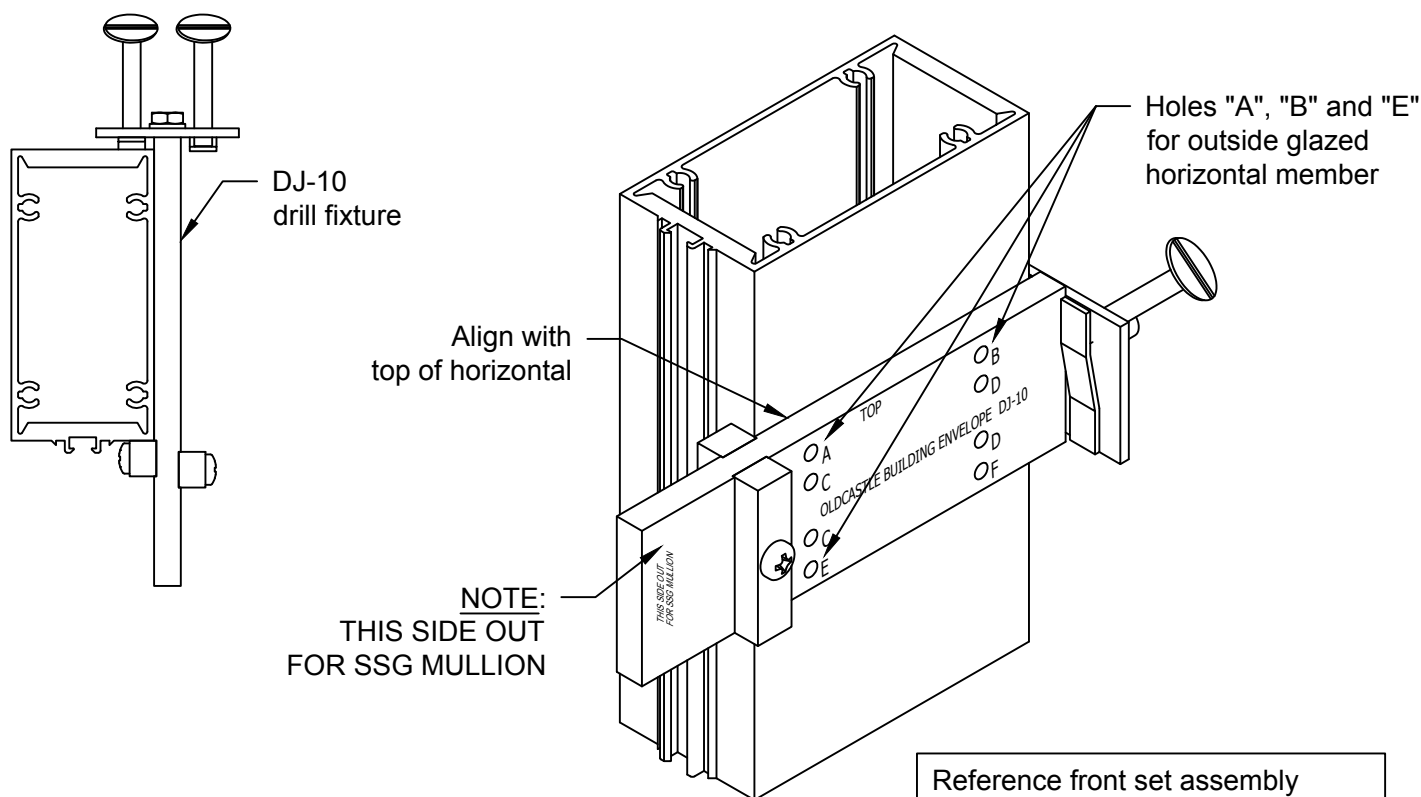
Reference front set assembly drawings for additional information, sealant application and extrusions.

Notes:

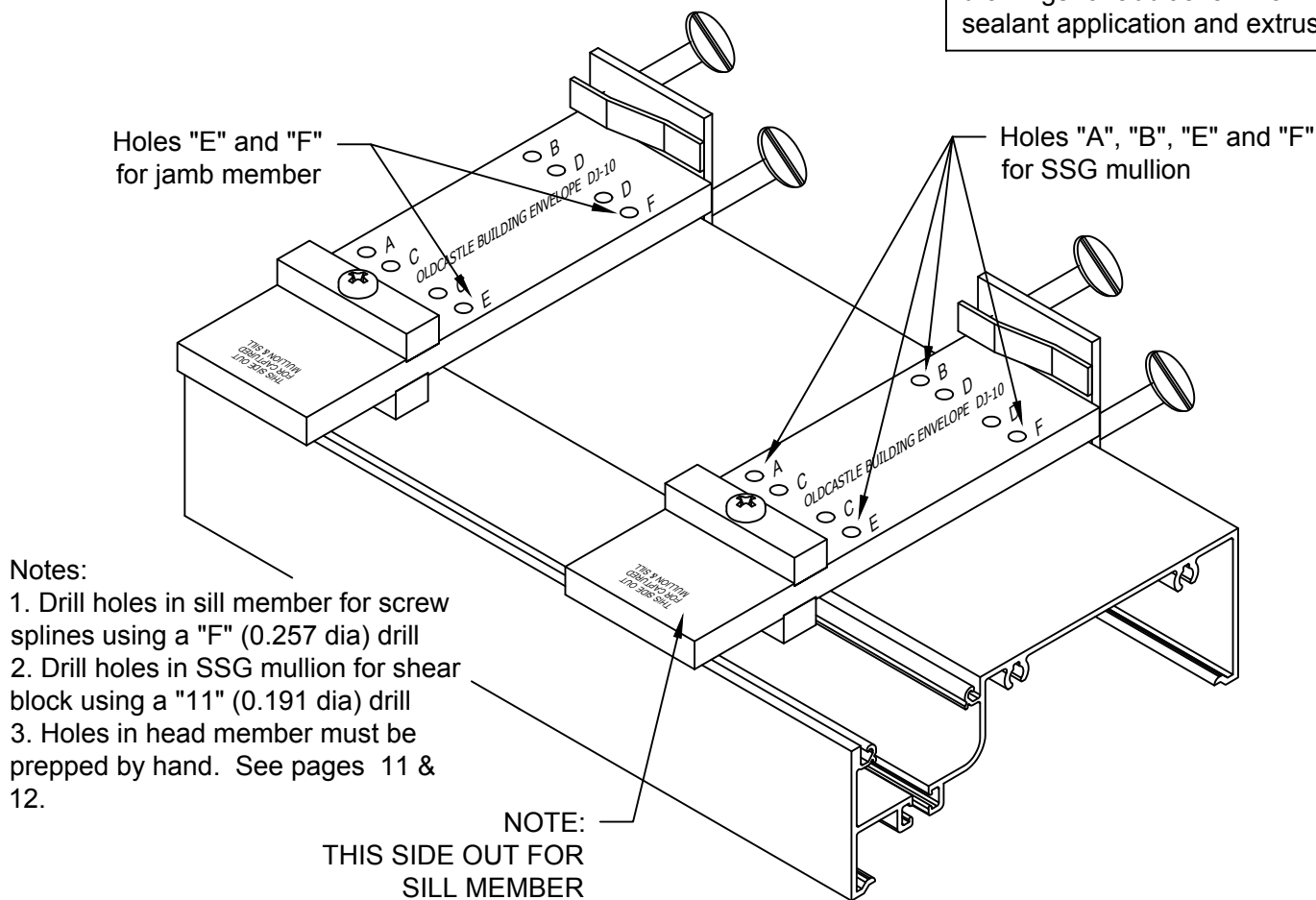
1. Drill holes for screw splines using a "F" (0.257 dia) drill

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SSG MULLION FABRICATION USING DRILL FIXTURE



Reference front set assembly drawings for additional information, sealant application and extrusions.



Notes:

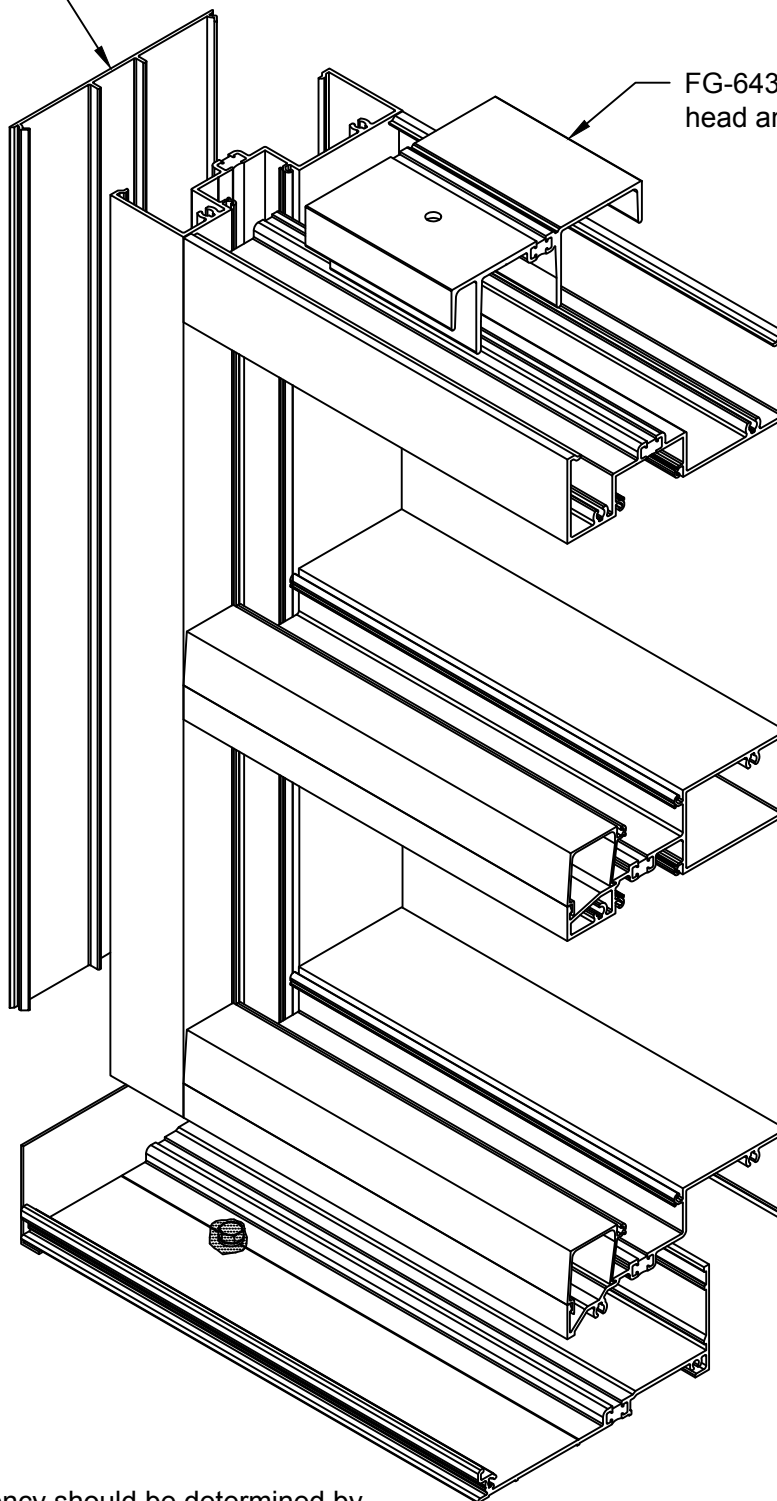
1. Drill holes in sill member for screw splines using a "F" (0.257 dia) drill
2. Drill holes in SSG mullion for shear block using a "11" (0.191 dia) drill
3. Holes in head member must be prepped by hand. See pages 11 & 12.

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FRAME INSTALLATION

FG-6188 PVC filler
may be used to improve
installation of perimeter
seals (optional)

FG-6430-01
head anchor

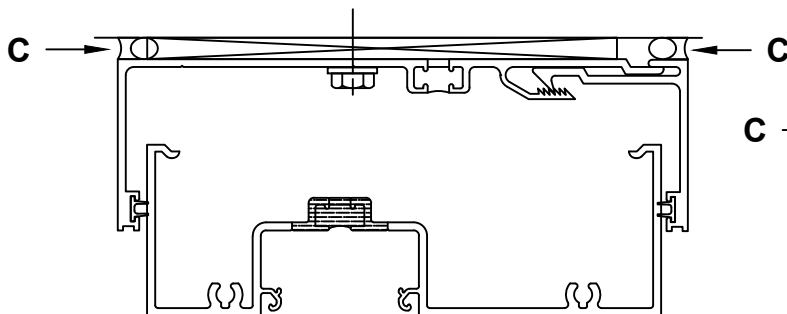


NOTES:

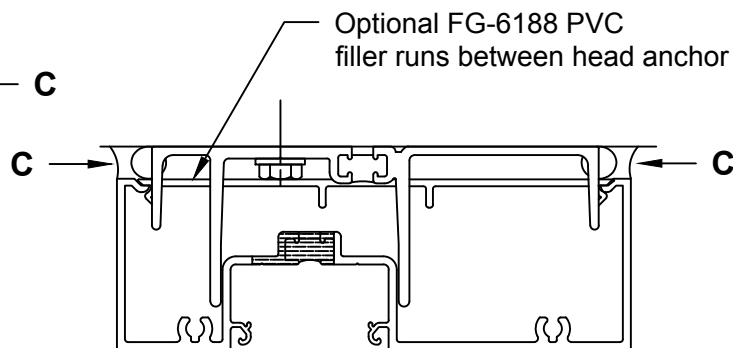
1. Anchor size and frequency should be determined by structural requirements.
2. Sill and head anchors should be located so that the anchor is not more than 4" away from each side of vertical mullion.
3. Assembly of frames without flashing is not recommended.
4. Assembly of frames using a non-thermal or sheet metal flashing will result in loss of thermal continuity and is not recommended.
5. Do not anchor frame through the vertical leg of subsill.

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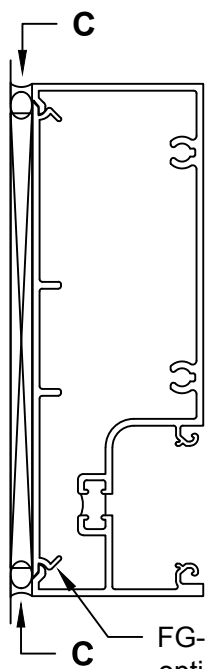
OUTSIDE GLAZED ANCHORAGE & PERIMETER SEAL



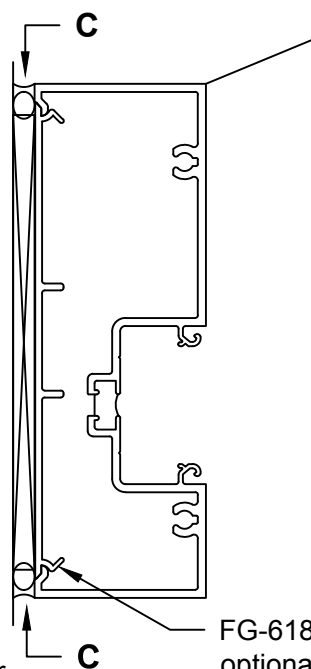
Optional MO-1188/MO-244
Head receptor
Maximum end reaction is 450 lbs



Optional FG-6188 PVC
filler runs between head anchor
FG-6430-01 head anchor
for center set system only
Maximum end reaction is 600 lbs



FG-6188
optional PVC filler
for sealant backer



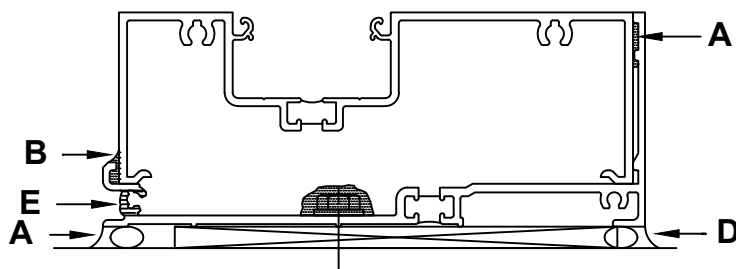
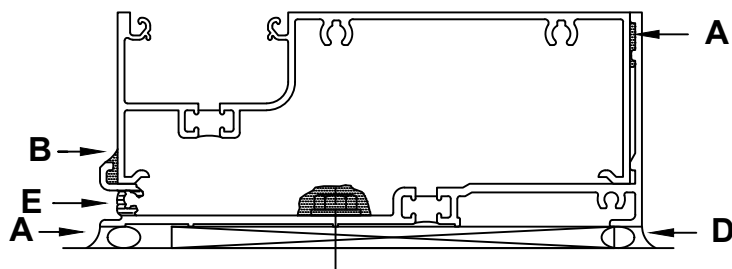
FG-6188
optional PVC filler
for sealant backer

Apply sealant along length of sill flashing at point **(A)**.

Once the frame is secured, apply a fillet seal between the sill flashing and the front of the sill member **(B)**.

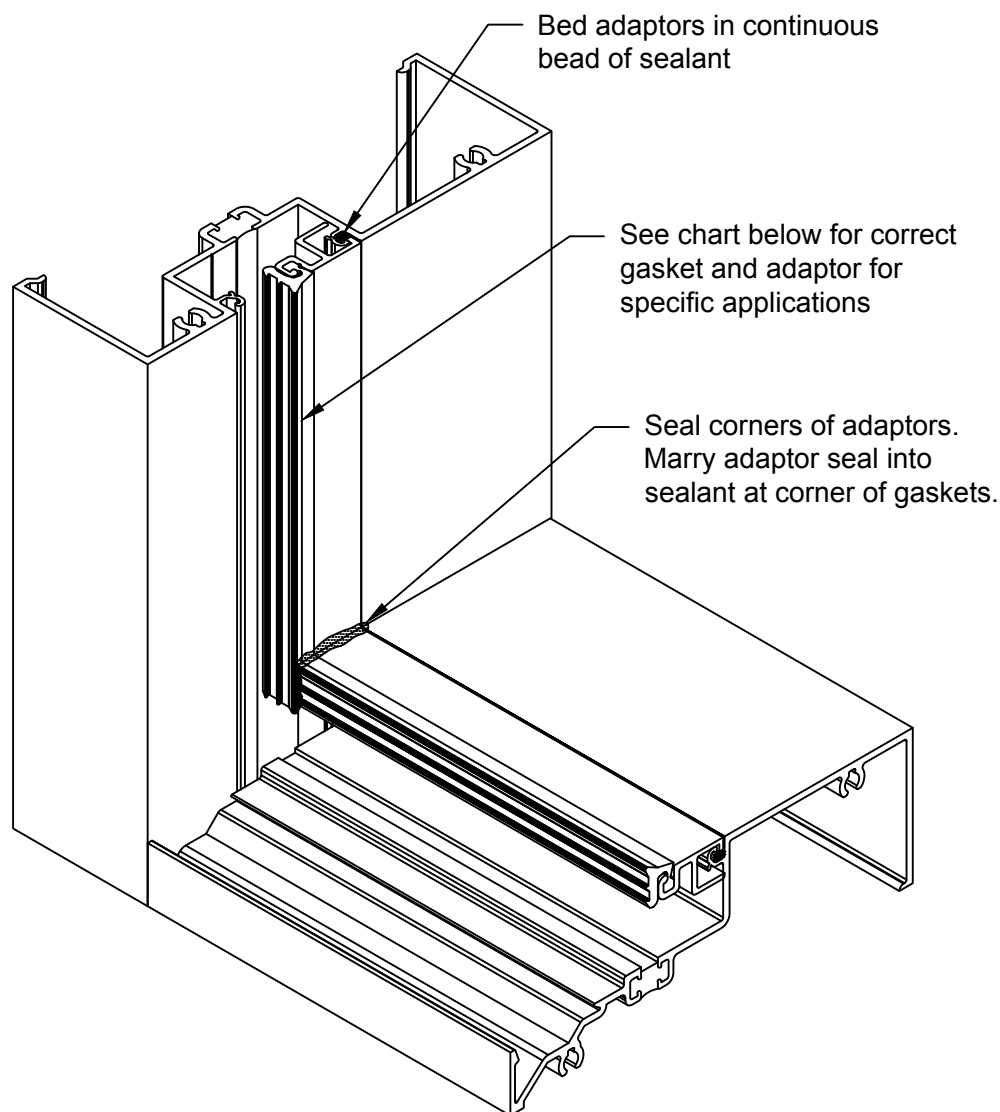
The quality of the inside and outside perimeter seals **(C)** may be improved by using FG-6188 PVC filler. The part may be used in full lengths or cut into pieces to provide support for the backer rod regardless of joint size. Interior perimeter seal at the sill **(D)** is optional and for cosmetic purposes only.

NOTE:
5/16" weep holes
required in flashing **(E)**
at centerline of D.L.O.



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GLAZING ADAPTOR INSTALLATION



NOTE:

Adaptors should be installed on interior side of all glazing options.

Glass	Adaptor	Gaskets
1/4"	FG-3194 (FG-3594 for FG-6344)	FG-1133 Both Sides
5/16"	FG-3236 (FG-3536 for FG-6344)	FG-5125 Both Sides
3/8"	FG-3236 (FG-3536 for FG-6344)	FG-1133 & FG-5125
7/16"	FG-3236 (FG-3536 for FG-6344)	FG-1133 Both Sides
1/2"	FG-3237 (FG-3537 for FG-6344)	FG-5125 Both Sides
9/16"	FG-3237 (FG-3537 for FG-6344)	FG-1133 & FG-5125

Glass	Adaptor	Gaskets
5/8"	FG-3237 (FG-3537 for FG-6344)	FG-1133 Both Sides
11/16"	FG-3237 (FG-3537 for FG-6344)	FG-1133 & FG-1134
3/4"	FG-3237 (FG-3537 for FG-6344)	FG-1134 Both Sides
13/16"	None	FG-1133 & FG-3129
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

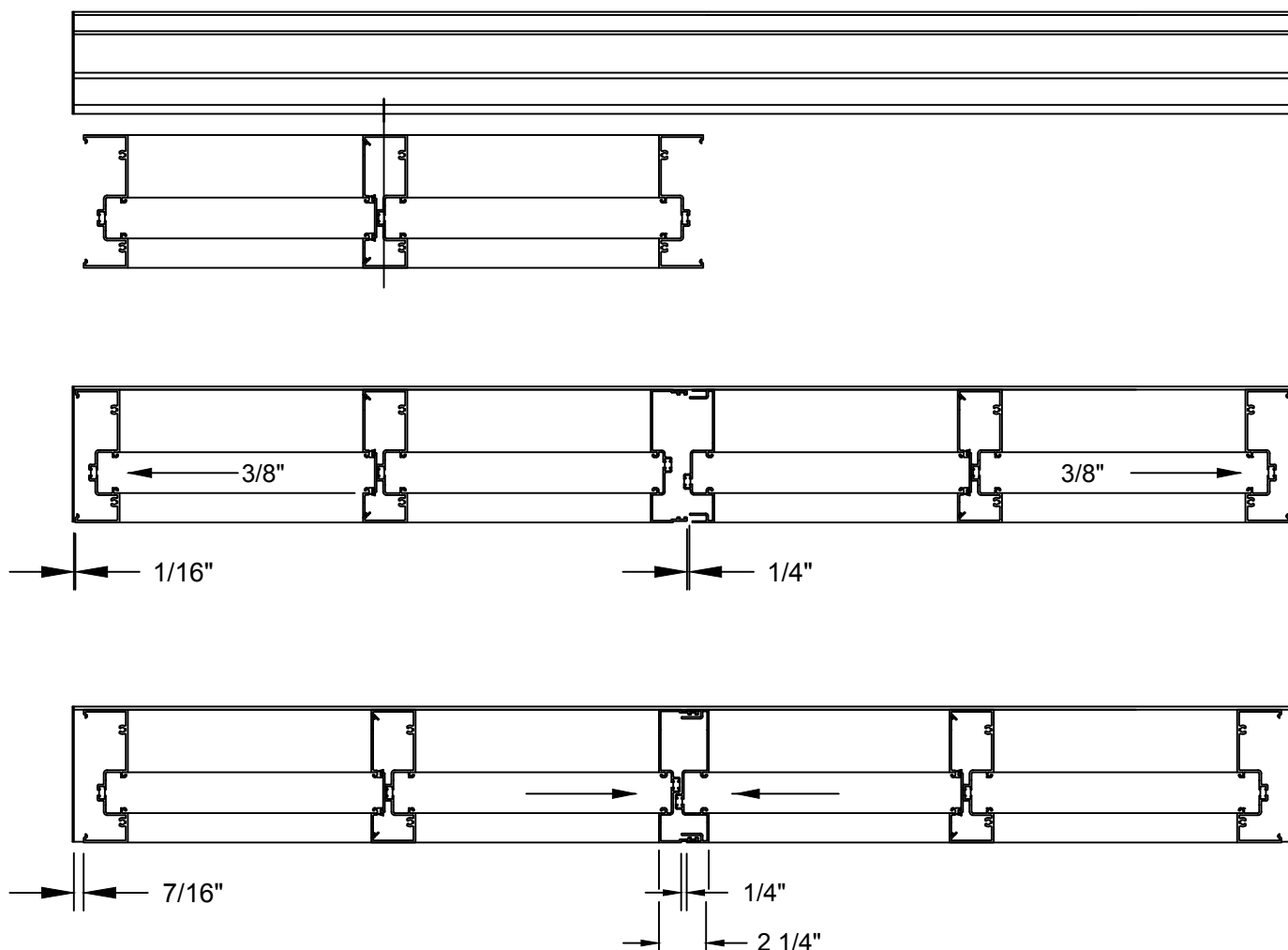
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EXPANSION MULLION INSTALLATION

The example below shows installation of the center set system, options for front or back set are also available. Please reference price catalog for specific extrusions and anchors required for your installation. Please note the locations of various seals and insure proper locations of these seals when installing typical runs and expansion sections of each of these systems. These seals are shown in the sub-sill installation and assembly sections of this manual.

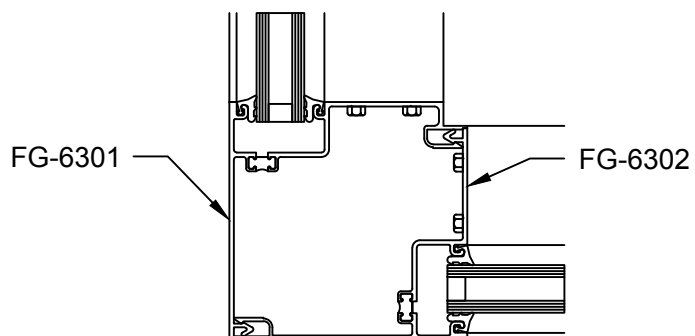
The sub-sills for these products are designed so that sill anchors may be properly sealed prior to frame installation. The frame is either installed over the hook-in anchors or dropped into the sill receptor. This prevents any additional fasteners from penetrating the sill and potentially causing leaks from under the sill. Be sure to properly cap seal all sill anchors prior to beginning installation of frames.

Multiple units may require the use of an expansion mullion if total run exceeds 24 feet in length. When elevation exceeds the 24 foot limit, locate thermal mullions at a distance of no more than every 20 feet. Locate splice in sub-sill at a distance of no more than every 12 feet. A minimum of 7/16" clearance between the jamb and sill end dam must be provided at each end of units when using expansion mullions. This will allow the minimum 3/8" clearance to move the units sideways so that the second unit may be rotated into position and interlocked into first unit. Once in position units should be centered into opening to provide equal joints at the jambs. Oldcastle BuildingEnvelope™ recommends the use of the FG-6188 PVC filler in the jambs and head to improve the perimeter seal.

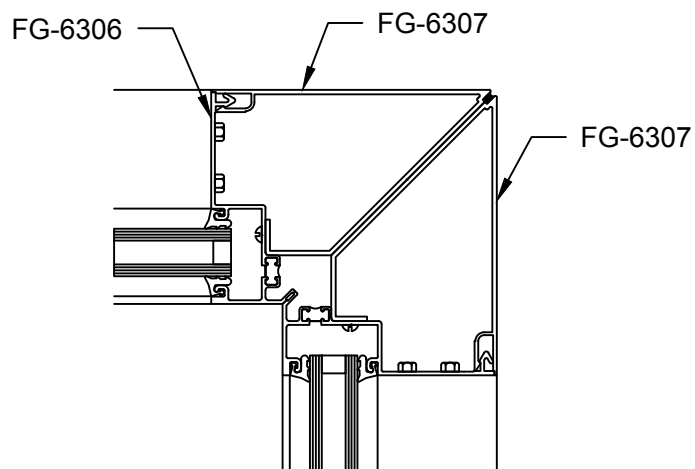


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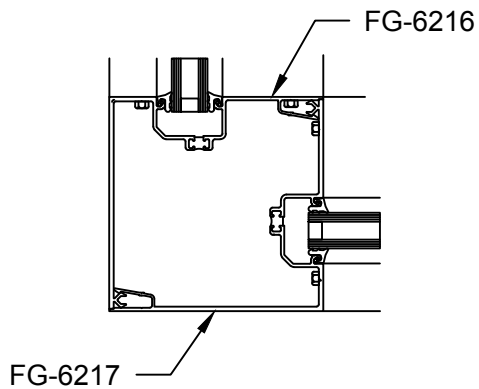
CORNER DETAILS



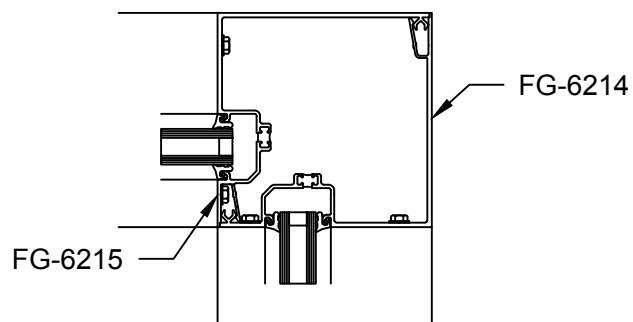
O.S. 90 Front Set



I.S. 90 Front Set



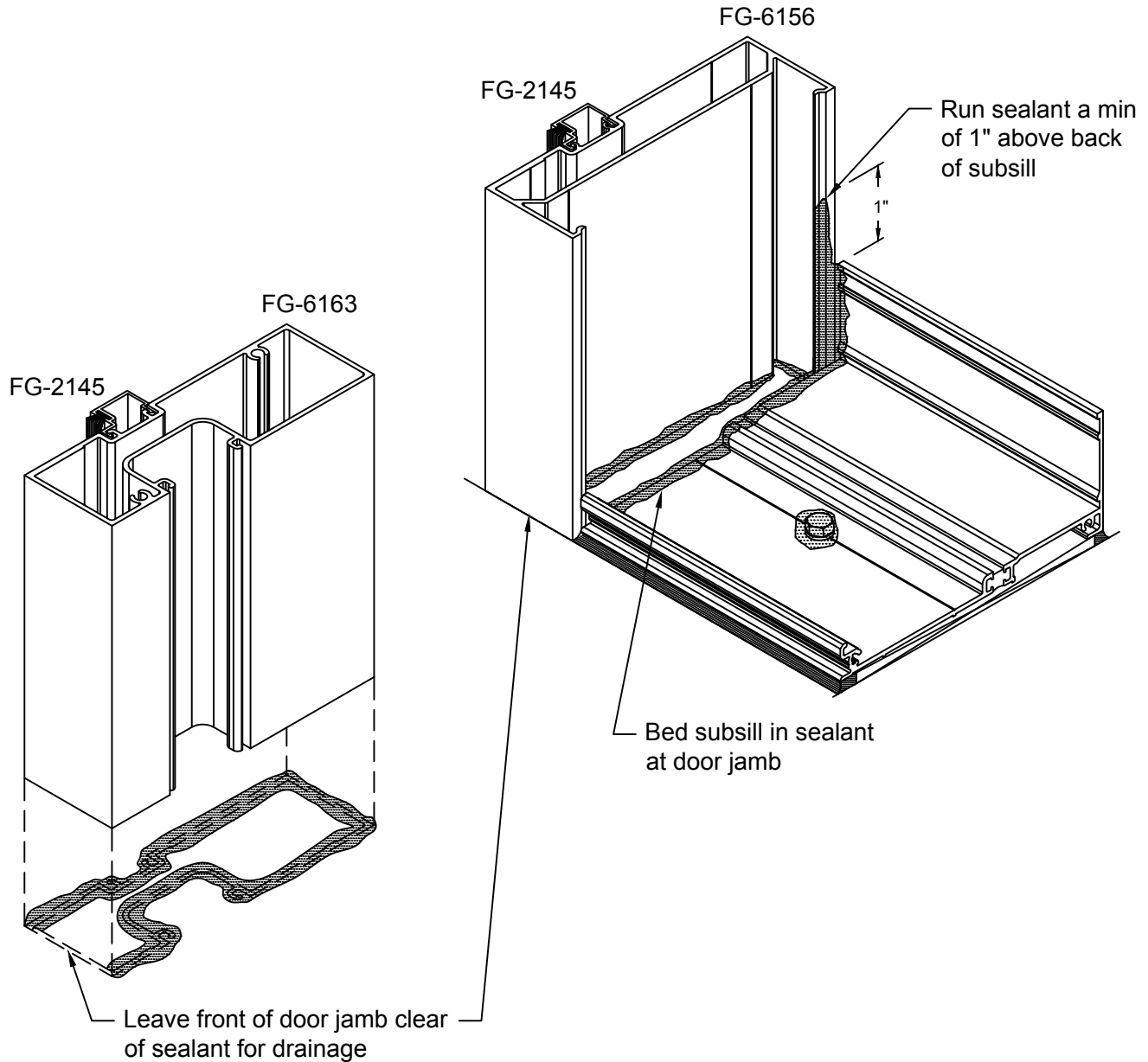
O.S. 90 Center Set



I.S. 90 Center Set

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DOOR FRAME INSTALLATION



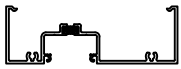


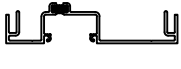

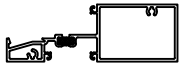



NOTES:

1. Use shear blocks as shown in frame assembly section of this manual to secure horizontals to tubular frames as required.
2. Door frame is anchored by fasteners through threshold and door frame header.
3. When using the center set system, the two-piece or tubular framing options are available as shown above. When using the front set system only the tubular option is available. The vertical for the front set option is FG-6287.



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PARTS LIST

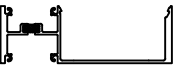



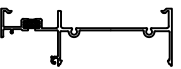
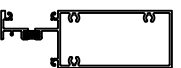
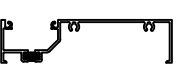
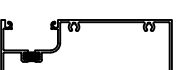

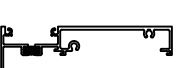


Center Set

	Open Back Head/Jamb/Mullion
FG-6231	
	Heavy Vertical Mullion
FG-6313	
	Expansion Mullion (Requires FG-6329)
FG-6328	
	Expansion Mullion (Requires FG-6328)
FG-6329	
	Open Back Filler
FG-6344	
	Intermediate Horizontal
FG-6197	
	Sill
FG-6198	
	Glass Stop for FG-6197 and FG-6198
FG-3144	
	Sill Receptor
FG-6413	

Front Set

	Open Back Jamb
FG-6380	
	Open Back Mullion
FG-6283	

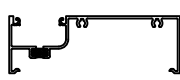
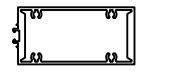
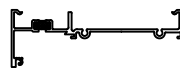
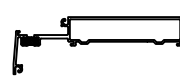
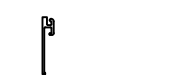
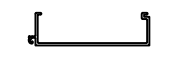
Front Set

	Heavy Vertical Mullion
FG-6297	
	Expansion Mullion (Requires FG-6327)
FG-6326	
	Expansion Mullion (Requires FG-6326)
FG-6327	
	Open Back Filler (Mullion)
FG-6284	
	Outside Glazed Head
FG-6296	
	Outside Glazed Horizontal
FG-6294	
	Low Profile Sill (8 PSF Water Max)
FG-6280	
	Standard Sill (10 PSF Water Max)
FG-6281	
	Face Stop for FG-6294 & FG-6296
FG-3295	
	Inside Glazed Horizontal
FG-6293	
	Standard Sill Receptor (10 PSF Water Max) Use with FG-6281 Sill
FG-6413	
	Low Profile Sill Receptor (8 PSF Water Max) Use with FG-6280 Sill
FG-6513	






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PARTS LIST



Front Set SSG

 FG-6281	Jamb
 FG-6334	SSG Mullion
 FG-6291	SSG Head
 FG-6332	SSG Horizontal
 FG-3335	Face Stop for FG-6332 Horizontal
 FG-6290	Glass Stop for FG-6291 & FG-6332

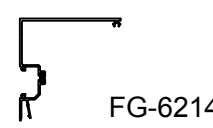
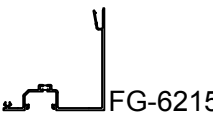
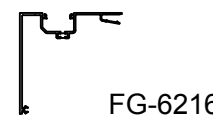
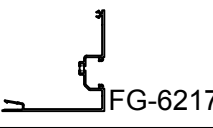

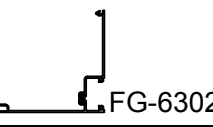
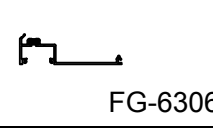
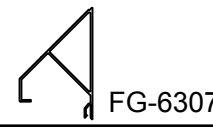
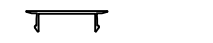

Front Set SSG Accessories

 FG-6333-01	Shear Block for FG-6332 (Screws Included)
 FG-6188	PVC Flat Filler at Jamb & Head 12'-0" long
 FG-6391	Splice Package for FG-6291 Head
 FG-3000-PP-53	Funnel Bridge for FG-6332
 FG-6100-01	Anchor for FG-6291 Head

Front Set SSG Accessories

 FG-6381	Splice Package for FG-6281 Standard Sill
 FG-6382	Splice Package for FG-6280 Low Profile Sill






Auxiliary Extrusions

 FG-6214	Center Set 90° Inside Corner (Requires FG-6215)
 FG-6215	Center Set 90° Inside Corner (Requires FG-6214)
 FG-6216	Center Set 90° Outside Corner (Requires FG-6217)
 FG-6217	Center Set 90° Outside Corner (Requires FG-6216)
 FG-6301	Front Set 90° Outside Corner (Requires FG-6302)
 FG-6302	Front Set 90° Outside Corner (Requires FG-6301)
 FG-6306	Front Set 90° Inside Corner (2 Per Corner)
 FG-6307	Front Set 90° Inside Corner (Requires FG-6306)
 FG-3126	Snap-In Pocket Filler
 FG-3194	Pocket Reducer for 1/4" Glass

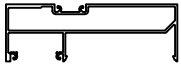
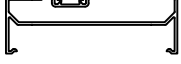
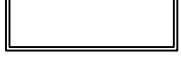


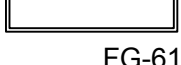
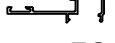
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PARTS LIST





Auxiliary Extrusions

	Pocket Reducer for 7/16" Glass
FG-3236	
	Pocket Reducer for 5/8" Glass
FG-3237	
	FG-6344 Pocket Reducer for 1/4" Glass
FG-3594	
	FG-6344 Pocket Reducer for 7/16" Glass
FG-3536	
	FG-6344 Pocket Reducer for 5/8" Glass
FG-3537	



Door Frame Components

	6" Front Set Door Jamb (Use FG-6284 Filler)
FG-6287	
	6" Center Set Door Jamb (Use FG-6344 Filler)
FG-6156	
	6" Door Jamb Common Mullion
F-24	
	6" Door Header Center Set
FG-6163	
	6" Door Header Front Set
FG-6387	
	6" Door Header OHCC
FG-6160	
	Front Set Transom Sash (Use with FG-6163)
FG-3324	







Door Frame Components

	Front Set Transom Sash (Use with FG-3324)
FG-3325	
	Center Set Transom Sash (Use with FG-6163)
FG-3157	
	Center Set Transom Sash (Use with FG-3157)
FG-3158	
	Door Stop
FG-2145	

Door Frame Accessories

	Shear Block for FG-6160 Door Header (Screws Included)
AC-107-1	
	Shear Block for FG-6387 Door Header (Screws Included)
FG-3000-FP-48	

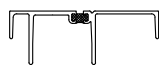
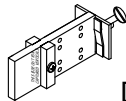
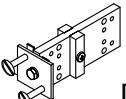
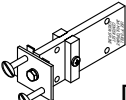
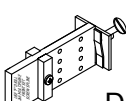







Accessories





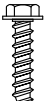


	PVC Flat Filler Caulk Stop 12'-0" long
FG-6188	
	Vinyl Pocket Filler for Window Applications 12'-0" long
FG-3218	
	Water Diverter for Center Set Outside Glaze & All Front Set
FG-1000-FP-2	
	Weep Baffle
HP-1004	
	Splice for FG-6413
FG-6416-01	
	End Dam for FG-6413
AN-50-01	

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PARTS LIST

Accessories

 FG-6430-01	Anchor for FG-6231 Head
 DJ-7	Drill Fixture for Front Set Shear Block (4 1/2" Door Headers)
 DJ-8	Drill Fixture for Center Set Shear Block (4 1/2" Door Headers)
 DJ-9	Drill Fixture for Center Set (6" Members)
 DJ-10	Drill Fixture for Front Set (6" Members)
 FG-1133	1" Glazing Gasket
 FG-1134	Light Gasket
 FG-3129	5/8" Glazing Gasket
 FG-5125	Heavy Gasket
 HP-92	Setting Block for FG-3155, FG-3163 Door Headers
 FG-3342	Setting Block for FG-3324 Adaptor
 FG-3220	Setting Block for FG-6197, FG-6198 & FG-6280

 FG-3278	Setting Block for FG-3287 Door Header
 HP-17	Setting Block for FG-6293, FG-6294 & FG-3157
 FS-6	#10 x 3/4" PPH Attachment of Shear Blocks at Door Headers
 FS-7 (Clear)	#10 x 3/4" PFH Attachment of Shear Blocks at Door Headers
 FS-8	#14 x 1" HH STS Assembly Screw
 FS-55	#10 x 1/2" PPH Attachment of Shear Blocks at Horizontals
 FS-320	#10 x 1/2" U-Drive Attach End Dam to FG-6413 Sub-Sill