



Oldcastle BuildingEnvelope®

Series 6000 Thermal MultiPlane

installation & 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 AND WEATHER SEALANT.

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

Series 6000 Thermal MultiPlane Installation and Glazing Manual

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PRODUCT FEATURES

- 2" x 6" front or center set thermally broken storefront for 1" typical infill
- Screw spline or Shear Block assembly options
- Inside or outside glazed (center set system is outside glazed only)
- 2-sided S.S.G. Vertical option
- Horizontal Glass Bite: 7/16" at captured Verticals, 3/4" at S.S.G. Verticals.
- Vertical Glass Bite: 7/16"
- EZPunch or Drill Jig fabrication
- Panelized assembly
- Anodized or factory painted finishing options

IMPORTANT NOTICE

Completely read these instructions prior to beginning work. These recommendations are for general erection/installation procedures only. For actual job conditions, see shop drawings if applicable. For perimeter anchor types and spacing, refer to the approved shop drawings or consult structural engineer/project design professional.

GENERAL NOTES

INSTALLER QUALIFICATION

These architectural framing systems are 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.

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.

SEALANTS

The fabrication and installation of a structural silicone-glazed (SSG) system requires more technical knowledge and experience than is required for a conventional pressure-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 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

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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.

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

MATERIAL AND WORK ACCEPTANCE

OLDCASTLE BUILDINGENVELOPE® MATERIALS

Check all material upon arrival for quality and to ensure 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.

OTHER TRADES WORK

Completely check construction that 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.

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 away from other trades. Remove material from package if it is wet or located in a damp area.

SHOP

- Cardboard wrapped or paper interleaved material must be kept dry. Immediately remove aluminum from cardboard or paper interleaved materials should it get wet to prevent staining or etching the aluminum finish.
- 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. Immediately remove aluminum from cardboard or paper interleaved materials should it get wet to prevent staining or etching the aluminum finish.
- Keep record of where various materials are stored.

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- Protect materials after erection. Cement, plaster, and other alkaline solutions are very harmful to the finish.

EXPANSION JOINTS

Expansion joints and perimeter seals shown in these instructions and in the shop drawings are shown at standard 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.

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 1/4" 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.

- 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.

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CLEANING

Final cleaning of exposed aluminum surfaces should be done in accordance with AAMA 609.1 for anodized aluminum and AAMA 610.1 for painted aluminum. Cement, plaster, terrazzo, alkaline and acid-based materials used to clean masonry are very harmful to finishes and should be removed immediately or permanent staining will occur. A spot test is recommended before any cleaning agent is used. Aluminum shall be cleaned with plain water containing a mild detergent. No abrasive agent shall be used.

SUMMARY

- A. Study these instructions, shop drawings, erection drawings, and architectural drawings before starting any work. Approved shop drawings take precedence; this manual should be used as a reference only.
- B. Completely check construction which will receive your materials against contract documents. Notify the general contractor by letter of any discrepancies before proceeding with your work since this constitutes acceptance of work by other trades.
- C. Coordinate protection of installed materials with general contractors and other trades.
- D. Do not install wall if there is a walkway with a downslope towards an entrance or a storefront.
- E. All materials are to be installed plumb and level.
- F. All work should start from an established benchmark and column centerlines established by the architect and the general contractor.
- G. Protect all aluminum to be placed directly in contact with uncured masonry or incompatible materials with a heavy coat of zinc chromate or bituminous paint.
- H. After weather sealant is set and a representative amount of the wall has been glazed (500 square feet or more), run a water hose test 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. This test should not be performed at entrances installed in the system.

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INSTALLATION RECOMMENDATIONS

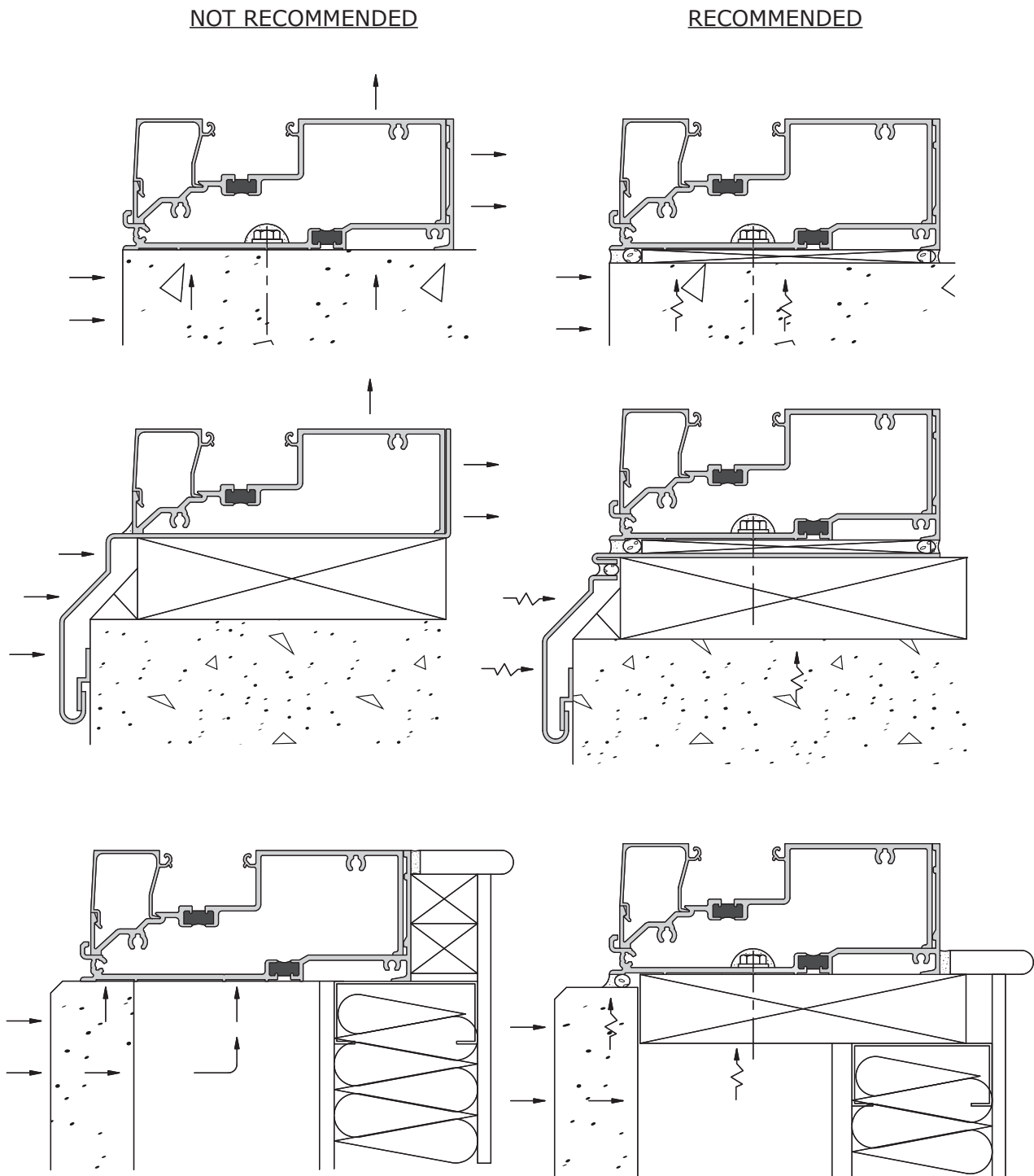


Figure 1: Recommendations for Optimal Air & Water Performance

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GLASS SIZING

Horizontal Glass Size:

- D.L.O. plus (+) 7/8" at fully captured openings
- D.L.O. plus (+) 1-3/16" at captured to S.S.G. openings
- D.L.O. plus (+) 1-1/2" at S.S.G. to S.S.G. openings

Vertical Glass Size:

- D.L.O. plus (+) 7/8"

FRAME FABRICATION

1.0 ESTABLISH FRAME SIZE

NOTE: The storefront must be installed square and plumb. Shim as necessary to compensate for deviations in Rough Opening. Reference figures in this section for pictorial representation of frame sizing.

When measuring the rough opening, take multiple measurements and use the smallest dimension. This assures a proper fit of the storefront system.

Measure width of Rough Opening.

- A. Measure opening at bottom.
- B. Measure opening at center.
- C. Measure opening at top.

The Frame Width will be the smallest dimension minus Jamb perimeter joints, with a minimum 1/4" caulk joint at each Jamb. 3/8" is recommended to facilitate seals between End Dams and perimeter conditions.

Repeat process to determine Frame Height.

- A. Measure opening from top to bottom of left side.
- B. Measure opening from top to bottom of middle.
- C. Measure opening from top to bottom of right side.

The Frame Height will be the smallest dimension minus Head perimeter joint minus Sill perimeter joint, with a minimum 3/8" sealant joint at Head and a minimum 1/4" sealant joint at Sill.

Abbreviations used within these instructions:

D.L.O. = Day Light Opening

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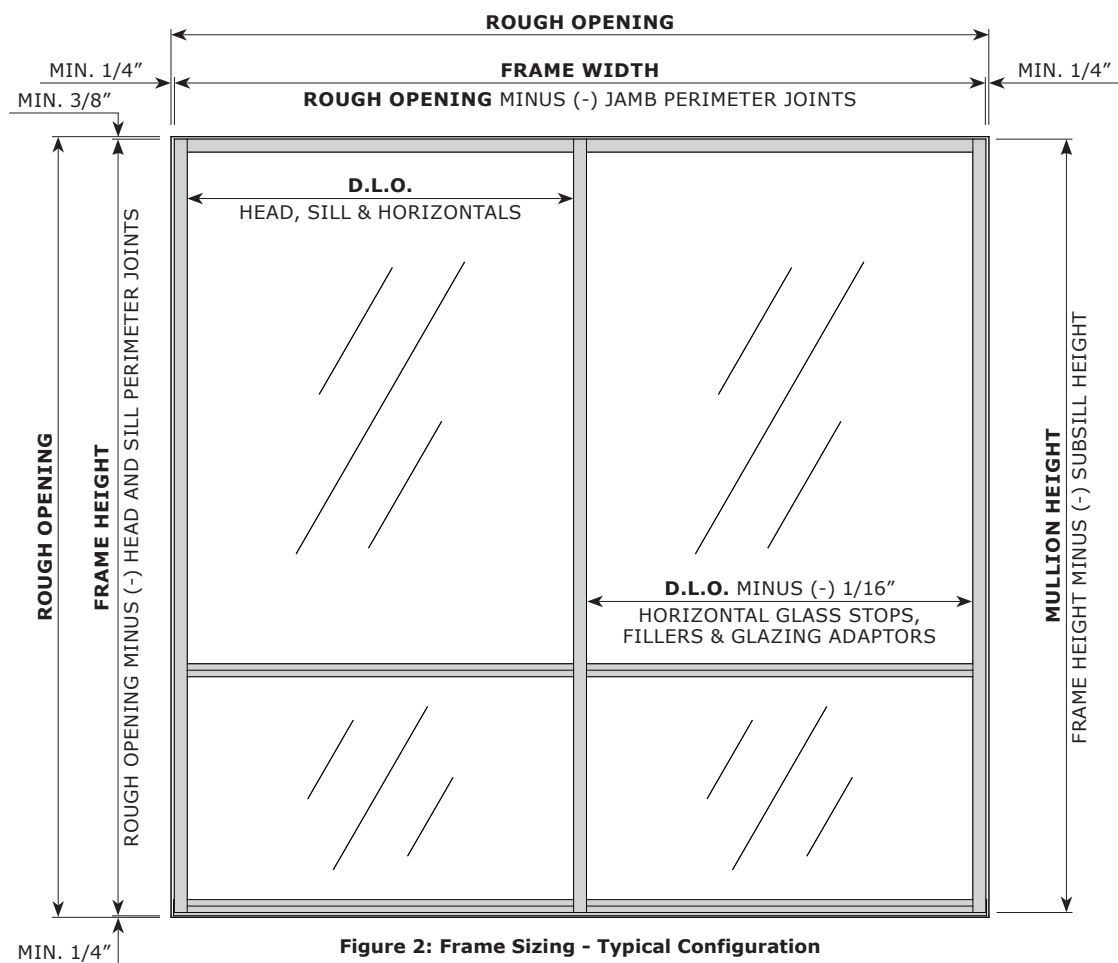


Figure 2: Frame Sizing - Typical Configuration

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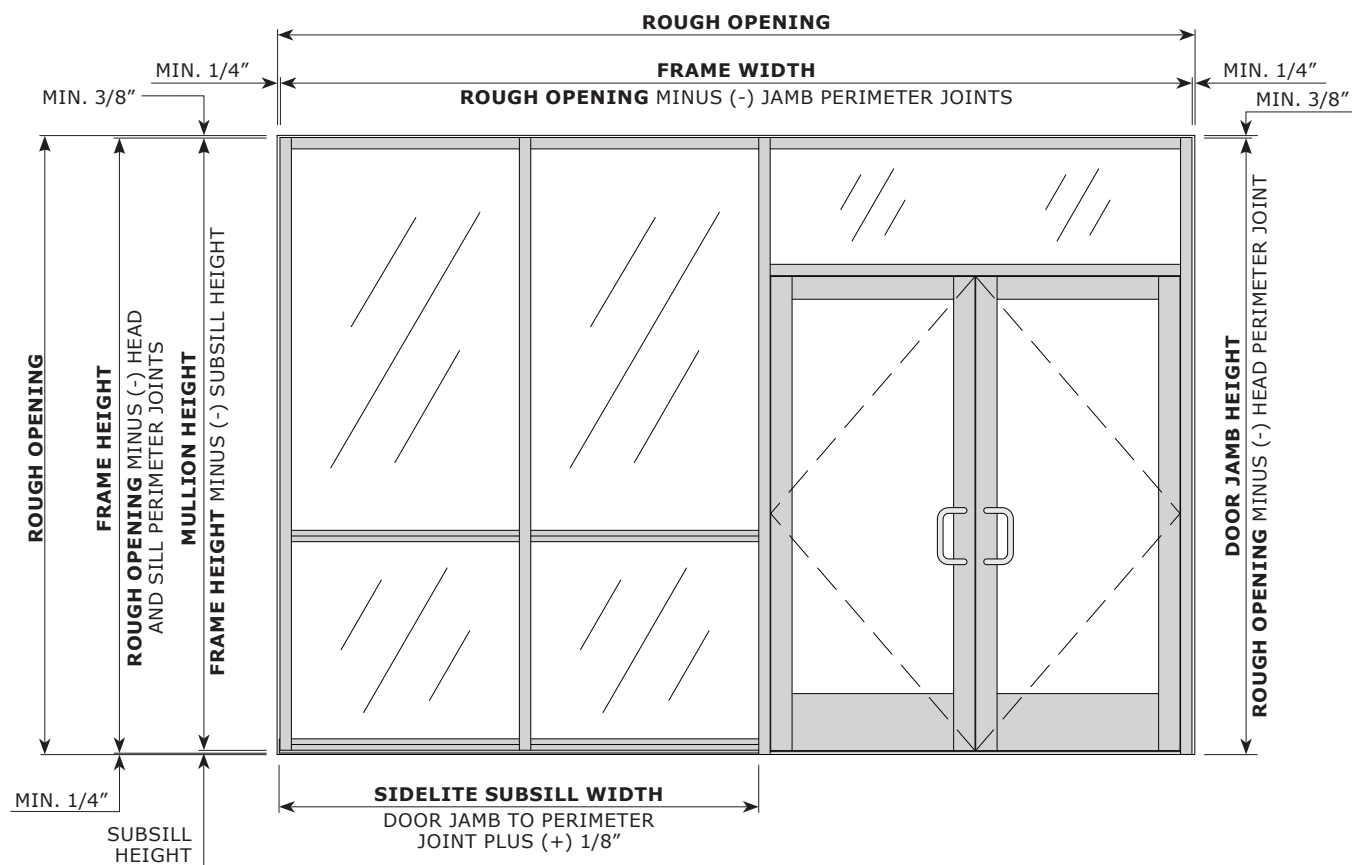


Figure 3: Frame Sizing with Entrance

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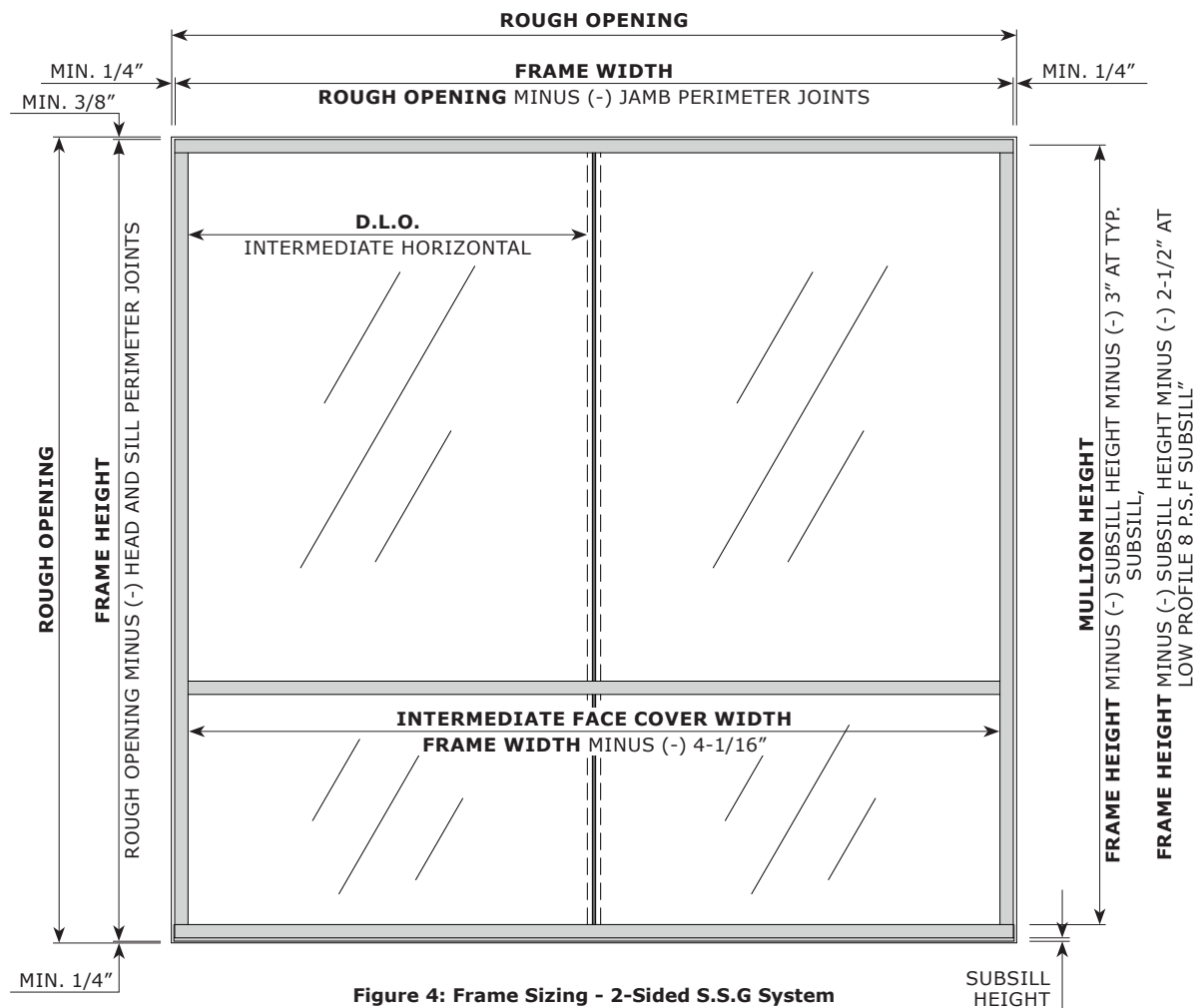


Figure 4: Frame Sizing - 2-Sided S.S.G System

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2.0 CUT MEMBERS TO SIZE - TYPICAL FULLY CAPTURED SYSTEMS

Note: For 2-sided S.S.G system cut sizes, see **Section 3.0** on Page 14. Cut lengths shown ignore any splicing of Subsill. Reference **Section 21.0** on Page 33 for splicing information.

Subsills

Frame without Entrance..... Frame Width plus (+) 1/4"
Frame with Entrance Sidelite (*Note: Subsill to butt tight against Door Jamb. Door Jamb runs to floor.*)..... Frame Width (Door Jamb to Perimeter Joint) plus (+) 1/8"

Verticals

Mullions and Mullion Fillers..... Frame Height minus (-) 1/2"
Door Jambs Rough Opening minus (-) Head Perimeter Joint
Vertical Glazing Adaptors D.L.O. plus (+) 7/8"

Horizontals

Head, Sill and Intermediate Horizontals D.L.O.
Horizontal Fillers, Glass Stops and Glazing AdaptorsD.L.O. minus (-) 1/16"

Accessories

CW-998 weather seal Gaskets Mullion Height
FG-1133 horizontal Gaskets (interior/exterior)..... D.L.O. plus (+) 1/4" per foot
FG-1133 vertical Gaskets (interior/exterior) D.L.O. plus (+) 1" plus (+) 1/4" per foot

Abbreviations used within these instructions:

D.L.O. = Day Light Opening

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3.0 CUT MEMBERS TO SIZE - 2-SIDED S.S.G SYSTEM

Note: Cut lengths shown below ignore any splicing of Head, Sill and Subsill. Reference Page 39 for more information.

Subsills

Frame without Entrance..... Frame Width plus (+) 1/4"

Frame with Entrance Sidelite (*Note: Subsill to butt tight against Door Jamb. Door Jamb runs to floor.*)..... Frame Width (Door Jamb to Perimeter Joint) plus (+) 1/8"

Verticals

Mullions and Mullion Fillers using typical Subsills Frame Height minus (-) 3-1/2"

Mullions and Mullion Fillers using low profile 8 p.s.f. Subsill..... Frame Height minus (-) 3"

Door Jambs and Sidelite Fillers Rough Opening minus (-) Head Perimeter Joint

Vert. Glazing Adaptors..... D.L.O. plus (+) 7/8" typ., or D.L.O. plus (+) 7/16" at Sill openings

Horizontals

Head & Sill..... Frame Width

Intermediate Horizontal..... D.L.O.

Intermediate Face Cover.....Frame Width minus (-) 4-1/16"

Accessories

FG-1133 interior Gasket at Head & Sill D.L.O. plus (+) 1" plus (+) 1/4" per foot

FG-1133 exterior Gasket at Head & Sill..... Frame Width minus (-) 4" plus (+) 1/4" per foot

FG-1133 interior Gasket at Intermediate Horizontal..... D.L.O. plus (+) 1/4" per foot

FG-1133 exterior Gasket at

Intermediate Horizontal Intermediate Face Cover length plus (+) 1/4" per foot

FG-1133 vertical Gasket at Jambs (interior/exterior):

Head or Sill to Intermediate Horizontal D.L.O. plus (+) 1/2" plus (+) 1/4" per foot

Intermediate Horiz. to Intermediate Horiz. D.L.O. plus (+) 1" plus (+) 1/4" per foot

HP-30066 Silicone Spacer Gaskets D.L.O. plus (+) 1" plus (+) 1/4" per foot

Abbreviations used within these instructions:

D.L.O. = Day Light Opening

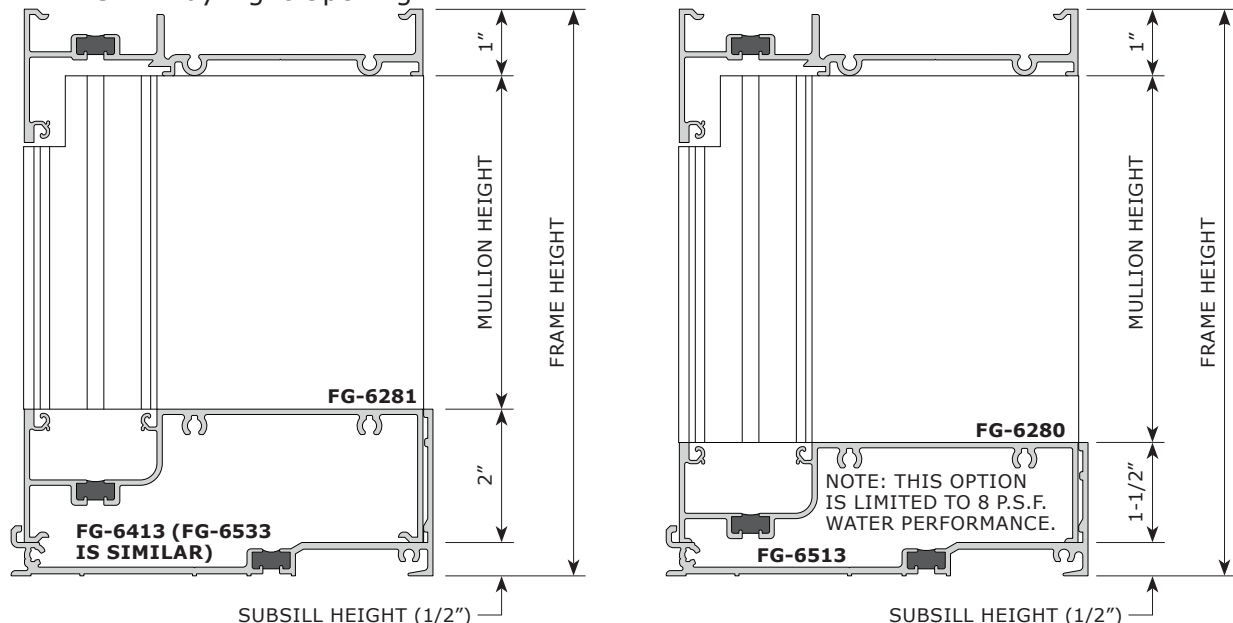


Figure 5: 2-Sided System Mullion Cut Lengths

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4.0 NOTE ON EXPANSION VERTICAL CLEARANCE REQUIREMENTS

For elevation widths in excess of 24 feet, Expansion Verticals should be used at a maximum spacing of every 20 feet on Mullion centerlines. A minimum of 7/16" clearance between Jambs and End Dams (installed) is necessary to maintain enough clearance for the two Mullion halves to engage and leave a final 1/4" reveal at the face. **Ensure that this extra clearance is accounted for when figuring Horizontal cut lengths.** Center Set configuration is shown here; procedure for Front Set system configuration is similar. Note that the 2-sided S.S.G system does not require Expansion Verticals.

Reference **Figure 6** below.

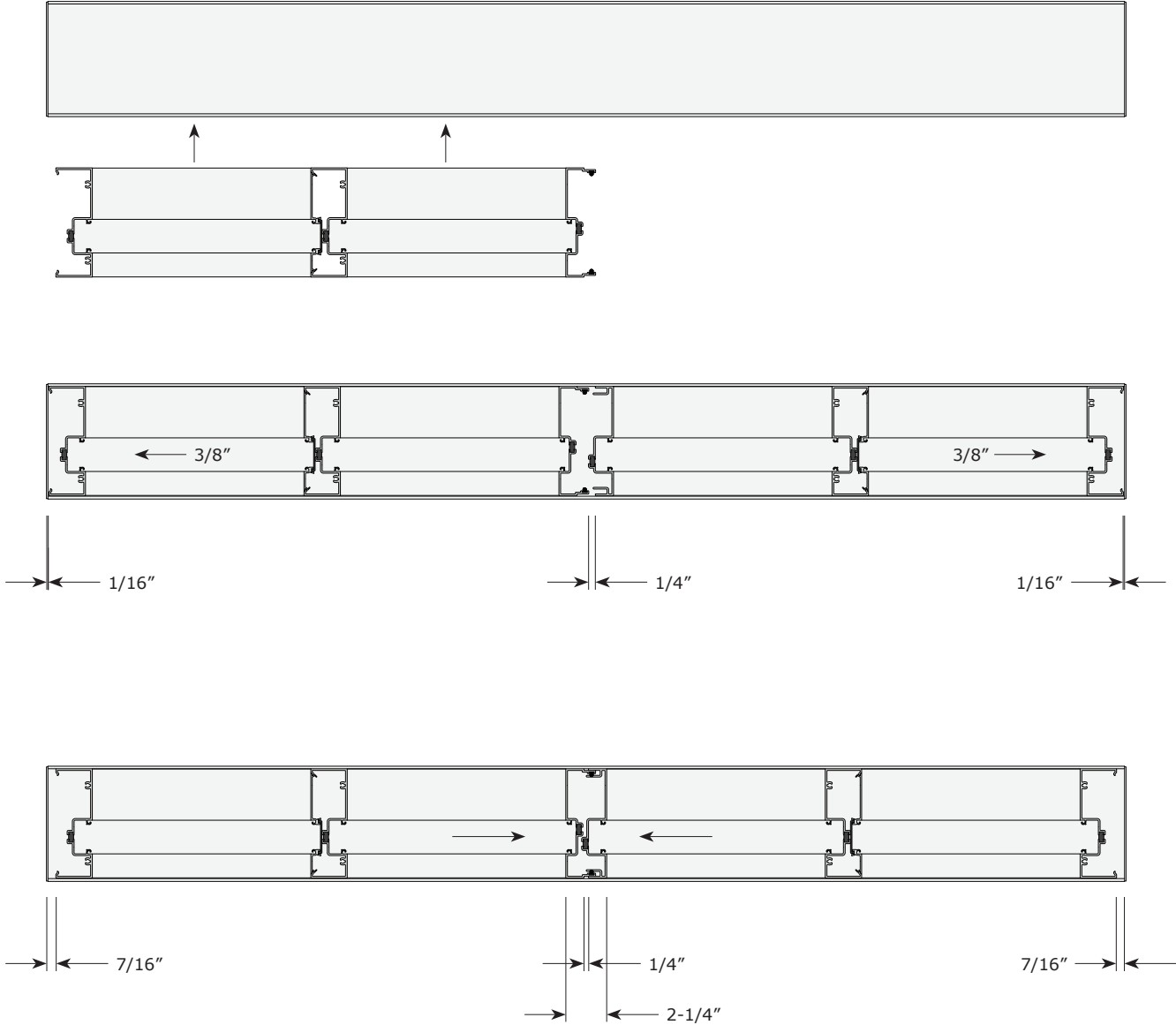


Figure 6: Expansion Horizontal Clearance Requirements

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6.0 CENTER SET, SHEAR BLOCK SYSTEM

Notes: For ease of fabrication, Oldcastle BuildingEnvelope® recommends the use of our EZ-Punch tool or the **DJ-9** Drill Fixture. Reference **Figure 45** on Page 55 for detailed diagram of Fixture. Typical Vertical shown; fabrication for Jamb(s) and other Verticals are identical. Note that center set systems are available as outside glazed only.

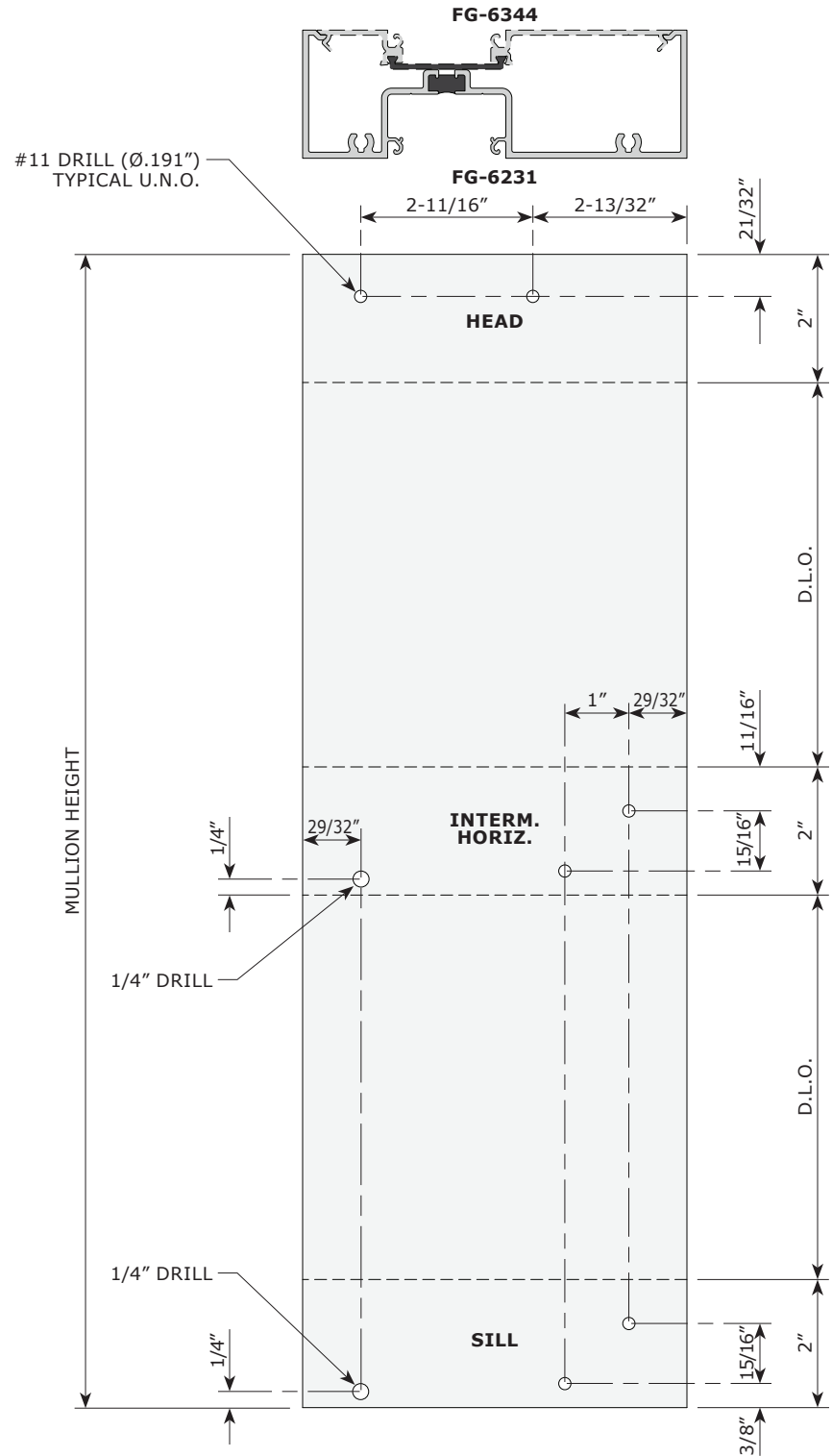


Figure 8: Vertical Mullion Prep - Center Set, Shear Block System

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7.0 FRONT SET, OUTSIDE GLAZED, SCREW SPLINE SYSTEM

Note: For ease of fabrication, Oldcastle BuildingEnvelope® recommends the use of our EZ-Punch tool or the **DJ-10** Drill Fixture. Reference **Figure 46** on Page 56 for detailed diagram of Fixture. Typical Vertical shown; fabrication for Jamb(s) and other Verticals are identical.

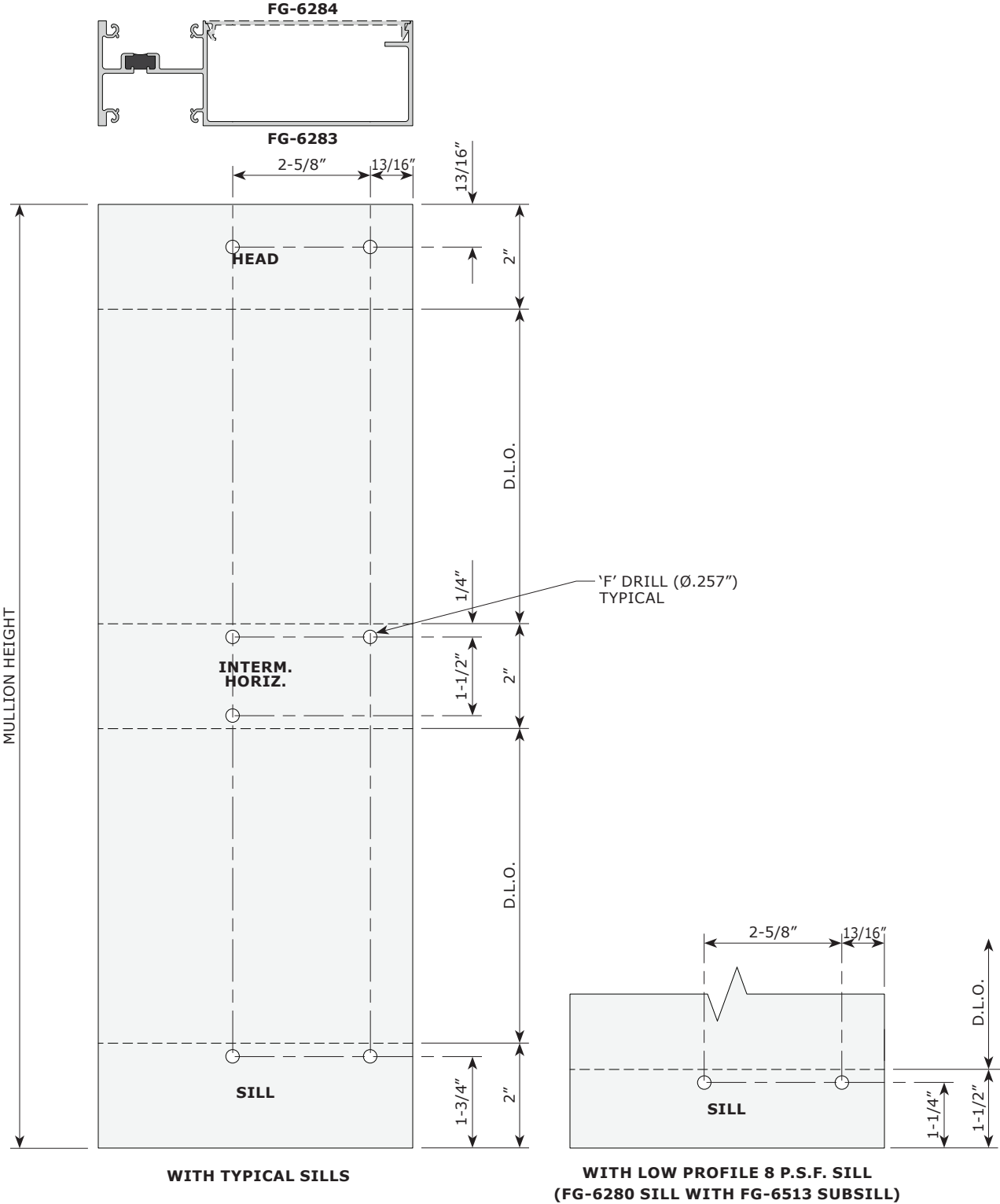


Figure 9: Vertical Mullion Prep - Front Set, Outside Glazed, Screw Spline System

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8.0 FRONT SET, OUTSIDE GLAZED, SHEAR BLOCK SYSTEM

Note: For ease of fabrication, Oldcastle BuildingEnvelope® recommends the use of our EZ-Punch tool or the **DJ-11** Drill Fixture. Reference **Figure 47** on Page 57 for detailed diagram of Fixture. Typical Vertical shown; fabrication for Jamb(s) and other Verticals is identical.

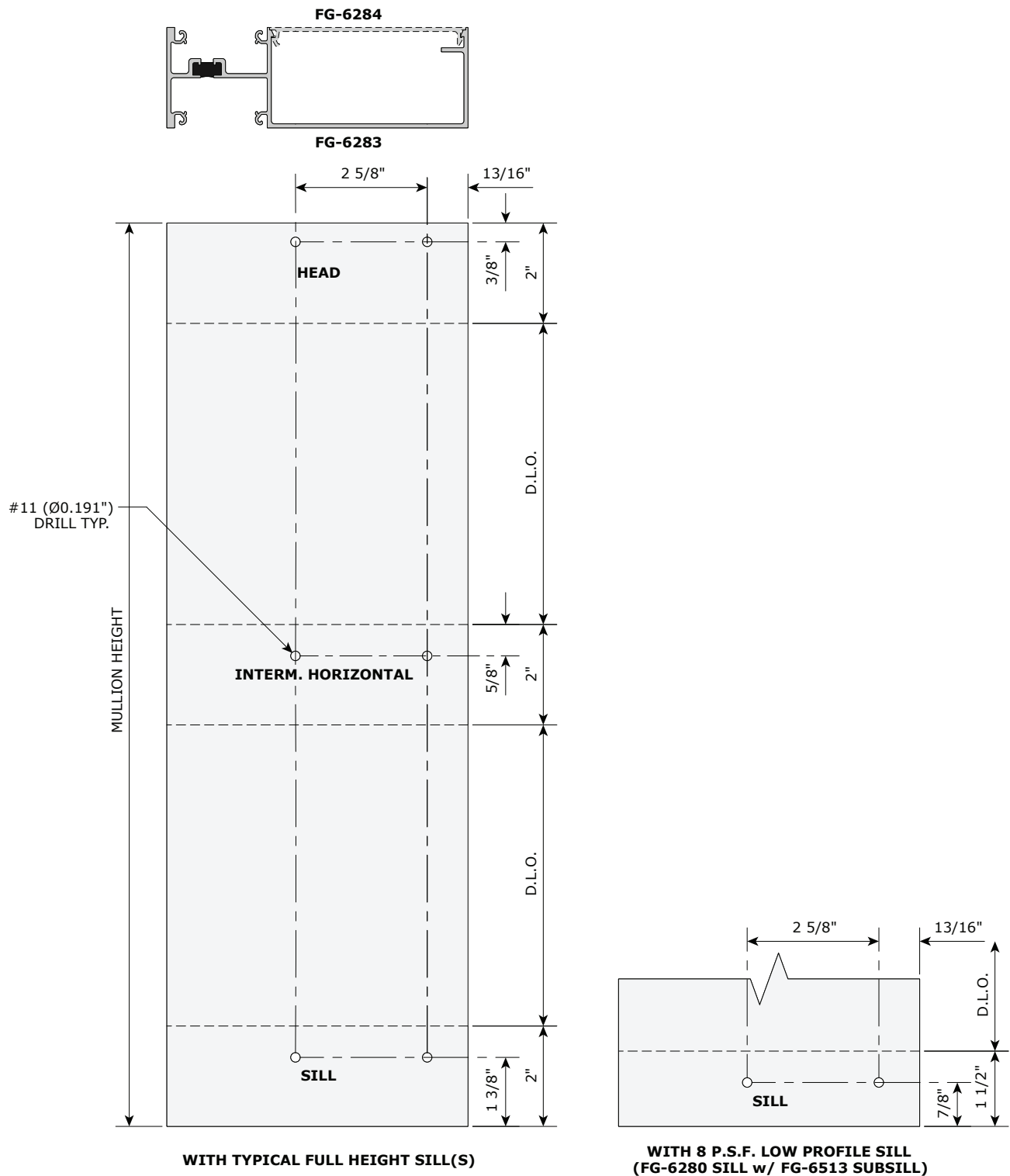


Figure 10: Vertical Mullion Prep - Front Set, Outside Glazed, Shear Block System

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10.0 FRONT SET, INSIDE GLAZED, SHEAR BLOCK SYSTEM

Note: For ease of fabrication, Oldcastle BuildingEnvelope® recommends the use of our EZ-Punch tool or the **DJ-11** Drill Fixture. Reference **Figure 49** on Page 59 for detailed diagram of Fixture. Typical Vertical shown; fabrication for Jamb(s) and other Verticals are identical.

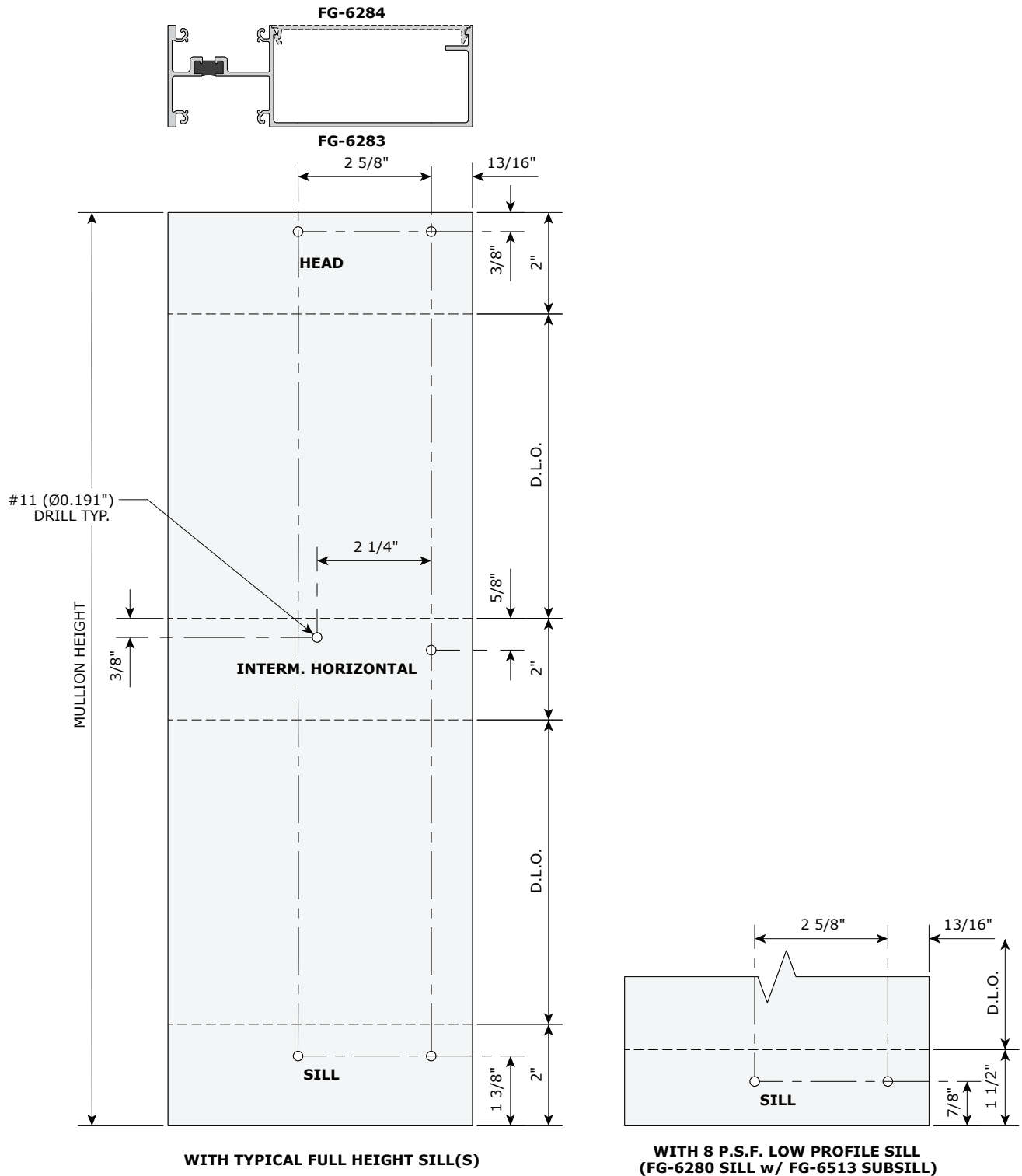


Figure 12: Vertical Mullion Prep - Front Set, Inside Glazed, Shear Block System

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11.0 FRONT SET 2-SIDED S.S.G SYSTEM

Reference **Figure 13** below for Jamb and S.S.G Mullion preps. Reference **Figure 14** on Page 23 for Sill and reflected Head preps. Note that the Head and Sill run through in this configuration, with Verticals running between. The Jambs and all Horizontals are captured. The tops of Jambs must be notched as shown to allow the Head to run past.

Note: For ease of fabrication, Oldcastle BuildingEnvelope® recommends the use of our EZ-Punch tool or the **DJ-10** Drill Fixture for fabrication of Sills. Reference **Figure 49** on Page 59 for detailed diagram of Fixture.

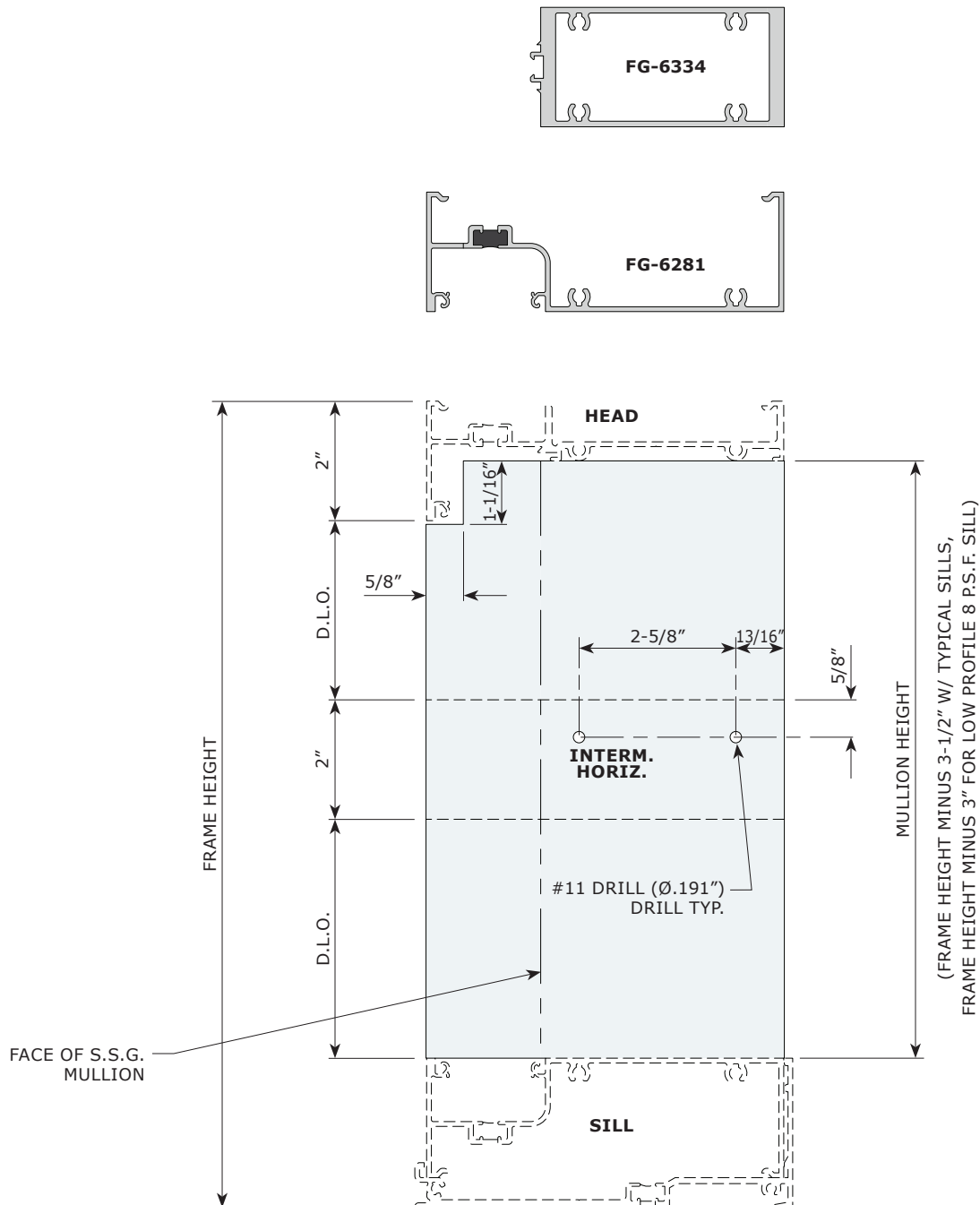
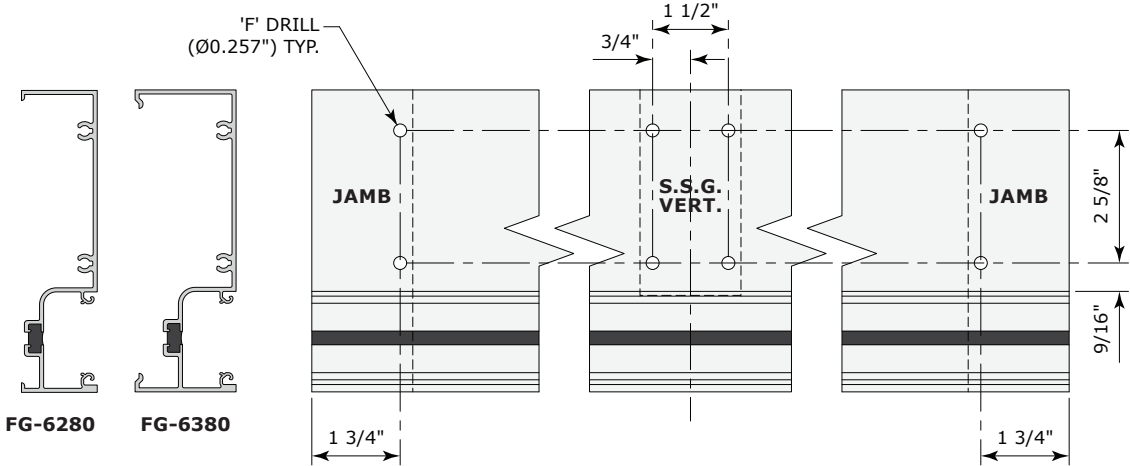


Figure 13: Vertical Mullion Prep - Front Set 2-Sided S.S.G System

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NOTE: SILL FABRICATION SHOWN; HEAD FABRICATION IS IDENTICAL (REFLECTED)

Figure 14: Head & Sill Prep - Front Set 2-Sided S.S.G System

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FRAME ASSEMBLY

12.0 CENTER SET, SCREW SPLINE SYSTEM (OUTSIDE GLAZED ONLY)

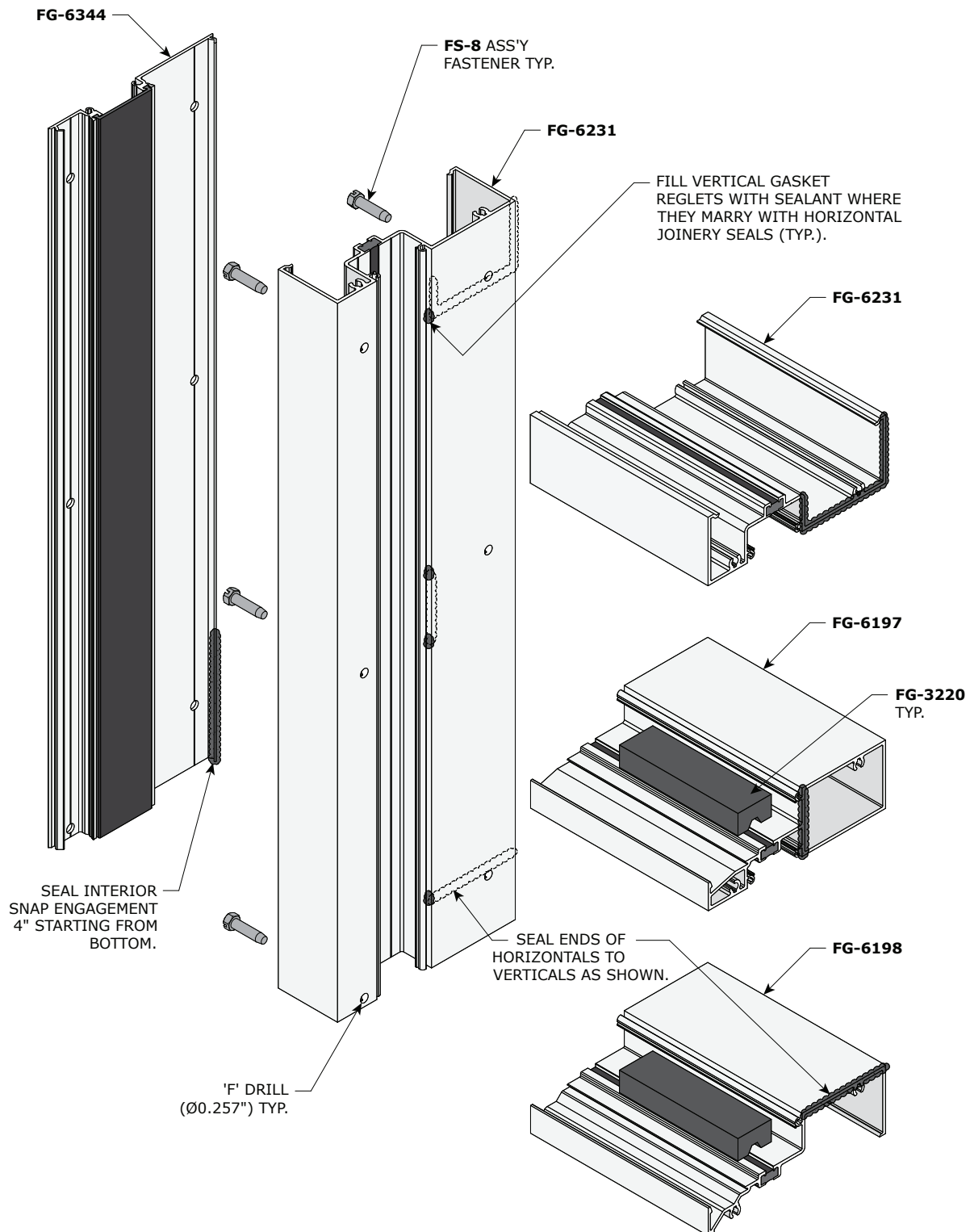


Figure 15: Frame Assembly - Center Set, Screw Spline System

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13.0 CENTER SET, SHEAR BLOCK SYSTEM (OUTSIDE GLAZED ONLY)

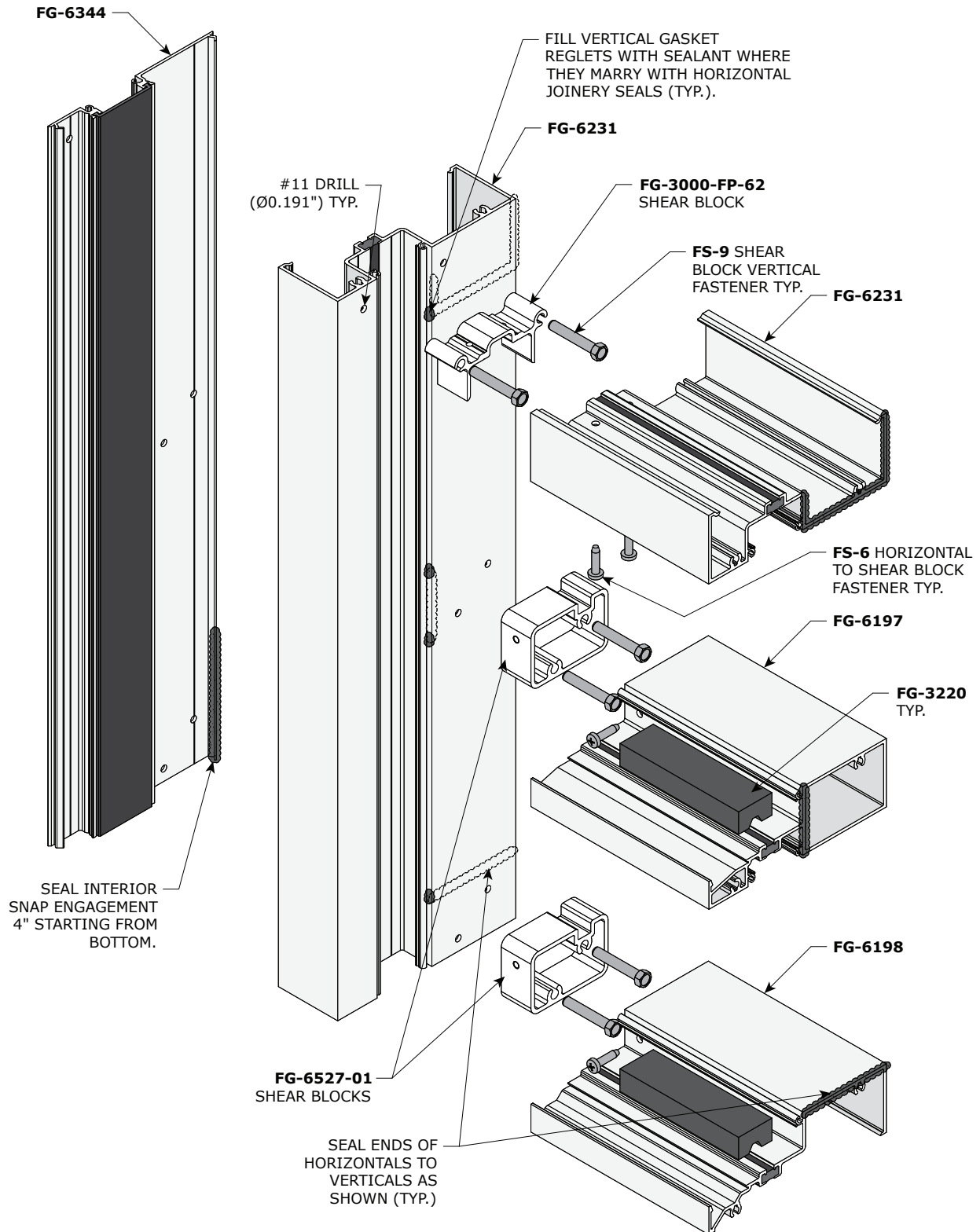


Figure 16: Frame Assembly - Center Set, Shear Block System

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14.0 FRONT SET, OUTSIDE GLAZED, SCREW SPLINE SYSTEM

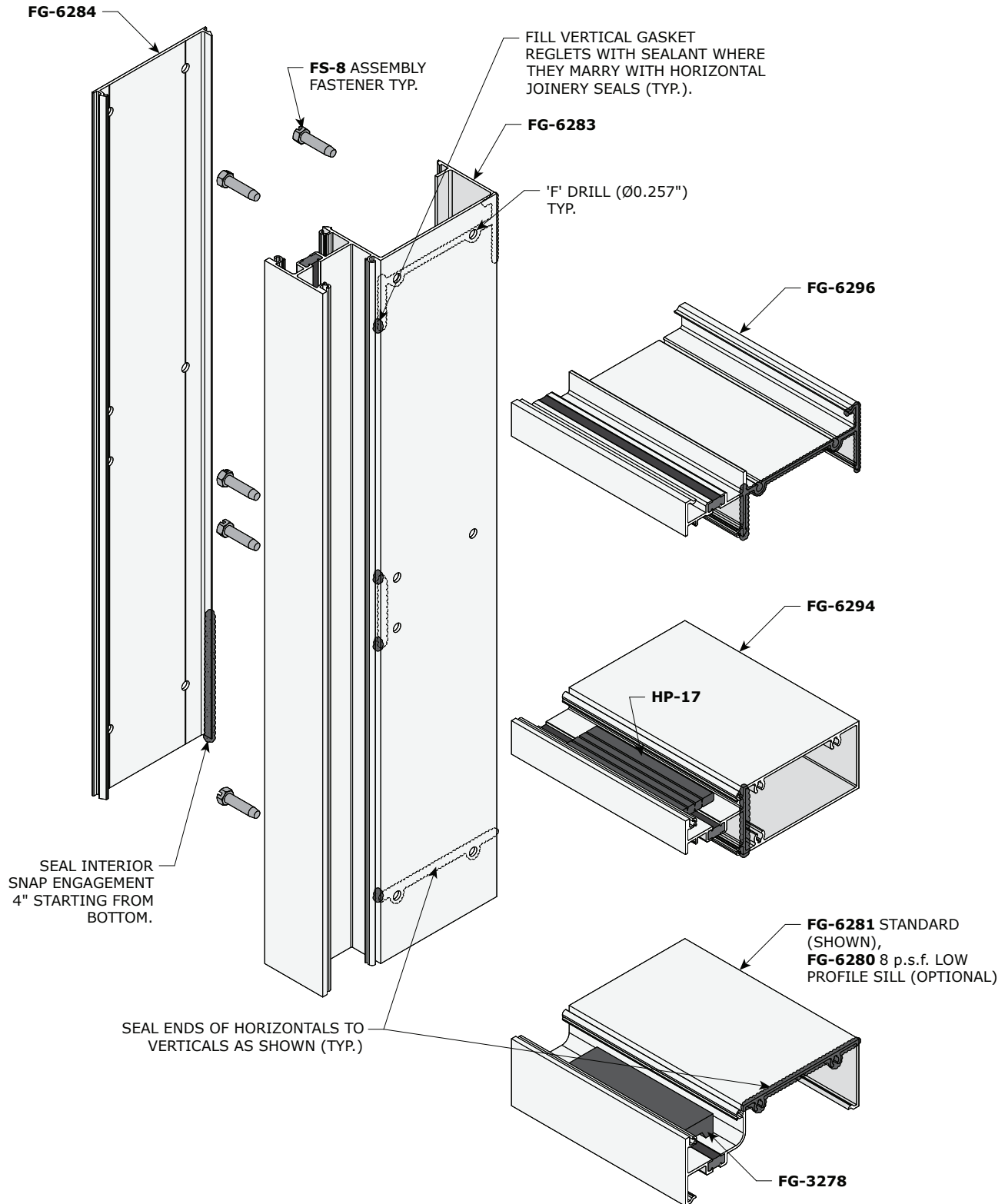


Figure 17: Frame Assembly - Front Set, Outside Glazed, Screw Spline System

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15.0 FRONT SET, OUTSIDE GLAZED, SHEAR BLOCK SYSTEM

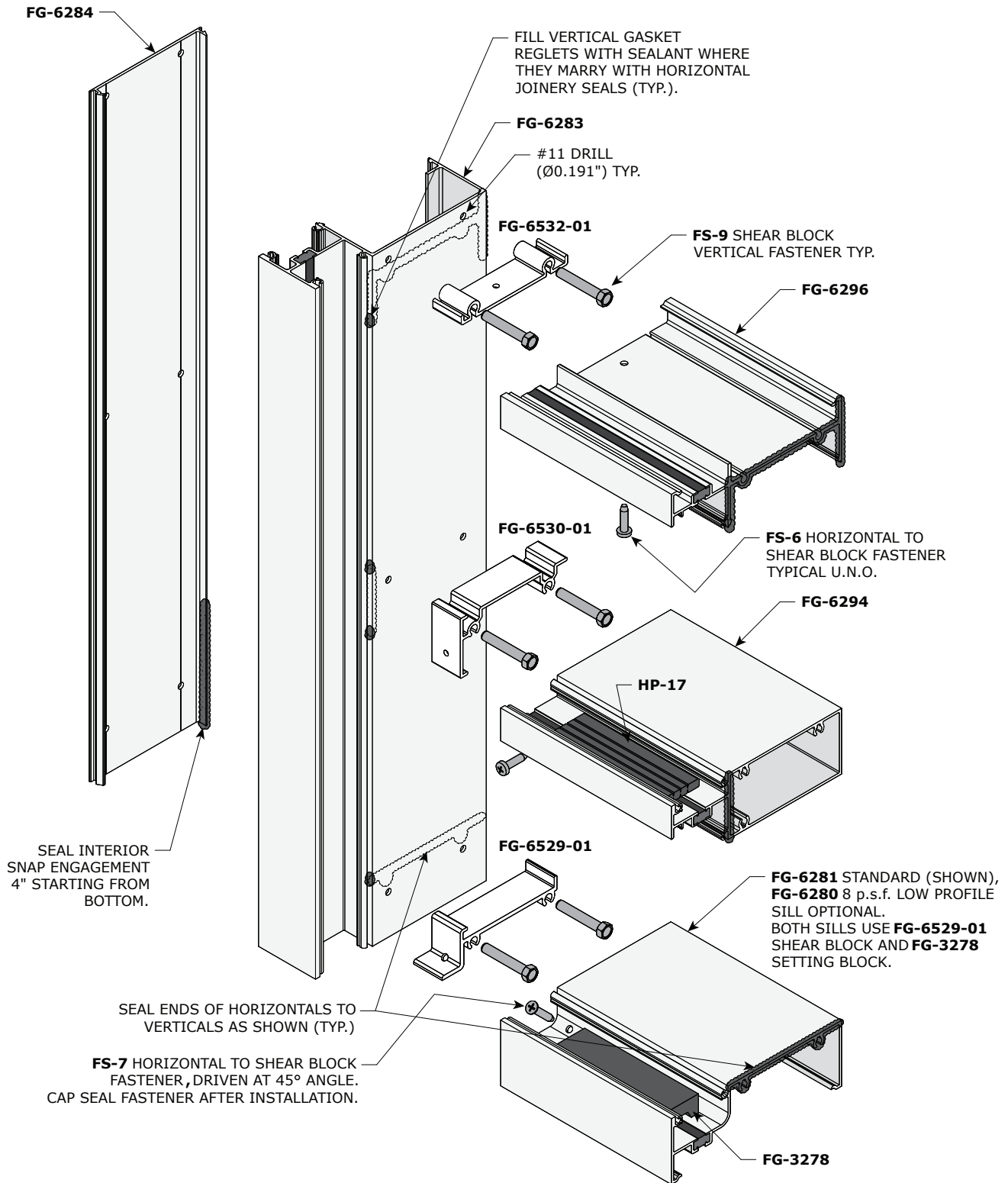


Figure 18: Frame Assembly - Front Set, Outside Glazed, Shear Block System

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16.0 FRONT SET, INSIDE GLAZED, SCREW SPLINE SYSTEM

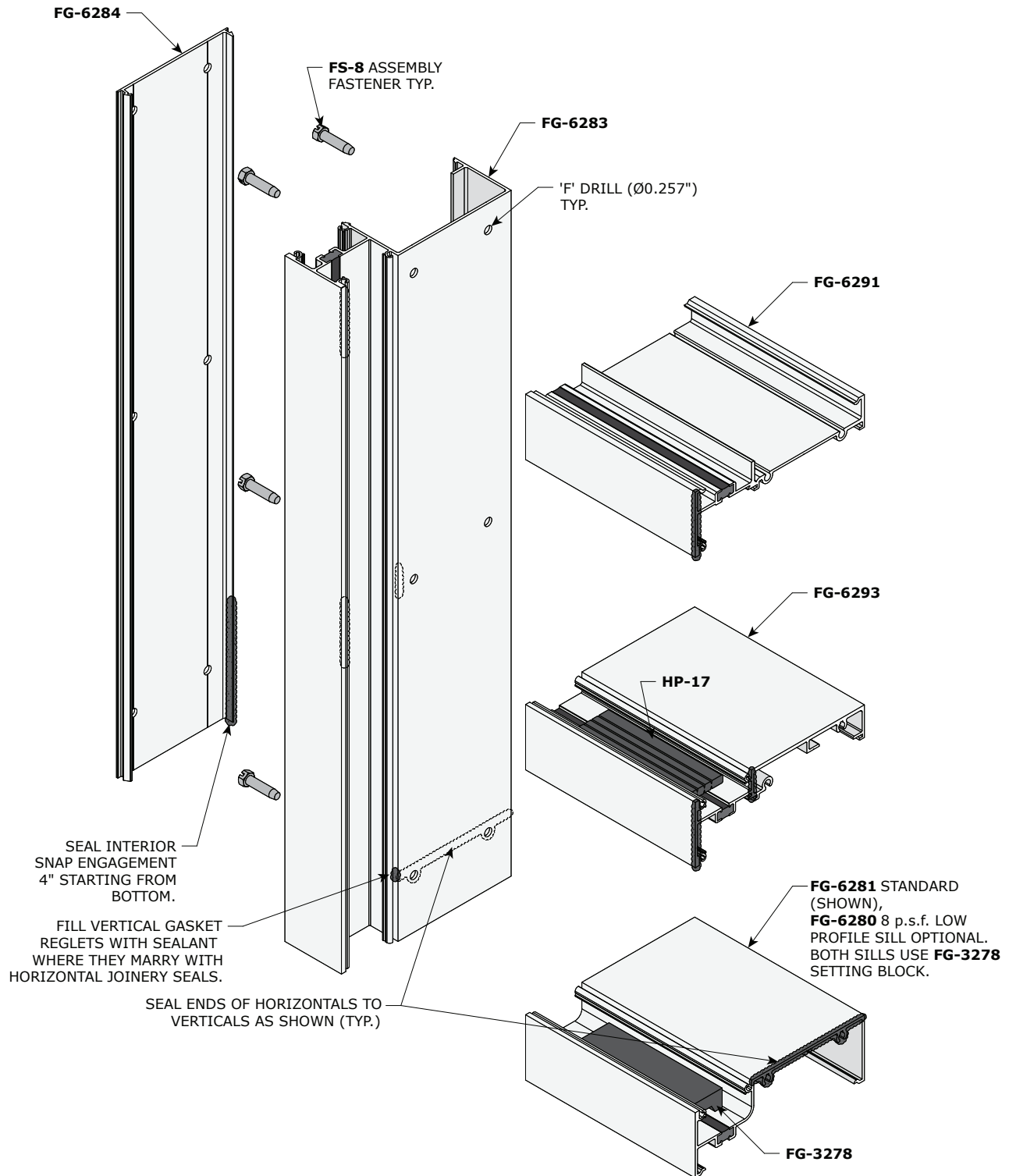


Figure 19: Frame Assembly - Front Set, Inside Glazed, Screw Spline System

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17.0 FRONT SET, INSIDE GLAZED, SHEAR BLOCK SYSTEM

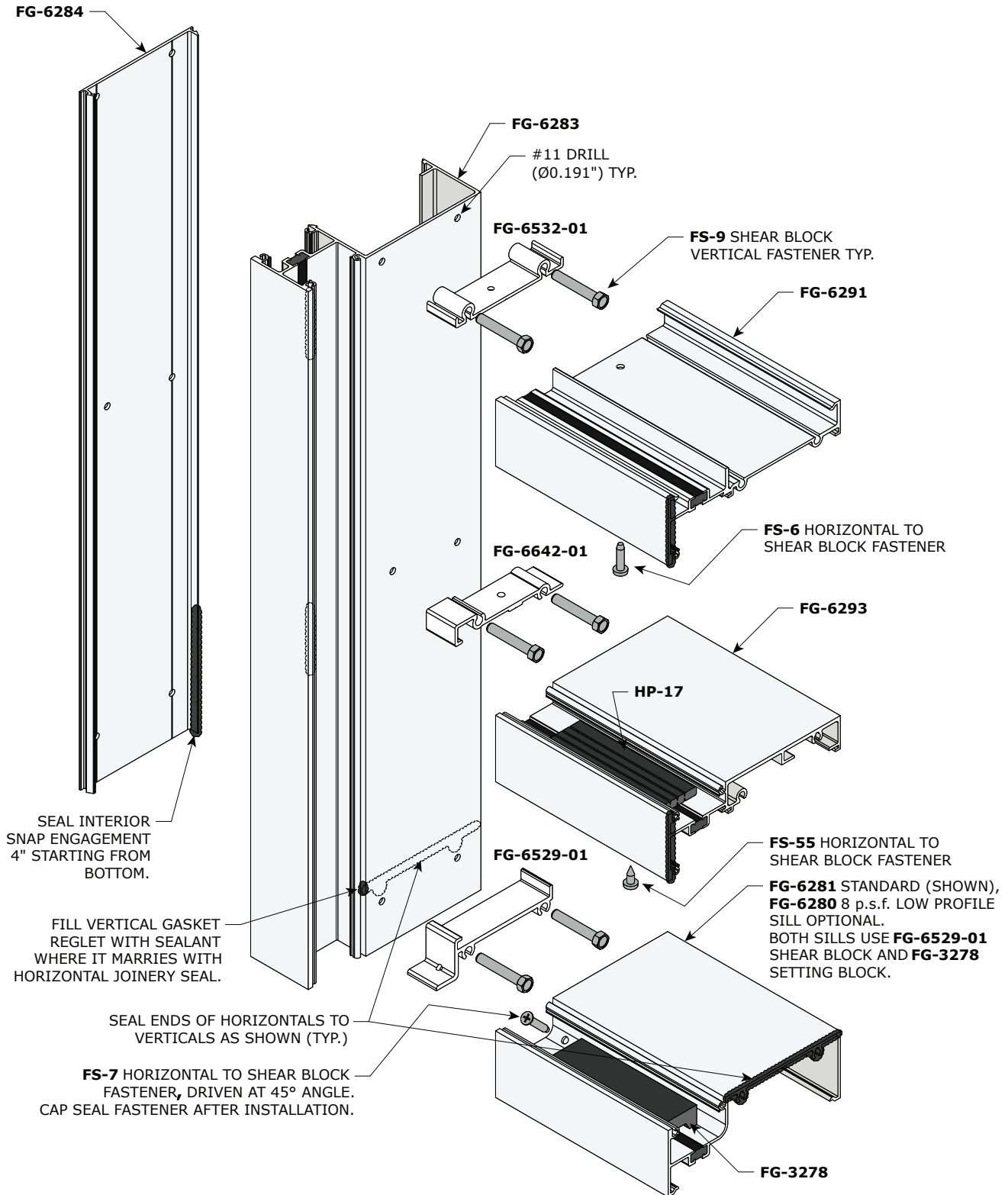


Figure 20: Frame Assembly - Front Set, Inside Glazed, Shear Block System

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18.0 FRONT SET S.S.G SYSTEM - JAMB ASSEMBLY

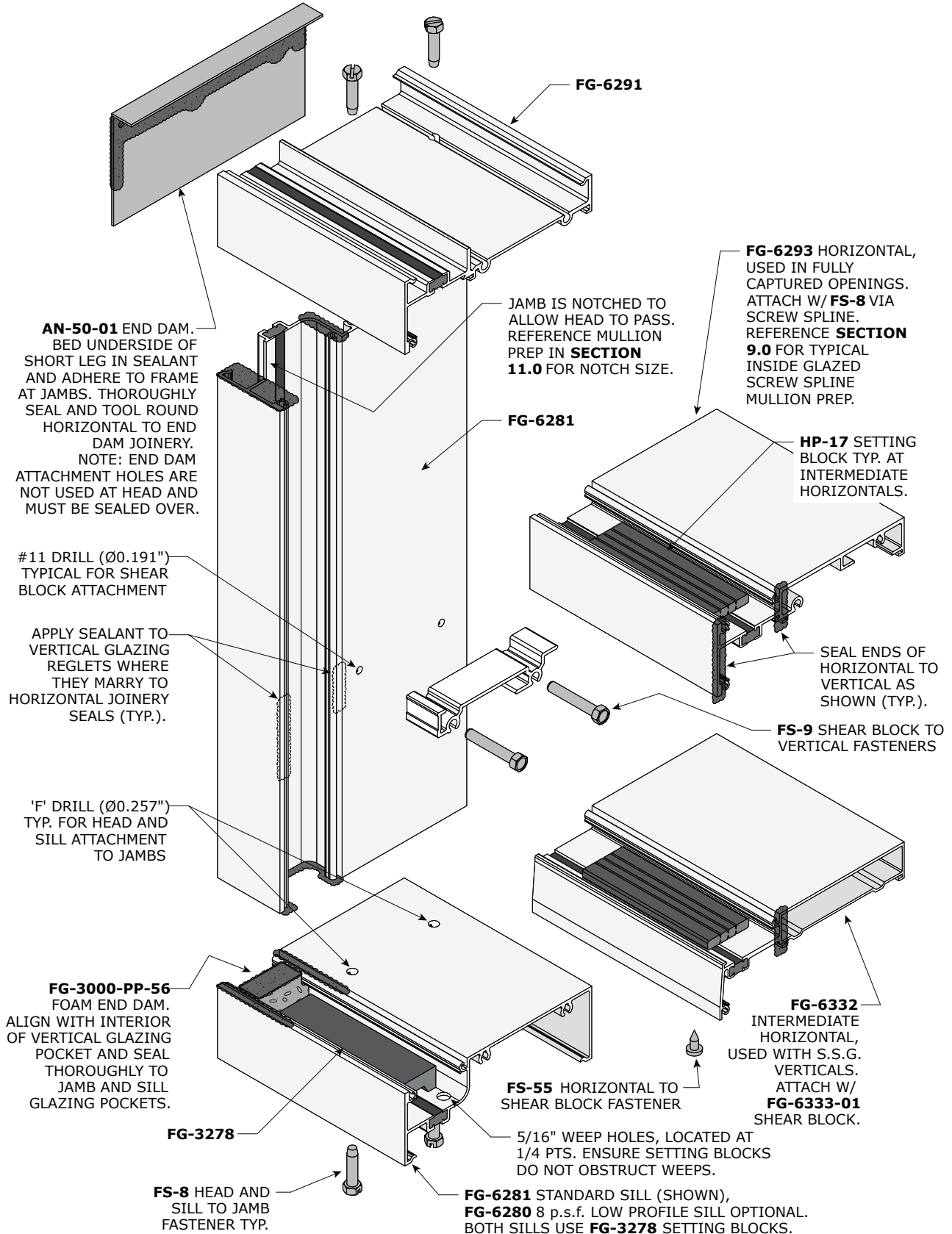


Figure 21: Jamb Frame Assembly - Front Set, 2-Sided S.S.G. System

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19.0 FRONT SET S.S.G SYSTEM - S.S.G VERTICAL ASSEMBLY

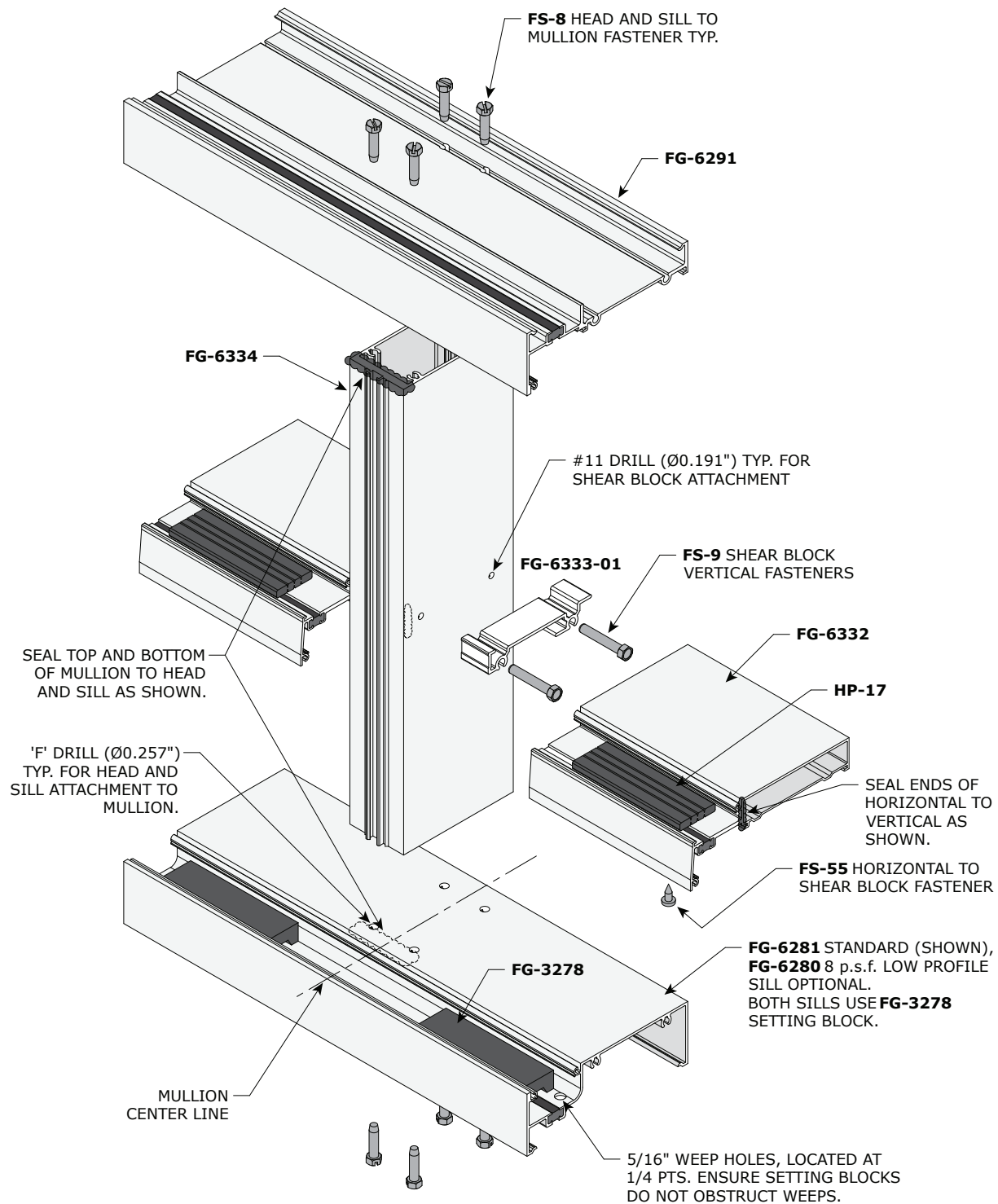


Figure 22: Frame Assembly - Front Set, 2-Sided S.S.G. System

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SUBSILL PREPARATION, INSTALLATION AND SPLICING

20.0 END DAM INSTALLATION

Reference below for installation and sealing of typical Subsill End Dams. The **FG-6413** Subsill is shown; End Dam installation and sealing procedures for **FG-6513** and **FG-6533** Subsills are similar. All three Subsill options use the **AN-50-01** End Dam, attached with (2) **FS-320** Drive Pins. Note that the low profile **FG-6513** Subsill is limited to 8 p.s.f. water performance. Anchor Bolt size and spacing will be per structural review.

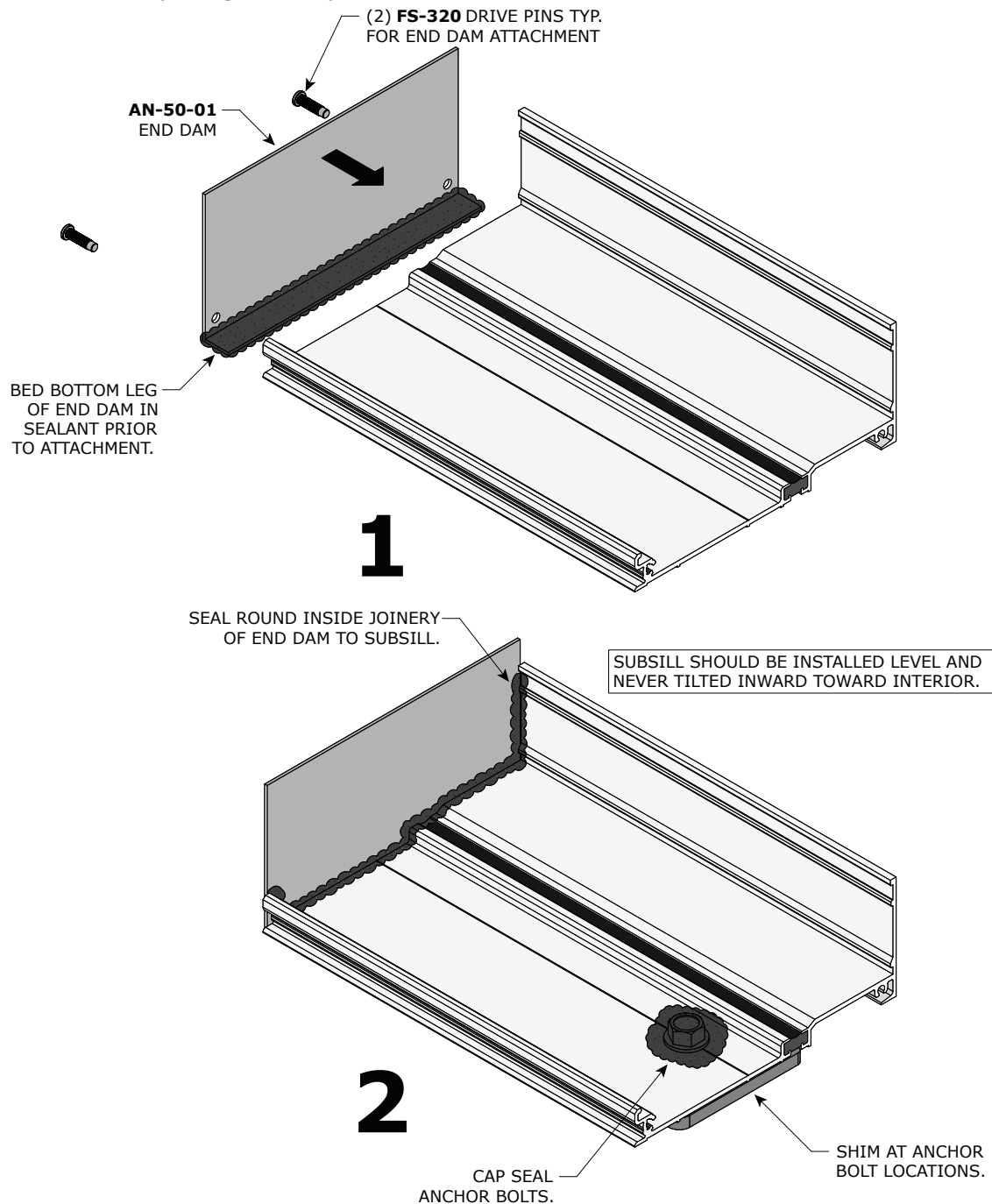


Figure 23: Subsill End Dam Attachment and Seals

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21.0 SUBSILL SP LICING

Reference below for splicing of typical Subsills. The **FG-6413** Subsill is shown; splicing procedures for **FG-6513** and **FG-6533** Subsills are similar. Subsill splice joints should be located no more than every 12 feet on center.

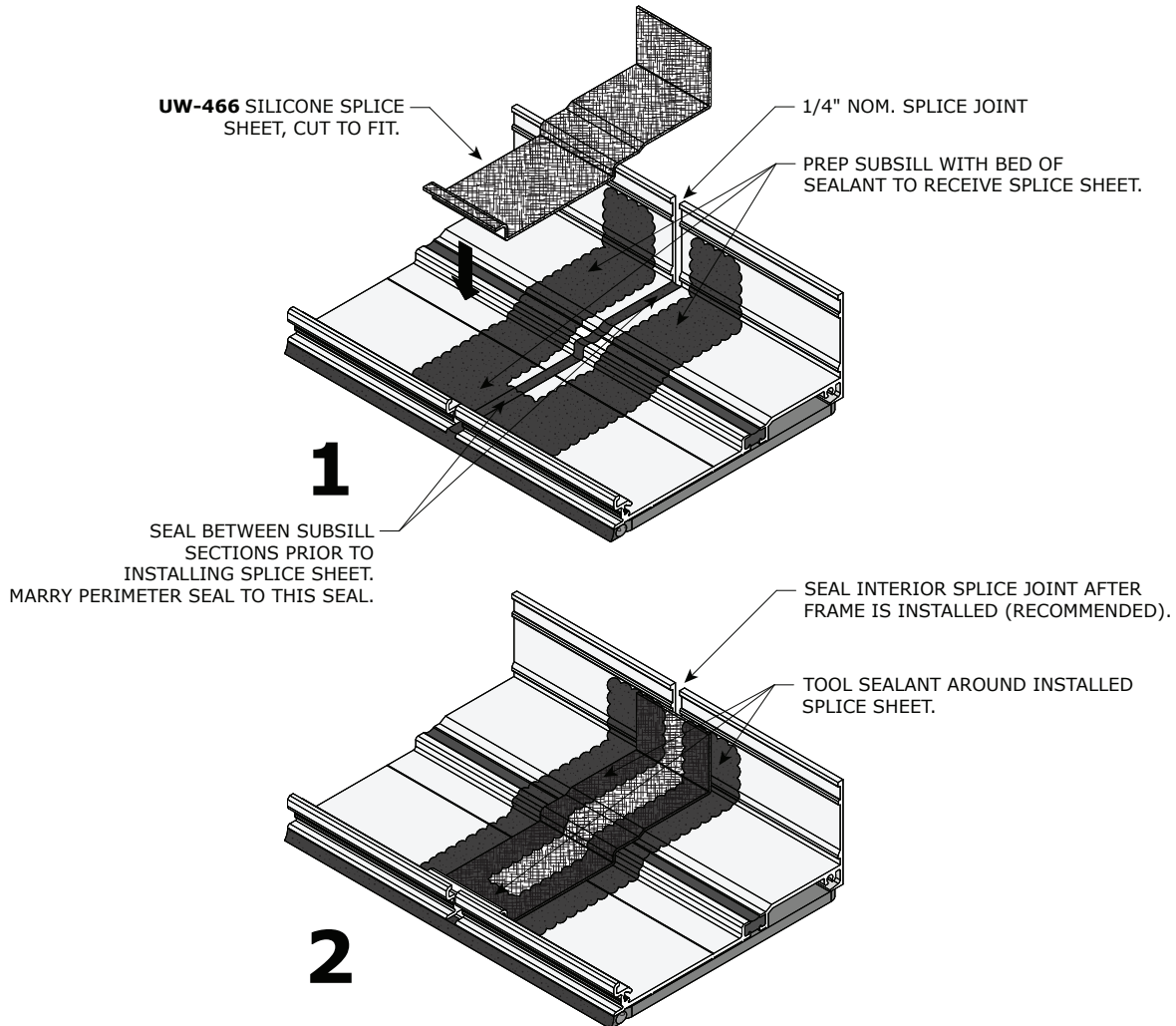


Figure 24: Subsill Splicing

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FRAME ANCHORING AND PERIMETER SEALS

22.0 TYPICAL FRAME ANCHORING - CENTER SET SYSTEMS

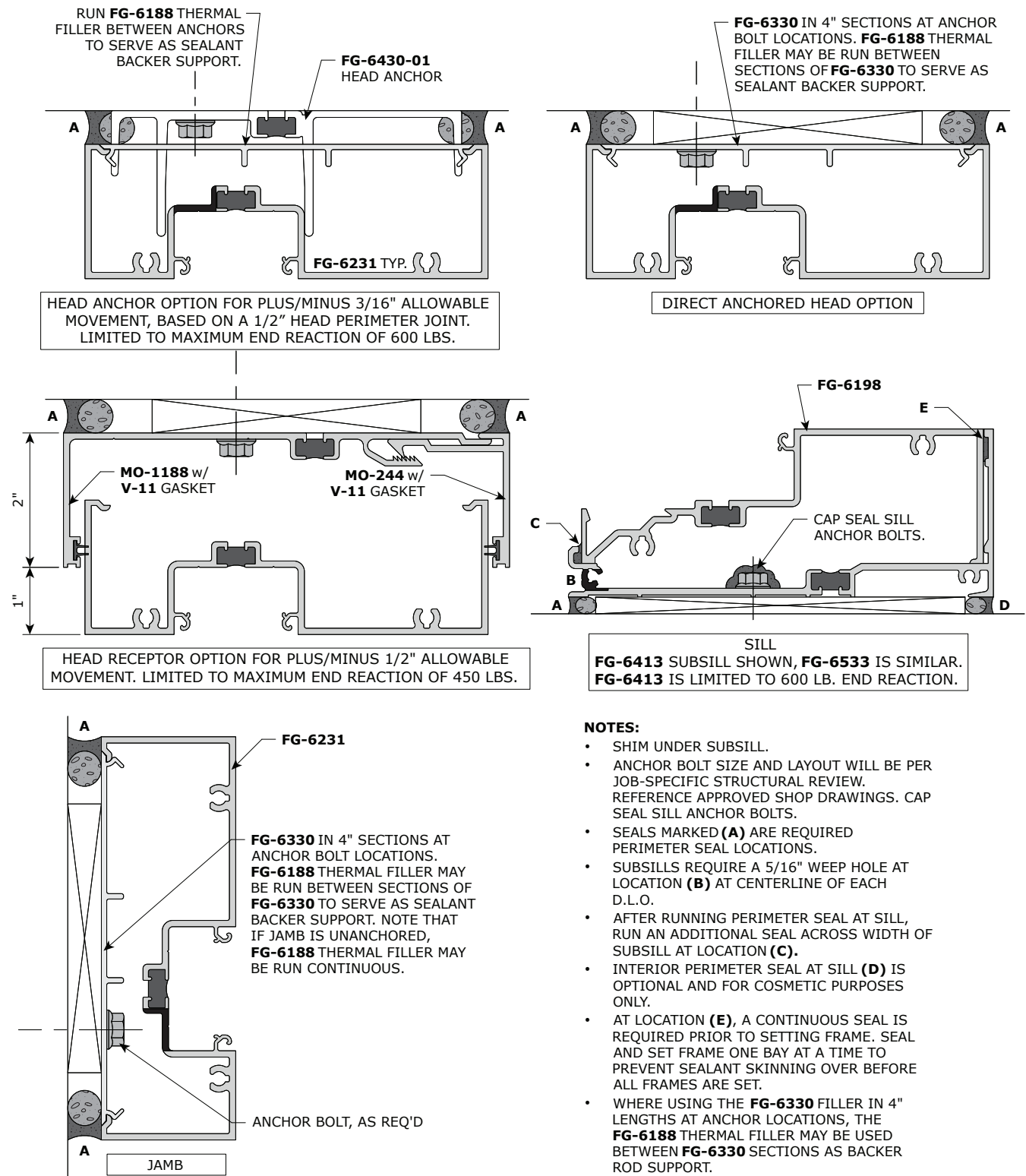


Figure 25: Frame Anchoring and Perimeter Seals - Center Set Systems

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23.0 TYPICAL FRAME ANCHORING - FRONT SET SYSTEMS

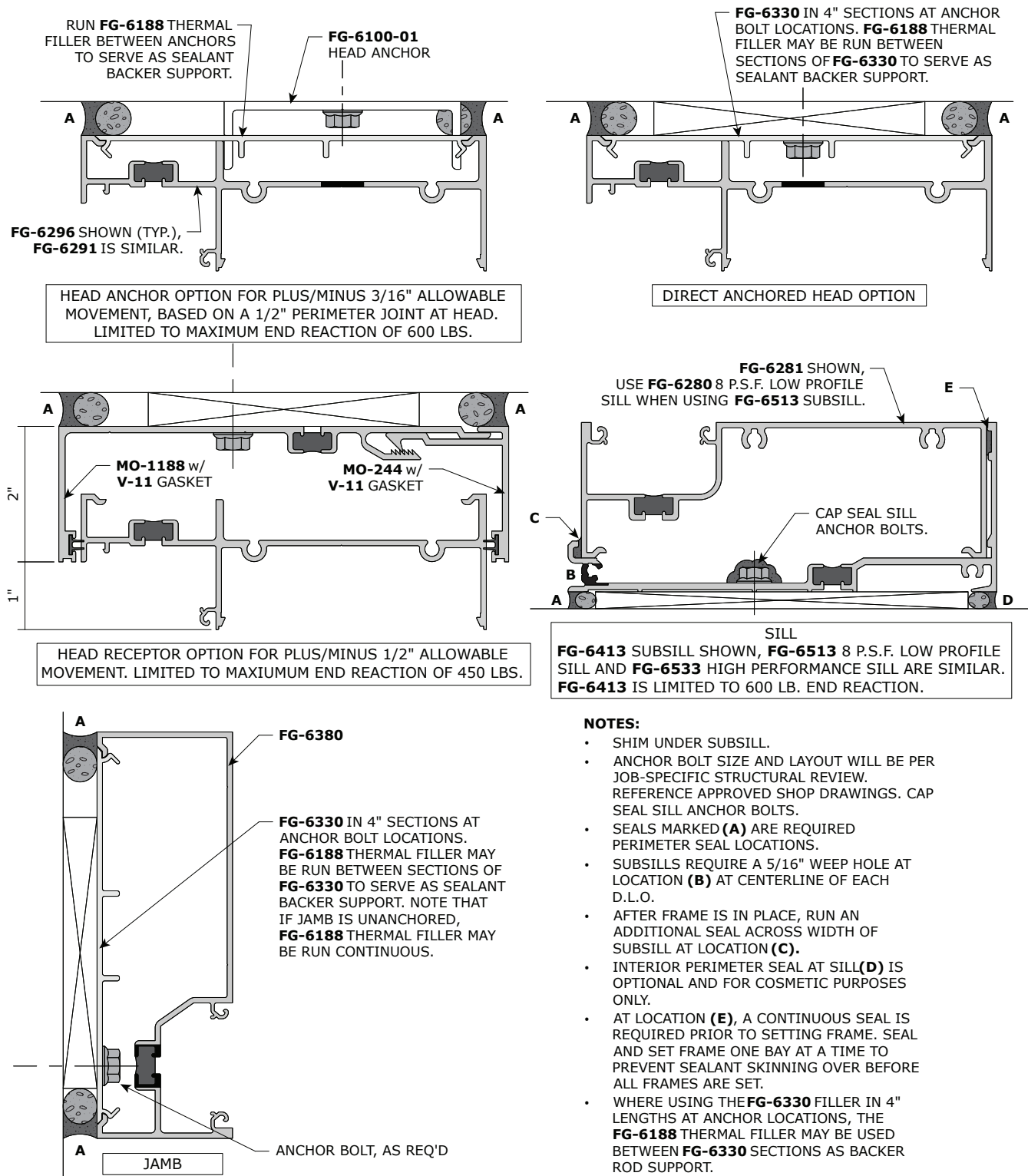


Figure 26: Frame Anchoring & Perimeter Seals - Front Set Systems

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FRAME INSTALLATION

Reference figure below for installation of typical panelized systems. For Shear Block/stick-built applications, assembly and installation are combined in a single operation. Reference Frame Assembly sections of this manual for further information. Locate Head Anchors no further than 4" from edge of vertical Mullion. Note that typical installation does not require Jambs to be anchored. If job-specific structural requirements call for anchoring of Jambs, reference Frame Anchoring and Perimeter Seals sections of this manual for Bolt location and Anchor Plate/Flat Filler information. Note that Bolt size and spacing will be per structural review. Front set outside glazed system shown; inside glazed system is similar.

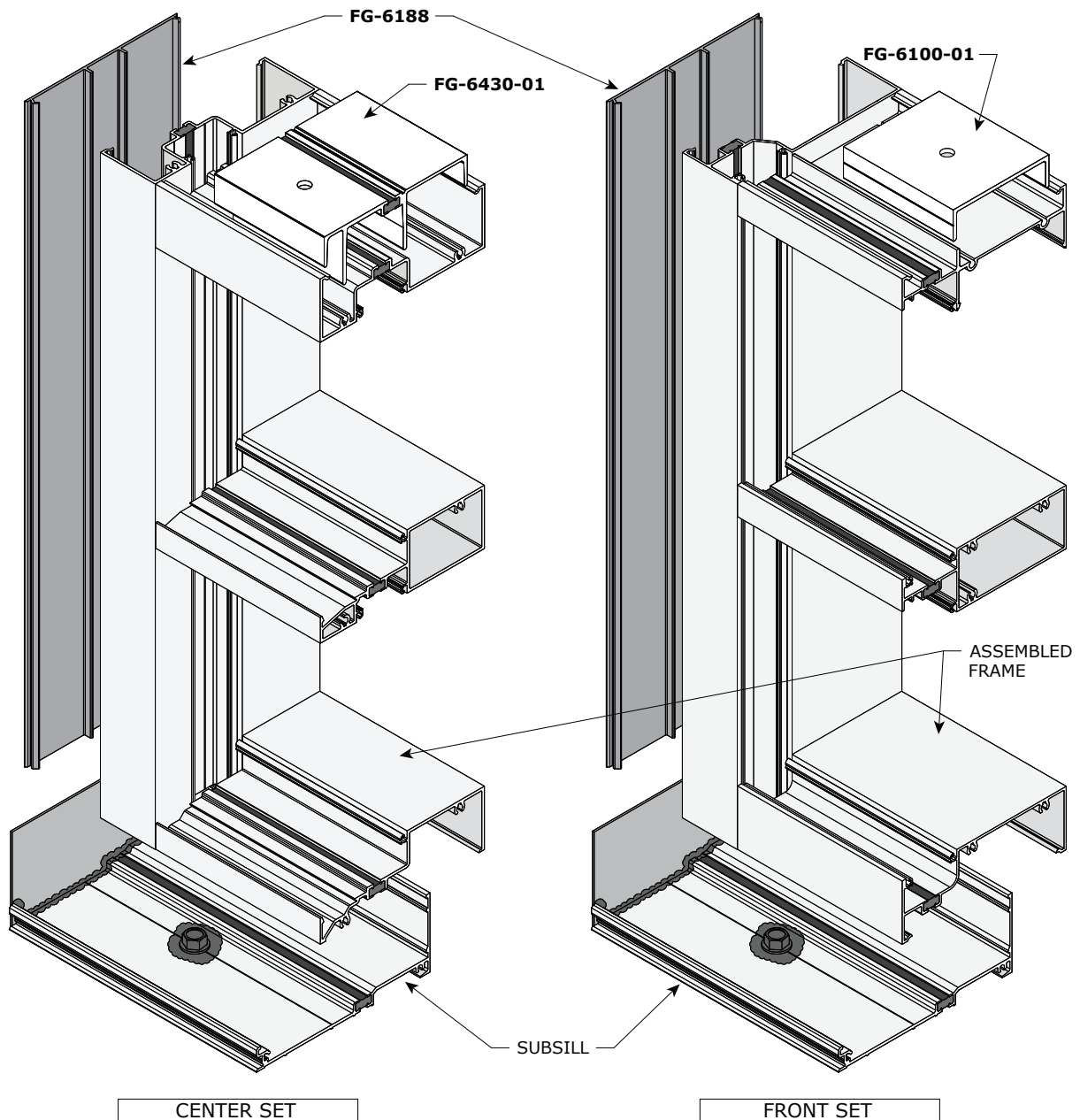


Figure 27: Panelized Frame Installation

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24.0 HIGH PERFORMANCE SILLS

Reference figures in this section for special installation procedures for the **FG-6533** Subsill with integral Sill Anchors. This application is available in both front and center set configurations and is intended for use when end reactions are greater than 600 lbs. up to and including a maximum of 750 lbs. The screw spline application is shown, but high performance Sills may also be used in Shear Block / stick-built applications. Note that there is no high performance Sill option for the front set, 8 p.s.f. low profile Sill and Subsill.

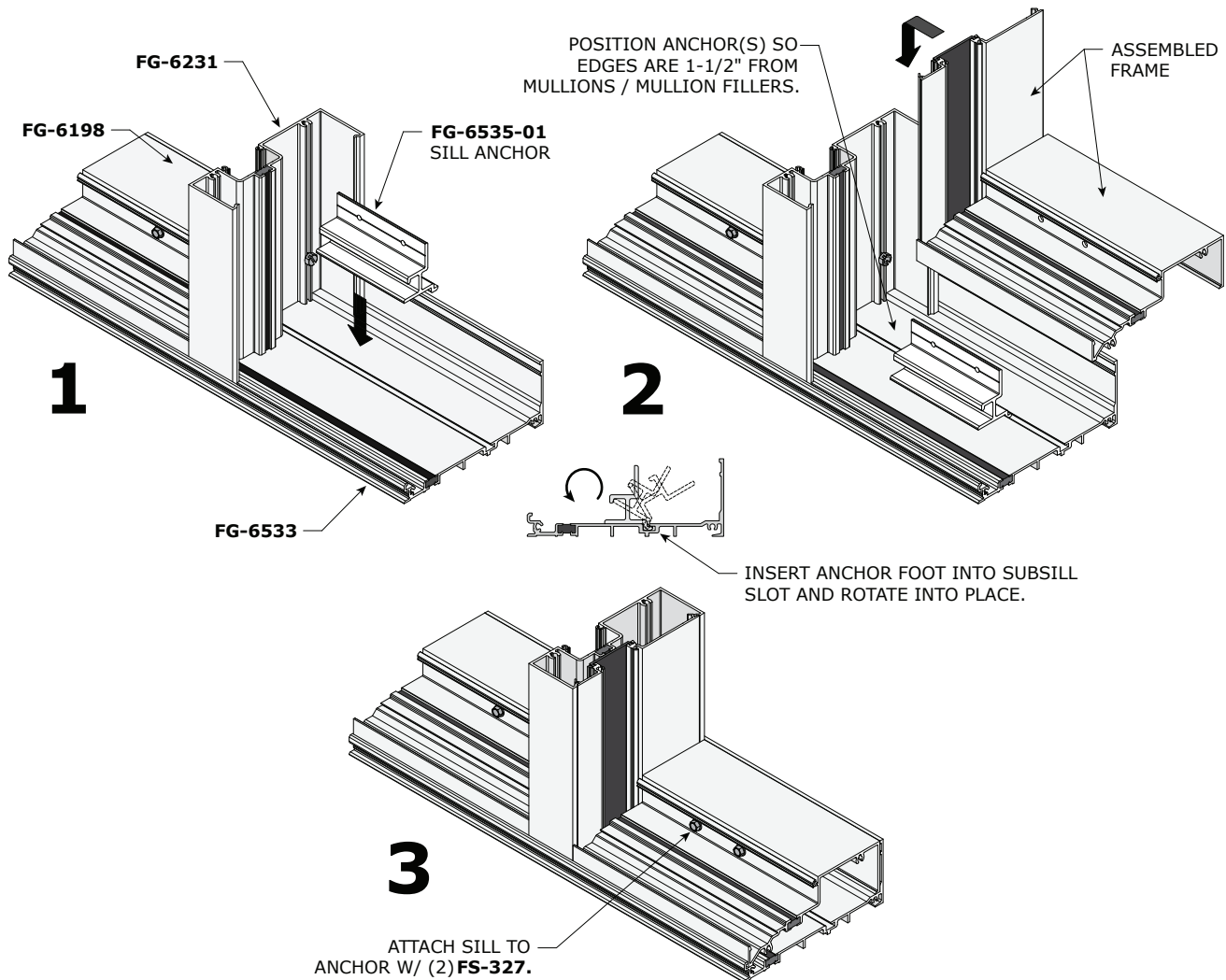


Figure 28: High Performance Sill - Center Set

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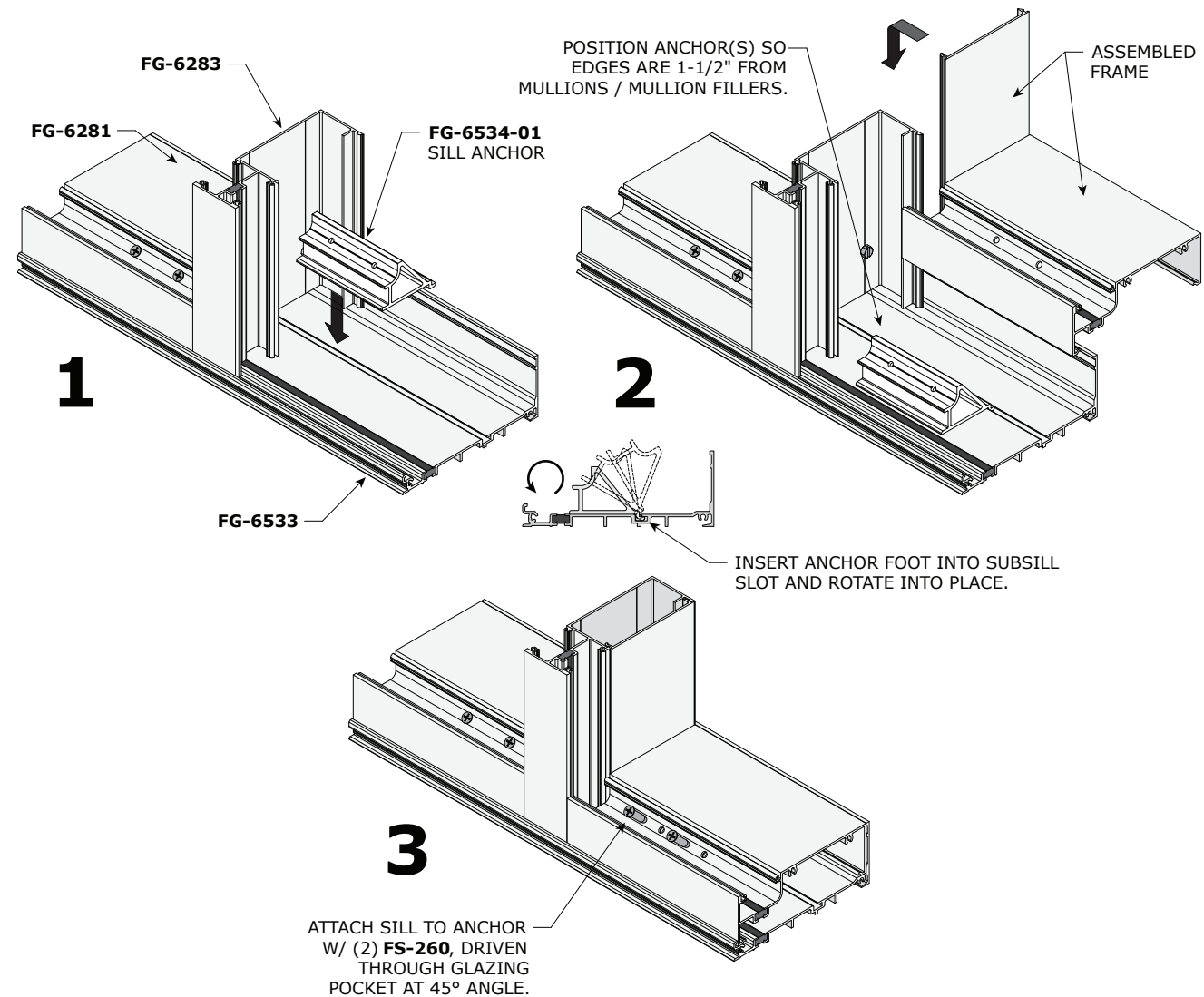


Figure 29: High Performance Sill - Front Set

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HEAD AND SILL SPLICING - FRONT SET 2-SIDED S.S.G SYSTEM

For elevation widths in excess of 24 feet using the front set 2-sided Structural Silicone Glazed system, the Head and Sill should be spliced at a maximum spacing of 20 feet on splice joint centerlines. Reference figures on this page and next and locate splice(s) at mid-lite.

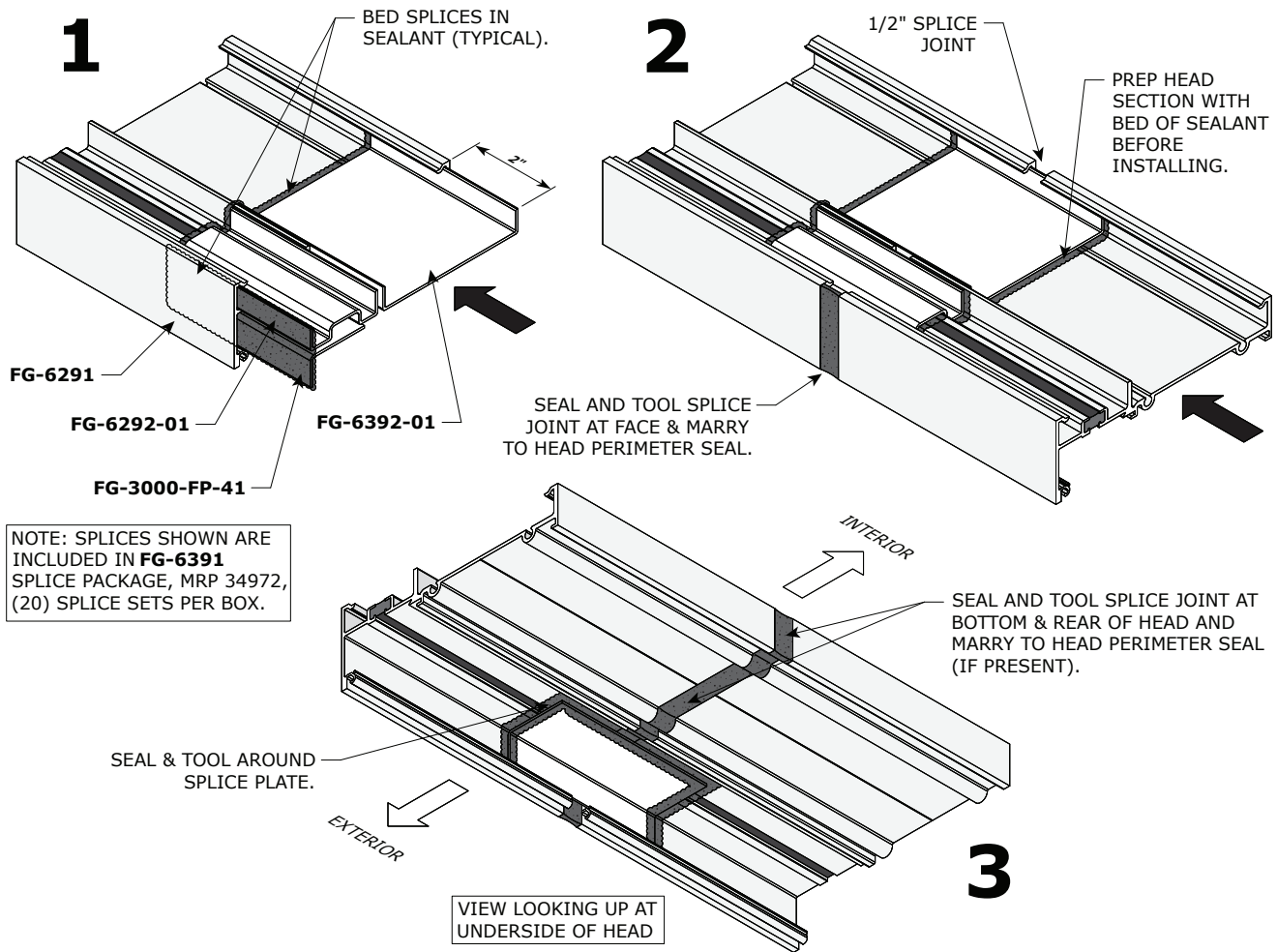


Figure 30: Head Splicing - Front Set 2-Sided S.S.G. System

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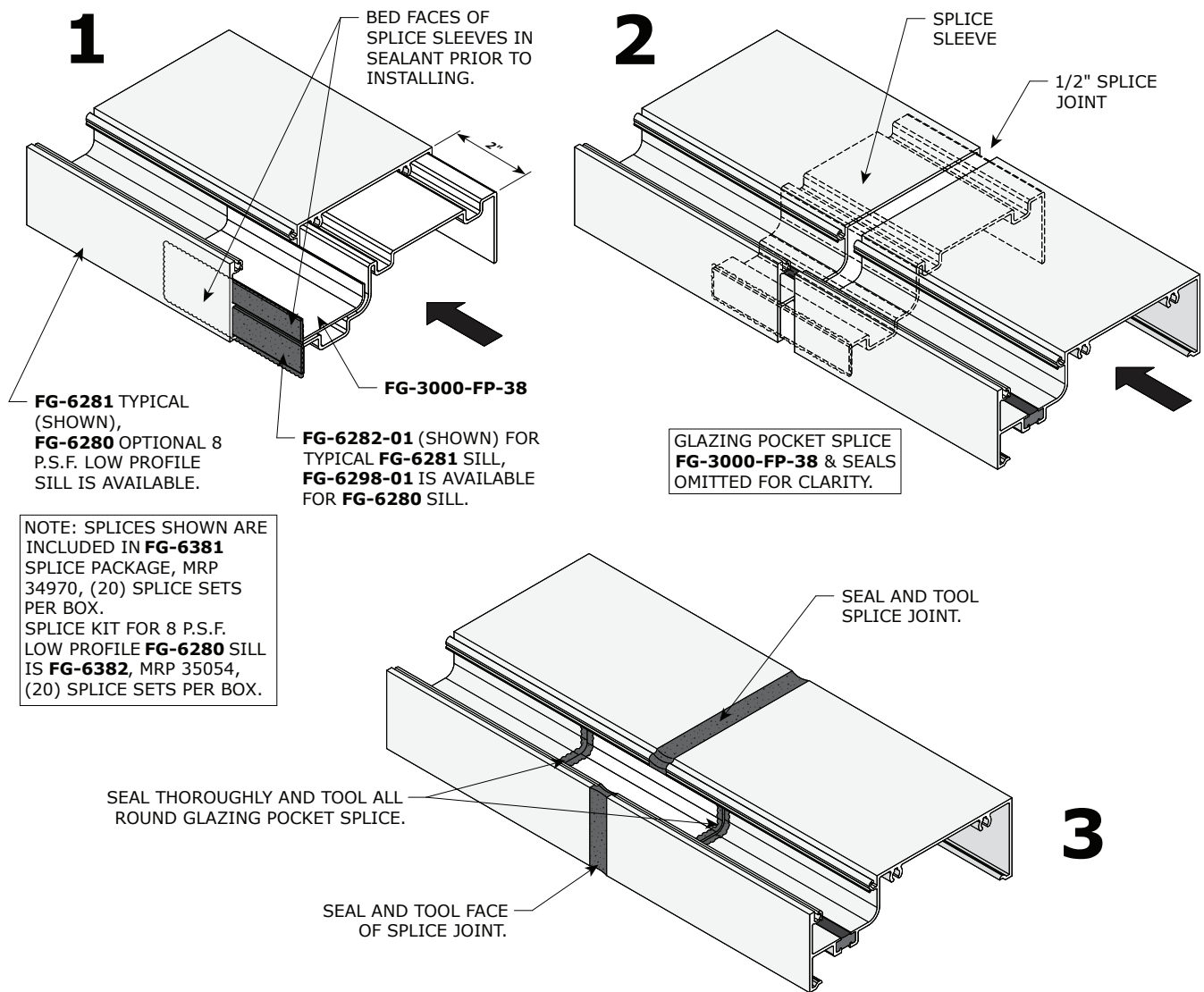


Figure 31: Sill Splicing - Front Set 2-Sided S.S.G. System

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DOOR JAMB AND SIDELITE INSTALLATION

Reference figure below for Door Jamb with Sidelite installation. Note that Door Jamb bypasses Subsill and runs to floor. Butt Subsill tight against Door Jamb. **FG-6344** thermal Sidelite Filler has been omitted from open back Jamb detail for clarity.

Note that the center set Door Jamb (shown) is available as either an open-back or tubular member, while the front set Door Jamb is available as open-back only. The front set Door Jamb (not shown) is **FG-6287**. The front set installation is otherwise identical to the center set as shown.

The **FG-6413** Subsill is shown; the procedure for other Subsills is similar.

Once Door Frame and Subsill are installed, continue installing storefront per this manual.

When using tubular Door Jambs, attach Horizontals (Sidelite Intermediates, Head and Sill, along with Door Header and Transom Head, if applicable) via Shear Block. Reference Entrance installation manuals for further information on Door framing members.

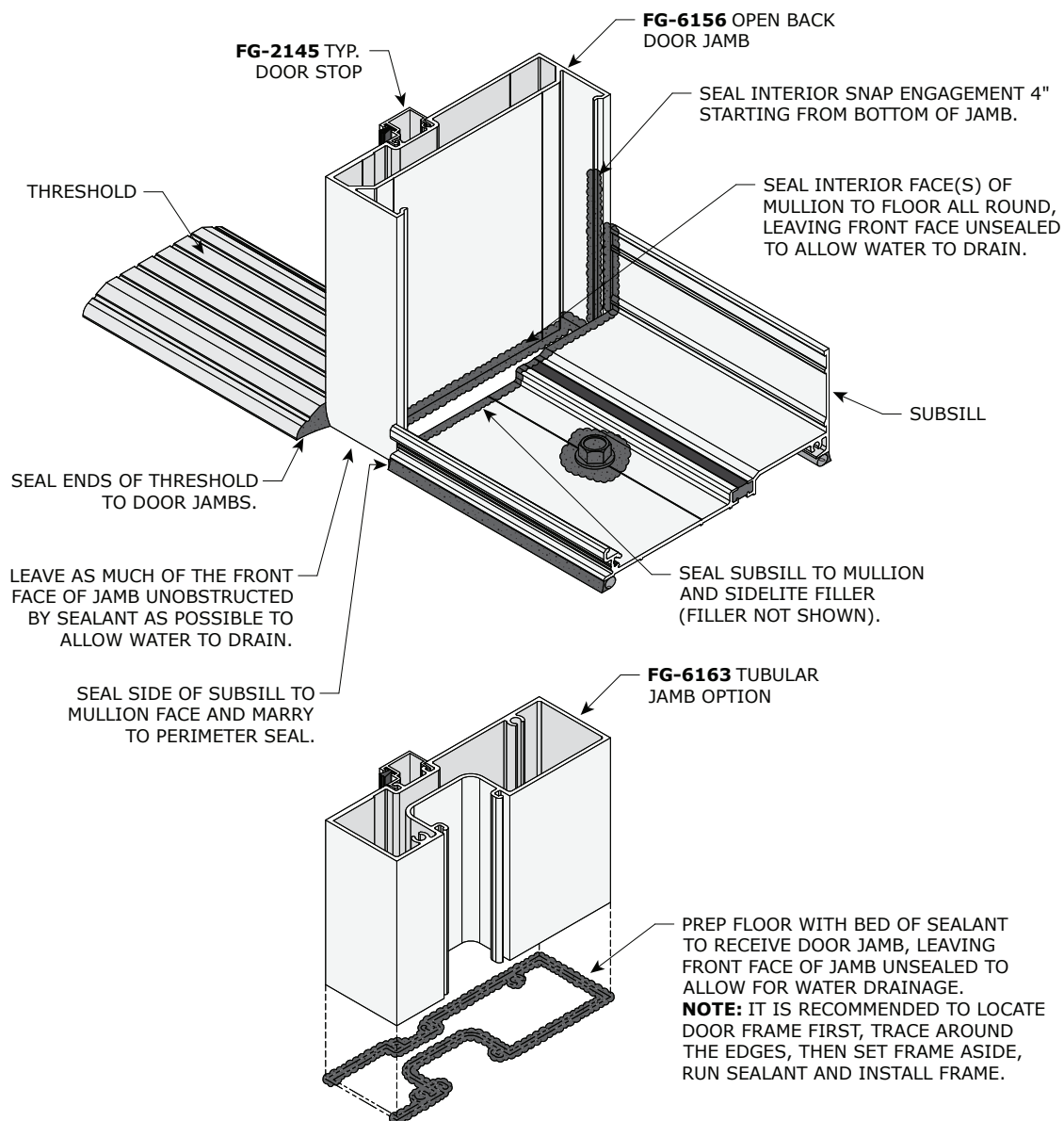


Figure 32: Entrance with Sidelite

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GLAZING

25.0 OUTSIDE GLAZING PROCEDURE

*Note: Reference Page 9 for glass sizing. Unroll and set gasket aside to relax overnight before glazing. Glaze lower lites first, then work upwards. This will allow for the installation of Water Diverters at Intermediate Horizontals without obstruction. **Clean all surfaces to be sealed with isopropyl alcohol prior to applying sealant.***

Reference figures in this section for glazing components and follow this procedure:

1. If glazing at Intermediate Horizontal, install Water Diverters first. Otherwise, begin at Step Two. Bed Diverters in sealant.
2. Place Setting Blocks in frame opening at 1/4 points or per approved shop drawings.
3. Install interior Gaskets first. Vertical Gaskets run through with horizontal Gaskets running between. Install vertical Gaskets first. For best results, starting at mid-D.L.O., install gasket at specific points along its reglet and work back toward ends of Mullion, leaving enough slack to come back and finish installing the portions between. This will mitigate relaxation over time and preserve edge pressure. Gaskets should be cut long by 1/4" per foot to account for this; refer to material cut lists on *Page 13*. Once vertical Gaskets are in place, install horizontal Gaskets. Horizontal Gaskets should be installed starting at setting block locations, with enough slack to work both inward and outward without stretching Gasket.
4. Wet tops of Setting Blocks with soapy water. Carefully angling infill into deep pocket first, position and center glazing in opening side to side so that 7/16" glass bite is maintained at each end of Horizontal. Infill may be marked with a non-permanent marker to align intended D.L.O. locations prior to installation. Lower infill onto Setting Blocks, pushing back against interior Gaskets in Setting Block areas. Failure to do so may cause diagonal cracks to appear toward Setting Blocks due to glass bending as Gaskets are installed and sealed at D.L.O. corners. *Note: Carefully lift infill and re-position Setting Blocks if necessary to provide full support for glazing.*
5. Install Glass Stop.
6. Install exterior Gaskets. Again, vertical Gaskets run through with horizontal Gaskets running between. Use same procedure as outlined in Step 3.
7. Once all Gaskets are installed, pull ends of exterior horizontal and vertical Gaskets from their reglets at each corner and fill final 2" of horizontal and vertical glazing reglets with sealant. Push vertical Gasket back into reglet at corner, then do the same for the horizontal Gasket. Compress any slack back toward D.L.O. to fully seal horizontal Gaskets to vertical Gaskets. Immediately wipe away any excess sealant. Reference **Figure 33** below.
8. Repeat Step 7 for interior Gaskets.

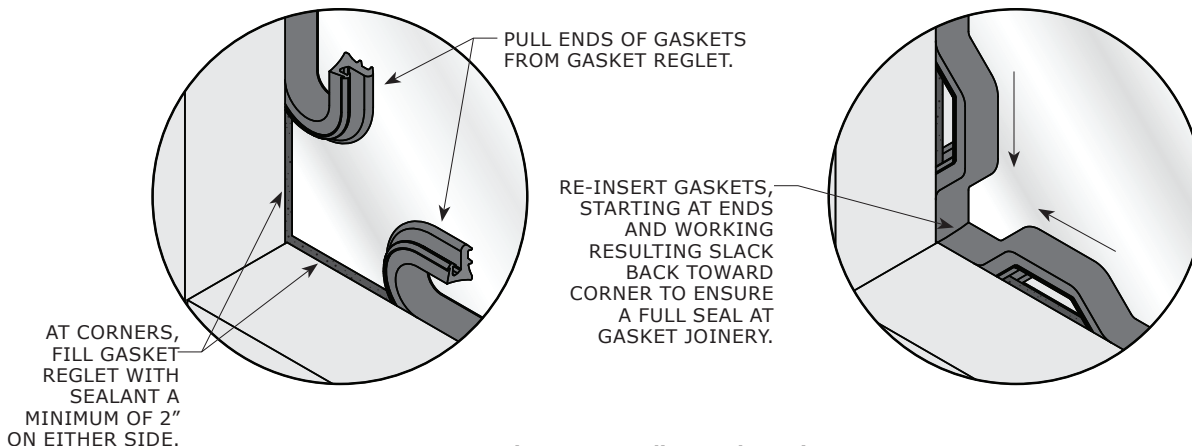


Figure 33: Sealing Gasket Joinery

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26.0 CENTER SET GLAZING

Note: The center set system is available in outside glazed applications only.

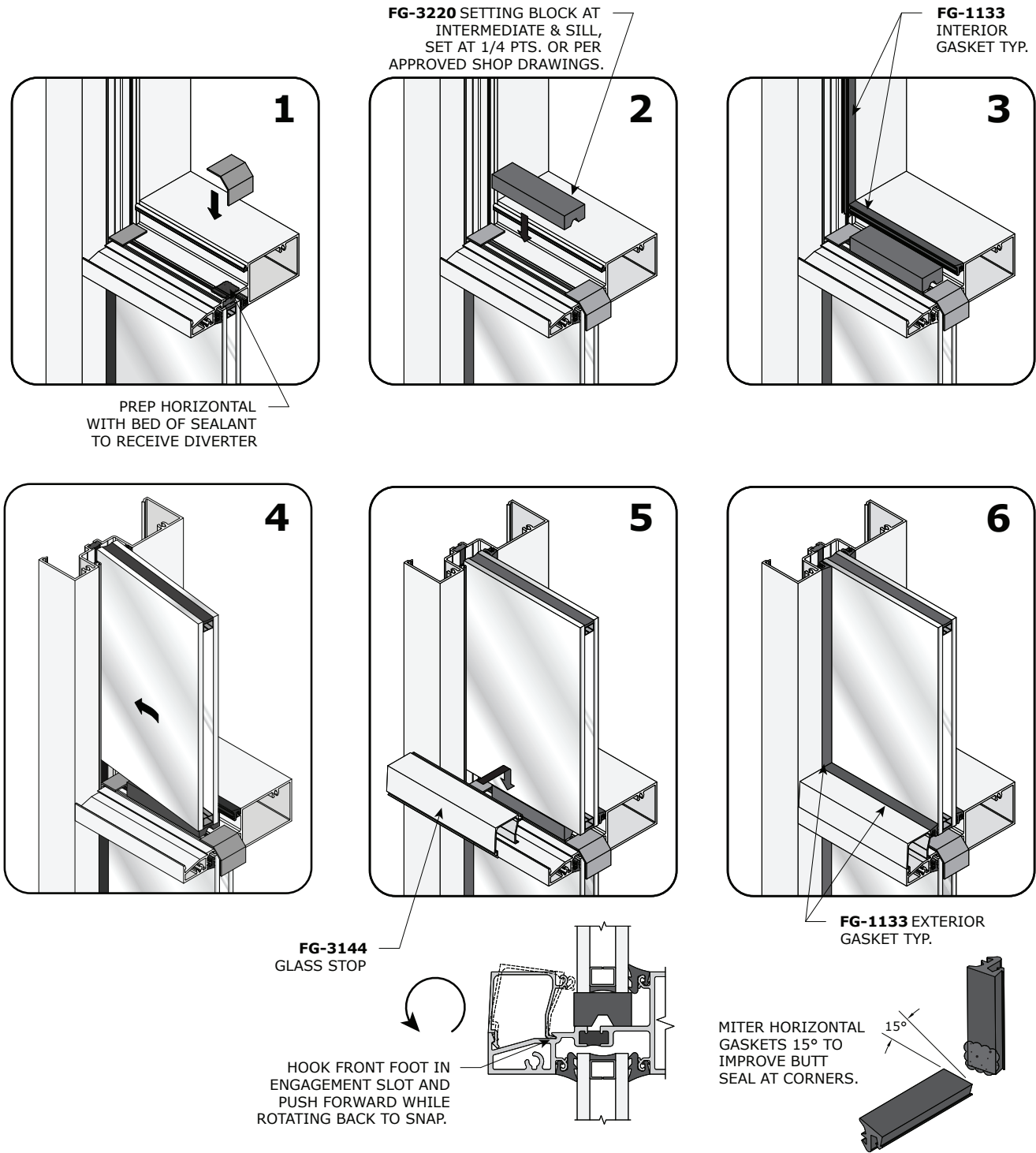


Figure 34: Glazing - Center Set

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27.0 FRONT SET, OUTSIDE GLAZING

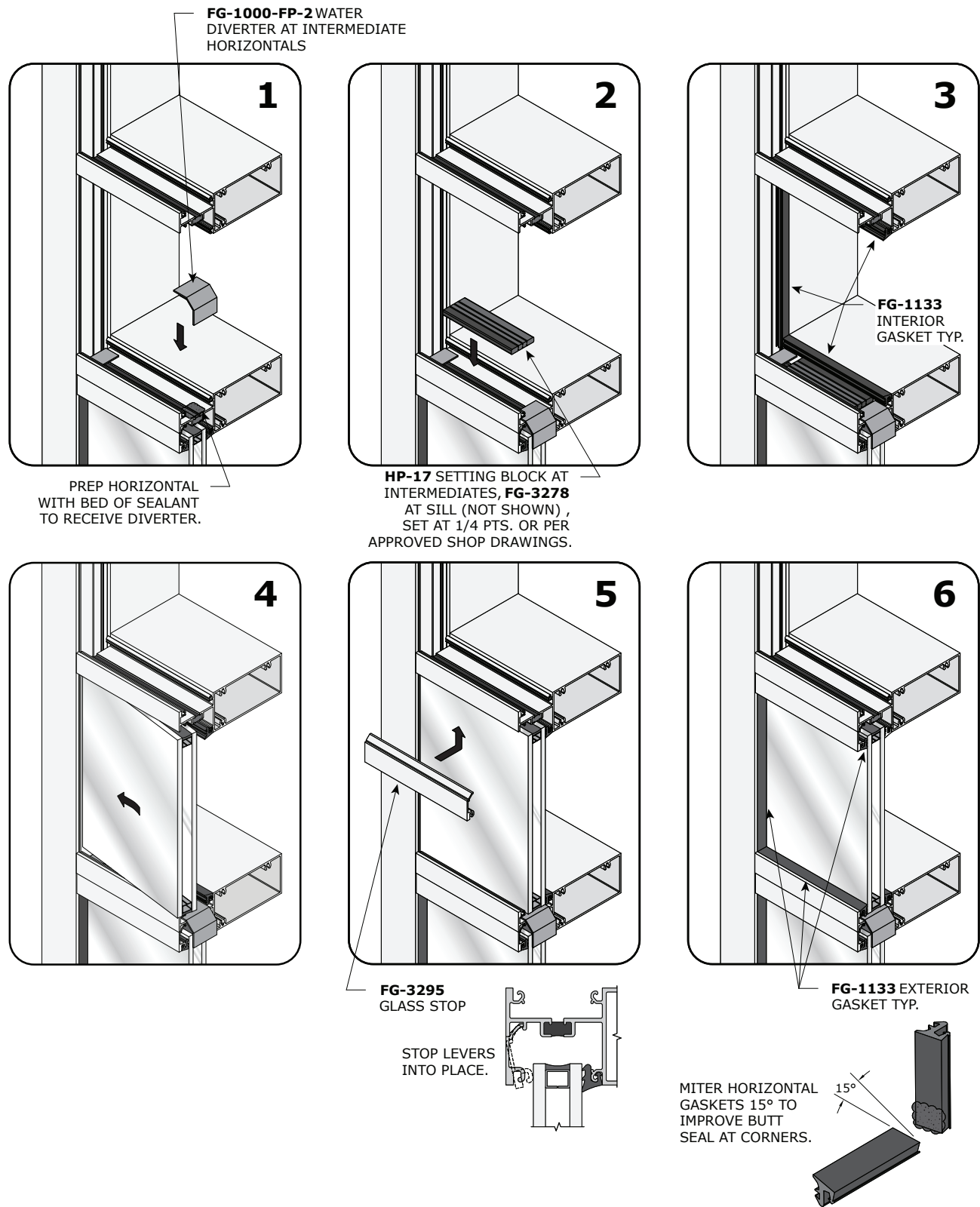


Figure 35: Glazing - Front Set, Outside Glazed

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28.0 INSIDE GLAZING PROCEDURE

*Note: Reference Page 9 for glass sizing. Unroll and set gasket aside to relax overnight before glazing. Glaze lower lites first, then work upwards. This will allow for the installation of Water Diverters at Intermediate Horizontals without obstruction. **Clean all surfaces to be sealed with isopropyl alcohol prior to applying sealant.***

Reference figures in this section for glazing components and follow this procedure:

1. If glazing at Intermediate Horizontal, install Water Diverters first. Otherwise, begin at Step Two. Bed Diverters in sealant.
2. Place Setting Blocks in frame opening at 1/4 points or per approved shop drawings.
3. Install exterior Gaskets first. Vertical Gaskets run through with horizontal Gaskets running between. Install vertical Gaskets first. For best results, starting at mid-D.L.O., install gasket at specific points along its reglet and work back toward ends of Mullion, leaving enough slack to come back and finish installing the portions between. This will mitigate relaxation over time and preserve edge pressure. Gaskets should be cut long by 1/4" per foot to account for this; refer to material cut lists on *Page 13* Once vertical Gaskets are in place, install horizontal Gaskets. Horizontal Gaskets should be installed starting at setting block locations, with enough slack to work both inward and outward without stretching Gasket.
4. Wet tops of Setting Blocks with soapy water. Carefully angling infill into deep pocket first, position and center glazing in opening side to side so that 7/16" glass bite is maintained at each end of Horizontal. Infill may be marked with a non-permanent marker to align intended D.L.O. locations prior to installation. Lower infill onto Setting Blocks, pushing back against interior Gaskets in Setting Block areas. Failure to do so may cause diagonal cracks to appear toward Setting Blocks due to glass bending as Gaskets are installed and sealed at D.L.O. corners. *Note: Carefully lift infill and re-position Setting Blocks if necessary to provide full support for glazing.*
5. Install Glass Stop.
6. Install interior Gaskets. Again, vertical Gaskets run through with horizontal Gaskets running between. Use same procedure as outlined in Step 3.
7. Once all Gaskets are installed, pull ends of interior horizontal and vertical Gaskets from their reglets at each corner and fill final 2" of horizontal and vertical glazing reglets with sealant. Push vertical Gasket back into reglet at corner, then do the same for the horizontal Gasket. Compress any slack back toward D.L.O. to fully seal horizontal Gaskets to vertical Gaskets. Immediately wipe away any excess sealant. Reference **Figure 36** below.
8. Repeat Step 7 for exterior Gaskets.

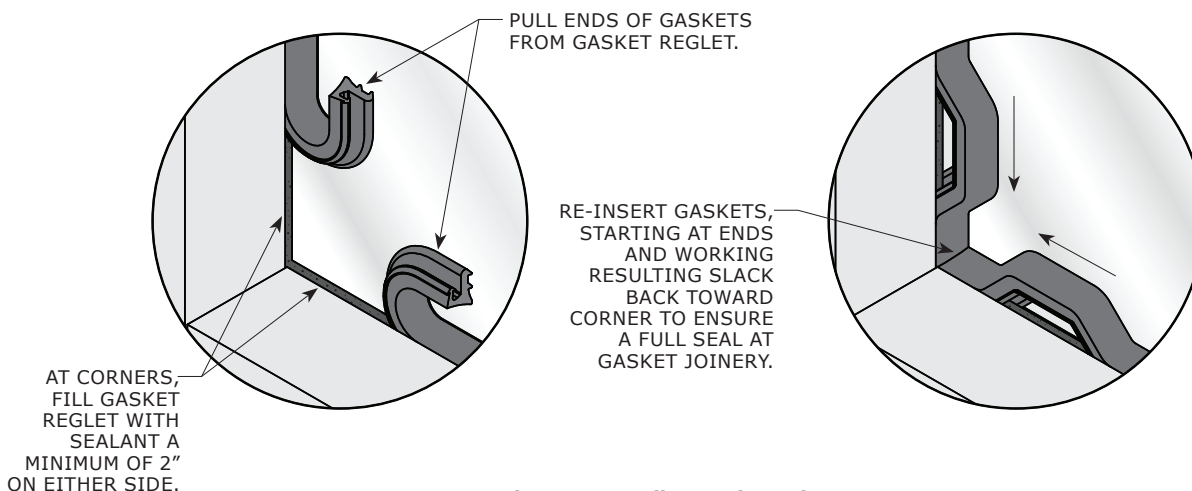


Figure 36: Sealing Gasket Joinery

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29.0 FRONT SET, INSIDE GLAZING

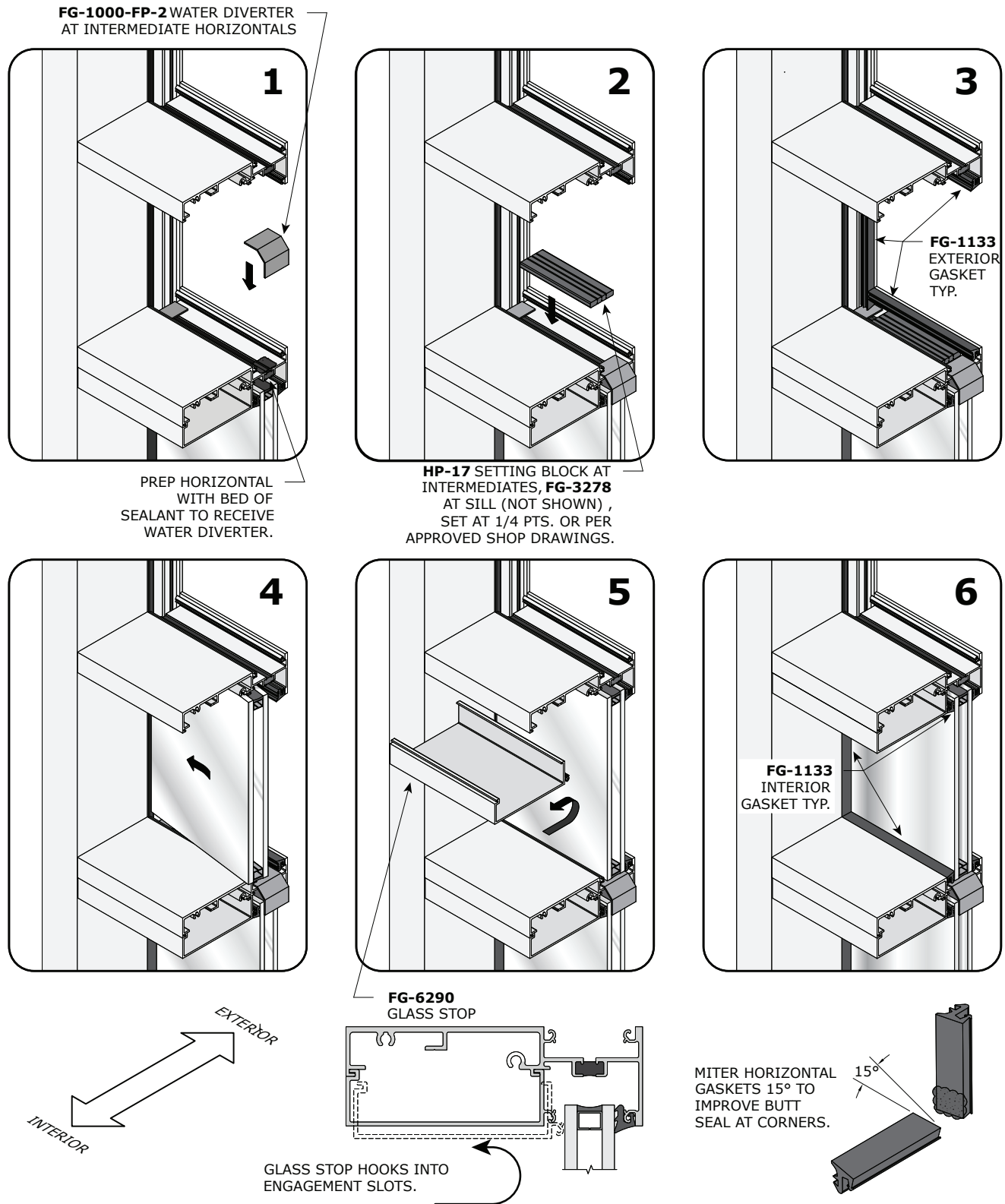


Figure 37: Glazing - Front Set, Inside Glazed

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30.0 S.S.G. GLAZING PROCEDURE - FRONT SET, 2-SIDED S.S.G. SYSTEM

*Note: For glazing at captured Verticals, reference inside glazed system glazing procedure per previous 2 Sections. For structural silicone glazing procedure, reference Figures in this Section and follow the below steps. Reference Page 9 for glass sizing. Unroll and set Gasket aside to relax overnight before glazing. **Thoroughly clean all structural and weather seal areas of both glass and aluminum with isopropyl alcohol prior to running seals.** Glaze from the bottom of elevation up. Install all Funnel Bridges and exterior horizontal Gasket across width of elevation prior to glazing each level of Intermediate Horizontal openings (as applicable).*

For glazing at S.S.G. Verticals, reference corresponding figures and steps in this section and follow this procedure:

1. Install **FG-3000-PP-53** Funnel Bridge at intersection of S.S.G. Vertical and Intermediate Horizontals. Attach with (2) **FS-202** Fasteners per Bridge.
2. Cap seal Fasteners and seal all round joinery of Funnel Bridge to Horizontals.
3. Place Setting Blocks in frame, two (2) per opening at 1/4 points or per approved shop drawings. Note that lower level of openings will be glazed into Sill using **FG-3278** Setting Blocks, while infill above Intermediate Horizontals will use **HP-17** Setting Blocks as shown.
4. If glazing above an Intermediate Horizontal, cut **HP-1004** Weep Baffles to 1-1/2" and install into Funnel Bridge. Install **FG-3335** Face Cover at bottom of opening, hooking over catch leg of Horizontal and trapping Baffle between Face Cover and Bridge.
5. Install exterior **FG-1133** horizontal Gaskets in top & bottom of opening. Gaskets run continuously across width of elevation apart from at Face Cover splice joints (see next Section). For best results, starting at mid-point of eventual Face Cover locations, install Gaskets at specific points along their reglets and work back toward ends of Horizontal, leaving enough slack to come back and finish installing the portions between. This will mitigate relaxation over time and preserve edge pressure. Gaskets should be cut over long by 1/4" per foot to account for this; refer to material cut lists on *Page 14*. At each Funnel Bridge spout location, notch Gasket dart flush with body to clear.
6. Note that glazing of system will be from the interior. Wet tops of Setting Blocks with soapy water. Carefully angling infill into glazing pocket first (if at captured Vertical) or around Mullions (if at S.S.G. Verticals), position in opening side to side so that 3/4" glass bite is maintained at S.S.G. Verticals and 7/16" at captured Verticals. Infill may be marked with a non-permanent marker to align intended D.L.O. locations prior to glazing. Lower infill onto Setting Blocks, pushing forward gently against exterior Gaskets. *Note: Carefully lift infill and re-position Setting Blocks if necessary to provide full support for glazing.*
7. Install **FG-6290** Glass Stops.
8. Install 4" lengths of **FG-1133** interior horizontal Gasket at intervals along top and bottom of opening. These will serve as temporary retainers to push the infill out enough to install vertical S.S.G. Spacer Gaskets. Use a minimum of two (2) retainers both top and bottom, one (1) at each Setting Block location and one (1) additional at mid-D.L.O. for openings greater than 4 feet horizontally.
9. Once all glass is in place, return to exterior of building and install **SPW-PP-3** Temporary Glazing Clips along S.S.G. Verticals. Position Clips 3" from edges of glass with at least one (1) intermediate clip between for D.L.O.'s of 4 feet or more, spaced evenly.
10. Install **HP-30066** interior S.S.G. Spacer Gasket from the interior, pushing into place until Spacer engages face of Mullion.
11. Remove temporary sections of interior Gasket. Clean final 2" and each end of **FG-1133** interior horizontal Gaskets with isopropyl alcohol. This will ensure adequate bond is

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maintained where horizontal Gasket butts into structural Sealant joint. Install in opening, both top and bottom. After horizontal Gaskets are in place, carefully lift and re-position infill again, pushing back against interior Gaskets at Setting Block locations. Failure to do so may cause diagonal cracks to appear toward Setting Blocks due to glass bending as Gaskets are installed and sealed at D.L.O. corners. *Note: Re-position Setting Blocks as necessary to provide full support for glazing.*

12. Repeat steps 1-11 for subsequent lites of glass across row of elevation.
13. Run structural seals along S.S.G. Verticals, tooling as necessary to maintain a thorough, homogeneous joint free of air pockets. Use masking tape to protect surfaces of infill and Mullions in order to produce cosmetically appealing seals. Tool seals to ends of interior horizontal Gaskets where they intersect with structural seal. Remove Temporary Clips once structural seals have cured.
14. Return to exterior of building and seal and tool exterior weather seal joints between glass lites, taking care to eliminate any air pockets or bubbles. Use masking tape on infill to produce aesthetically pleasing sealant joints. It may be helpful to temporarily remove exterior horizontal Gaskets for this operation and re-install after. Weather seal joints may be applied either immediately after running structural seals or after they have cured and Temporary Clips are removed. If applied immediately, once structural seals have cured and Clips removed, fill resulting gaps with sealant, marrying to already existing weather seals.
15. Continue on to next level of openings.

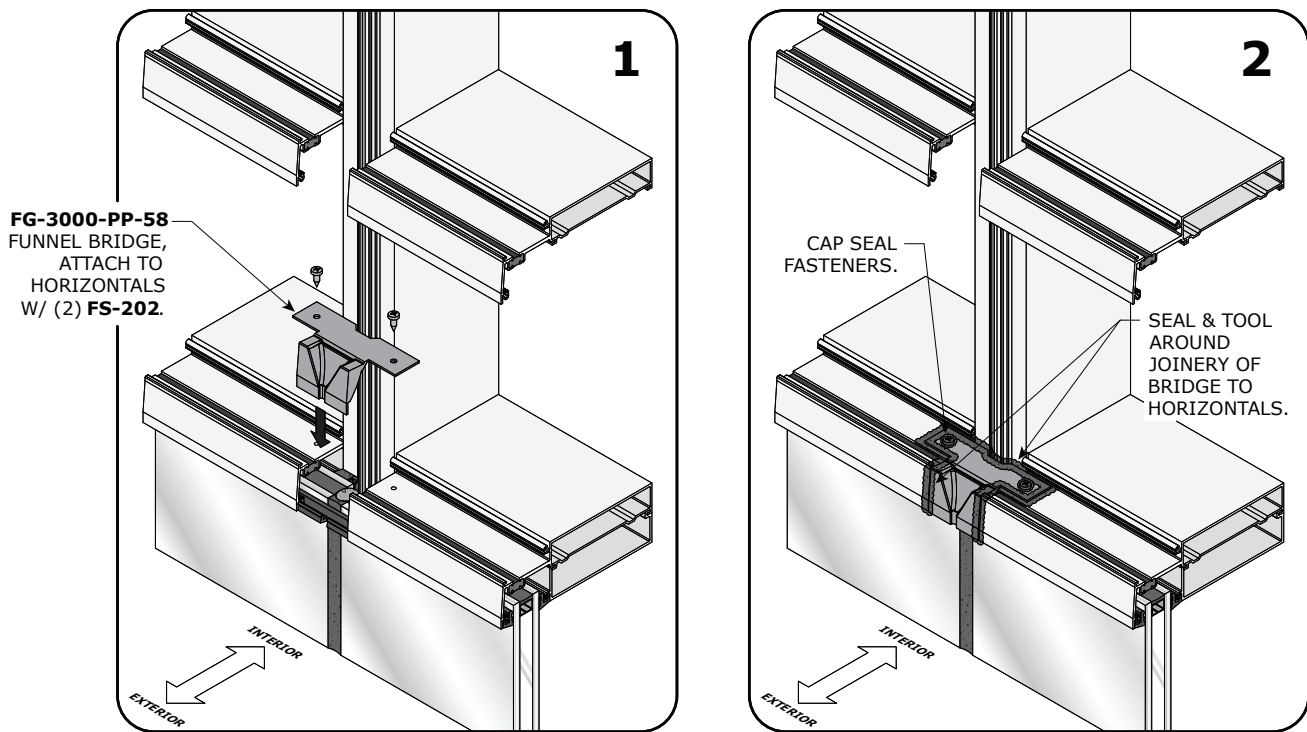


Figure 38: Structural Silicone Glazing

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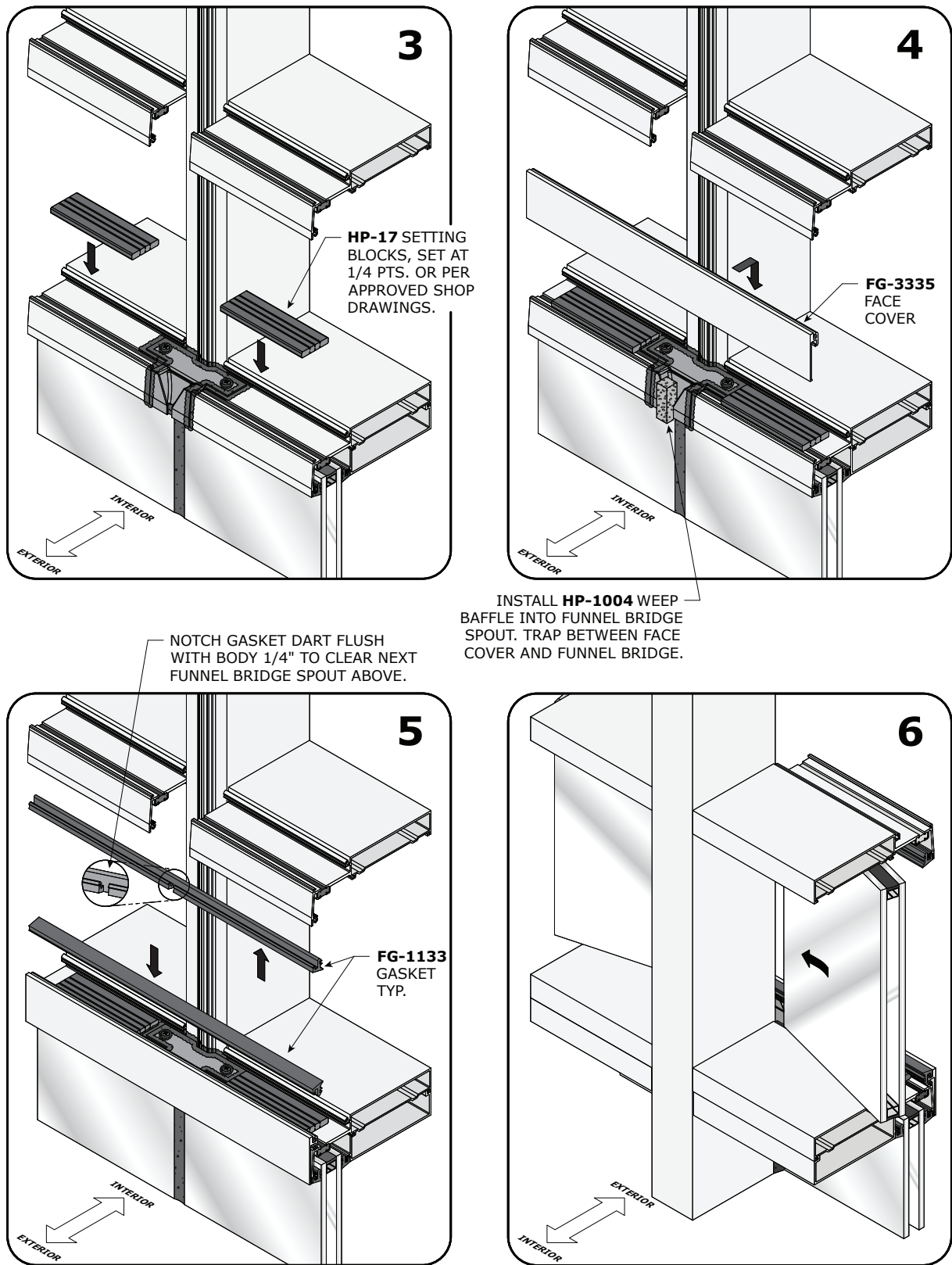


Figure 39: Structural Silicone Glazing

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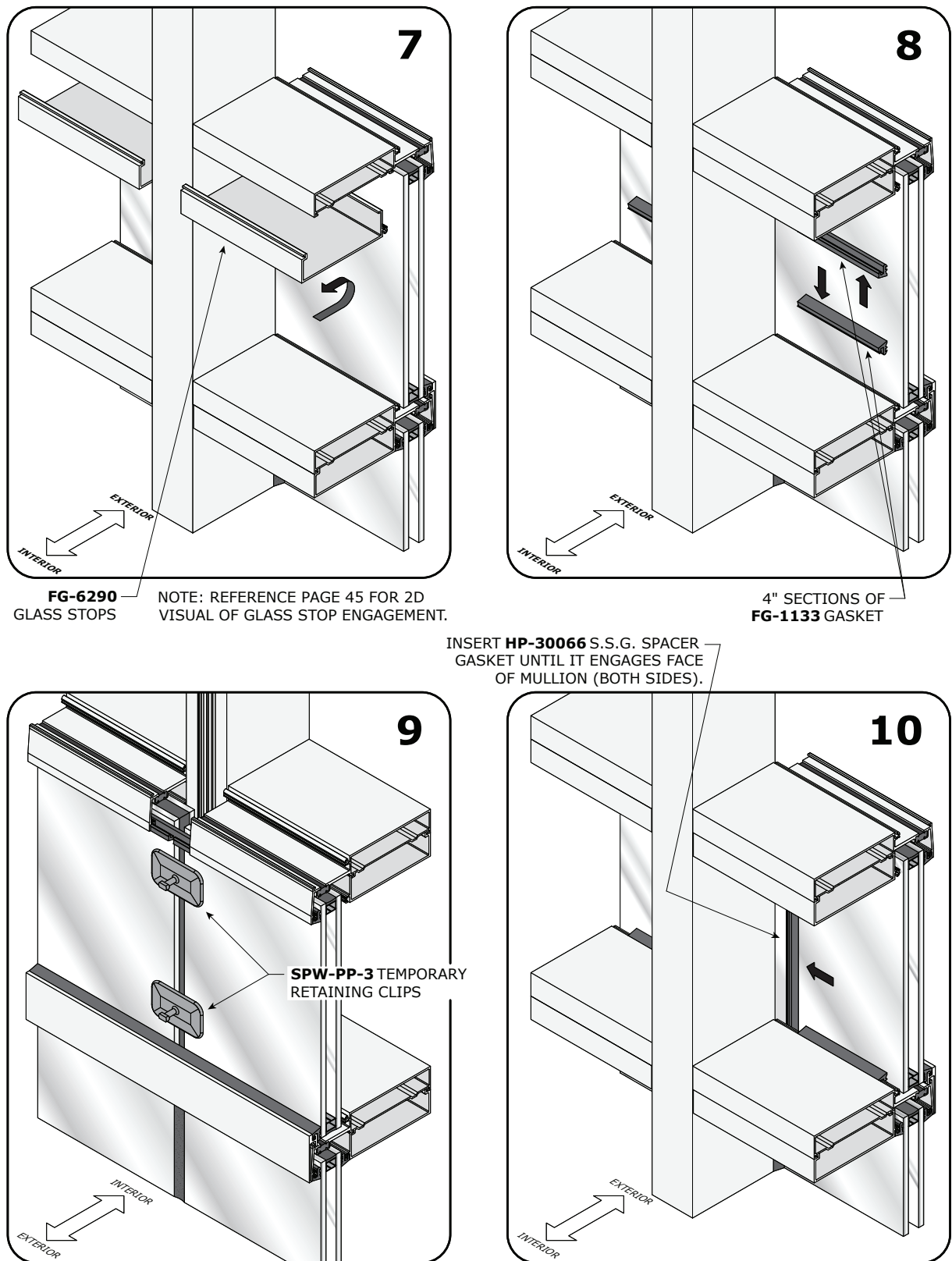


Figure 40: Structural Silicone Glazing

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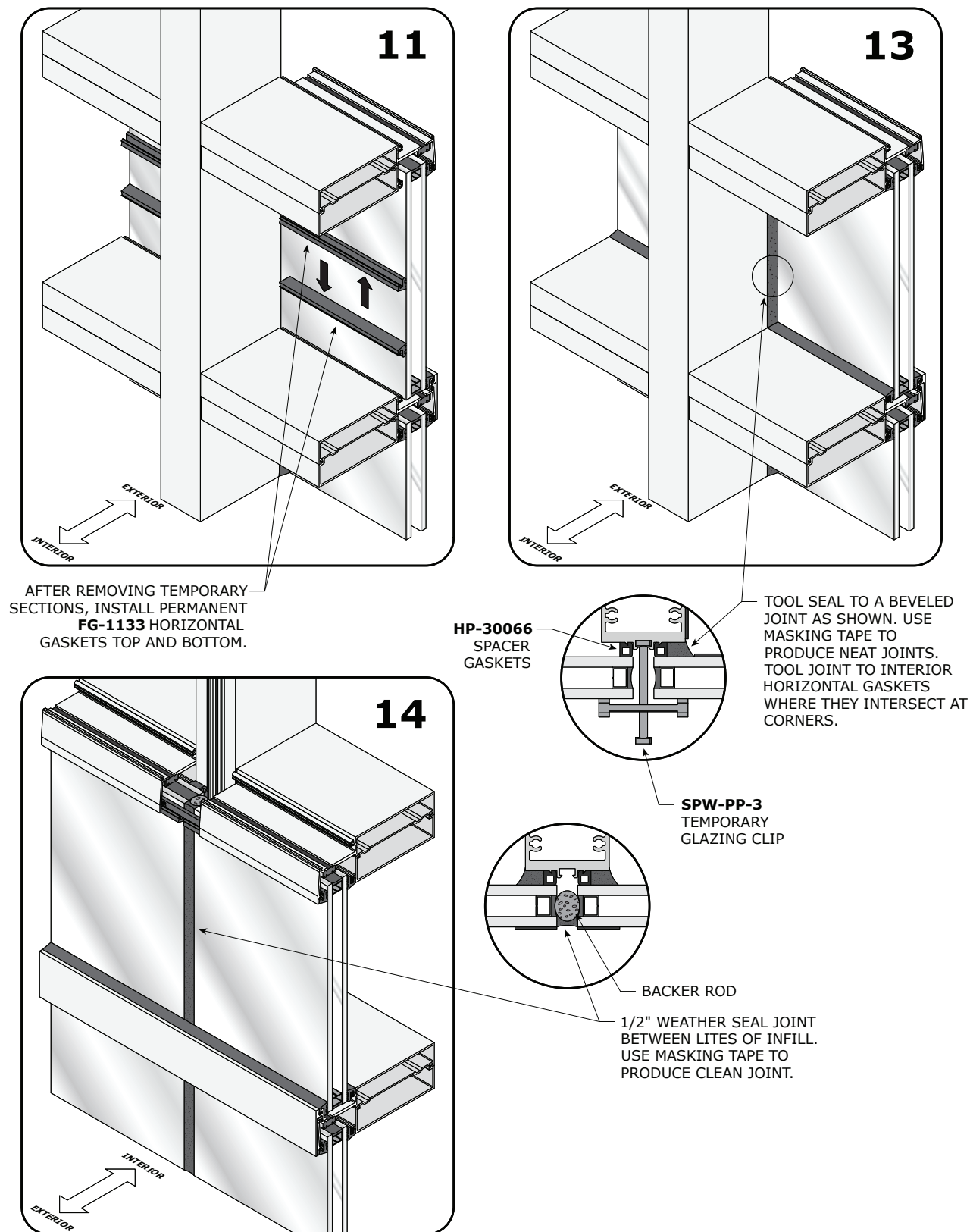


Figure 41: Structural Silicone Glazing

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31.0 FG-3335 FACE COVER SPLICING

The **FG-3335** Face Cover should be a maximum of 20 feet in length. Splice every third bay or at the maximum, whichever is shorter. Splice locations will be confined to Mullion centerlines, so spacing should be adjusted accordingly, but never exceed the 20 foot maximum. At splice joints, cut the **HP-1004** Baffle to 2" in length and use as Backer Rod to seal joint, trapping under ends of Face Cover sections. Note that bottom of splice joint is left free of sealant to allow Funnel Bridge to weep moisture. Horizontal Gasket at bottom of Funnel Spout runs continuous through splice joint and across elevation, with notches to clear Funnel Bridge spouts per previous Section. Splice joint will be 1/4" and will marry to weather seal between lites of glass above.

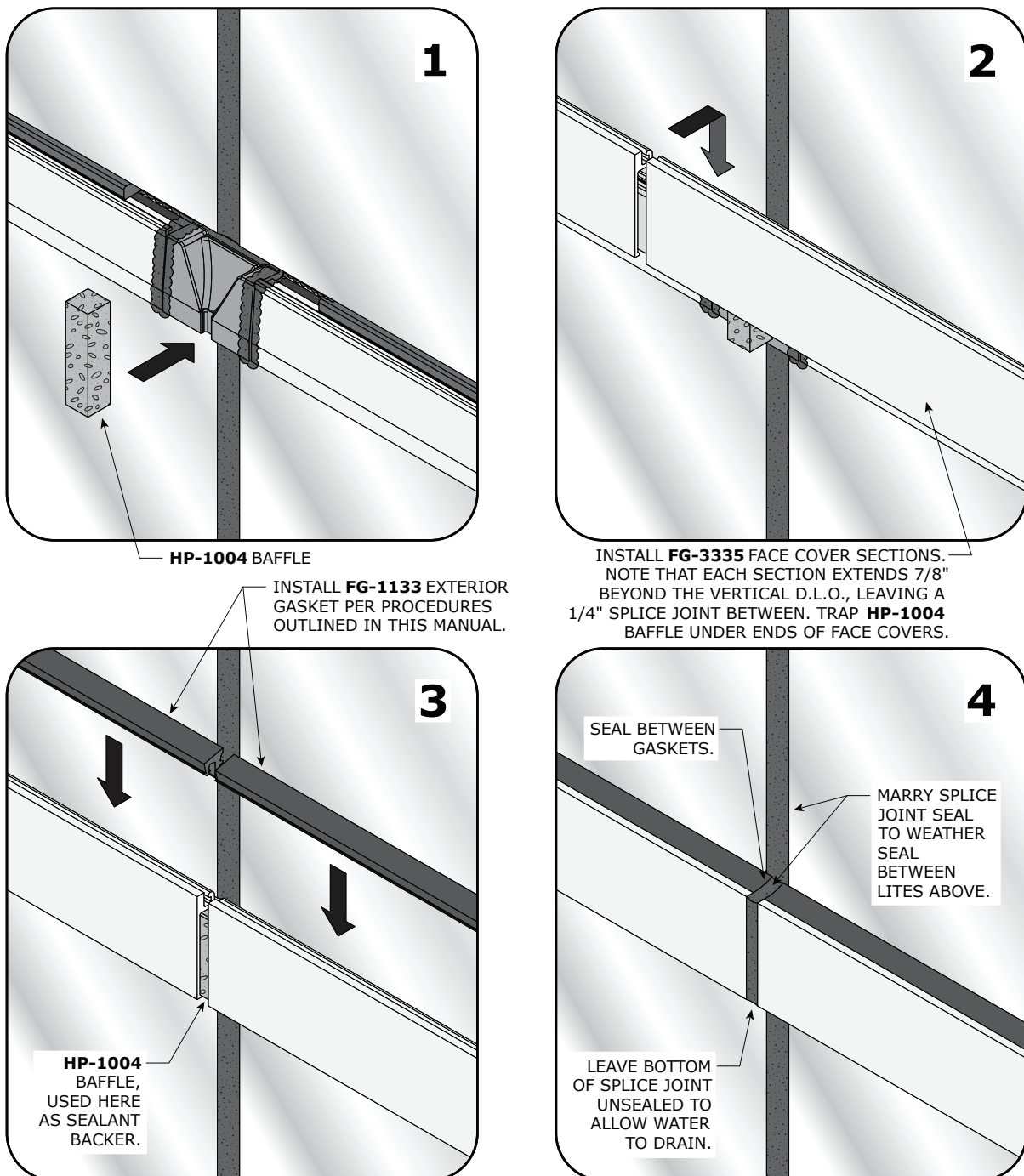


Figure 42: Face Cover Splicing

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GLAZING OPTIONS AND POCKET REDUCERS

Reference the below figure and table for Pocket Reducers and glazing options. Vertical Reducers run through with horizontal Reducers running between. Reference Material Cut List on *Page 13*. All Reducers are set in sealant. Seal joinery of horizontal to vertical Reducers. Reducers should be used on the interior side of glazing pocket only. Note that the **FG-6344** thermal Filler gets special Adaptors per below table.

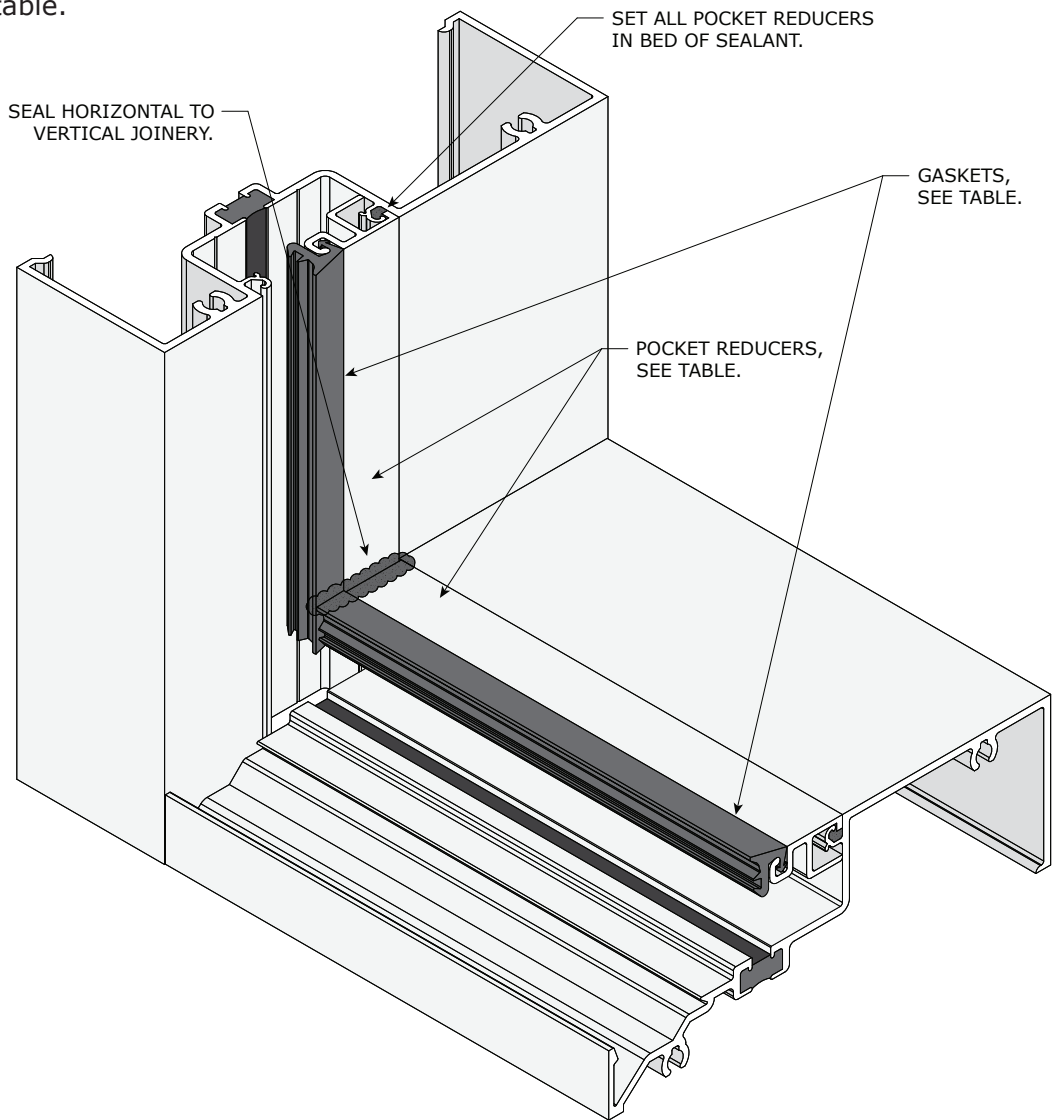


Figure 43: Pocket Reducers & Glazing Options

INFILL	REDUCER - TYP. / FG-6344	GASKETS
1/4"	FG-3194 / FG-3594	FG-1133 (BOTH)
5/16"	FG-3236 / FG-3536	FG-5125 (BOTH)
3/8"	FG-3236 / FG-3536	FG-1133 / FG-5125
7/16"	FG-3236 / FG-3536	FG-1133 (BOTH)
1/2"	FG-3237 / FG-3537	FG-5125 (BOTH)
9/16"	FG-3237 / FG-3537	FG-1133 / FG-5125
5/8"	FG-3237 / FG-3537	FG-1133 (BOTH)
11/16"	FG-3237 / FG-3537	FG-1133 / FG-1134

INFILL	REDUCER - TYP. / FG-6344	GASKETS
3/4"	FG-3237 / FG-3537	FG-1134 (BOTH)
13/16"	N/A	FG-1133 / FG-3129
7/8"	N/A	FG-5125 (BOTH)
15/16"	N/A	FG-1133 / FG-5125
1"	N/A	FG-1133 (BOTH)
1-1/16"	N/A	FG-1133 / FG-1134
1-1/8"	N/A	FG-1134 (BOTH)

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TYPICAL CORNER DETAILS

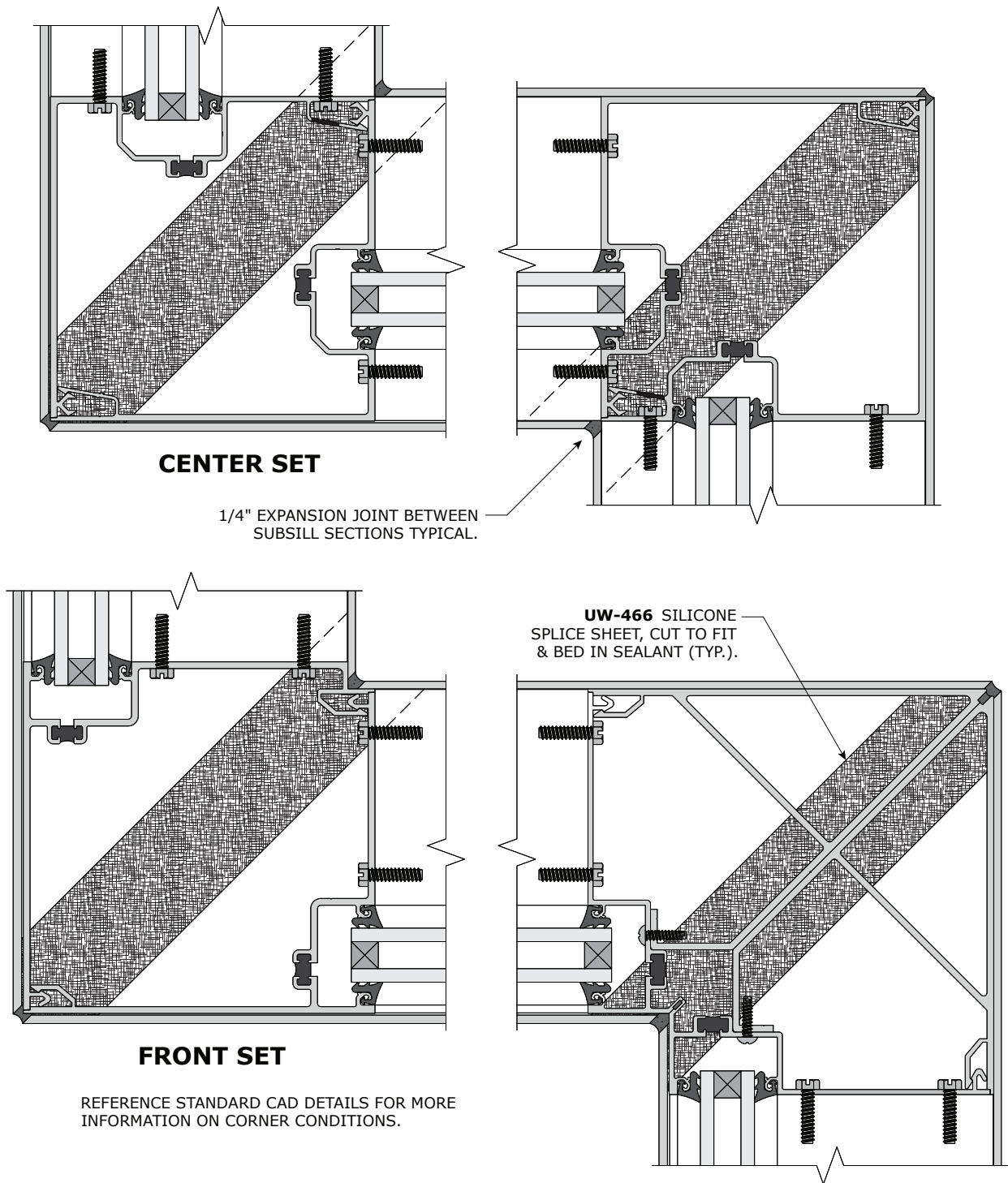


Figure 44: Typical Corner Details

Series 6000 Thermal MultiPlane Installation and Glazing Manual

DRILL FIXTURES

32.0 CENTER SET SYSTEMS

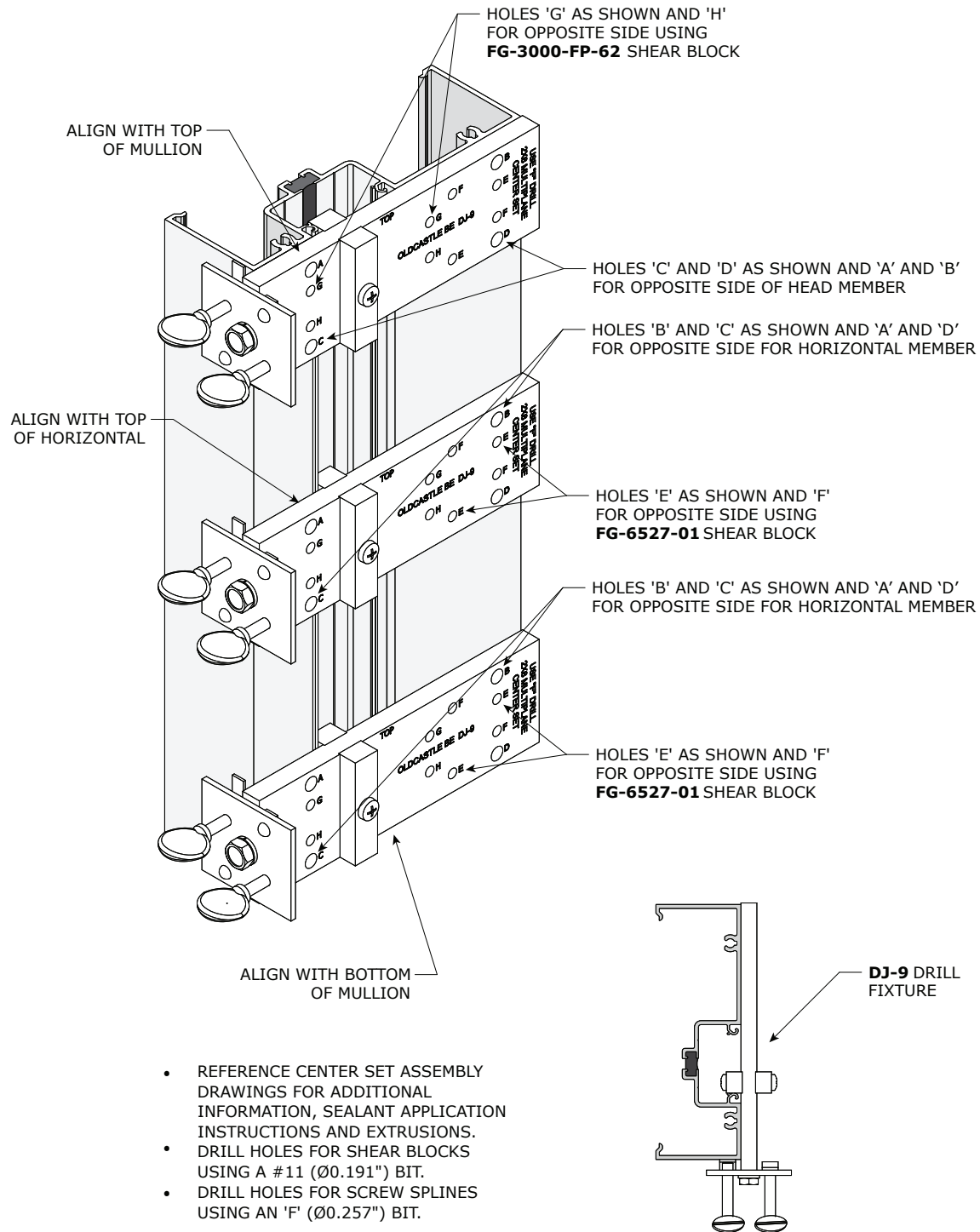


Figure 45: DJ-9 Drill Fixture for Center Set Systems

Series 6000 Thermal MultiPlane Installation and Glazing Manual

33.0 FRONT SET, SCREW SPLINE SYSTEMS

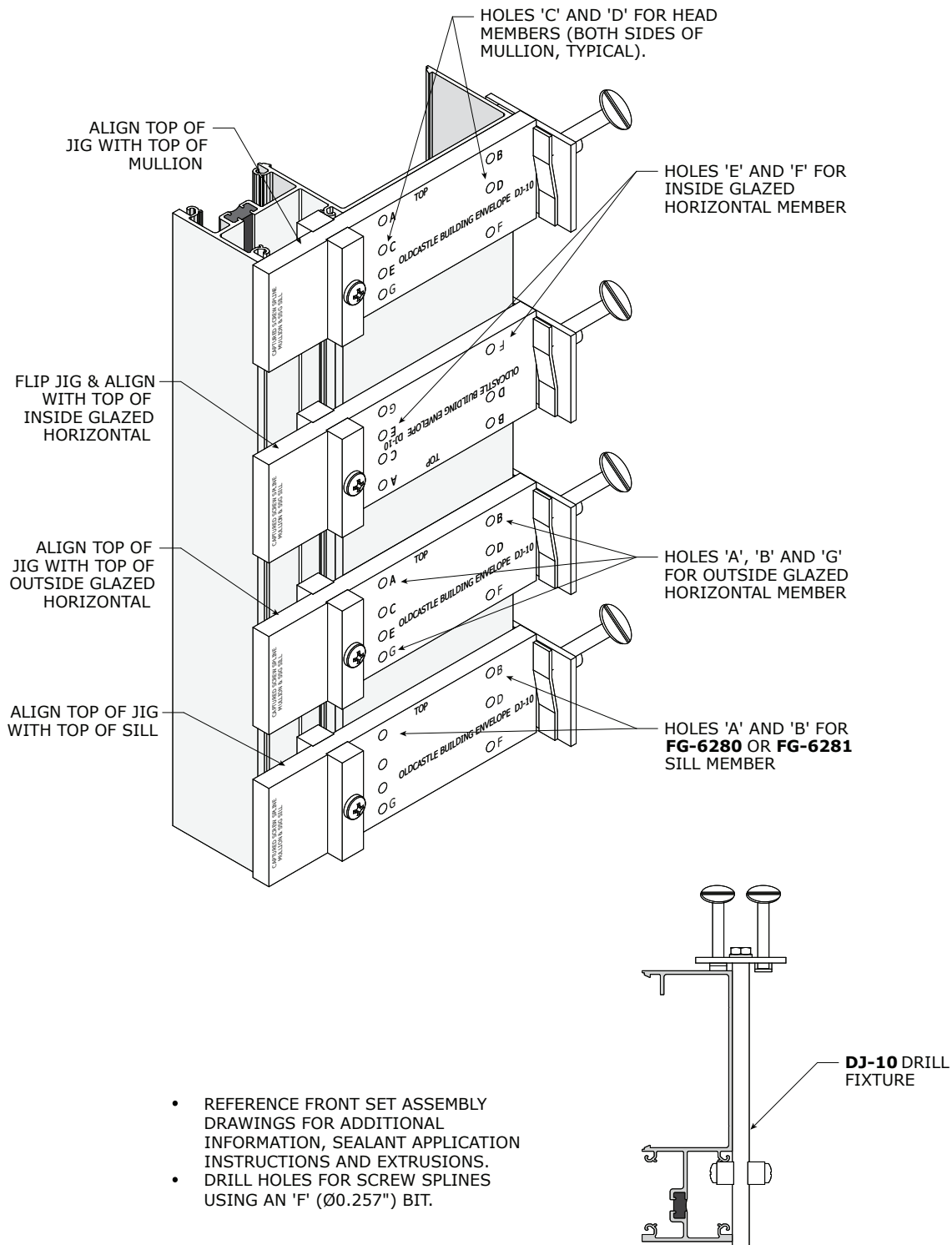


Figure 46: DJ-10 Drill Fixture for Front Set, Screw Spline System

Series 6000 Thermal MultiPlane Installation and Glazing Manual

34.0 FRONT SET, OUTSIDE GLAZED, SHEAR BLOCK SYSTEM

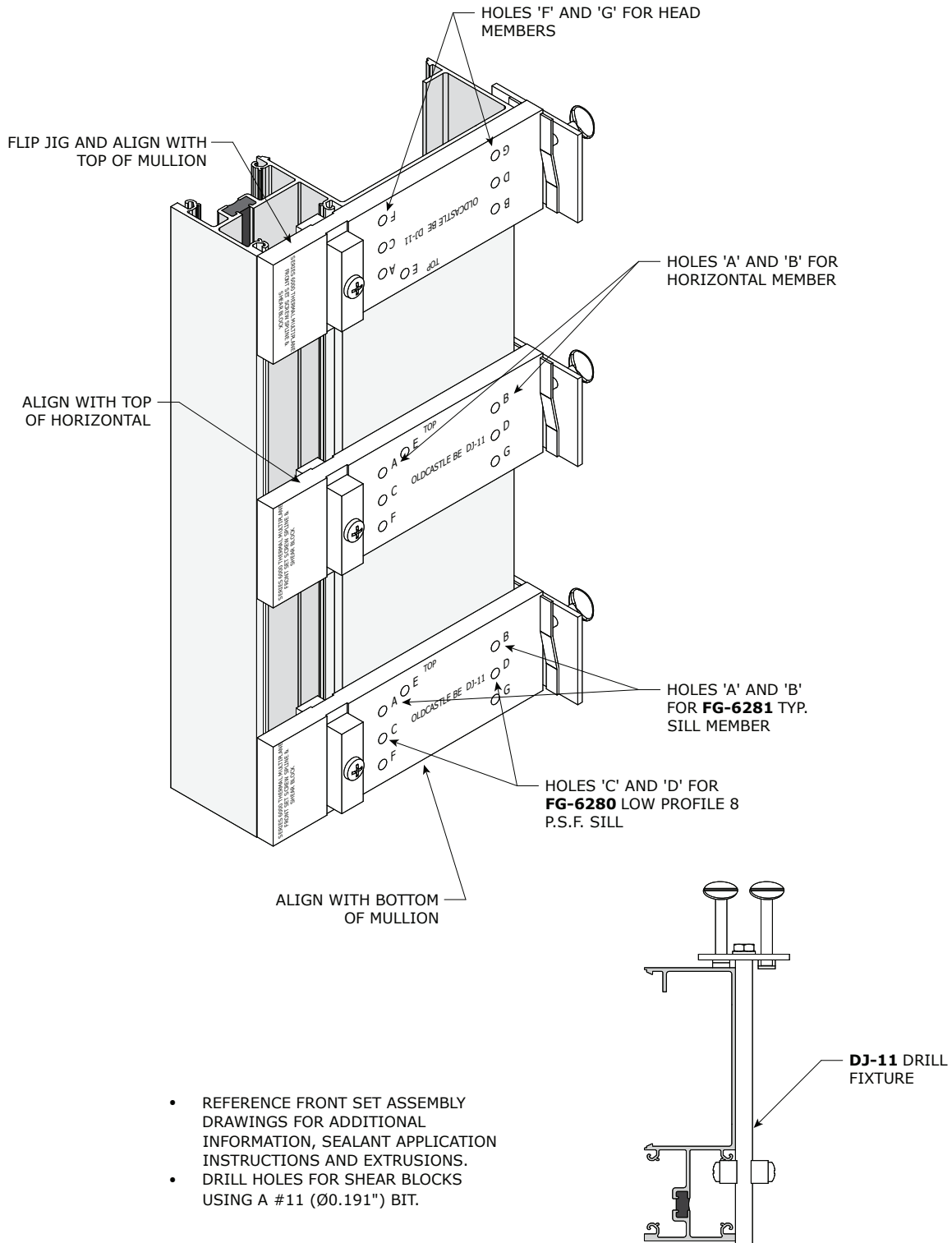


Figure 47: DJ-11 Drill Fixture for Front Set, Outside Glazed, Shear Block System

Series 6000 Thermal MultiPlane Installation and Glazing Manual

35.0 FRONT SET, INSIDE GLAZED, SHEAR BLOCK SYSTEM

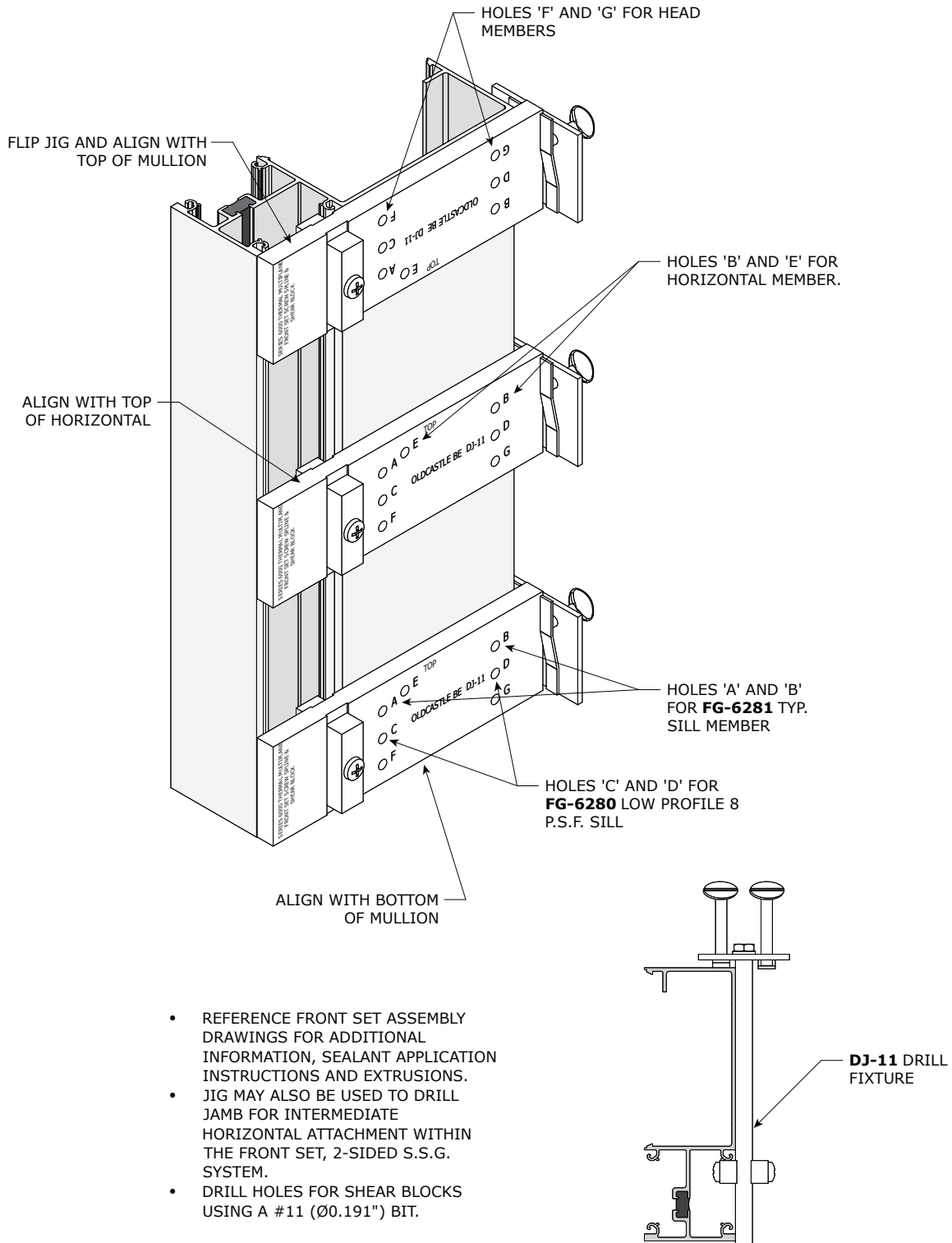
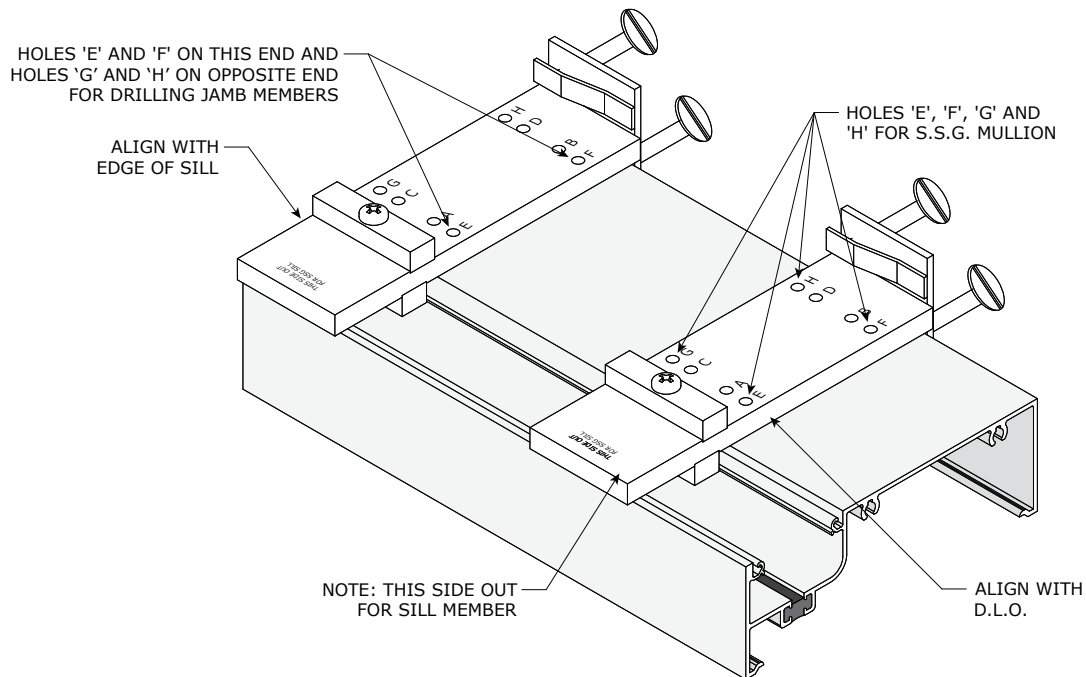


Figure 48: DJ-11 Drill Fixture for Front Set, Inside Glazed, Shear Block System

Series 6000 Thermal MultiPlane Installation and Glazing Manual

36.0 SILL / S.S.G. MULLION FABRICATION FOR 2-SIDED S.S.G SYSTEM



- REFERENCE FRONT SET ASSEMBLY DRAWINGS FOR ADDITIONAL INFORMATION, SEALANT APPLICATION INSTRUCTIONS AND EXTRUSIONS.
- DRILL HOLES FOR MULLION ATTACHMENT TO SILL USING AN 'F' (Ø0.257") BIT.
- DRILL HOLES FOR SHEAR BLOCK ATTACHMENT TO S.S.G. VERTICAL USING A #11 (Ø0.191") BIT.

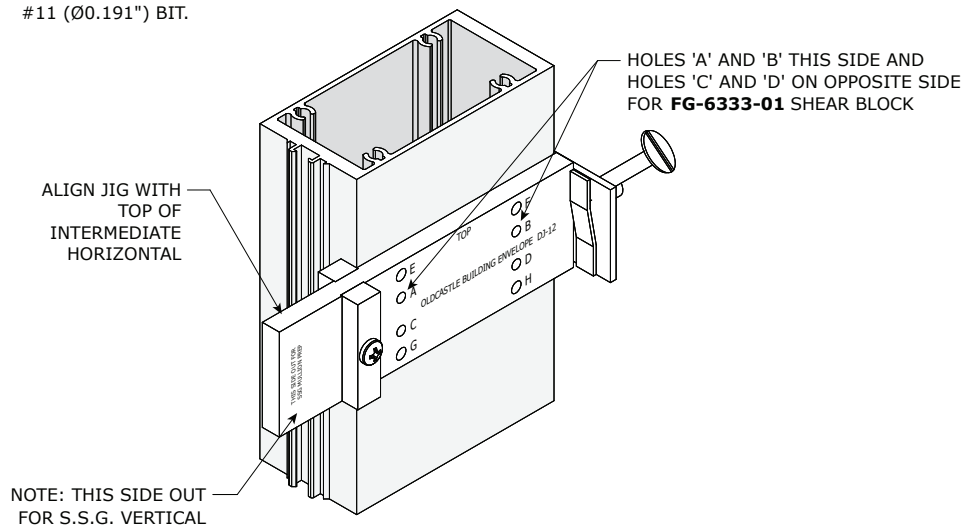









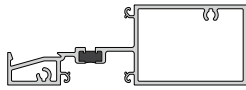

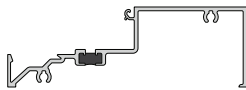

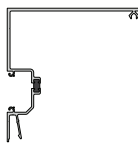

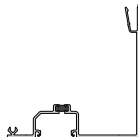


Figure 49: DJ-12 Drill Fixture for 2-Sided System Sill and S.S.G. Vertical

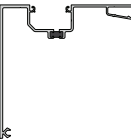
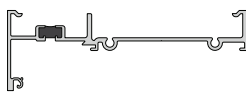
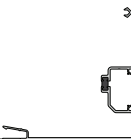
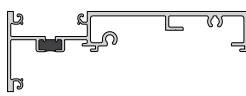
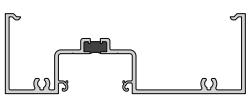
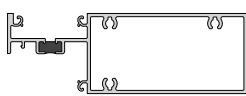
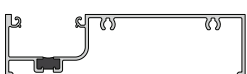
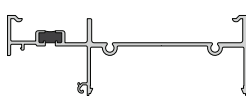
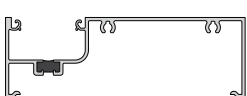
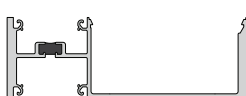
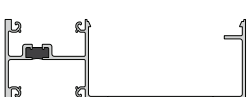
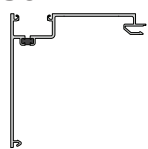

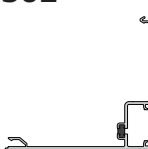

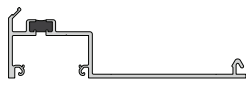
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PARTS LIST

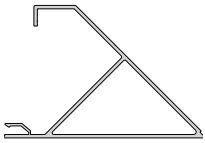
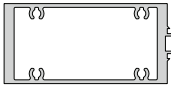
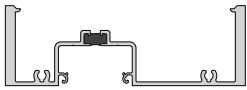


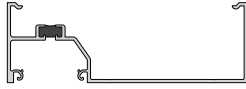

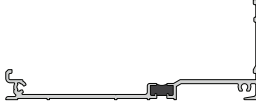
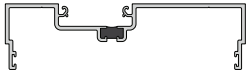

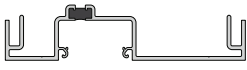
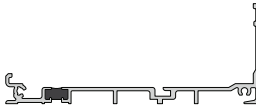

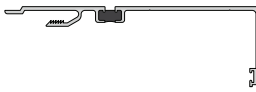
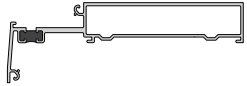

EXTRUSIONS

FG-3126 	Pocket Filler	FG-3536 	Pocket Reducer for 3/8" Infill using FG-6344 Thermal Filler
FG-3144 	Glass Stop - Center Set	FG-3537 	Pocket Reducer for 3/4" Infill using FG-6344 Thermal Filler
FG-3194 	Pocket Reducer for 1/4" Infill	FG-3594 	Pocket Reducer for 1/4" Infill using FG-6344 Thermal Filler
FG-3218 	PVC Pocket Filler	FG-6188 	PVC Flat Filler
FG-3236 	Pocket Reducer for 3/8" Infill	FG-6197 	Intermediate Horizontal - Center Set
FG-3237 	Pocket Reducer for 3/4" Infill	FG-6198 	Sill - Center Set
FG-3295 	Glass Stop - Front Set / Outside Glazed	FG-6214 	Corner Mullion Half - Center Set
FG-3335 	Face Cover - 2-sided S.S.G. System Intermediate Horizontal	FG-6215 	Corner Mullion Half - Center Set

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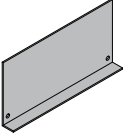
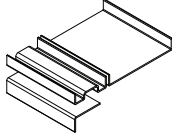
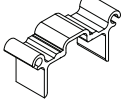
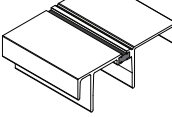
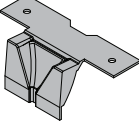
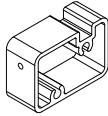

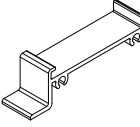
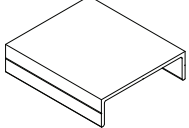
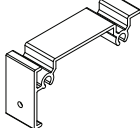
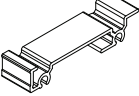
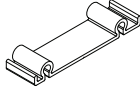
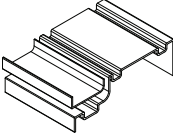
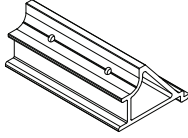
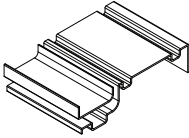
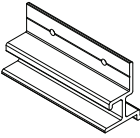
FG-6216 	Corner Mullion Half - Center Set	FG-6291 	Head - Front Set / Inside Glazed
FG-6217 	Corner Mullion Half - Center Set	FG-6293 	Intermediate Horizontal - Front Set / Inside Glazed / 2-sided S.S.G. System
FG-6231 	Jamb / Head / Typical Vertical - Center Set	FG-6294 	Intermediate Horizontal - Front Set / Outside Glazed
FG-6280 	8 p.s.f. Water Performance Low Profile Sill - Front Set	FG-6296 	Head - Front Set / Outside Glazed
FG-6281 	Typical Sill - Front Set	FG-6297 	Heavy Vertical - Front Set
FG-6283 	Typical Vertical - Front Set	FG-6301 	Corner Mullion Half - Front Set
FG-6284 	Mullion / Horizontal Filler - Front Set	FG-6302 	Corner Mullion Half - Front Set
FG-6290 	Glass Stop - Front Set / Inside Glazed	FG-6306 	Corner Mullion Half - Front Set

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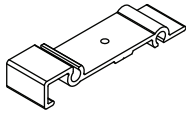

FG-6307 	Corner Mullion Closure Half - Front Set	FG-6334 	S.S.G. Vertical
FG-6313 	Heavy Vertical - Center Set	FG-6344 	Thermal Composite Mullion Filler
FG-6326 	Expansion Mullion Half - Front Set	FG-6380 	Jamb - Front Set
FG-6327 	Expansion Mullion Half - Front Set	FG-6413 	Typical Subsill
FG-6328 	Expansion Mullion Half - Center Set	FG-6513 	8 p.s.f. Water Performance Low-Profile Subsill
FG-6329 	Expansion Mullion Half - Center Set	FG-6533 	High Performance Subsill
FG-6330 	Aluminum Flat Filler	MO-1188 	Thermal Head Receptor
FG-6332 	Intermediate Horizontal - Front Set, 2-Sided S.S.G. System	MO-244 	Head Receptor Closure

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PARTS AND ACCESSORIES

AN-50-01 	Subsill / Front Set, 2-sided S.S.G. System Head End Dam	FG-6391 	Splice Package for FG-6291 Head
FG-3000-FP-62 	Shear Block	FG-6430-01 	Center Set Head Anchor
FG-3000-PP-53 	S.S.G. Funnel Bridge	FG-6527-01 	Shear Block
FG-3000-PP-56 	Sill Glazing Pocket End Dam for Front Set, 2-Sided S.S.G. System	FG-6529-01 	Shear Block
FG-6100-01 	Front Set Head Anchor	FG-6530-01 	Shear Block
FG-6333-01 	Shear Block	FG-6532-01 	Shear Block
FG-6381 	Splice Package for FG-6281 Sill	FG-6534-01 	Sill Anchor - Front Set
FG-6382 	Splice Package for FG-6280 Sill	FG-6535-01 	Sill Anchor - Center Set

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FG-6642-01 	Shear Block
UW-466 	2" Silicone Splice Sheet

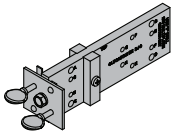

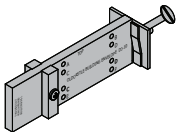

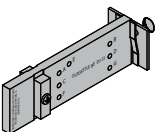
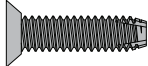
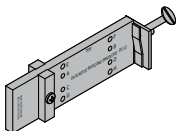


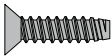
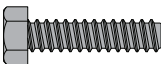

GLAZING AND WEATHERING

CW-998 	Bulb Gasket at Expansion Verticals
FG-1000-FP-2 	Water Diverter
FG-1133 	Typical Glazing Gasket
FG-1134 	Light Glazing Gasket
FG-3129 	Extra Heavy Glazing Gasket
FG-3220 	Setting Block

FG-3278 	Setting Block
FG-3342 	Setting Block
FG-5125 	Heavy Glazing Gasket
HP-17 	Setting Block
HP-1004 	Foam Weep Baffle
HP-30066 	S.S.G. Spacer Gasket
V-11 	Air Seal Gasket at Head Receptors

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FASTENERS AND DRILL JIGS

DJ-9 	Drill Fixture for Center Set Systems	FS-55 	#10 x 1/2" P.P.H. AB Pt.
DJ-10 	Drill Fixture for Front Set, Screw Spline Assembly	FS-202 	#8 x 1/2" P.P.H. A Pt.
DJ-11 	Drill Fixture for Front Set, Shear Block Assembly	FS-260 	1/4"-20 x 1" P.F.H.U.C. Type F Thread Cutting Screw
DJ-12 	Drill Fixture for Front Set 2-Sided S.S.G. System Sill and Mullion	FS-320 	M4 x 16mm Headed Helical Drive Pin
FS-6 	#10 x 3/4" P.P.H. B Pt.		
FS-7 	#10 x 3/4" P.F.H. B Pt.		
FS-8 	1/4" x 1" H.H. B Pt.		
FS-9 	1/4" x 1-1/2" H.H. B Pt.		