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#### GENERAL INFORMATION

The Vistawall Series 3000 Thermal MultiPlane  $(2 \times 4 \frac{1}{2})$  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.

Vistawall 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.

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 store front.
- 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 zincchromate 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.

#### GENERAL INFORMATION CONT.

#### 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:

Vistawall 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 37 through 41.

# Frame Fabrication (Storefront Typical Installations)

Measure ROUGH OPENING to determine FRAME WIDTH and FRAME HEIGHT dimensions. Allow 1/4" minimum clearance for shimming and caulking around perimeter of frame. (FG-3413 Sill Receptor requires minimum 3/8" joint at head)

Cut material to size per dimensions given below:

Frame Members

Sub-Sill or Sill Receptor: Frame Width +1/4"

Mullion & Mull Fillers: Frame Height (Rough Opening -

Head & Sill joints - Sub Sill height; FG-3223 - 3/8", FG-3413 - 1/2")

Horizontal, Sill & Head: Day Light Opening (D.L.O.)

Horizontal Glazing Beads & Fillers: D.L.O. – 1/16"

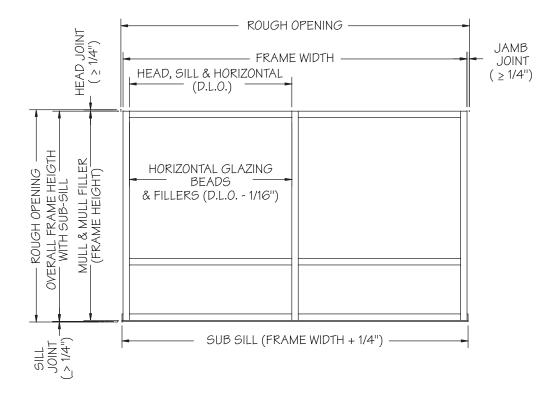
Accessories

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

Other Members (as required)

Horizontal Glazing Adaptors: D.L.O. – 1/16" Vertical Glazing Adaptors: D.L.O. + 7/8"

Door Jamb: Rough Opening – Head Joint



# Frame Fabrication (SSG Installations)

Measure ROUGH OPENING to determine FRAME WIDTH and FRAME HEIGHT dimensions. Allow 1/4" minimum clearance for shimming and caulking around perimeter of frame. (FG-3413 Sill Receptor requires minimum 3/8" joint at head) (Reference page 6 for elevation and terminology)

Cut material to size per dimensions given below:

Frame Members

Sub-Sill or Sill Receptor: Frame Width +1/4"

Mullions & Jamb (see Dtl. A)

Overall Frame Height – 3" – Sub-sill

Height (FG-3223 - 3/8",

FG-3413 - 1 /2")

Head & Sill Frame Width

Horizontal, Day Light Opening (D.L.O.)

Horizontal Glazing Beads & Fillers: D.L.O. – 1/16"

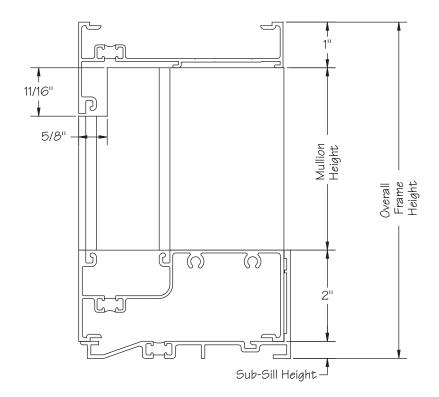
Accessories

Head & Sill Exterior Gaskets:D.L.O. +1" + 3/8" per foot.Head & Sill Interior Gaskets:D.L.O. +3/8" per foot.Horizontal Gaskets:D.L.O. +3/8" per foot.Vertical Gaskets:D.L.O. +1" + 3/8" per foot

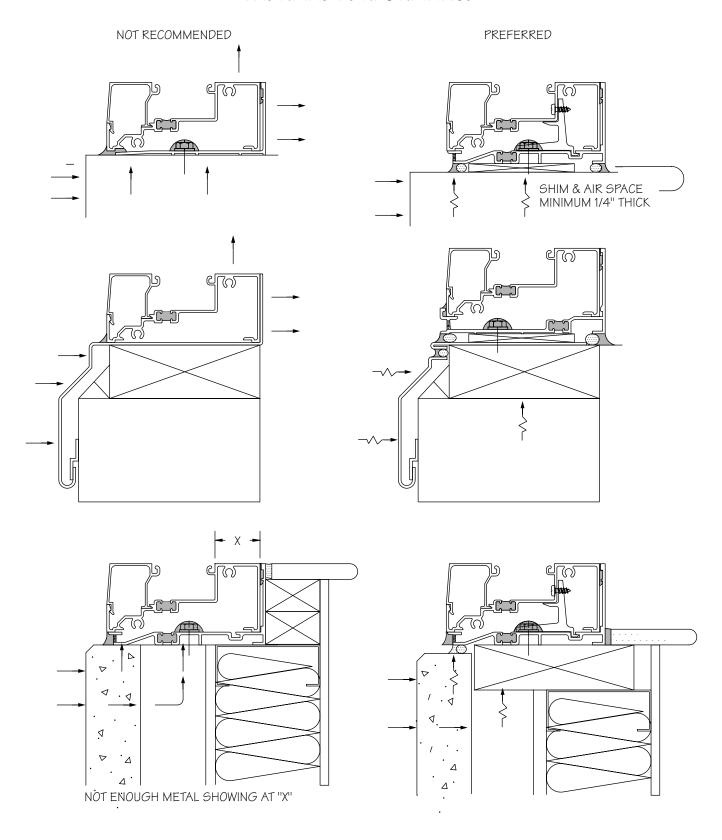
Other Members (as required)

Horizontal Glazing Adaptors: D.L.O. – 1/16" Vertical Glazing Adaptors: D.L.O. + 7/8"

Door Jamb: Rough Opening – Head Joint

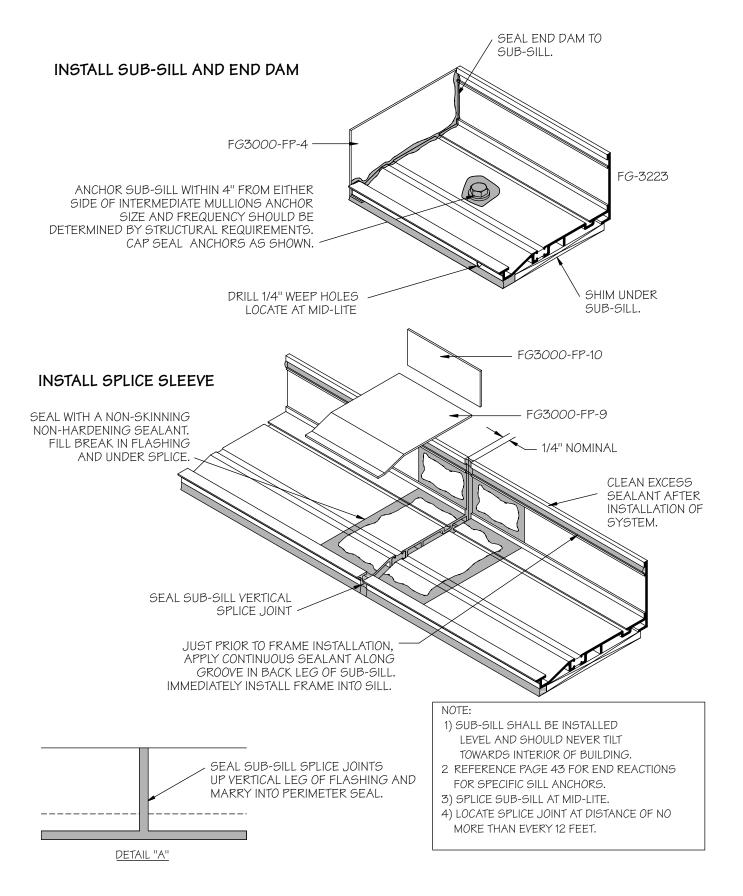


# INSTALLATION FOR THERMAL PERFORMANCE

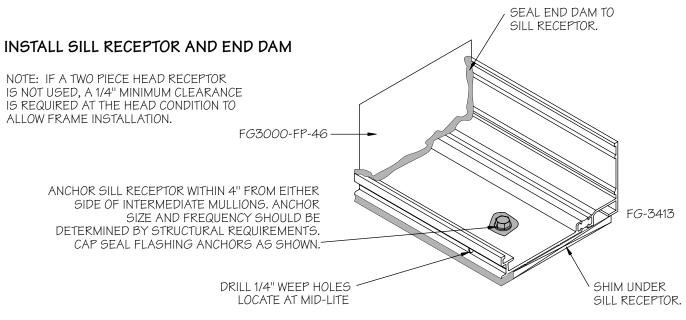


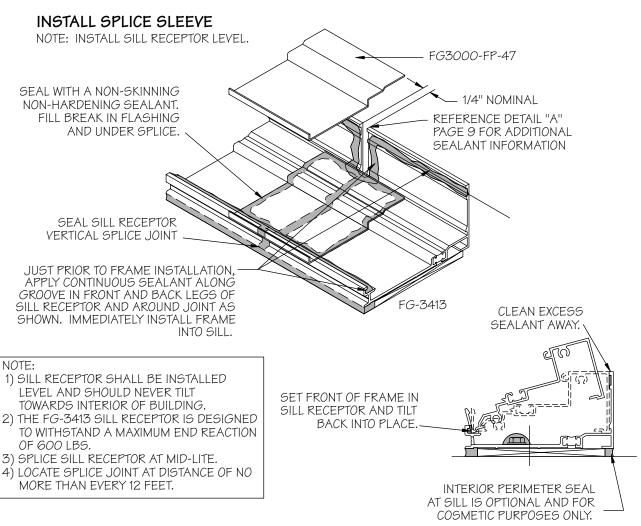
TO DERIVE THE GREATEST BENEFIT FROM YOUR STOREFRONT INSTALLATION, WE RECOMMEND YOU REVIEW THE DETAILS ABOVE.

## INSTALLATION INSTRUCTIONS FOR FG-3223 SUB-SILL

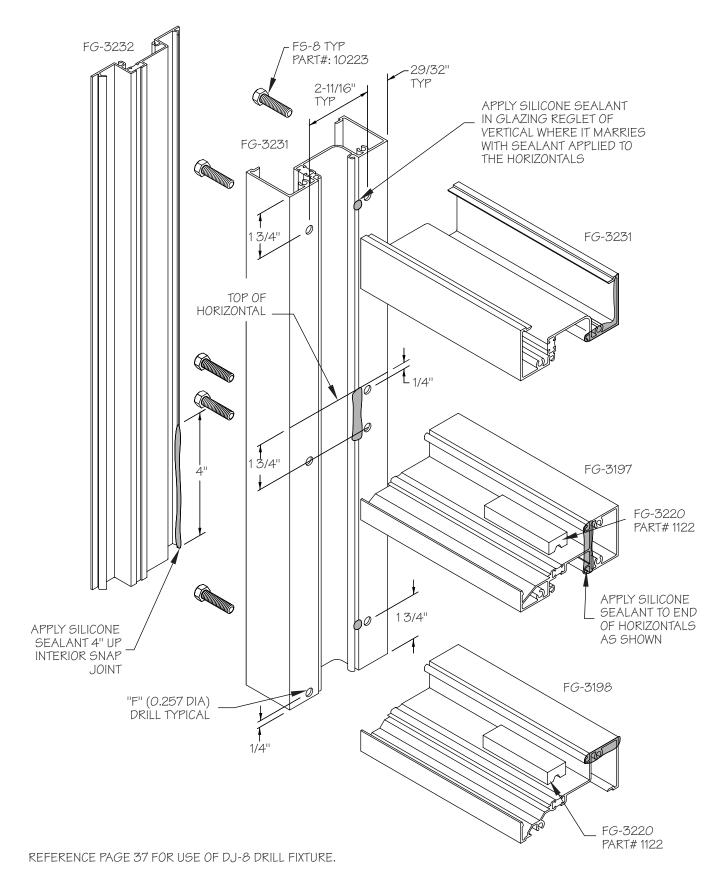


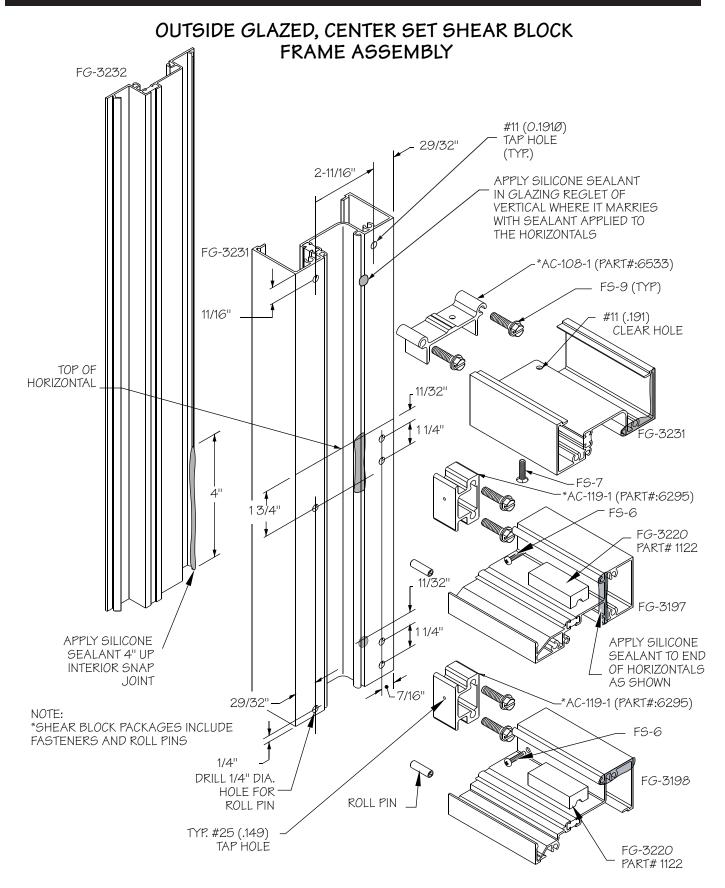
## INSTALLATION INSTRUCTIONS FOR OPTIONAL FG-3413 SILL RECEPTOR





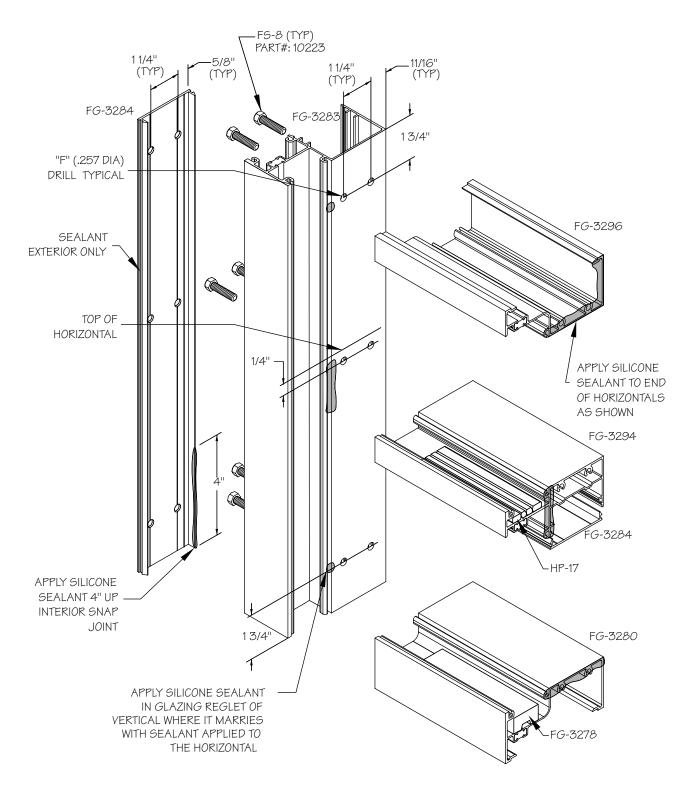
# OUTSIDE GLAZED, CENTER SET SCREW SPLINE FRAME ASSEMBLY





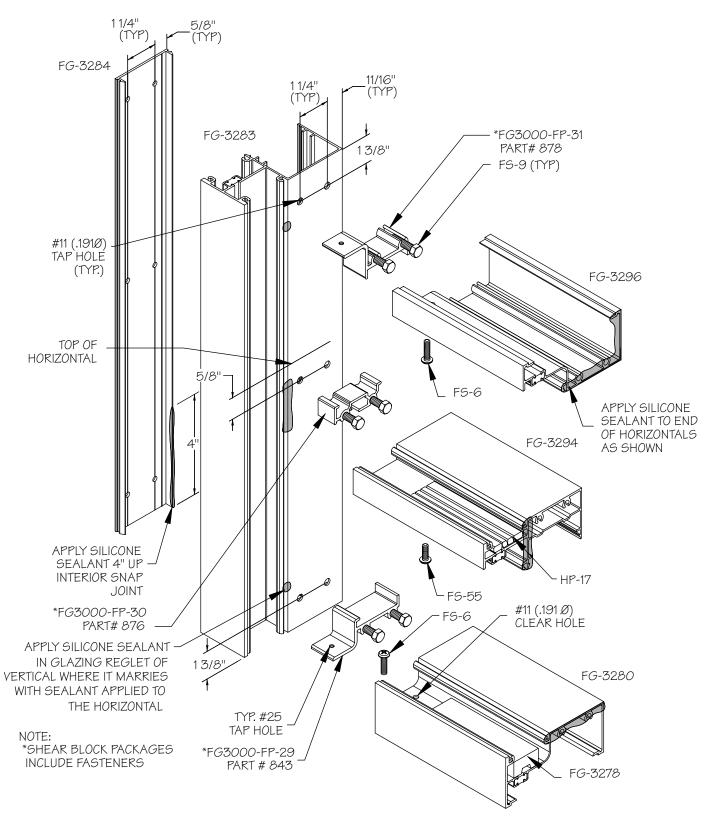
REFERENCE PAGE 37 FOR USE OF DJ-8 DRILL FIXTURE.

# OUTSIDE GLAZED, FRONT SET SCREW SPLINE FRAME ASSEMBLY



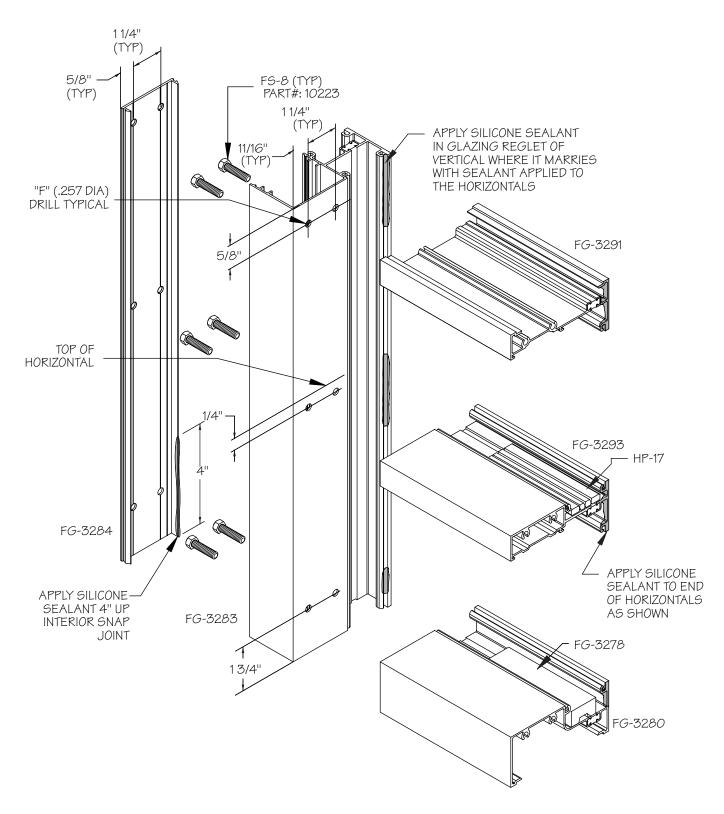
REFERENCE PAGE 39 FOR USE OF DJ-7 DRILL FIXTURE.

### OUTSIDE GLAZED, FRONT SET SHEAR BLOCK FRAME ASSEMBLY



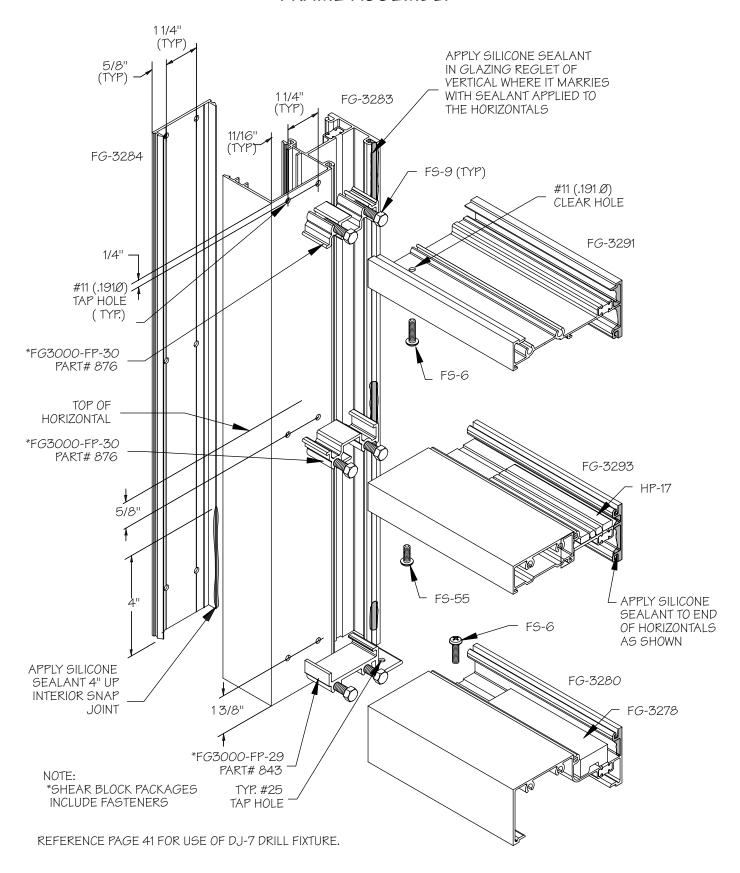
REFERENCE PAGE 39 FOR USE OF DJ-7 DRILL FIXTURE.

# OUTSIDE GLAZED, BACK SET SCREW SPLINE FRAME ASSEMBLY



REFERENCE PAGE 41 FOR USE OF DJ-7 DRILL FIXTURE.

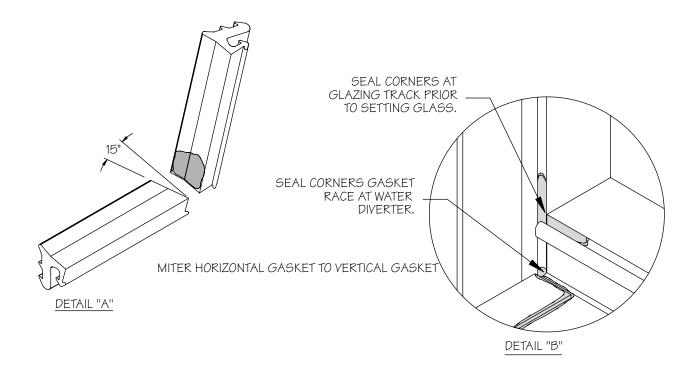
### OUTSIDE GLAZED, BACK SET SHEAR BLOCK FRAME ASSEMBLY



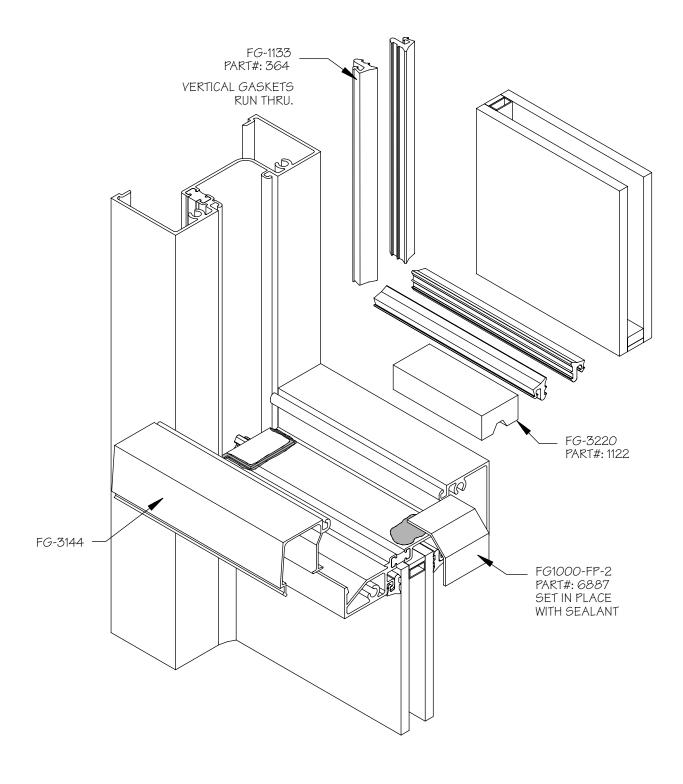
## OUTSIDE GLAZED SYSTEMS GLAZING GUIDELINES

- 1) REMOVE GASKETS FROM ROLL AND ALLOW TO RELAX OVERNIGHT. ALL GASKETS TO BE CUT D.L.O. + 3/8" PER FOOT.
- 2) VERTICAL GASKETS RUN THRU, 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 (DTL."B") AND CORNERS SEALED JUST PRIOR TO SETTING GLASS (DTL."A"). NOTE: CLEAN GASKETS AND SURFACES WITH ISOPOPYL ALCOHOL PRIOR TO SEALING CORNERS.
- 4) LOCATE SETTING BLOCKS AT EITHER 1/4 POINTS OR 1/8 POINTS, DEPENDENT ON SIZE OF GLASS.
- 5) GLASS IS CUT DAYLIGHT OPENING PLUS 7/8".
- 6) GLAZE OPENINGS FROM BOTTOM TO TOP. INSTALL WATER DIVERTERS IN HORIZONTAL ABOVE, AFTER LITE BELOW IS IN POSITION.
- 7) WATER DIVERTERS (FG1000-FP-2) MUST BE LOCATED ON EACH END OF HORIZONTALS AND SET IN SEALANT.
- 8) WHEN INSTALLING GLASS: FIRST, WET TOP OF SETTING BLOCK WITH SOAPY WATER.

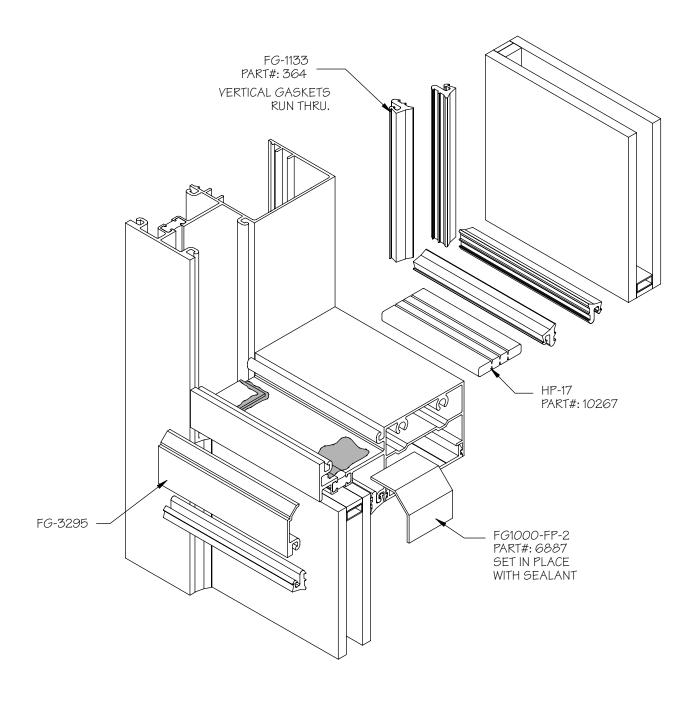
  ONCE GLASS IS SET IN PLACE, PUSH GLASS AGAINST INTERIOR GASKET AT SETTING BLOCK AREA. FAILURE TO DO SO MAY CAUSE DIAGONAL CRACKS TOWARDS SETTING BLOCKS DUE TO GLASS BENDING WHILE INSTALLING GASKET(S) IN CORNERS.



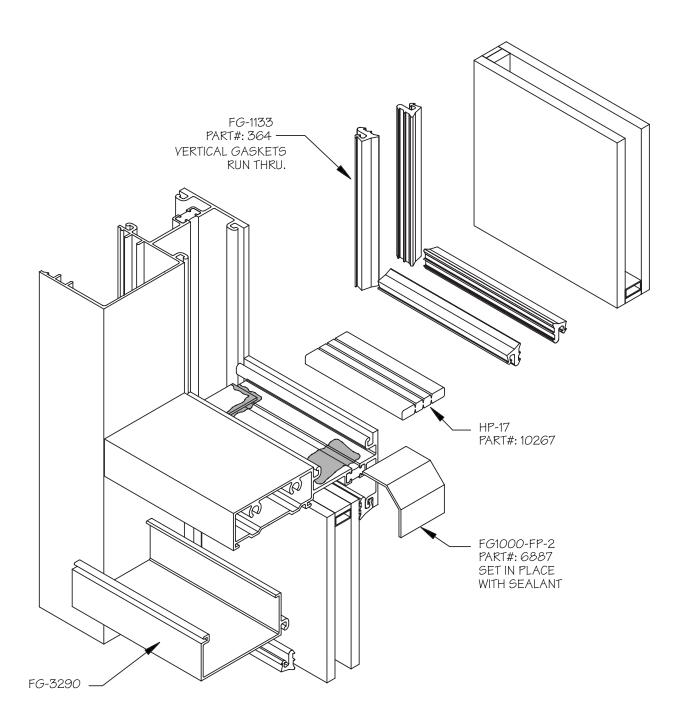
# OUTSIDE GLAZED, CENTER SET GLAZING DETAIL



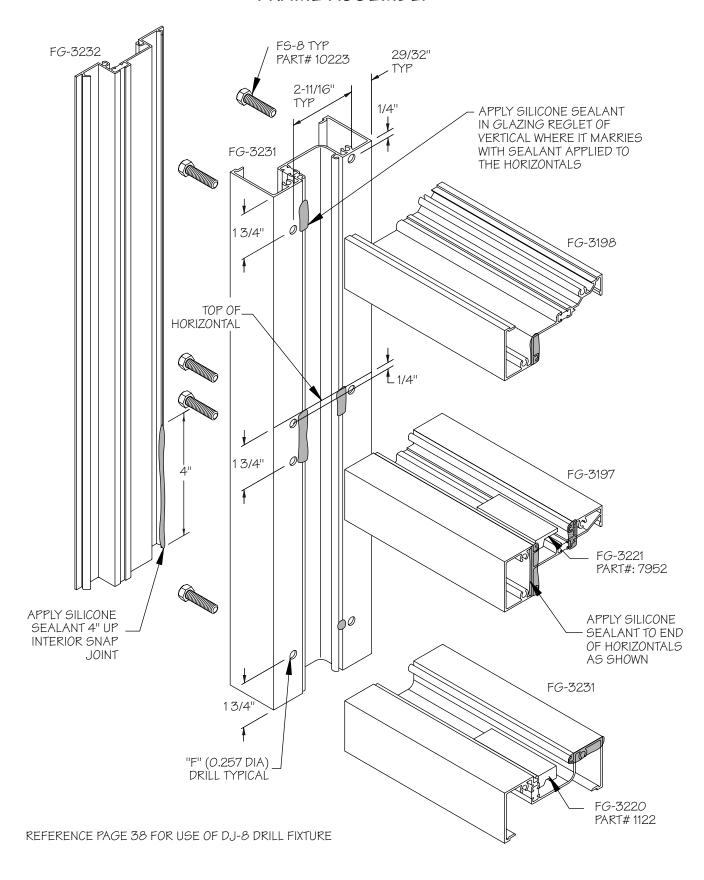
# OUTSIDE GLAZED, FRONT SET GLAZING DETAIL



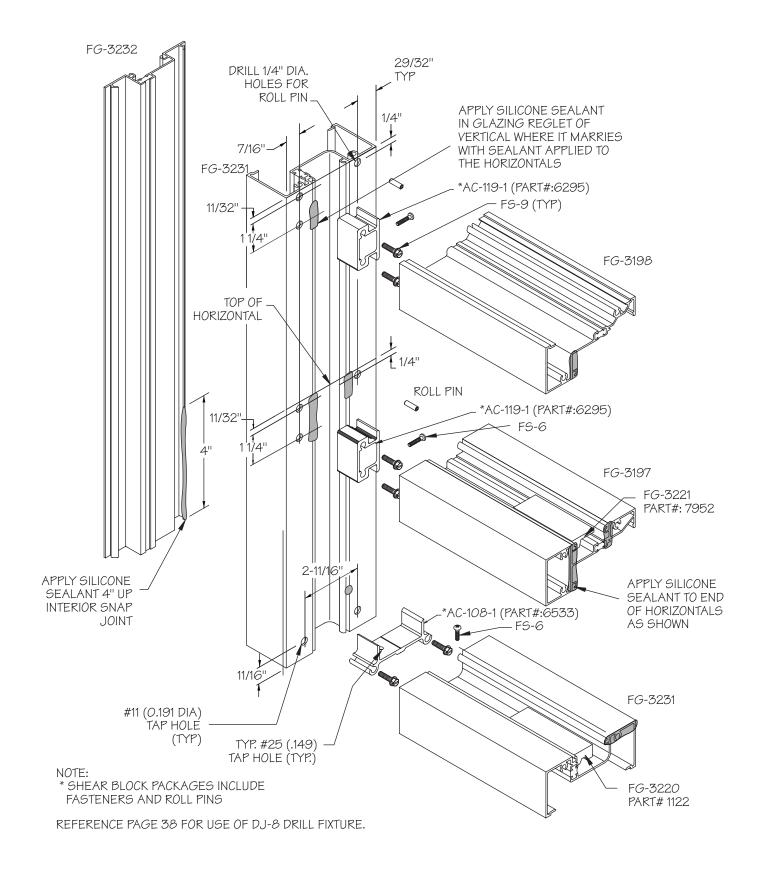
# OUTSIDE GLAZED, BACK SET GLAZING DETAIL



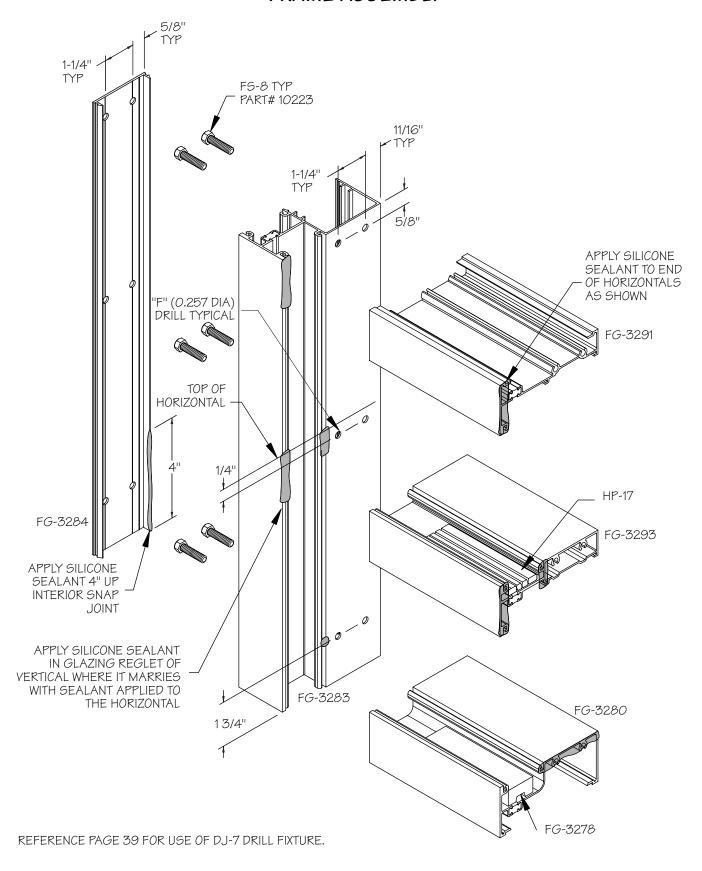
# INSIDE GLAZED, CENTER SET SCREW SPLINE FRAME ASSEMBLY



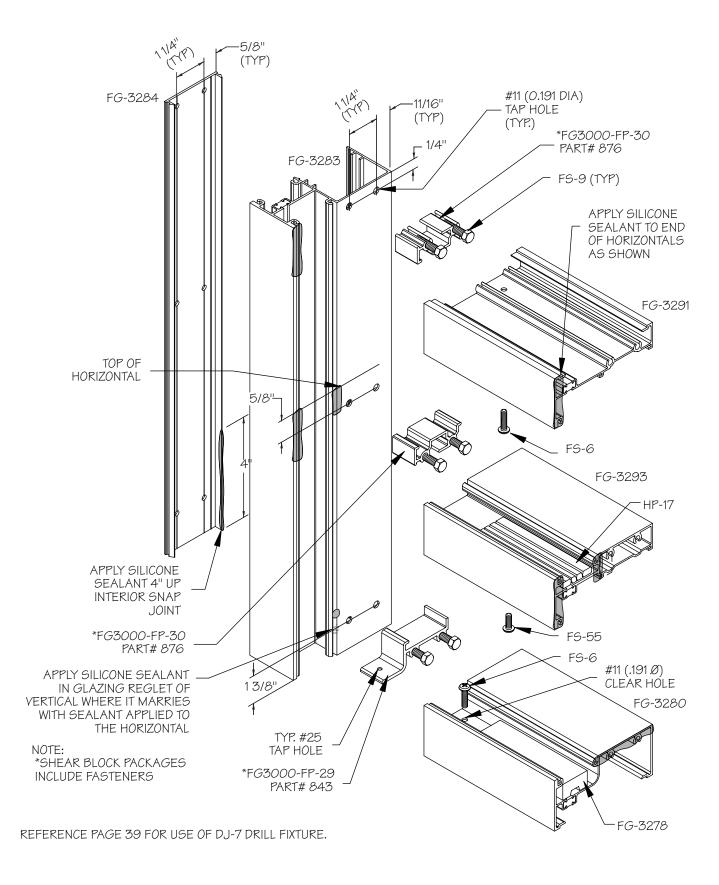
## INSIDE GLAZED, CENTER SET SHEAR BLOCK FRAME ASSEMBLY



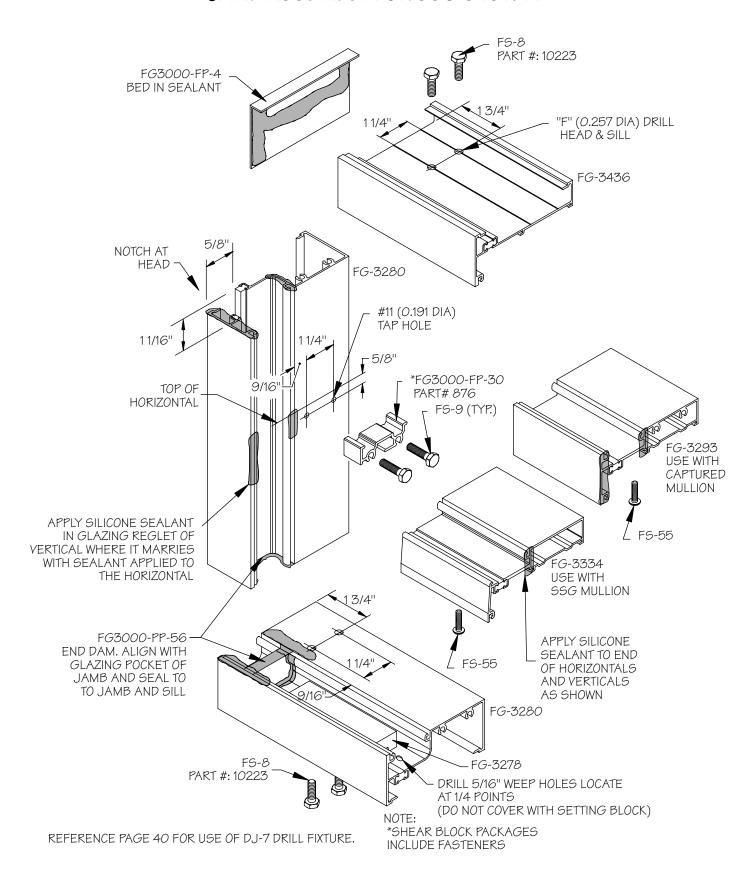
# INSIDE GLAZED, FRONT SET SCREW SPLINE FRAME ASSEMBLY



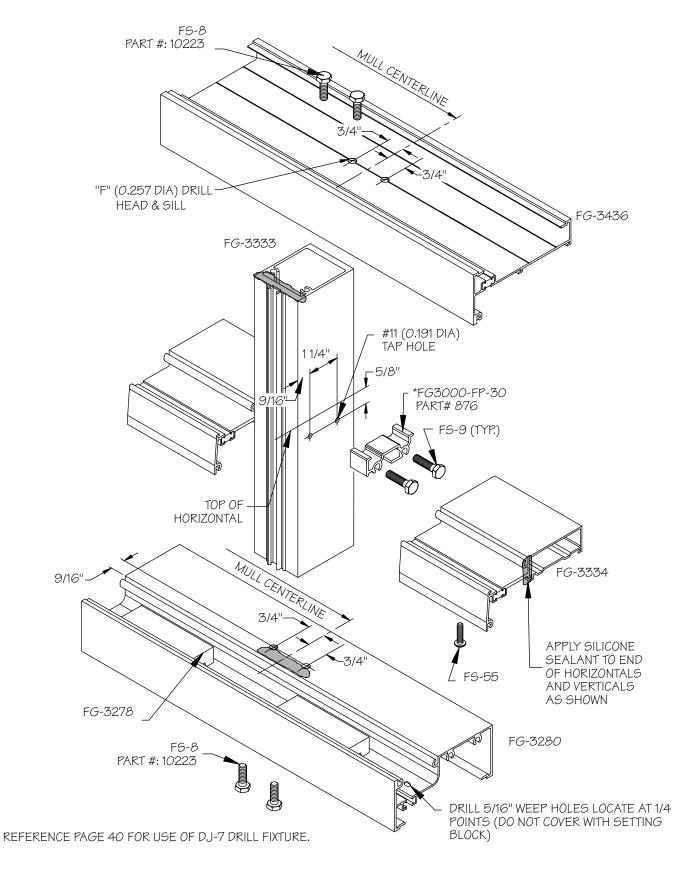
## INSIDE GLAZED, FRONT SET SHEAR BLOCK FRAME ASSEMBLY



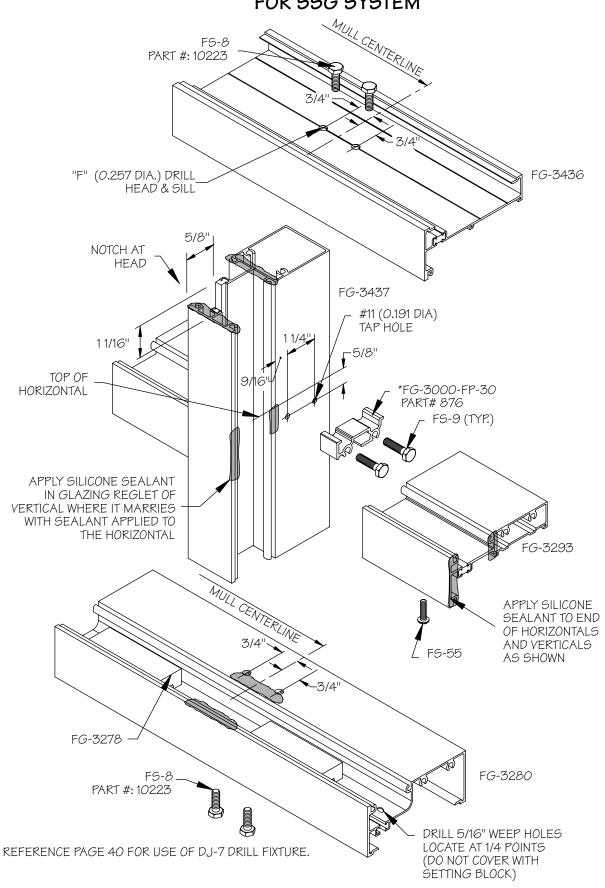
## INSIDE GLAZED, FRONT SET JAMB ASSEMBLY FOR SSG SYSTEM



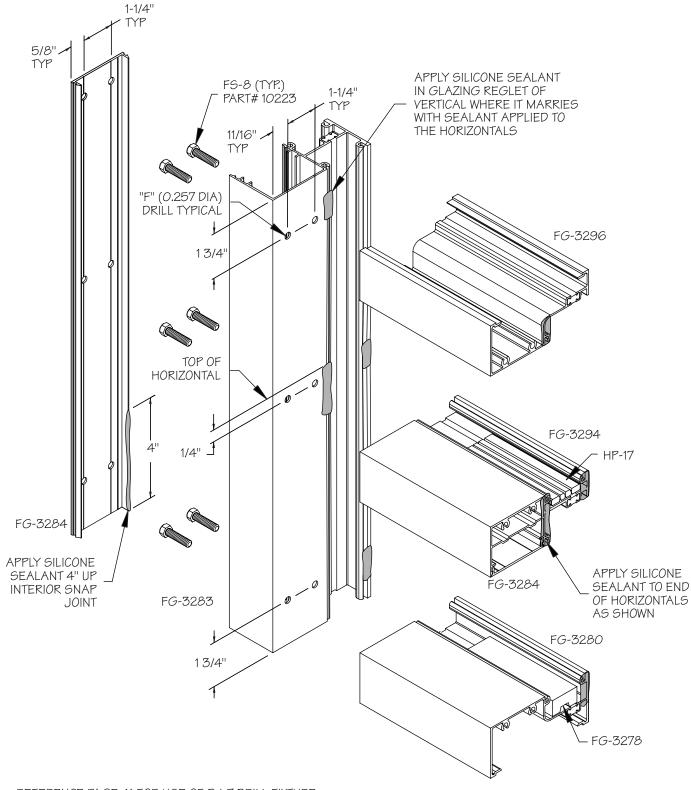
# INSIDE GLAZED, FRONT SET SSG MULLION ASSEMBLY



# INSIDE GLAZED, FRONT SET, CAPTURED MULLION ASSEMBLY FOR SSG SYSTEM

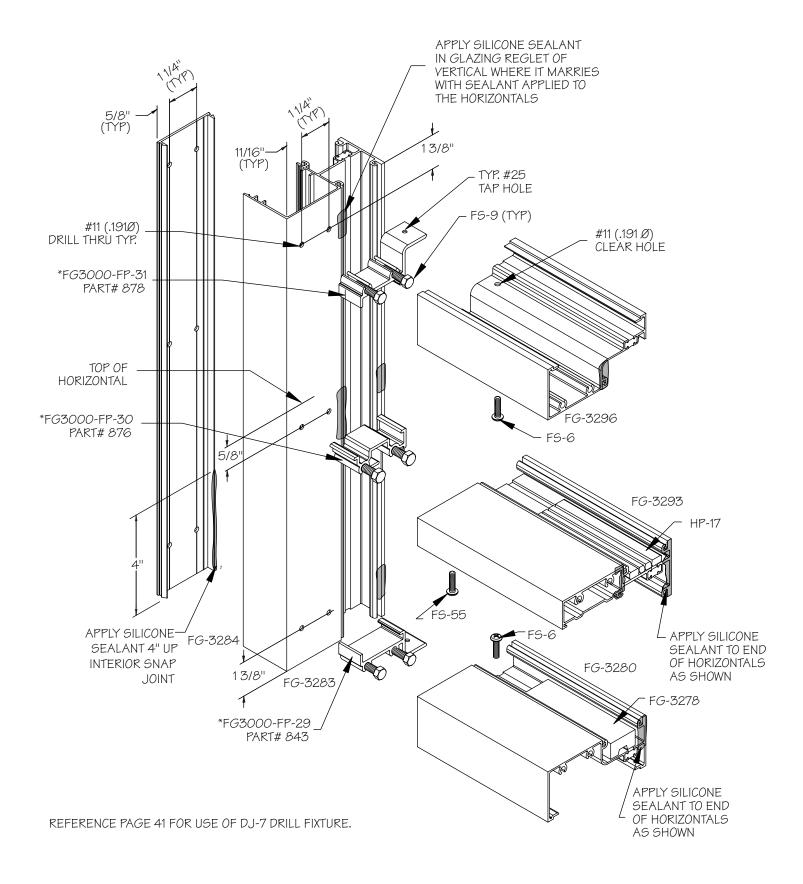


# INSIDE GLAZED, BACK SET SCREW SPLINE FRAME ASSEMBLY



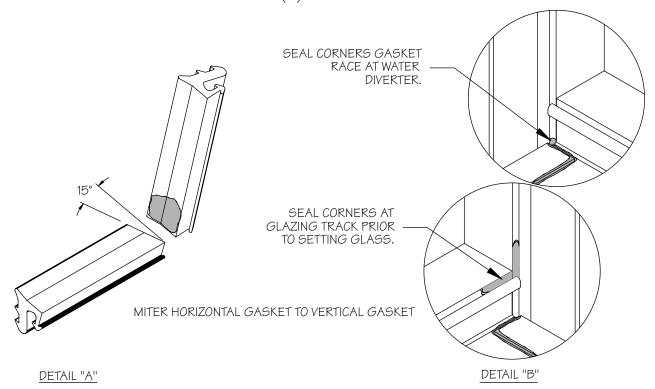
REFERENCE PAGE 41 FOR USE OF DJ-7 DRILL FIXTURE.

# INSIDE GLAZED, BACK SET SHEAR BLOCK FRAME ASSEMBLY

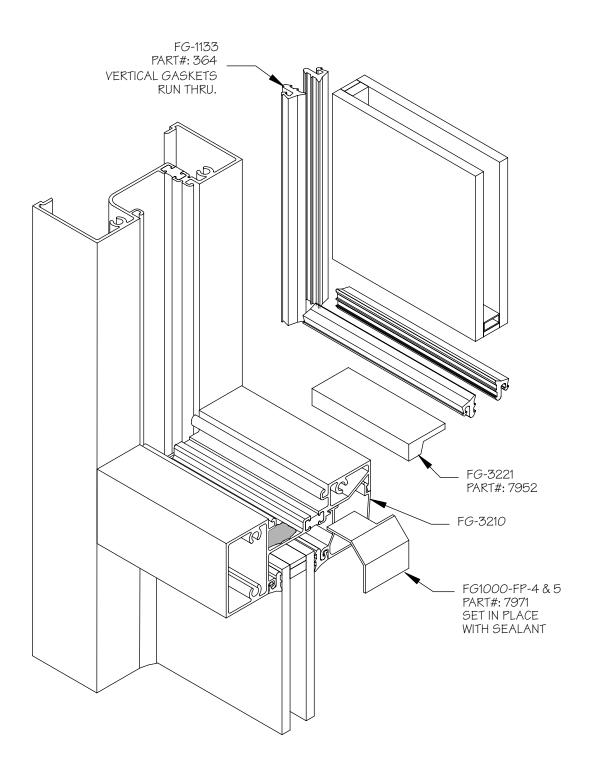


## INSIDE GLAZED SYSTEMS GLAZING GUIDELINES

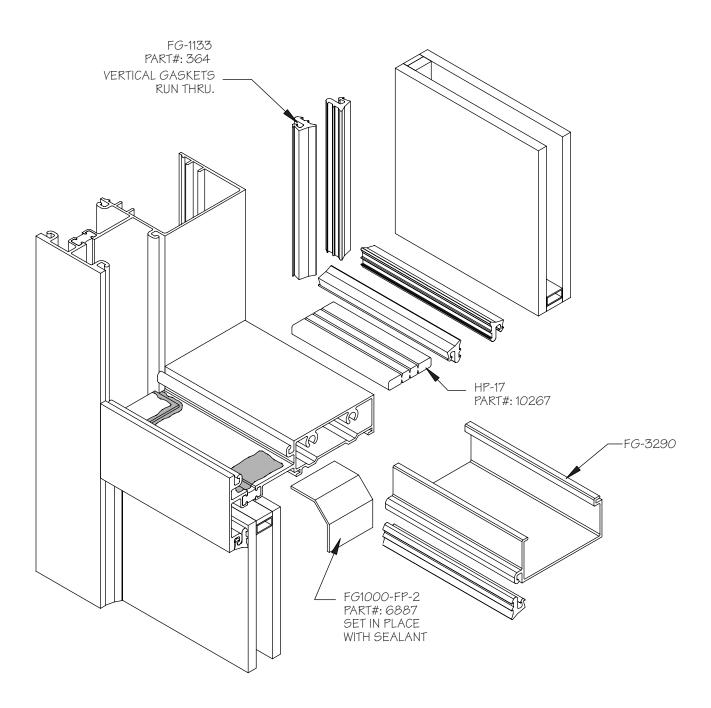
- 1) REMOVE GASKETS FROM ROLL AND ALLOW TO RELAX OVERNIGHT. ALL GASKETS TO BE CUT D.L.O. + 3/8" PER FOOT.
- 2) VERTICAL GASKETS RUN THRU, HORIZONTAL GASKETS SHOULD BE MITERED ON ENDS AS SHOWN IN DETAIL "A"
- 3) INSTALL EXTERIOR GASKETS PRIOR TO GLAZING. CORNERS OF EXTERIOR GASKETS TO BE SET IN SEALANT (DTL."B") AND CORNERS SEALED JUST PRIOR TO SETTING GLASS (DTL."A"). NOTE: CLEAN GASKETS AND SURFACES WITH ISOPOPYL ALCOHOL PRIOR TO SEALING CORNERS.
- 4) LOCATE SETTING BLOCKS AT EITHER 1/4 POINTS OR 1/8 POINTS, DEPENDENT ON SIZE OF GLASS.
- 5) GLASS IS CUT DAYLIGHT OPENING PLUS 7/8".
- 6) GLAZE OPENINGS FROM BOTTOM TO TOP. INSTALL WATER DIVERTERS IN HORIZONTAL ABOVE, AFTER LITE BELOW IS IN POSITION
- 7) WATER DIVERTERS MUST BE LOCATED ON EACH END OF HORIZONTALS AND SET IN SEALANT.
- 8) WHEN INSTALLING GLASS: FIRST, WET TOP OF SETTING BLOCK WITH SOAPY WATER.
  ONCE GLASS IS SET IN PLACE, PUSH GLASS AGAINST GASKET AT SETTING BLOCK AREA.
  FAILURE TO DO SO MAY CAUSE DIAGONAL CRACKS TOWARDS SETTING BLOCKS DUE TO
  GLASS BENDING WHILE INSTALLING GASKET(S) IN CORNERS.



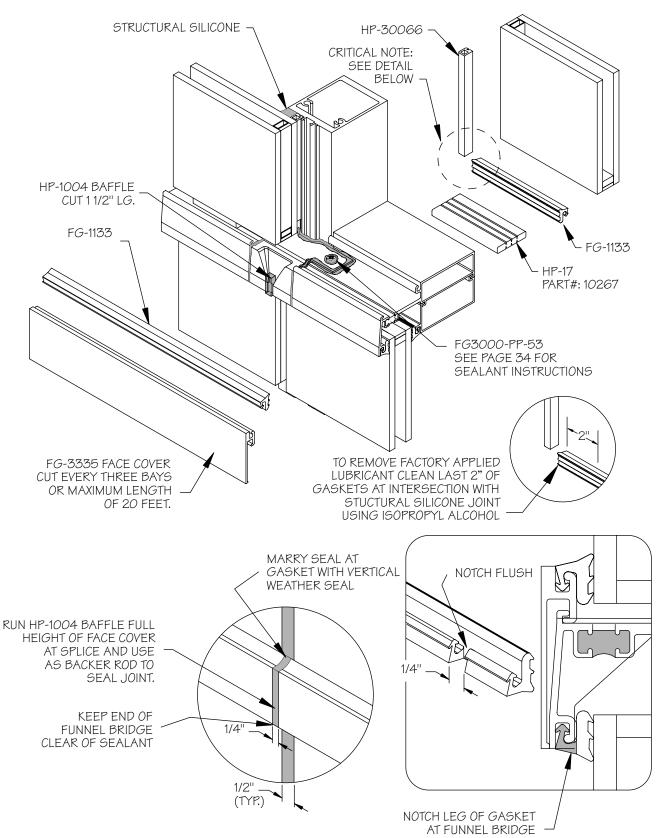
# INSIDE GLAZED, CENTER SET GLAZING PROCEDURES



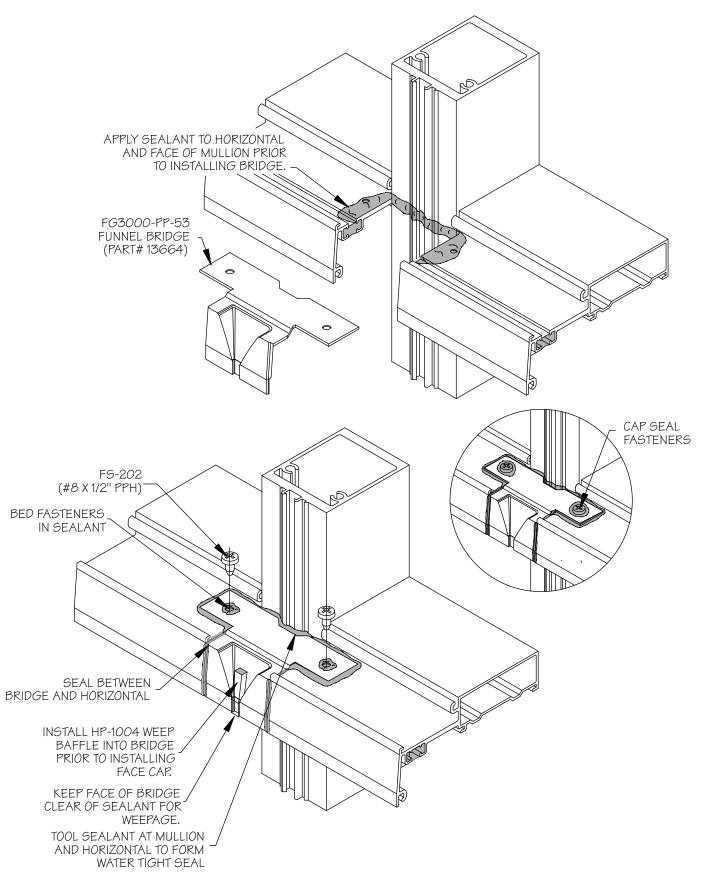
# INTSIDE GLAZED, FRONT SET GLAZING DETAIL



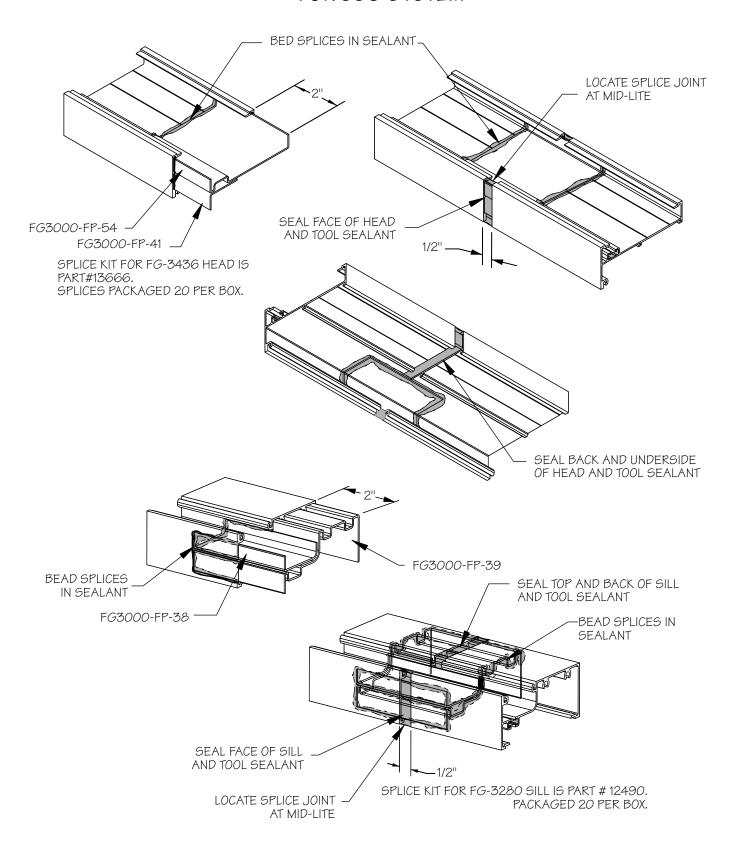
## INSIDE GLAZED, FRONT SET SSG GLAZING DETAIL



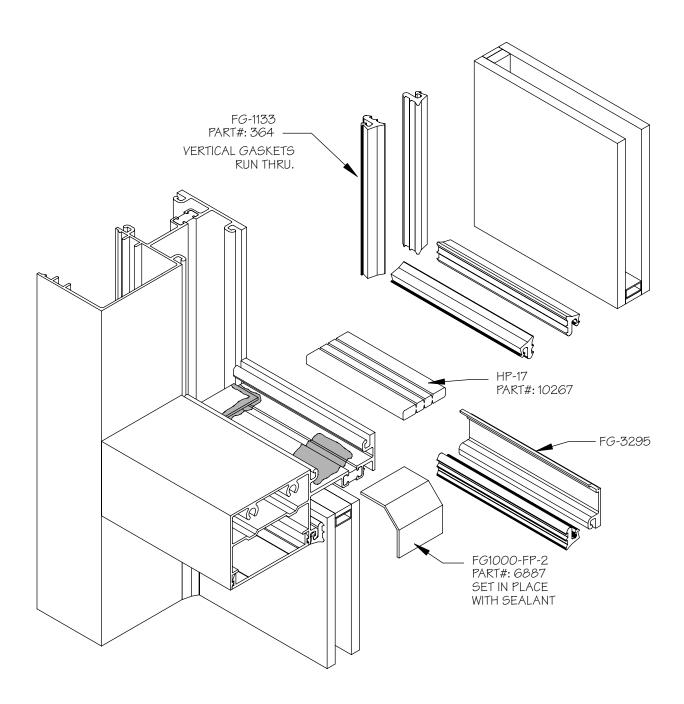
### BRIDGE INSTALLATION FOR MULTIPLANE SSG



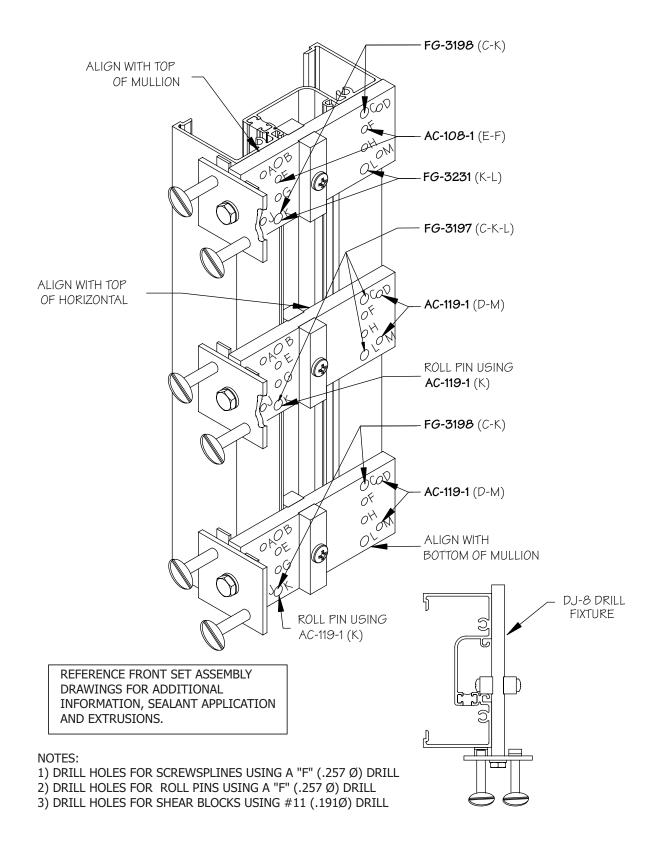
# HEAD & SILL SPLICE INSTALLATION FOR SSG SYSTEM



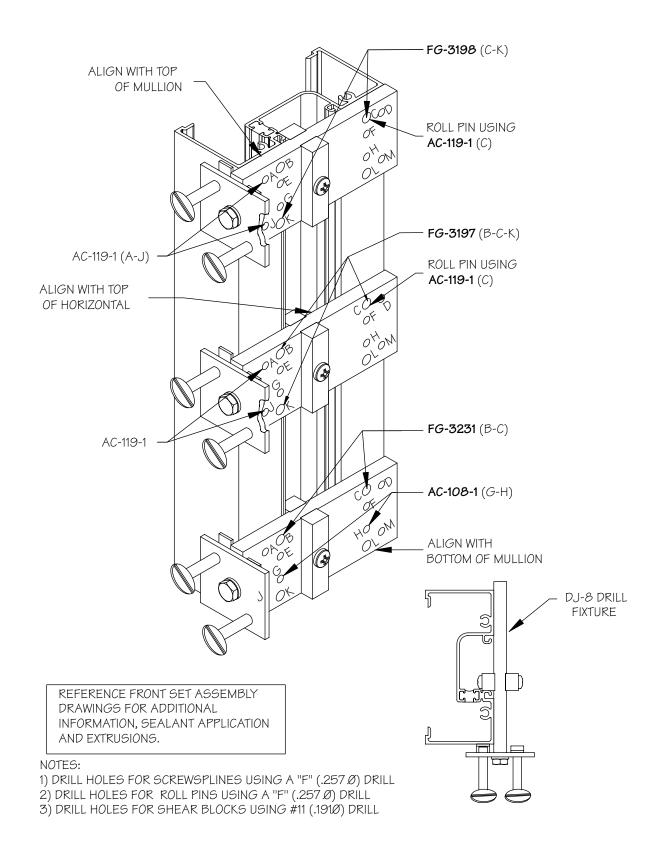
# INSIDE GLAZED, BACK SET GLAZING DETAIL



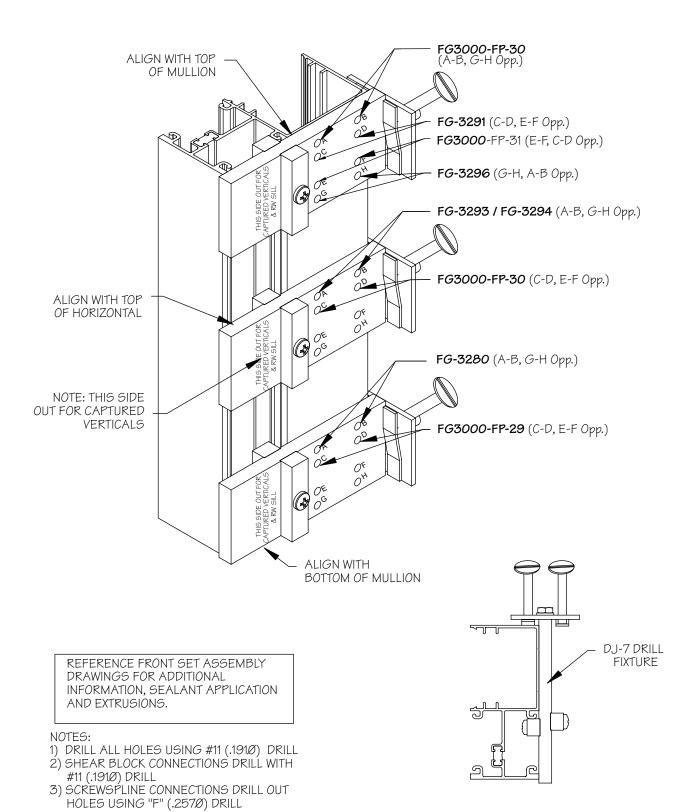
# OUTSIDE GLAZED, CENTER SET MULLION FABRICATION USING DRILL FIXTURE



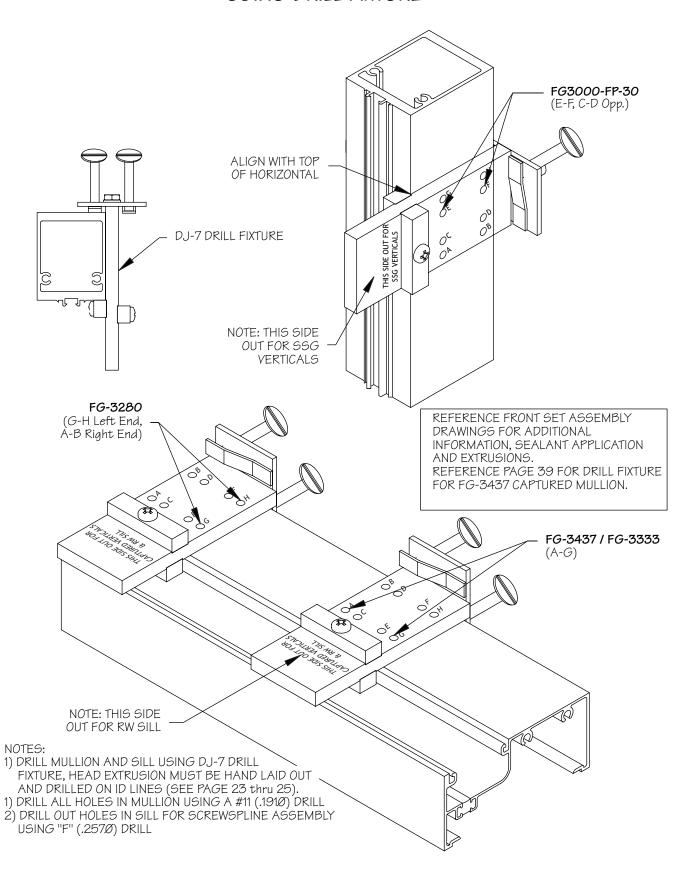
# INSIDE GLAZED, CENTER SET MULLION FABRICATION USING DRILL FIXTURE



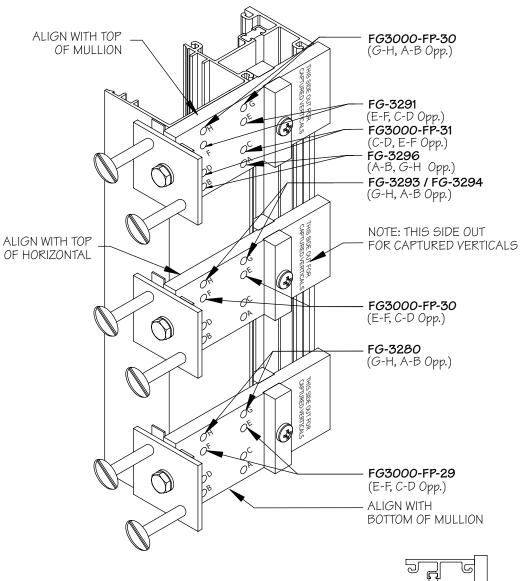
## FRONT SET MULLION FABRICATION USING DRILL FIXTURE



# SSG FABRICATION USING DRILL FIXTURE



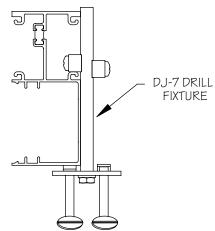
# BACK SET MULLION FABRICATION USING DRILL FIXTURE



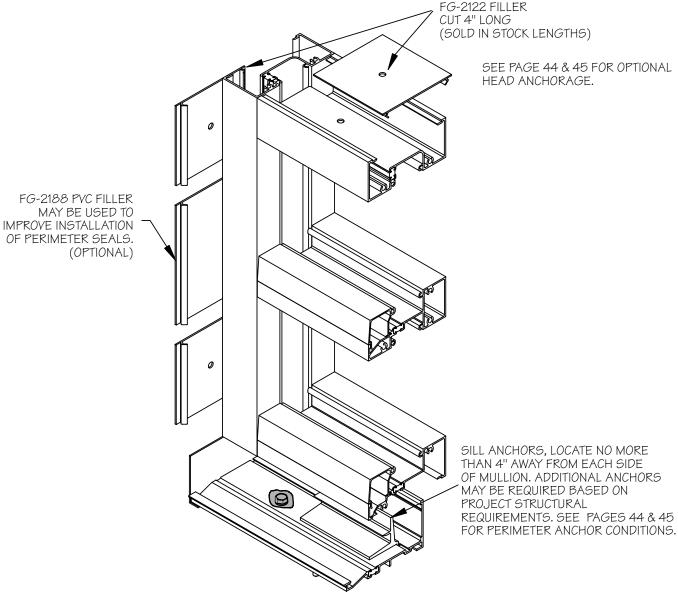
REFERENCE FRONT SET ASSEMBLY DRAWINGS FOR ADDITIONAL INFORMATION, SEALANT APPLICATION AND EXTRUSIONS.

#### NOTES:

- 1) DRILL ALL HOLES USING #11 (.1910) DRILL
- 2) SHEAR BLOCK CONNECTIONS DRILL WITH #11 (.1910) DRILL
- 3) SCREWSPLINE CONNECTIONS DRILL OUT HOLES USING "F" (.257Ø) DRILL



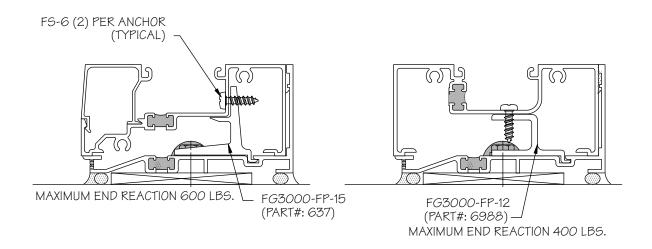
#### FRAME INSTALLATION

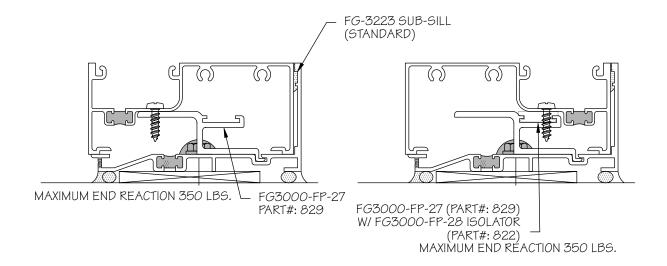


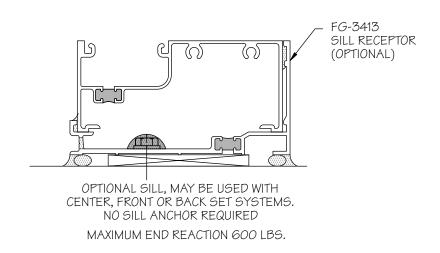
#### NOTES:

- 1) WHEN USING OPTIONAL FG-3413 SILL RECEPTOR, SILL ANCHORS ARE NOT REQUIRED.
- 2) ANCHOR SIZE AND FREQUENCY SHOULD BE DETERMINED BY STRUCTURAL REQUIREMENTS.
- 3) SILL AND HEAD ANCHORS SHOULD BE LOCATED SO THAT THE ANCHOR IS NOT MORE THAN 4" AWAY FROM EACH SIDE OF MULLION.
- 4) ASSEMBLY WITHOUT FLASHING IS NOT RECOMMENDED.
- 5) ASSEMBLY USING A NON-THERMAL OR SHEET METAL FLASHING WILL RESULT IN LOSS OF THERMAL CONTINUITY AND IS NOT RECOMMENDED.
- 6) DO NOT ANCHOR WALL THROUGH VERTICAL LEG OF SUB-SILL.

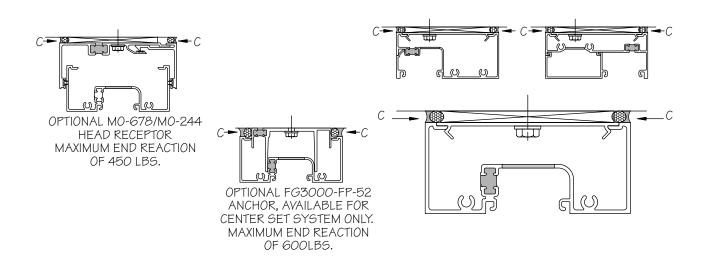
#### SILL ANCHORS

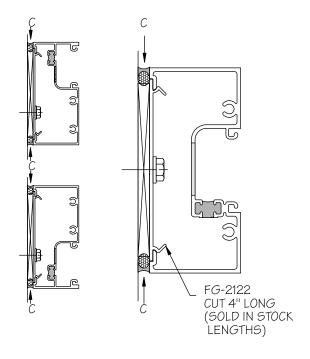






# OUTSIDE GLAZED ANCHORAGE AND PERIMETER SEAL

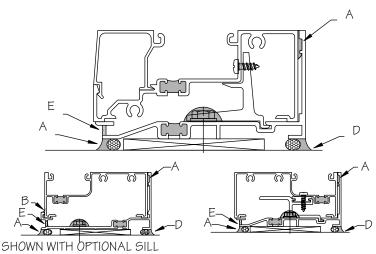




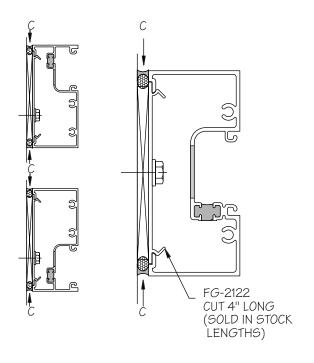
NOTE: 1/4" WEEP HOLES REQUIRED IN FLASHING (E) AT CENTERLINE OF D.L.O. APPLY SEALANT ALONG LENGTH OF SILL FLASHING AT POINT (A).

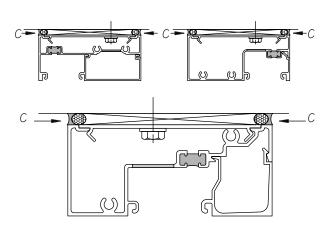
WHEN USING OPTIONAL FG-3413 SILL RECEPTOR: ONCE THE WALL IS SECURED, APPLY FILLET SEAL BETWEEN SILL FLASHING AND FRONT OF SILL (B).

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



# INSIDE GLAZED ANCHORAGE AND PERIMETER SEAL



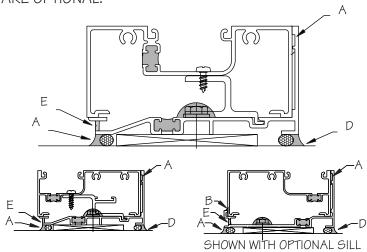


APPLY SEALANT ALONG LENGTH OF SILL FLASHING AT POINT (A).

WHEN USING OPTIONAL FG-3413 SILL RECEPTOR: ONCE THE WALL IS SECURED, APPLY FILLET SEAL BETWEEN SILL FLASHING AND FRONT OF SILL (B).

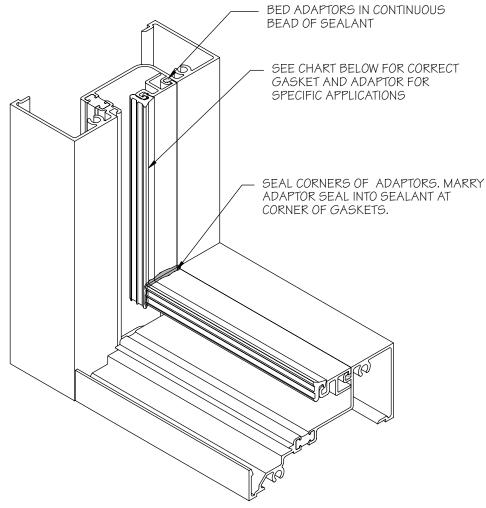
THE QUALITY OF THE INSIDE AND OUTSIDE PERIMETER SEALS (C) MAY BE IMPROVED BY USING FG-2188 RIGID PVC FILLER. THE PART MAY BE USED IN FULL LENGTHS OR CUT INTO PIECES. ITS PURPOSE IS TO PROVIDE SUPPORT FOR THE BACKER ROD REGARDLESS OF JOINT SIZE. INTERIOR PERIMETER SEAL AT SILL (D) IS FOR COSMETIC PURPOSES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

FOR SSG INSTALLATION ONLY. INTERIOR PERIMETER SEALS "C" & "D" ARE FOR COSMETIC PURPOSES AND ARE OPTIONAL.



NOTE: 1/4" WEEP HOLES REQUIRED IN FLASHING (E) AT CENTERLINE OF D.L.O.

### **GLAZING ADAPTOR INSTALLATION**



NOTE: ADAPTORS FOR FRONT SET AND CENTER SET TO BE INSTALLED ON INTERIOR SIDE AND BACK SET TO BE INSTALLED OF EXTERIOR SIDE FOR ALL GLAZING OPTIONS.

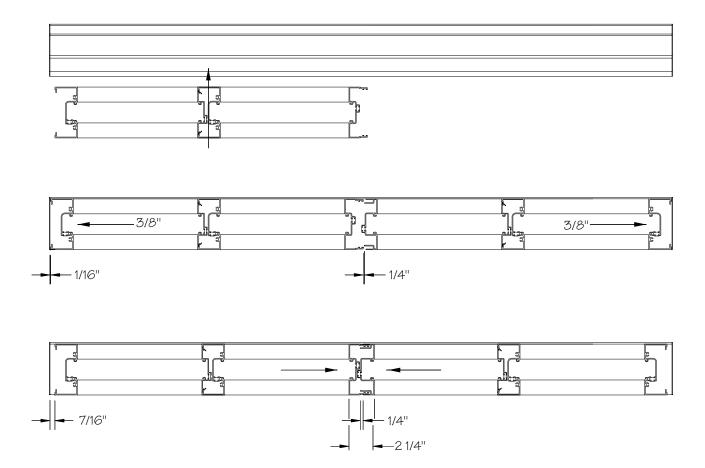
GLASS	ADAPTOR	GASKETS	<i>G</i> LASS	ADAPTOR	GASKETS
1/4"	FG-3194	FG-1133 Both Sides	11/16"	FG-3237	FG-1133 & FG-1134
5/16"	FG-3236	FL-66 Both Sides	3/4"	FG-3237	FG-1134 Both Sides
3/8"	FG-3236	FG-1133 & FL-66	13/16"	N/A	Not Available
7/16"	FG-3236	FG-1133 Both Sides	7/8"	None	FL-66 Both Sides
1/2"	FG-3237	FL-66 Both Sides	15/16"	None	FG-1133 & FL-66
9/16"	FG-3237	FG-1133 & FL-66	1"	None	FG-1133 Both Sides
5/8"	FG-3237	FG-1133 Both Sides	1 1/16"	None	FG-1133 & FG-1134
5/8"	NONE	FG-3129 Both Sides	11/8"	None	FG-1134 Both Sides

## EXPANSION MULLION INSTALLATION

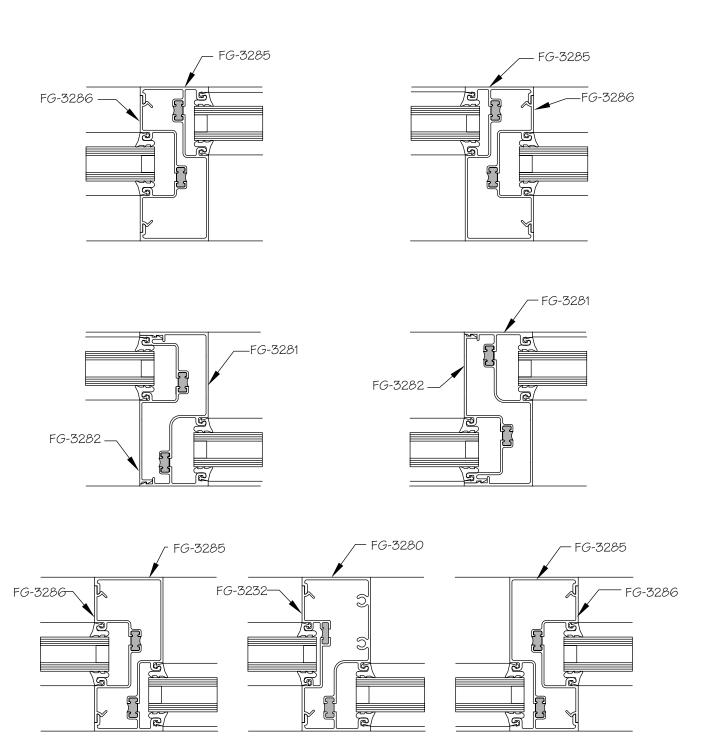
The example below shows installation of the center set system, options for front or back set are also available. Please reference price catalog for specific extrusions and anchors required for your installation. Please note the locations of various seals and insure proper locations of these seals when 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.

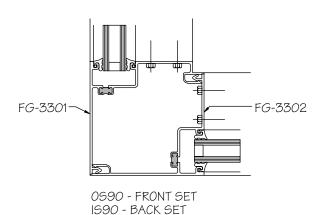
Multiple units may require the use of an expansion mullion if total run exceeds 24 feet in length. When elevation exceeds the 24 foot limit, locate expansion mullions at a distance of no more than every 20 feet. Locate splice in sub-sill at a distance of no more than every 12 feet. A minimum of 7/16" 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. Vistawall recommends the use of the FG-2188 PVC filler in the jambs and head to improve the perimeter seal.

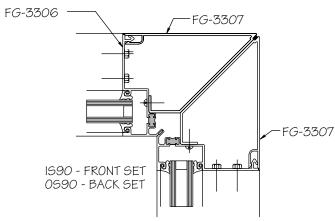


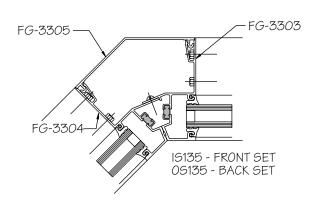
# OPTIONAL VERTICALS FOR MULTI-POSITION GLASS

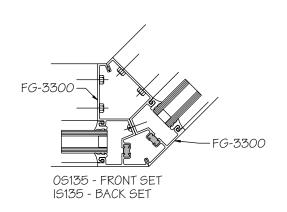


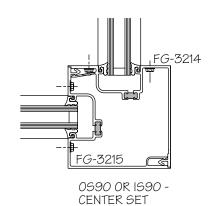
#### CORNER DETAILS

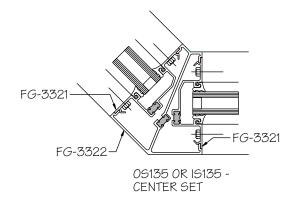




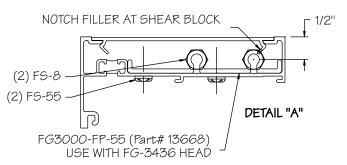




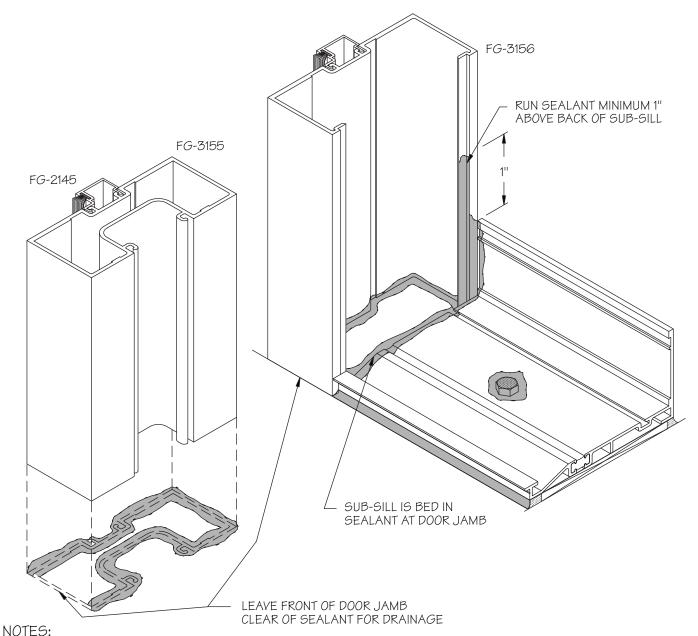




NOTE: WHEN USING ALL CORNER ASSEMBLIES WITH SSG SYSTEM APPLICATIONS, THE CORNER WILL RUN THROUGH. ATTACH USING CONNECTIONS SHOWN IN FABRICATION AND ASSEMBLY SECTION OF THIS MANUAL. SPECIAL SHEAR BLOCK FOR HEAD IS SHOWN IN DETAIL "A" ON THIS PAGE.



#### DOOR FRAME INSTALLATION



- 1) USE SHEAR BLOCKS AS SHOWN IN FRAME ASSEMBLY SECTION OF THIS MANUAL TO SECURE HORIZONTALS TO TUBULAR FRAMES.
- 2) DOOR FRAME IS ANCHORED BY FASTENERS THROUGH THRESHOLD AND DOOR FRAME HEADER.
- 3) DO NOT FABRICATE STANDARD 2 PIECE POUR & DEBRIDGED FRAME EXTRUSIONS FOR DOOR FRAMES. IF THERMAL FRAME IS REQUIRED, OPTIONAL THERMAL DOOR FRAME FG-3389 OR FG-3444 MAY BE USED IN CONJUNCTION WITH VISTAWALL'S THERMAL DOORS.
- 4) WHEN USING THE CENTER SET SYSTEM, THE TWO-PIECE OR TUBULAR FRAMING OPTION ARE AVAILABLE AS SHOWN ABOVE. WHEN USING EITHER THE FRONT SET OR BACK SET SYSTEM ONLY THE TUBULAR OPTION IS AVAILABLE. THE VERTICAL FOR THE FRONT OR BACK SET OPTIONS IS FG-3287.

# SERIES 3000 THERMAL MULTIPLANE PARTS LIST

## SERIES 3000 THERMAL MULTIPLANE CENTER SET

FG-3231	Open Back Head / Jamb / Mullion
FG-3313	Open Back Heavy Mullion
FG-3328	Expansion Mullion (mates w/ FG-3327)
¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬¬	Expansion Mullion (mates w/ FG-3326)
f FG-3232	Open Back Filler
FG-3197	Intermediate Horizontal
آ السام ا	Sill
FG-3144	Glass Stop for FG-3197, FG-3198 & FG-3320
[	Heavy Glass Stop for Inside Glazing

## SERIES 3000 THERMAL MULTIPLANE SILL FLASHING

FG-3223	Sub-Sill
FG-3413	Sill Receptor

## SERIES 3000 THERMAL MULTIPLANE FRONT SET

FG-3280	Open Back Jamb & Sill
FG-3283	Open Back Mullion
FG-3297	Open Back Heavy Mullion
FG-3326	Expansion Mullion (mates w/ FG-3327)
FG-3327	Expansion Mullion (mates w/ FG-3326)
FG-3284	Open Back Filler (Mullion & Horizontal)
FG-3296	Outside Glazed Head
FG-3294	Outside Glazed Horizontal
FG-3295	Face Stop for FG-3294 & FG-3296
FG-3291	Inside Glazed Head
FG-3293	Inside Glazed Horizontal
,[] FG-3290	Glass Stop for FG-3291 & FG-3293

# SERIES 3000 THERMAL MULTIPLANE PARTS LIST

## SERIES 3000 THERMAL MULTIPLANE BACK SET

FG-3280	Open Back Jamb & Sill
FG-3283	Open Back Mullion
FG-3297	Open Back Heavy Mullion
FG-3326	Expansion Mullion (mates w/ FG-3327)
FG-3327	Expansion Mullion (mates w/ FG-3326)
[ FG-3284	Open Back Filler (Mullion & Horizontal)
FG-3296	Inside Glazed Head
FG-3294	Inside Glazed Horizontal
FG-3295	Face Stop for FG-3294 & FG-3296
آب بستاً FG-3291	Outside Glazed Head
FG-3293	Outside Glazed Horizontal
.[] FG-3290	Glass Stop for FG-3291 & FG-3293

### SERIES 3000 THERMAL MULTIPLANE OPTIONAL VERTICALS

1	FG-3285	Open Back Mullion- Center Set to Front Set or Back Set
ţ.	FG-3286	Open Back Filler for FG-3285
	FG-3281	Open Back Mullion - Front Set to Back Set or Back Set to Front Set
	FG-3282	Open Back Filler for FG-3281

### SERIES 3000 THERMAL MULTIPLANE SSG SYSTEM

FG-3280	Open Back Jamb & Sill
FG-3333	SSG Mullion
eg FG-3437	Mullion
FG-3436	Head
FG-3334	Intermediate Horizontal
FG-3335	Face Stop for FG-3334
.[] FG-3290	Glass Stop for FG-3436 & FG-3334

# SERIES 3000 THERMAL MULTIPLANE PARTS LIST

## SERIES 3000 THERMAL MULTIPLANE AUXILIARY EXTRUSIONS

AUXILIANT EXTROGIONS		
MO-678	Head Receptor	
MO-244	Receptor Face	
FG-3320	4-13/16" High Sidelight Base	
FG-3331	4-5/8" High Sidelight Base (mates w/ FG-3332)	
FG-3332	4-5/8" High Sidelight Base (mates w/ FG-3331)	
FG-3214	Center Set 90° Corner	
FG-3215	Center Set 90° Corner (Self-Mating 180°)	
FG-3301	Front Set Outside 90°, Back Set Inside 90° Corner	
FG-3302	Front Set Outside 90°, Back Set Inside 90° Corner (Mates w/ FG-3301)	
FG-3306	Front Set Inside 90°, Back Set Outside 90° Corner (2 per corner)	
FG-3307	90° Corner mates w/ FG-3306 (2 per corner)	
FG-3322	Center Set 135° Corner	

## SERIES 3000 THERMAL MULTIPLANE AUXILIARY EXTRUSIONS

FG-3321	Center Set 135° Corner Filler (2 per corner)
2 FG-3304	135° Corner mates w/ FG-3303
FG-3305	135° Filler for FG-3303/FG-3304
FG-3300	Front Set 135°Outside, Back Set Inside 135°Corner (2 per corner)
FG-3303	Front Set 135°Inside, Back Set Outside 135°Corner (2 per corner)
← → → FG-2122	Open Back Filler
← → FG-2188	Vinyl Filler for Caulk Stop 12' lg.
т т FG-3126	Pocket Filler
FG-3218	Vinyl Pocket Filler for Window Applications 12' lg.
닝 FG-3194	Glazing Adaptor for 1/4" glass
<b>당</b> FG-3237	Glazing Adaptor for 1/2", 9/16",5/8", 11/16" & 3/4"
<b></b> FG-3236	Glazing Adaptor for 5/16", 3/8" & 7/16"

# SERIES 3000 THERMAL MULTIPLANE PARTS LIST

## SERIES 3000 THERMAL MULTIPLANE ACCESSORIES

FG1000-FP-2	Water Diverter for Center Set Outside Glazed & all Front Set or Back Set
FG1000-FP-4/5	Water Diverter for Center Set Inside Glazed
FG3000-FP-9/10	Splice for FG-3223
FG3000-FP-4	End Dam for FG-3223
FG3000-FP-47	Splice for FG-3413
FG3000-FP-46	End Dam for FG-3413
AC-108-1	Shear Block for FG-3231
AC-119-1	Shear Block for FG-3197 & FG-3198
FG3000-FP-29	Shear Block for FG-3280
FG3000-FP-30	Shear Block for FG-3291, FG-3293, FG-3294 & FG-3334
FG3000-FP-56	End Dam for FG-3280 Sill for SSG System

## SERIES 3000 THERMAL MULTIPLANE ACCESSORIES

FG3000-FP-31	Shear Block for FG-3296
FG3000-FP-55	Shear Block for FG-3436 Head at Corners
FG3000-FP-12	Anchor for FG-3223 Inside Glazed Center Set
FG3000-FP-15	Anchor for FG-3223 Outside Glazed Center Set
FG3000-FP-27	Anchor for FG-3223 Front or Back Set
FG3000-FP-28	Sill Anchor Isolator for Back Set Only (mates w/FG3000-FP-27)
FG3000-FP-32	Anchor for FG-3223 use w/ FG-3332 Sidelight Base
FG3000-FP-52	Anchor for FG-3231 Head
FG3000-FP-53	Funnel Bridge for FG-3334
FG3000-FP-41/54	Splices for FG-3436 Head
FG3000-FP-38/39	Splices for FG-3280 Sill

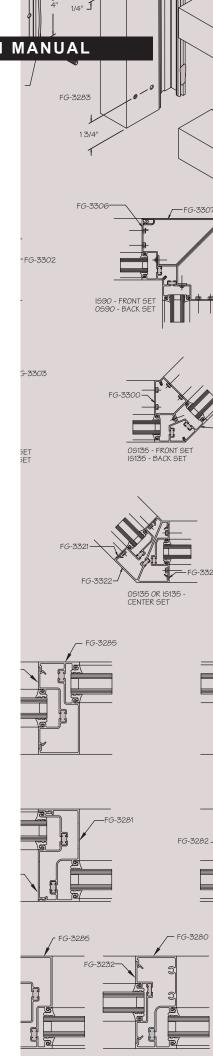
# SERIES 3000 THERMAL MULTIPLANE PARTS LIST

## SERIES 3000 THERMAL MULTIPLANE FASTENERS & DRILL FIXTURES

FS-6	#10 X 3/4" P.P.H. Attachment of Sill to Sill Anchor & Shear Blocks
FS-7	#10 X 3/4" P.F.H. Attachment of Shear Blocks
FS-8	#14 X 1" H.H.S.T.S. Assembly Screw
FS-55	#10 x 1/2" P.R.H. Attachment of Shear Blocks at Horizontals
FS-202	#8 x 1/2" P.P.H. Attachment of FG3000-FP-53 Bridge
DJ-7	Drill Fixture for Front or Back Set Shear Block or Screwspline Assembly
DJ-8	Drill Fixture for Center Set Shear Block or Screwspline Assembly

## SERIES 3000 THERMAL MULTIPLANE GASKETS & SETTING BLOCKS

<b>F</b> G-1133	1" Glazing Gasket
FG-1134	Light Gasket
FG-3129	5/8" Glazing Gasket
FL-66	Heavy Gasket
HP-30066	Spacer Gasket for SSG Mullion
<u>Ø</u> CW-998	Gasket for Expansion Mullions
TT V-11	Gasket for Head Receptor
FG-3220	Setting Block for FG-3197, FG-3198 & FG-3231
FG-3221	Setting Block for FG-3197 Inside Glazed
FG-3278	Setting Block for FG-3280
HP-17	Setting Block for FG-3293, FG-3294 & FG-3334
HP-1004	Weep Baffle



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