



**Oldcastle** BuildingEnvelope®

# ***SERIES 3000 XT - STOREFRONT***

## ***INSTALLATION AND GLAZING MANUAL***

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

# SERIES 3000XT INSTALLATION MANUAL

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# **SERIES 3000XT INSTALLATION MANUAL**

## **GENERAL INFORMATION**

The Oldcastle BuildingEnvelope® Series 3000 XT (2 x 4 1/2) system represents the latest in product development technology complemented by dealer on -the-job input and experience. Proper use of this system will assure optimum results in erection and long -term performance.

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

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

### **PROTECTION AND STORAGE:**

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

### **CHECK MATERIAL:**

Check all material upon arrival for quality and to assure against shipping damage. Any visible damage must be noted on the freight bill at the time of receipt. If a claim is required, then the receiving party must process a claim with the freight company.

Completely check construction, which will receive your materials against contract documents. Notify general contractor by letter of any discrepancies before proceeding with work. Failure to do so constitutes acceptance of work by other trades.

Check shop drawings and installation instructions to become familiar with the project. The shop drawings take precedence and include specific details for the project. The installation instructions are of a general nature and cover the most common conditions. Due to varying job conditions, all sealants used should be approved by the sealant manufacturer, to insure they will function for conditions shown on instructions and shop drawings. They must be compatible with all surfaces in which adhesion is required, including other sealant surfaces. Use primers where directed by manufacturer of sealant. Be sure to properly store sealants at recommended temperatures and check sealant for remainder of shelf life before using.

### **FIELD CONDITIONS:**

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

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## **GENERAL INFORMATION CONT.**

### **CLEANING MATERIALS:**

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

### **EXPANSION JOINTS:**

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

### **THERMAL IMPROVEMENT SUGGESTIONS:**

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

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

### **FABRICATION SUGGESTIONS:**

**Oldcastle BuildingEnvelope® recommends the use of our EZ Punch tooling for faster and more accurate fabrication of wall systems. If hand fabricating the mullions; drill fixtures are available to improve accuracy. Fabrication instructions for use of these drill fixtures are described within this manual on pages 35 through 39.**

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## OUTSIDE GLAZED FRAME FABRICATION

Measure ROUGH OPENING to determine FRAME WIDTH and FRAME HEIGHT dimensions. Allow 1/2" minimum clearance at head and 1/4" minimum clearance at jambs and sill for shimming and caulking around perimeter frame.

Cut material to size per dimensions given below:

### Frame Members

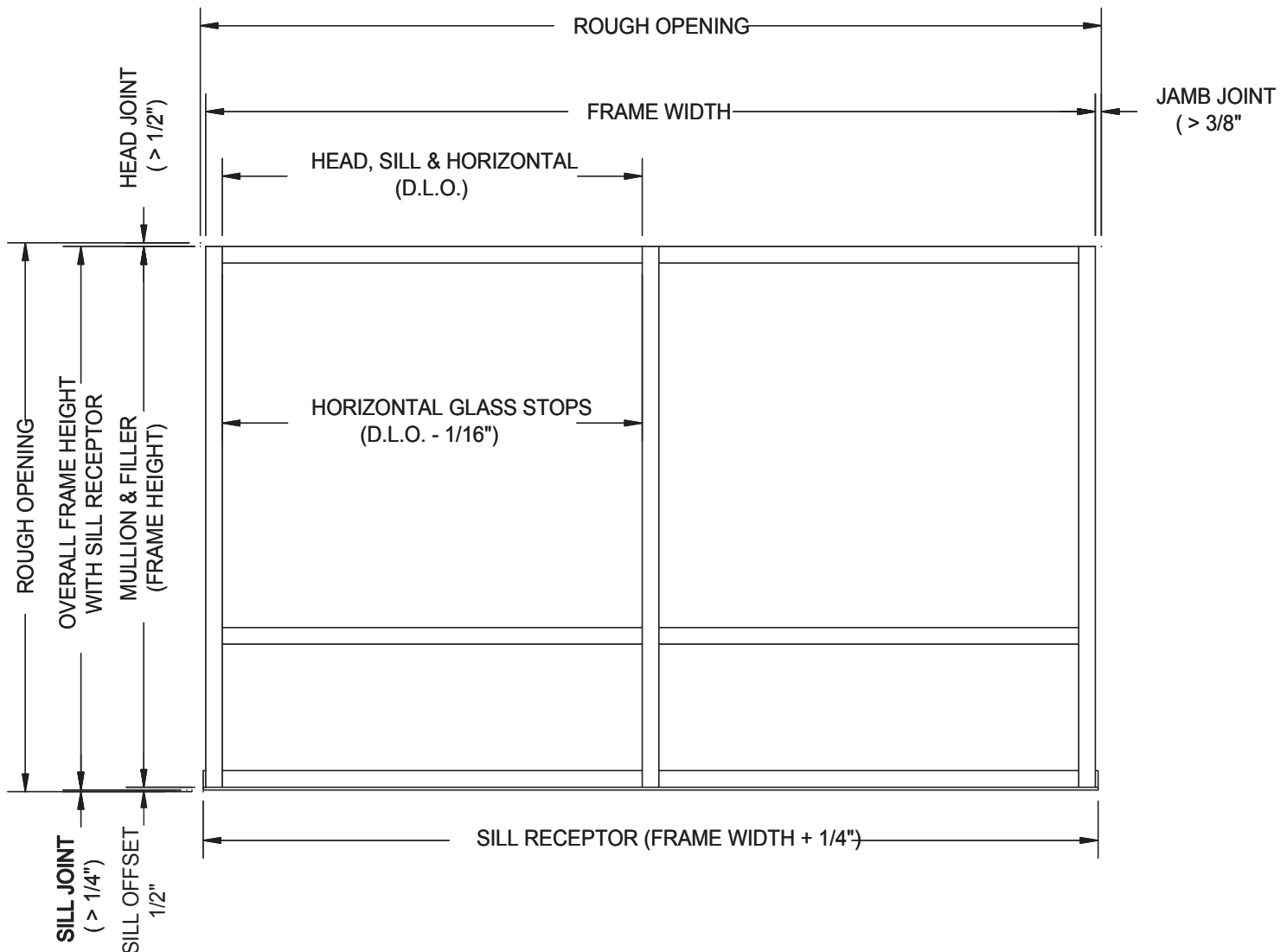
|                               |  |
|-------------------------------|--|
| Mullions and Mullion Fillers: | Frame Height (Rough Opening - Head & Sill Joints - 1/2") |
| Sill Receptor:                | Frame Width + 1/4"                                       |
| Horizontal, Head & Sill:      | Day Light Opening (DLO)                                  |
| Glass Stops:                  | DLO - 1/16"  |

### Gaskets

|                     |                          |
|---------------------|--------------------------|
| Horizontal Gaskets: | DLO + 3/8" per foot      |
| Vertical Gaskets:   | DLO + 1" + 3/8" per foot |

### Accessories

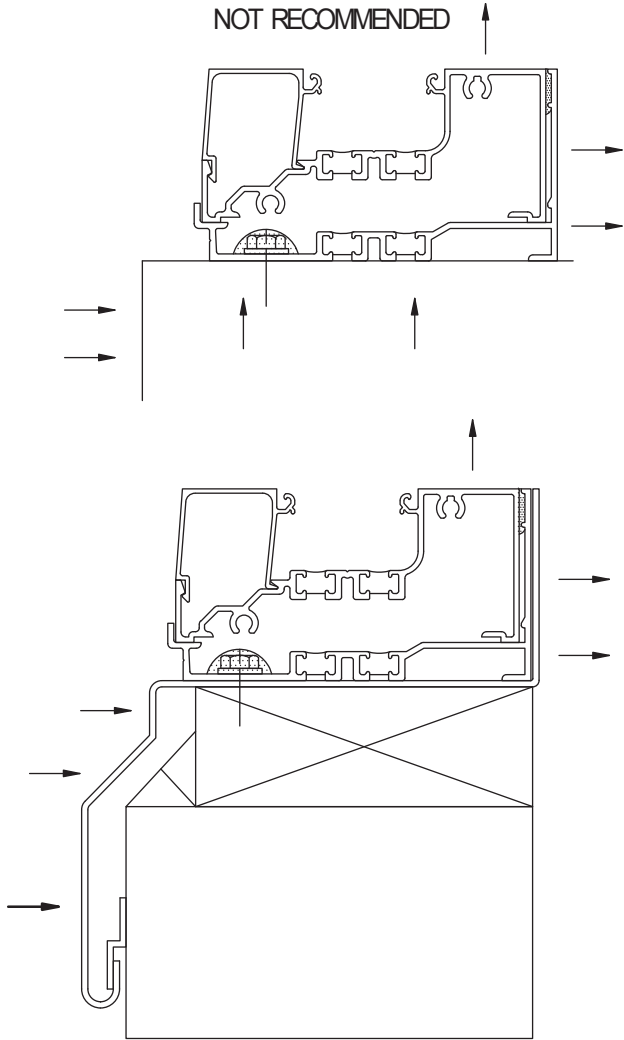
|                              |                            |
|------------------------------|----------------------------|
| Horizontal Glazing Adaptors: | DLO - 1/16"                |
| Vertical Glazing Adaptors:   | DLO + 7/8"                 |
| Door Jambs:                  | Rough Opening - Head Joint |



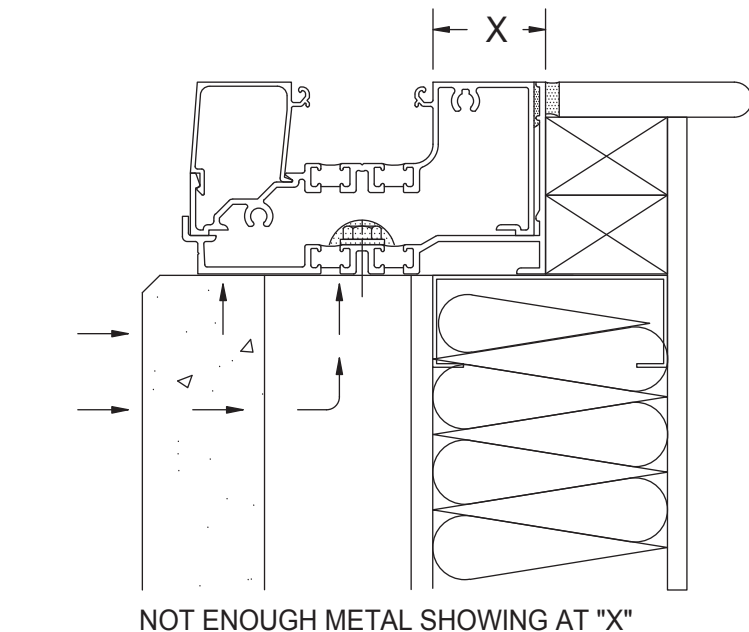
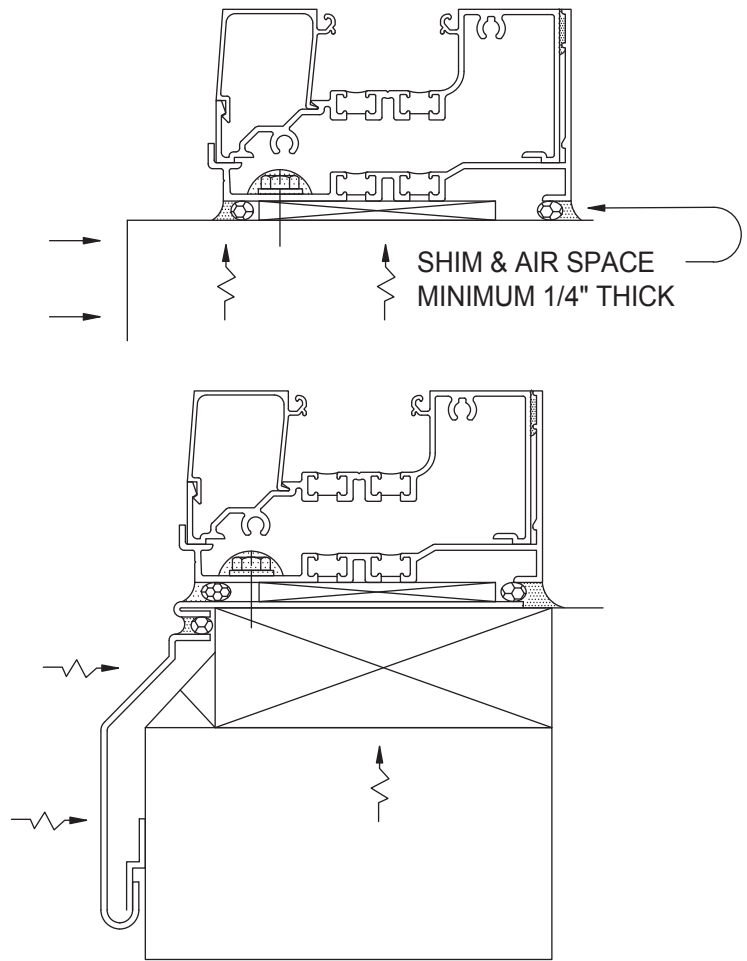
# SERIES 3000XT INSTALLATION MANUAL

## INSTALLATION FOR THERMAL PERFORMANCE

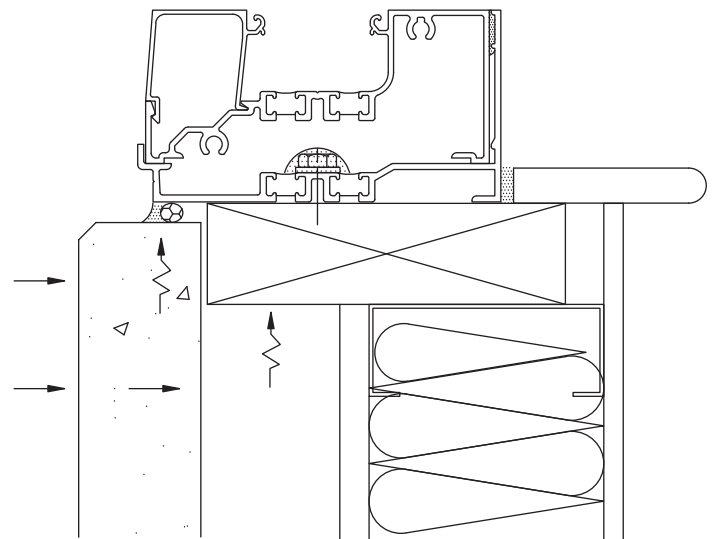
NOT RECOMMENDED



PREFERRED



NOT ENOUGH METAL SHOWING AT "X"



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

# SERIES 3000XT INSTALLATION MANUAL

## SILL RECEPTOR INSTALLATION

### INSTALL SILL RECEPTOR AND END DAM

NOTE: IF A TWO PIECE HEAD RECEPTOR IS NOT USED, A 1/4" MINIMUM CLEARANCE IS REQUIRED AT THE HEAD CONDITION TO ALLOW FRAME INSTALLATION.

ANCHOR SILL RECEPTOR WITHIN 4" FROM EITHER SIDE OF INTERMEDIATE MULLIONS. ANCHOR SIZE AND FREQUENCY SHOULD BE DETERMINED BY STRUCTURAL REQUIREMENTS. CAP SEAL FLASHING ANCHORS AS SHOWN.

FG3000-FP-46

DRILL 5/16" WEEP HOLES  
LOCATE AT MID-LITE

SEAL END DAM TO  
SILL RECEPTOR.

FG-3511

SHIM UNDER  
SILL RECEPTOR.

### INSTALL SPLICE SLEEVE

NOTE: INSTALL SILL RECEPTOR LEVEL.

SEAL WITH A NON-SKINNING  
NON-HARDENING SEALANT.  
FILL BREAK IN FLASHING  
AND UNDER SPLICE.

SEAL SILL RECEPTOR  
VERTICAL SPLICE JOINT

JUST PRIOR TO FRAME INSTALLATION,  
APPLY CONTINUOUS SEALANT ALONG  
GROOVE IN FRONT AND BACK LEGS OF  
SILL RECEPTOR AND AROUND JOINT AS  
SHOWN. IMMEDIATELY INSTALL FRAME  
INTO SILL.

FG3000-FP-57

1/4" NOMINAL

REFERENCE DETAIL "A"  
PAGE 6 FOR ADDITIONAL  
SEALANT INFORMATION

FG-3511

CLEAN EXCESS  
SEALANT AWAY.

SET FRONT OF FRAME IN  
SILL RECEPTOR AND TILT  
BACK INTO PLACE.

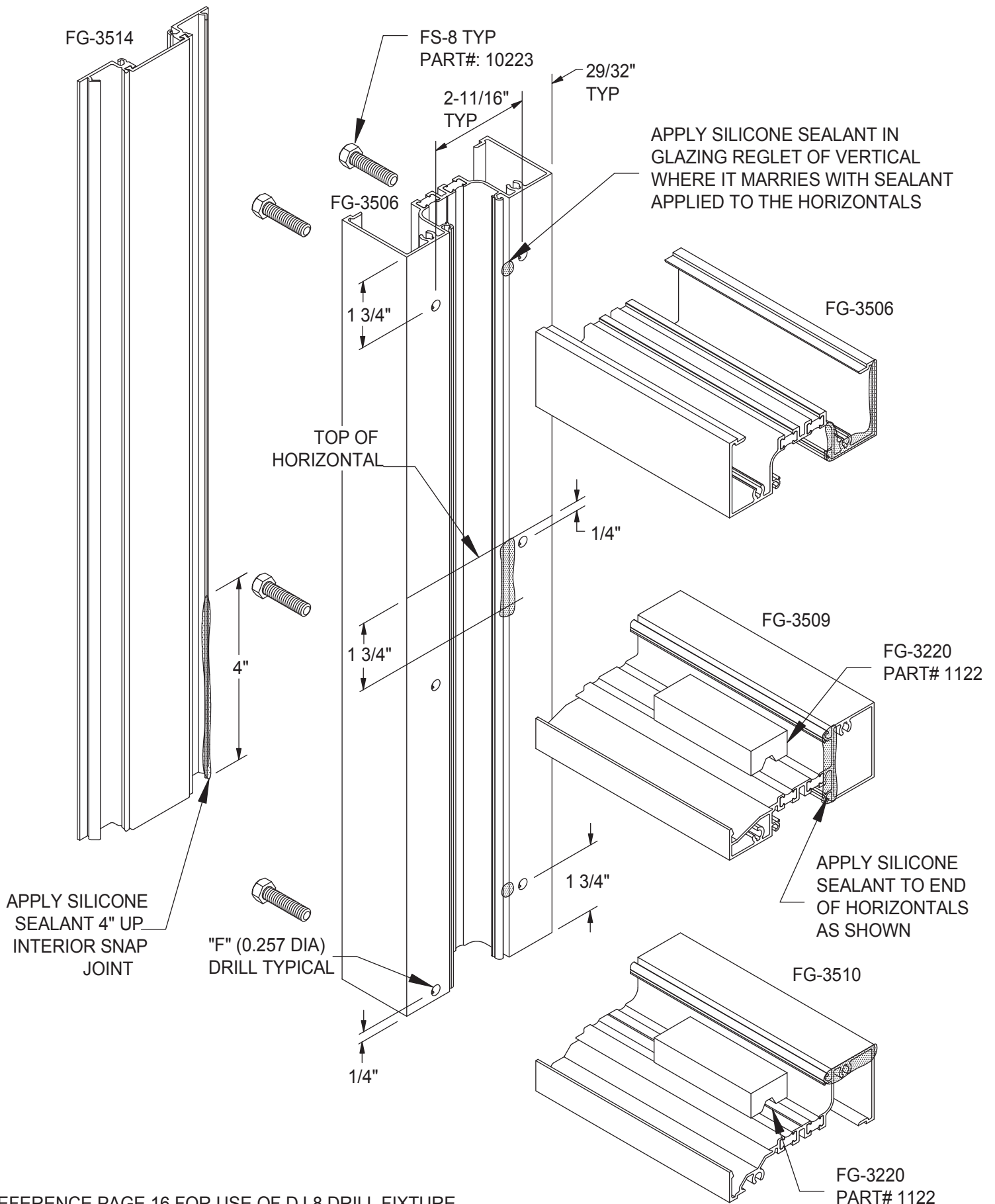
INTERIOR PERIMETER SEAL  
AT SILL IS OPTIONAL AND FOR  
COSMETIC PURPOSES ONLY.

#### NOTE:

- 1) SILL RECEPTOR SHALL BE INSTALLED LEVEL AND SHOULD NEVER TILT TOWARDS INTERIOR OF BUILDING.
- 2) THE FG-3511 SILL RECEPTOR IS DESIGNED TO WITHSTAND A MAXIMUM END REACTION OF 600 LBS.
- 3) SPLICE SILL RECEPTOR AT MID-LITE.
- 4) LOCATE SPLICE JOINT AT DISTANCE OF NO MORE THAN EVERY 12 FEET.

# SERIES 3000XT INSTALLATION MANUAL

## OUTSIDE GLAZED SCREW SPLINE FRAME ASSEMBLY

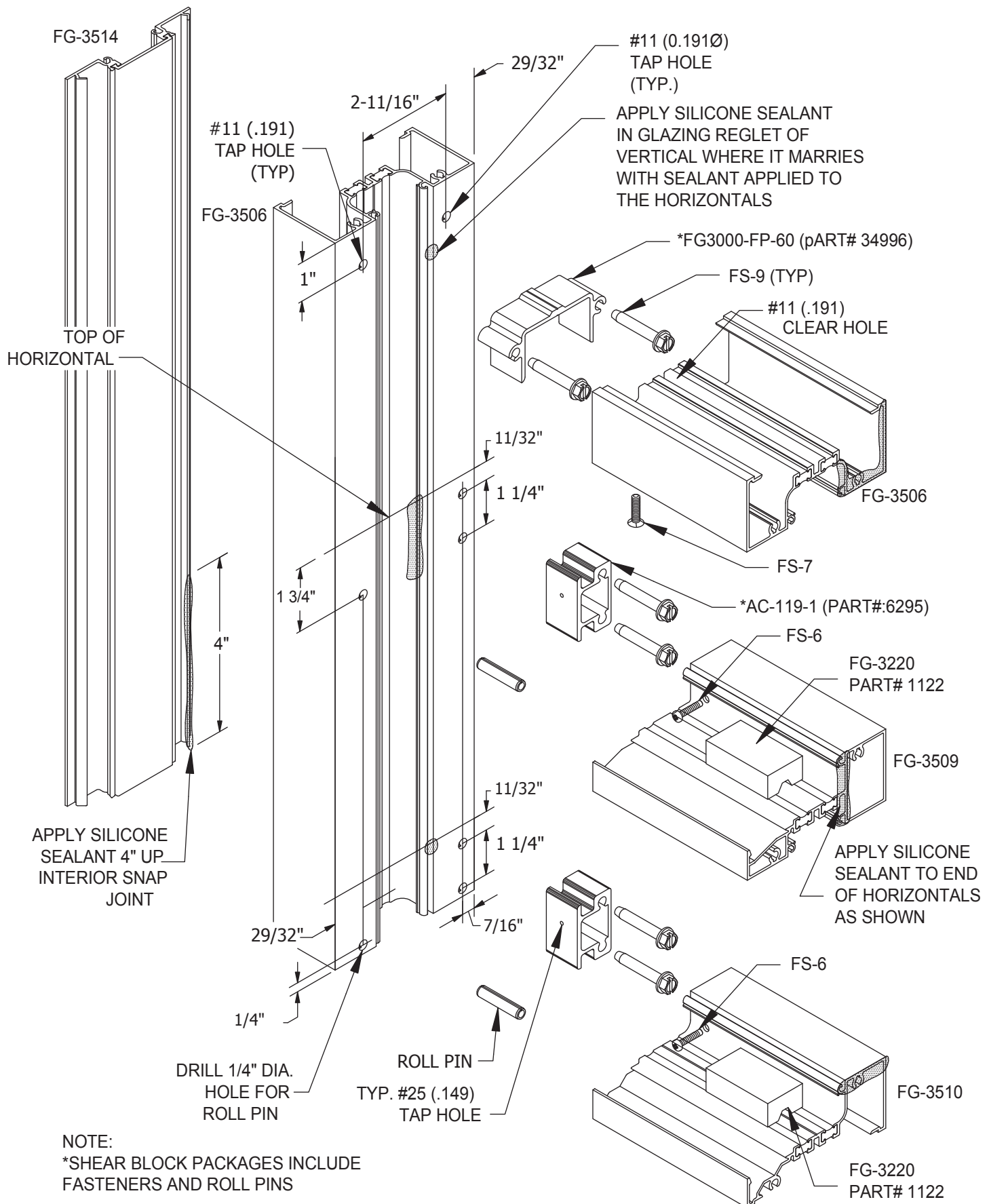


REFERENCE PAGE 16 FOR USE OF DJ-8 DRILL FIXTURE.



# SERIES 3000XT INSTALLATION MANUAL

## OUTSIDE GLAZED SHEAR BLOCK FRAME ASSEMBLY

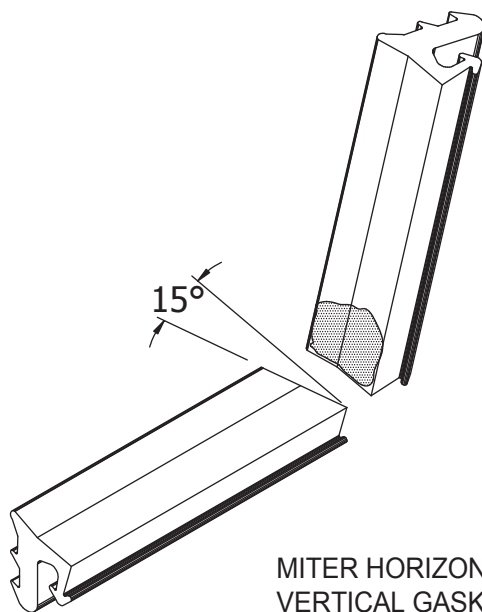


REFERENCE PAGE 16 FOR USE OF DJ-8 DRILL FIXTURE.

# SERIES 3000XT INSTALLATION MANUAL

## OUTSIDE GLAZED 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 ISOPROPYL 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. INSTALLING 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.

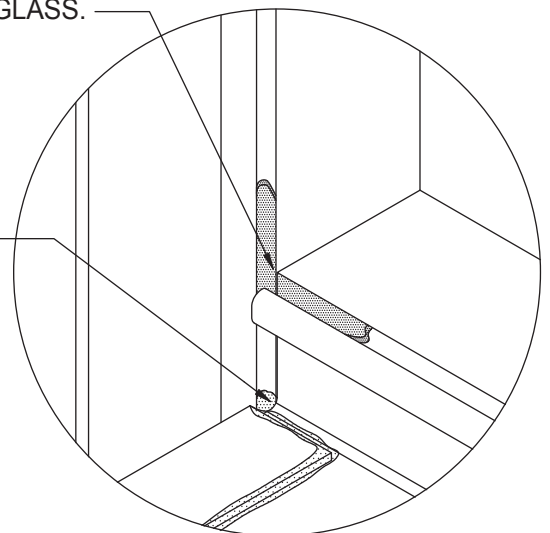


DETAIL "A"

MITER HORIZONTAL GASKET TO VERTICAL GASKET

SEAL CORNERS AT GLAZING TRACK PRIOR TO SETTING GLASS.

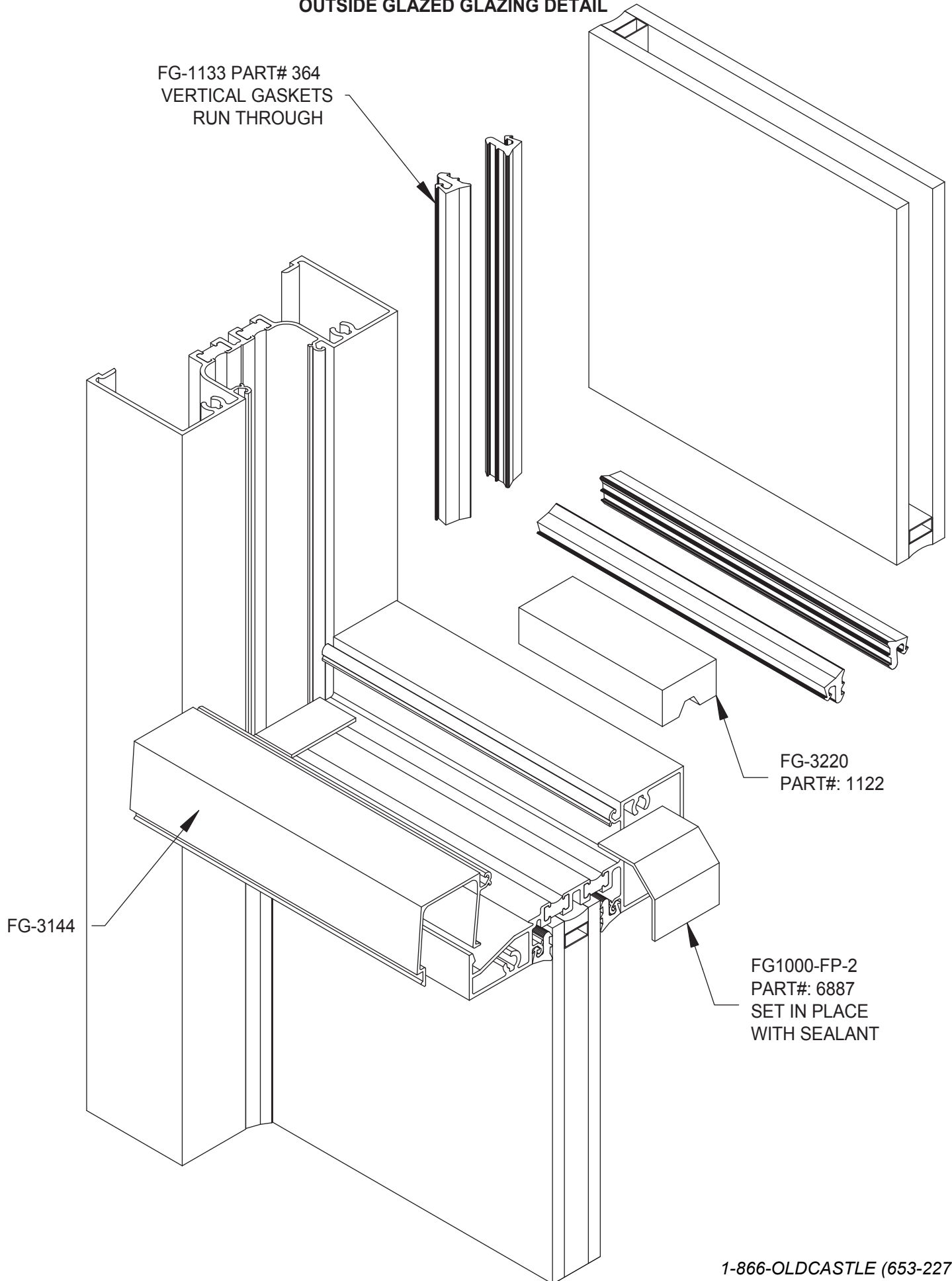
SEAL CORNERS GASKET RACE AT WATER DIVERTER.



DETAIL "B"

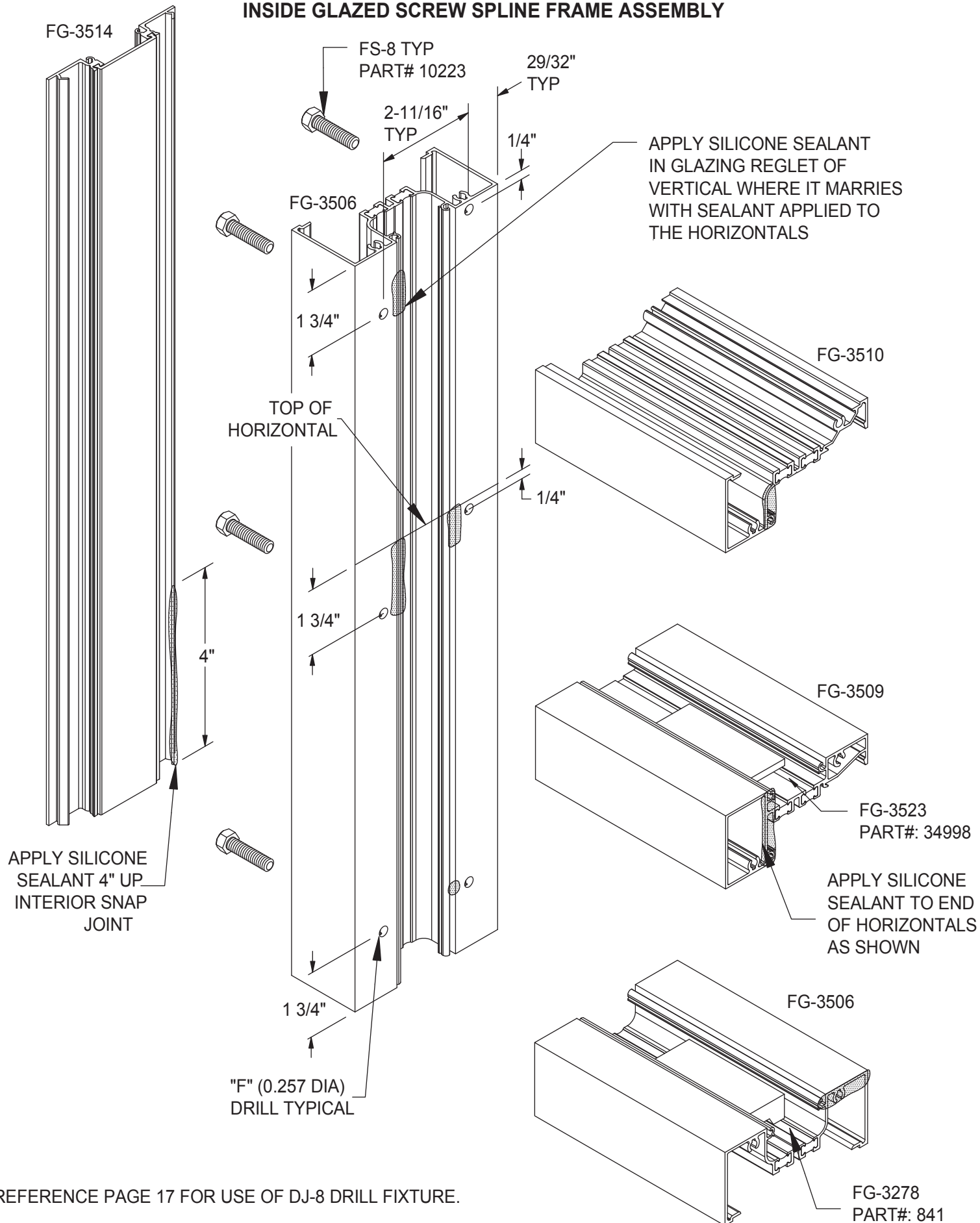
# SERIES 3000XT INSTALLATION MANUAL

## OUTSIDE GLAZED GLAZING DETAIL



# SERIES 3000XT INSTALLATION MANUAL

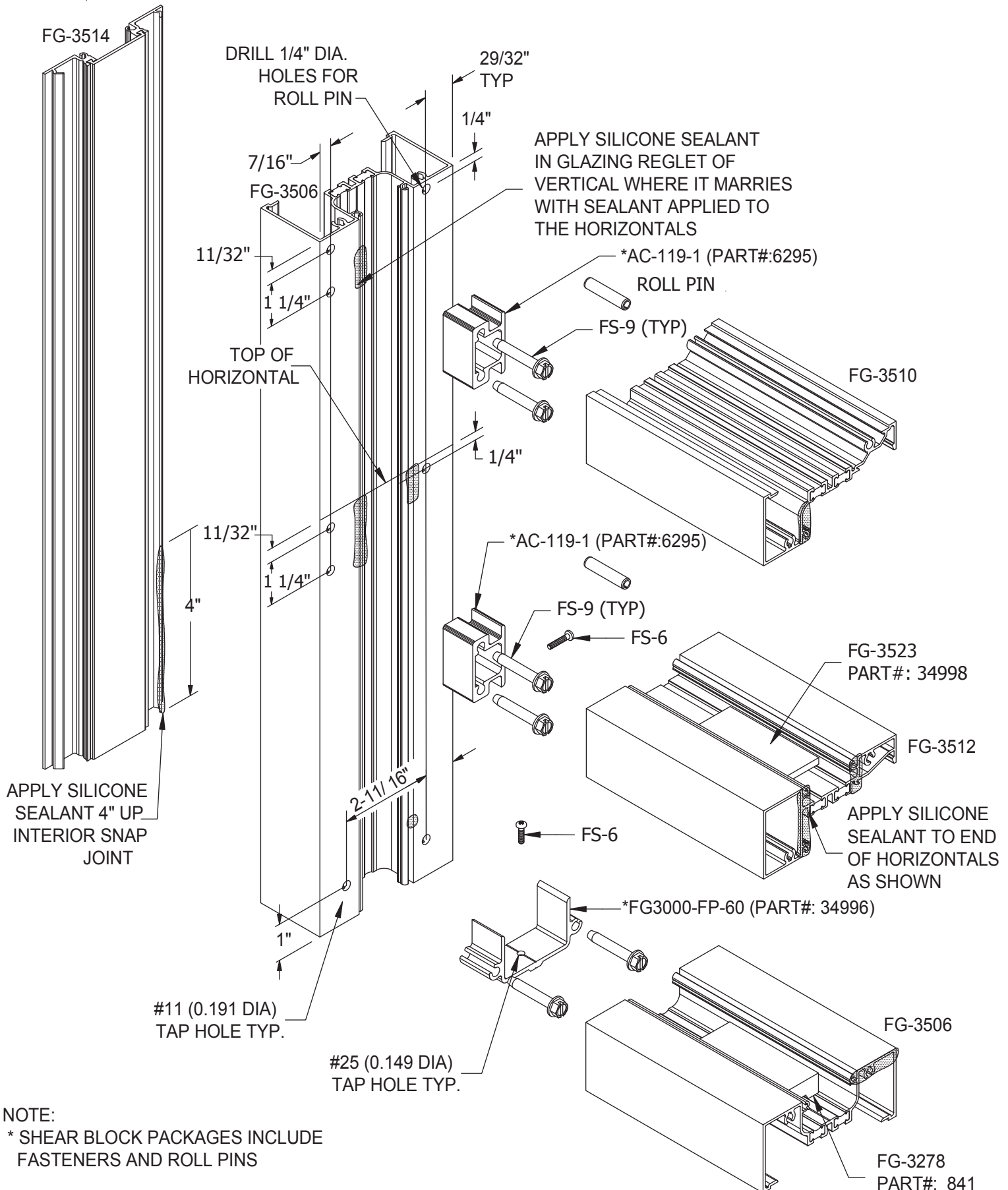
## INSIDE GLAZED SCREW SPLINE FRAME ASSEMBLY



REFERENCE PAGE 17 FOR USE OF DJ-8 DRILL FIXTURE.

# SERIES 3000XT INSTALLATION MANUAL

## INSIDE GLAZED SHEAR BLOCK FRAME ASSEMBLY



### NOTE:

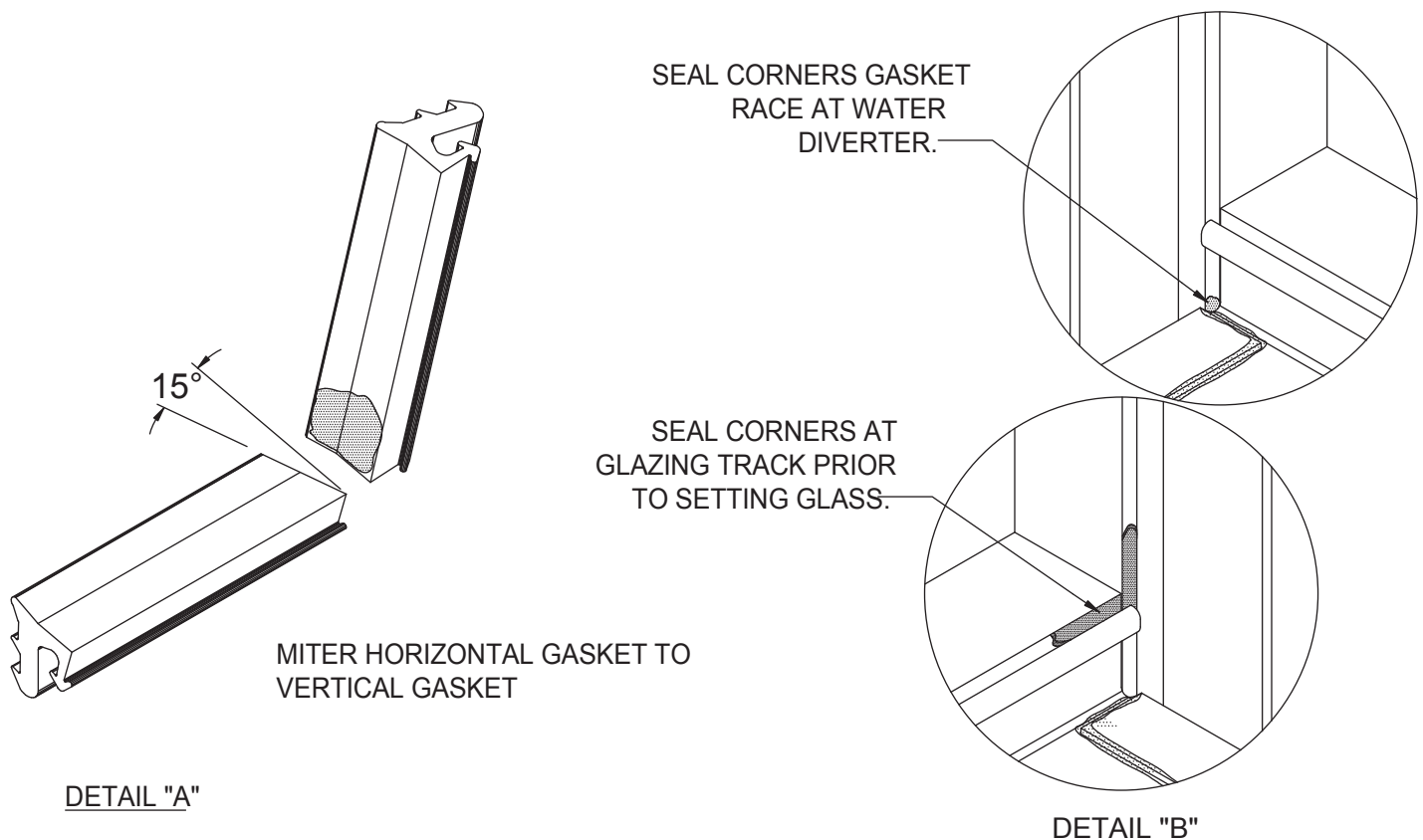
\* SHEAR BLOCK PACKAGES INCLUDE FASTENERS AND ROLL PINS

REFERENCE PAGE 17 FOR USE OF DJ-8 DRILL FIXTURE.

# **SERIES 3000XT INSTALLATION MANUAL**

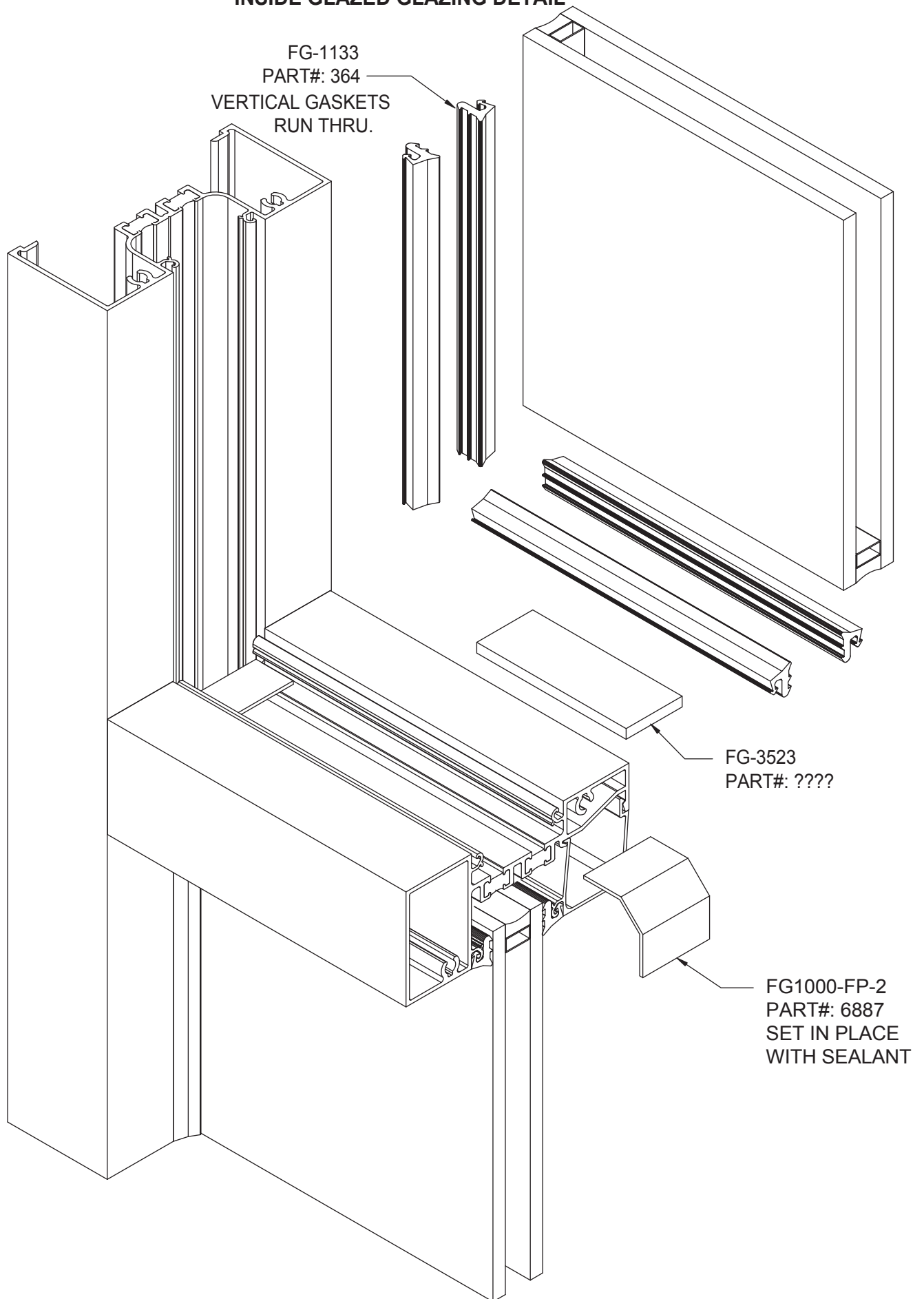
## **INSIDE GLAZED GLAZING GUIDELINES**

- 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 ISOPROPYL 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. INSTALLING WATER DIVERTERS IN HORIZONTAL ABOVE, AFTER LITE BELOW IS IN POSITION.
- 7) WATER DIVERTERS (FG1000-FP-4&5) 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.



# SERIES 3000XT INSTALLATION MANUAL

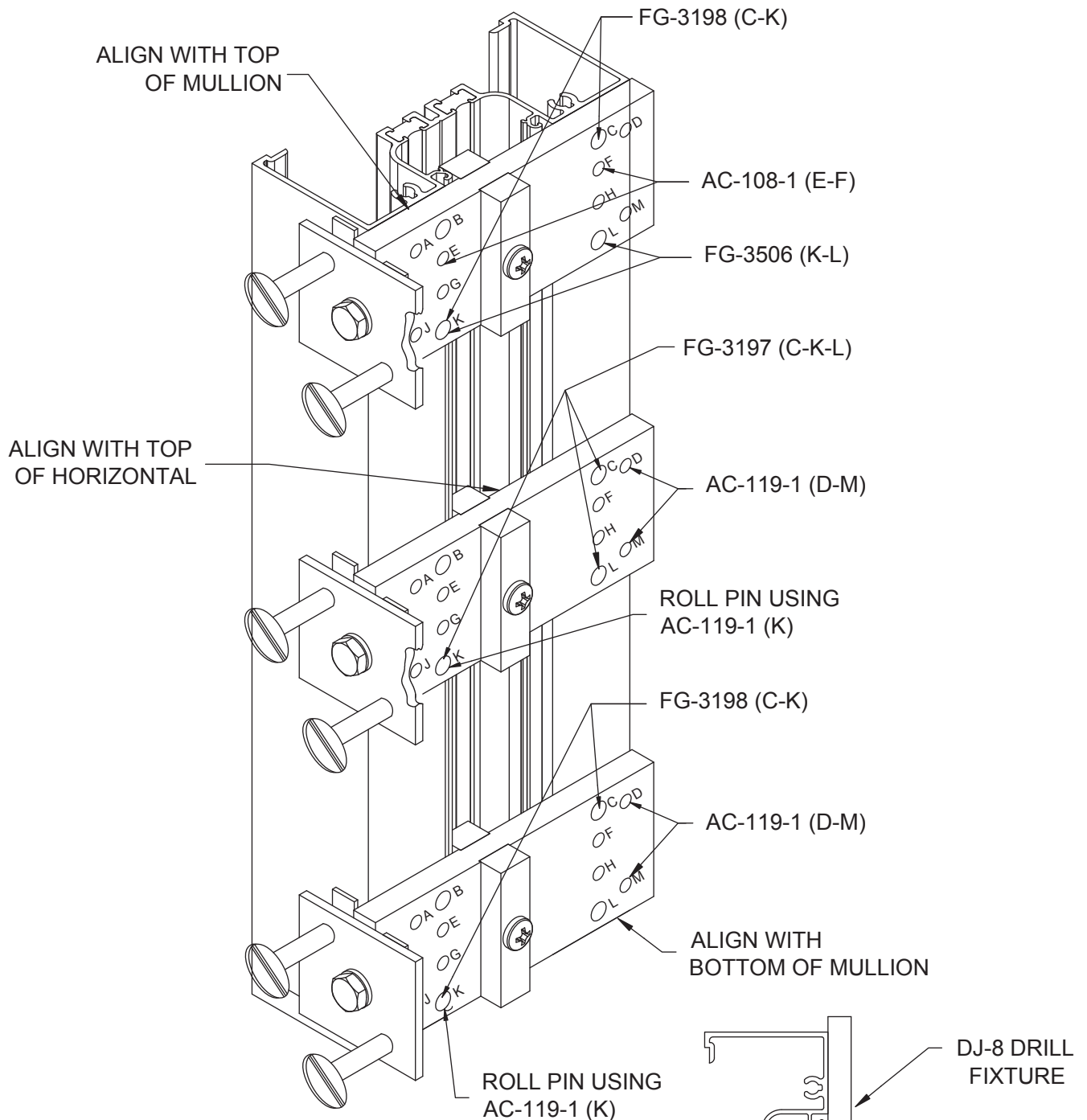
## INSIDE GLAZED GLAZING DETAIL





# SERIES 3000XT INSTALLATION MANUAL

## OUTSIDE GLAZED FABRICATION USING DRILL FIXTURE



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

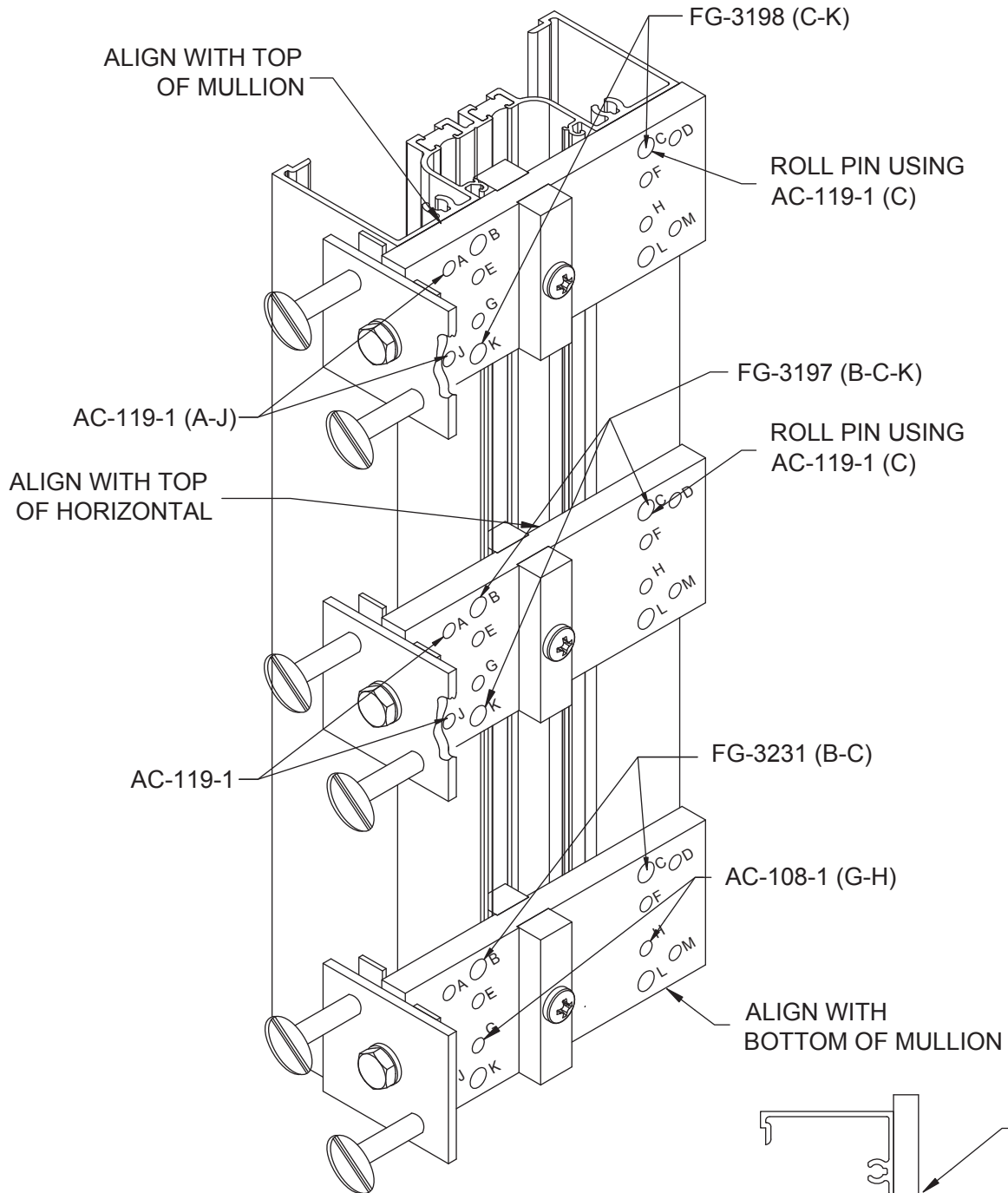
### NOTES:

- 1) DRILL HOLES FOR SCREWSPLINES USING A "F" (.257 Ø) DRILL
- 2) DRILL HOLES FOR ROLL PINS USING A "F" (.257 Ø) DRILL
- 3) DRILL HOLES FOR SHEAR BLOCKS USING #11 (.191Ø) DRILL



# SERIES 3000XT INSTALLATION MANUAL

## INSIDE GLAZED FABRICATION USING DRILL FIXTURE

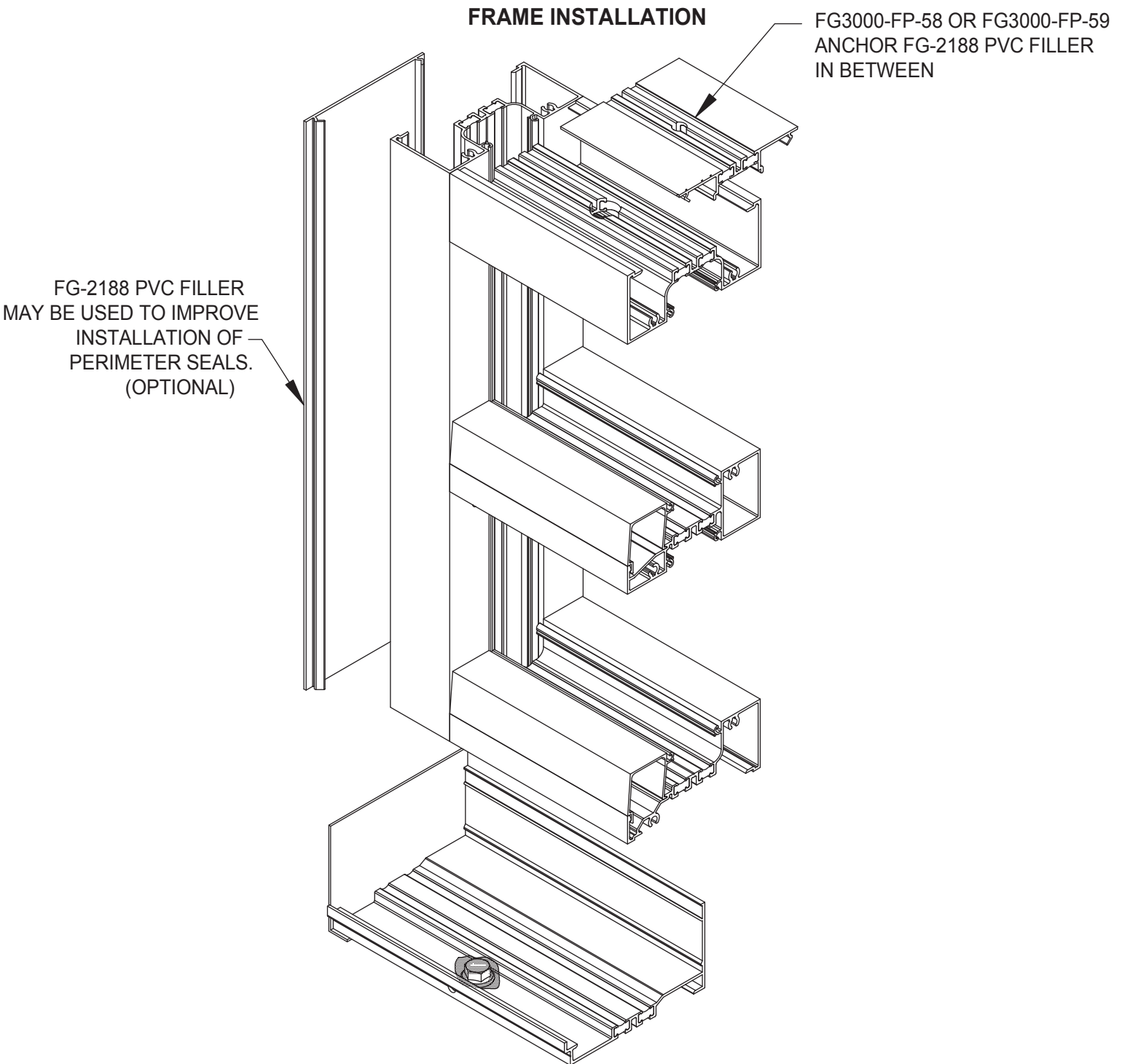


REFERENCE FRONT SET ASSEMBLY DRAWINGS FOR ADDITIONAL INFORMATION, SEALANT APPLICATION AND EXTRUSIONS.

### NOTES:

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# SERIES 3000XT INSTALLATION MANUAL

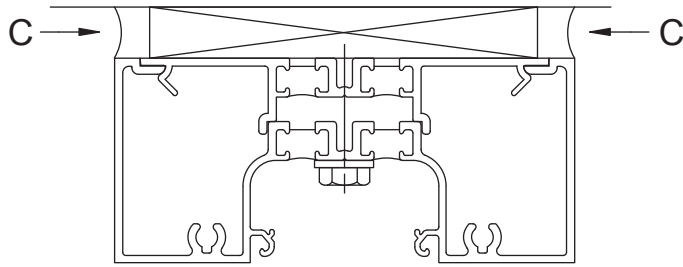


NOTES:

- 1) WHEN USING OPTIONAL FG-3511 SILL RECEPTOR, SILL ANCHORS ARE NOT REQUIRED.
- 2) MAXIMUM END REACTION AT MULLION WHEN USING FG-3511 SILL RECEPTOR IS 600 LBS.
- 3) 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.

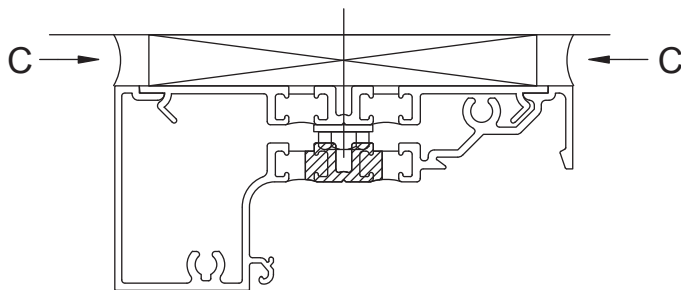
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## ANCHOR AND PERIMETER SEAL

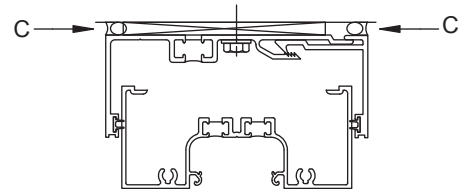


FG-3506 HEAD WITH FG3000-FP-58 ANCHOR

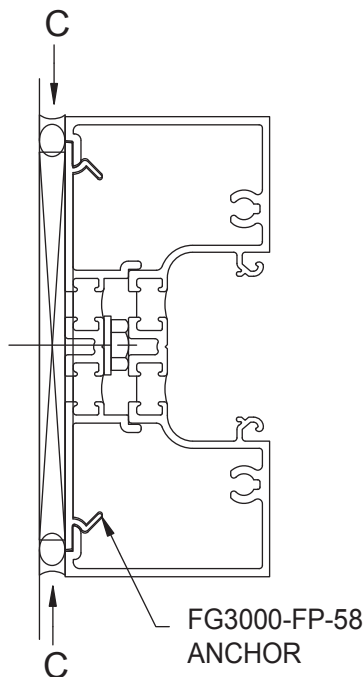
FG3000-FP-58 AND FG3000-FP-59  
ANCHORS ARE DESIGNED TO  
CARRY A MAXIMUM END  
REACTION OF 600LBS.



FG-3510 HEAD WITH FG3000-FP-59 ANCHOR



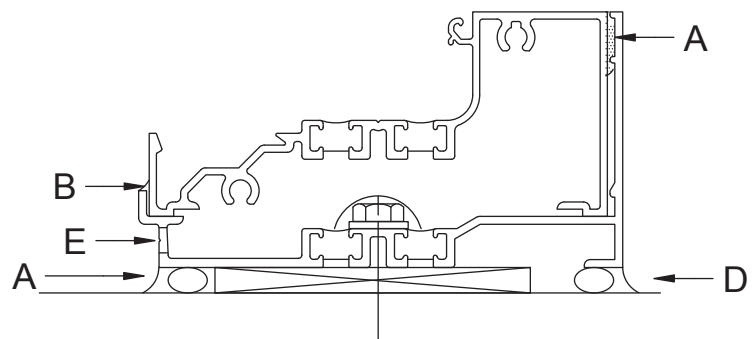
OPTIONAL MO-678/MO-244  
HEAD RECEPTOR  
MAXIMUM END REACTION  
OF 450 LBS.



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

APPLY FILLET SEAL BETWEEN SILL FLASHING AND FRONT OF SILL (B).

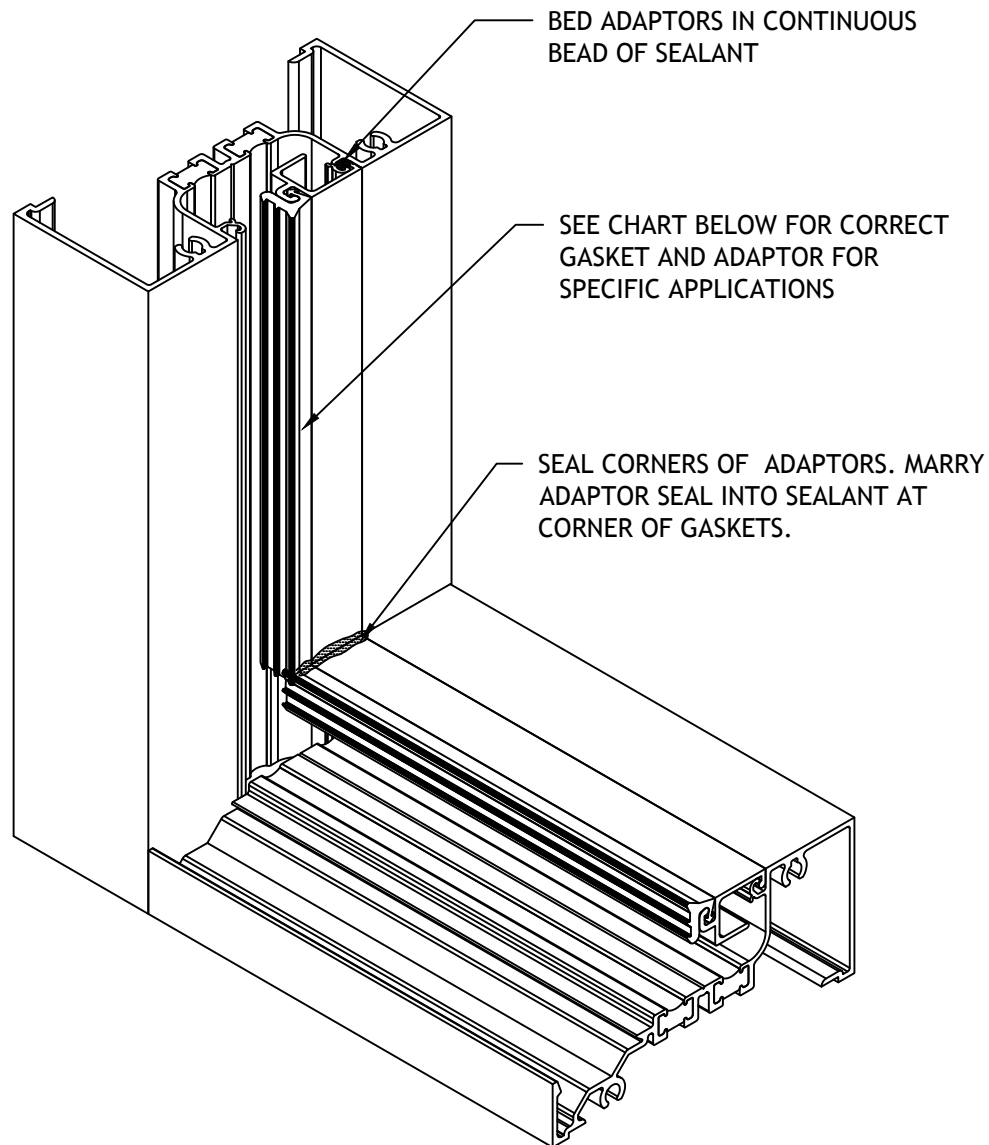
THE QUALITY OF THE INSIDE AND OUTSIDE PERIMETER SEALS (C) MAY  
BE IMPROVED BY USING FG-2188 RIGID PVC FILLER. THE PART MAY BE  
USED IN FULL LENGTHS OR CUT INTO PIECES. ITS PURPOSE IS TO  
PROVIDE SUPPORT FOR THE BACKER ROD REGARDLESS OF JOINT SIZE.  
INTERIOR PERIMETER SEAL AT SILL (D) IS OPTIONAL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



NOTE: 5/16" WEEP HOLES REQUIRED  
IN FLASHING (E) AT MID-LITE.

# SERIES 3000XT INSTALLATION MANUAL

## GLAZING ADAPTOR INSTALLATION



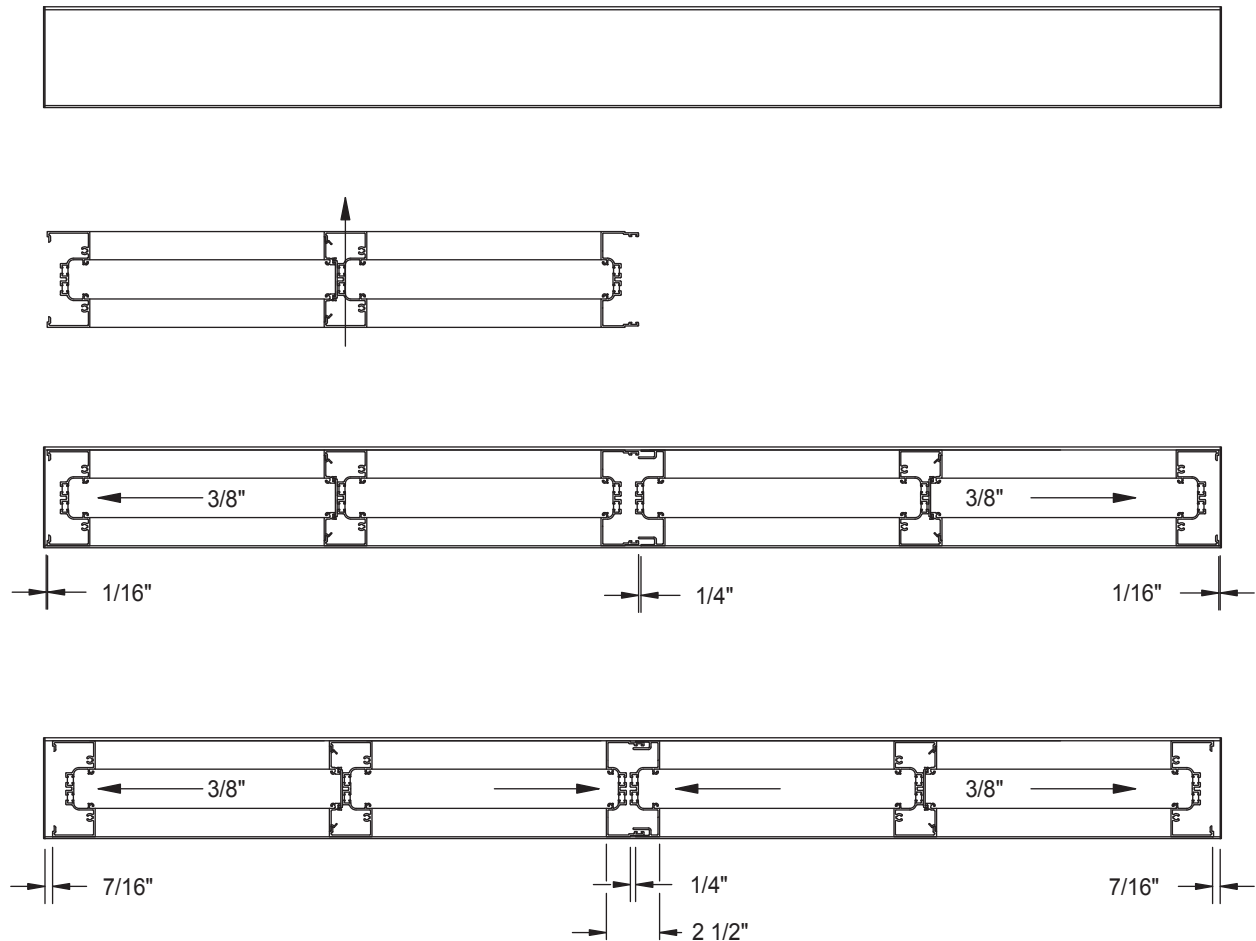
NOTE:  
ADAPTORS SHOULD BE INSTALLED ON INTERIOR  
SIDE OF ALL GLAZING OPTIONS.

| GLASS | ADAPTOR | GASKETS            | GLASS   | ADAPTOR | GASKETS            |
|-------|---------|--------------------|---------|---------|--------------------|
| 1/4"  | FG-3194 | FG-1133 Both Sides | 11/16"  | FG-3237 | FG-1133 & FG-1134  |
| 5/16" | FG-3236 | FG-5125 Both Sides | 3/4"    | FG-3237 | FG-1134 Both Sides |
| 3/8"  | FG-3236 | FG-1133 & FG-5125  | 13/16"  | N/A     | Not Available      |
| 7/16" | FG-3236 | FG-1133 Both Sides | 7/8"    | None    | FG-5125 Both Sides |
| 1/2"  | FG-3237 | FG-5125 Both Sides | 15/16"  | None    | FG-1133 & FG-5125  |
| 9/16" | FG-3237 | FG-1133 & FG-5125  | 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 | 1 1/8"  | None    | FG-1134 Both Sides |

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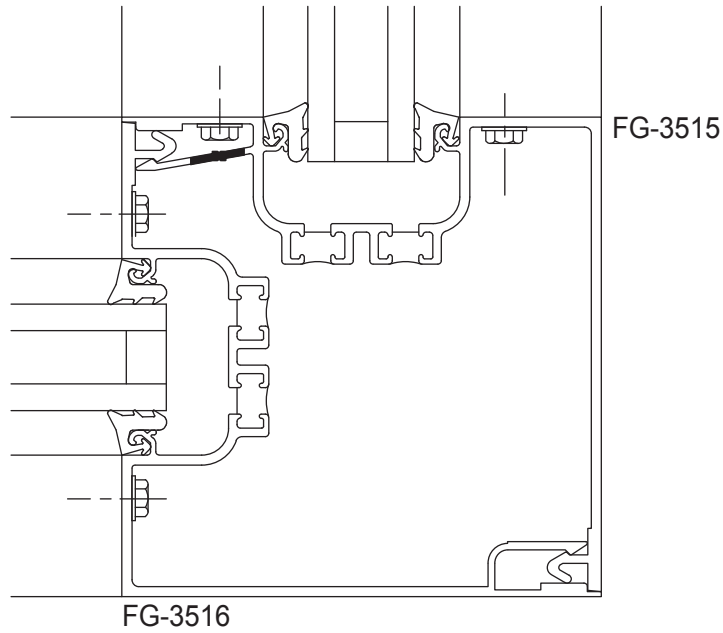
## EXPANSION MULLION INSTALLATION

MULTIPLE UNITS MAY REQUIRE THE USE OF AN EXPANSION MULLION IF THE TOTAL WIDTH OF THE OPENING EXCEEDS 24 FEET. IN THESE CASES, LOCATE EXPANSION MULLIONS NO GREATER THAN 20 FEET ON CENTER. LOCATE SPLICE IN SILL RECEPTOR NO MORE THAN 12 FEET ON CENTER. A MINIMUM OF 7/16" CLEARANCE BETWEEN THE JAMB AND THE SILL RECEPTOR END DAM MUST BE PROVIDED TO ALLOW FOR FRAME INSTALLATION WHEN USING EXPANSION MULLIONS. THIS WILL ALLOW THE MINIMUM 3/8" CLEARANCE NEEDED FOR THE NEXT FRAME ASSEMBLY TO BE ROTATED INTO POSITION AND INTERLOCKED WITH THE FRAME ASSEMBLY ALREADY INSTALLED. ONCE IN POSITION, UNITS SHOULD BE CENTERED INTO THE OPENING TO PROVIDE EQUAL CLEARANCE AT THE JAMBS. OLDCASTLE BUILDINGENVELOPE RECOMMENDS THE USE OF THE FG-2188 FILLER IN THE HEAD AND JAMBS TO IMPROVE THE PERIMETER SEAL.

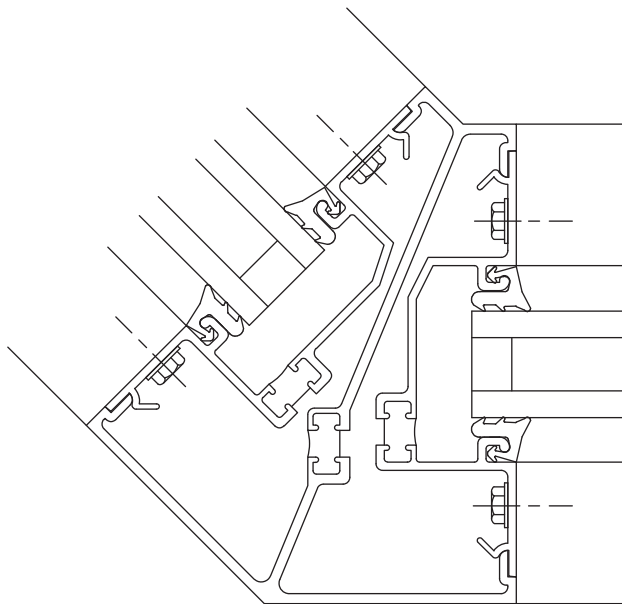


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## CORNER DETAILS



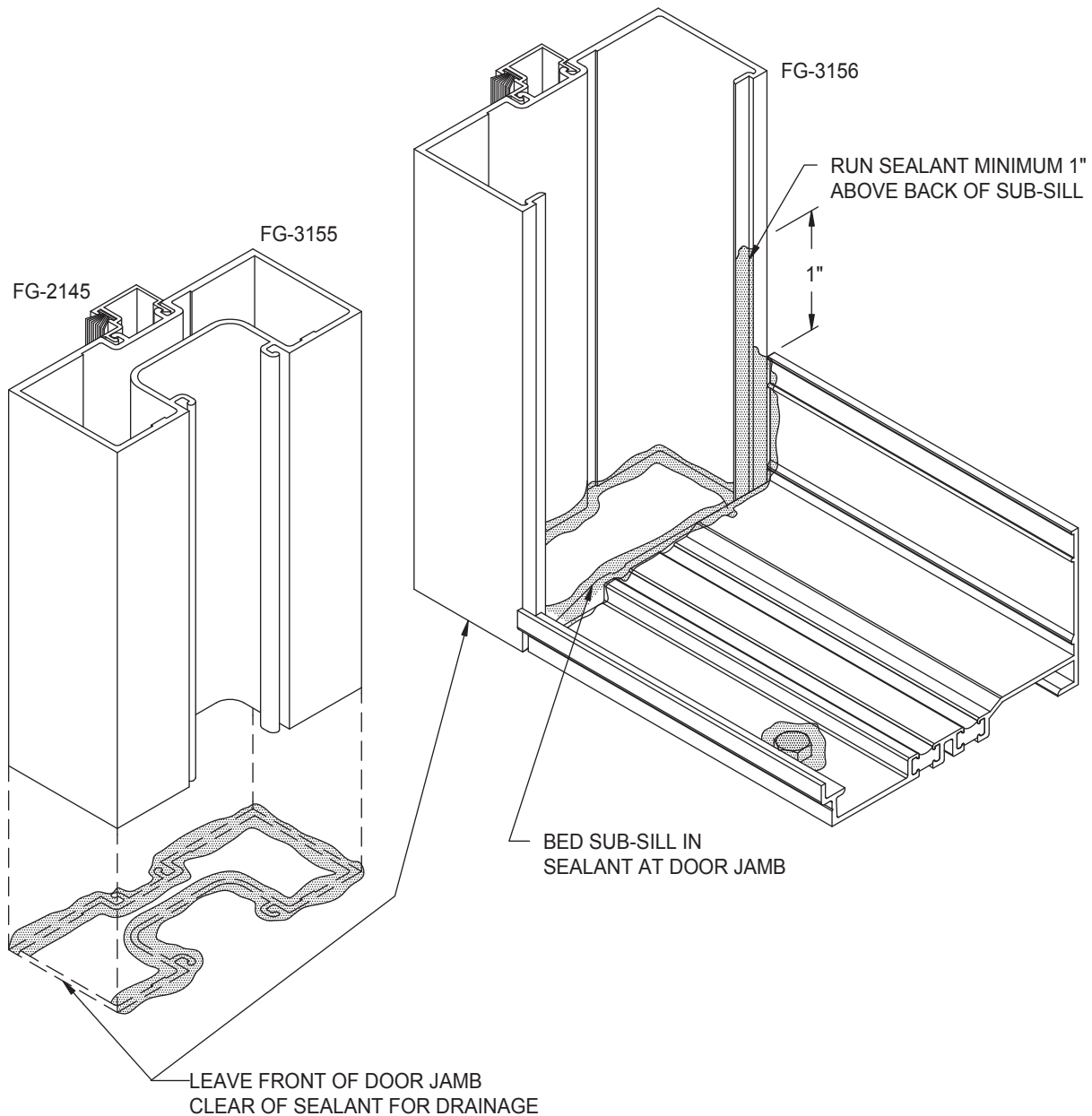
INSIDE OR OUTSIDE 90 DEGREE CORNER



INSIDE OR OUTSIDE 135 DEGREE CORNER

# SERIES 3000XT INSTALLATION MANUAL

## DOOR FRAME INSTALLATION



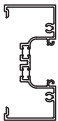


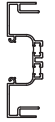

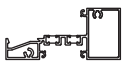
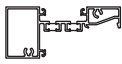
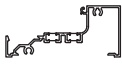


### NOTES:

- 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 MAY BE USED IN CONJUNCTION WITH OLDCASTLE BUILDING ENVELOPE 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.

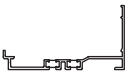
# SERIES 3000XT INSTALLATION MANUAL

## PARTS LIST



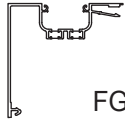
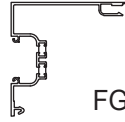
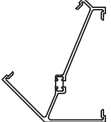






### SERIES 3000 MULTIPLANE CENTER SET

|   |  |
|---|--|
|  FG-3506   | Open Back<br>Head / Jamb / Mullion           |
|  FG-3517   | Open Back<br>Heavy Mullion                   |
|  FG-3520   | Expansion<br>Mullion<br>(mates w/ FG-3519)   |
|  FG-3519   | Expansion<br>Mullion<br>(mates w/ FG-3520)   |
|  FG-3514   | Open Back<br>Filler                          |
|  FG-3509  | Outside Glazed<br>Intermediate<br>Horizontal |
|  FG-3512 | Inside Glazed<br>Intermediate<br>Horizontal  |
|  FG-3510 | Sill   |
|  FG-3144 | Glass Stop<br>for Outside Glazing            |
|  FG-3210 | Heavy Glass Stop<br>for Inside Glazing       |

### SERIES 3000 MULTIPLANE SILL FLASHING

|   |               |
|---|---------------|
|  FG-3511 | Sill Receptor |
|---|---------------|

### SERIES 3000 MULTIPLANE AUXILIARY EXTRUSIONS








|  |  |
|--|--|
|  MO-678    | Head Receptor  |
|  MO-244     | Receptor Face  |
|  FG-3515   | Center Set<br>90° Corner                                     |
|  FG-3516   | Center Set<br>90° Corner<br>(Self-Mating 180°)               |
|  FG-3322   | Center Set 135° Corner                                       |
|  FG-3321  | Center Set 135°<br>Corner Filler<br>(2 per corner)           |
|  FG-2188 | Vinyl Filler<br>for Caulk Stop<br>12' lg.                    |
|  FG-3218 | Vinyl Pocket Filler<br>for Window<br>Applications<br>12' lg. |
|  FG-3194  | Glazing Adaptor for<br>1/4" glass                            |
|  FG-3237  | Glazing Adaptor for<br>1/2", 9/16", 5/8",<br>11/16" & 3/4"   |
|  FG-3236  | Glazing Adaptor for<br>5/16", 3/8" & 7/16"                   |






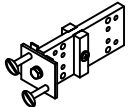
# SERIES 3000XT INSTALLATION MANUAL

## PARTS LIST








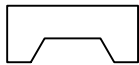

### SERIES 3000 MULTIPLANE ACCESSORIES

|   |  |
|---|--|
| <br>FG1000-FP-2    | Water Diverter                             |
| <br>FG3000-FP-57   | Splice for FG-3511                         |
| <br>FG3000-FP-46   | End Dam for FG-3511                        |
| <br>FG3000-FP-60   | Shear Block for FG-3506                    |
| <br>AC-119-1       | Shear Block for FG-3509, FG-3512 & FG-3510 |
| <br>FG3000-FP-58   | Head Anchor for FG-3506                    |
| <br>FG3000-FP-59 | Head Anchor for FG-3510                    |

### SERIES 3000 MULTIPLANE ACCESSORIES FASTENERS & DRILL JIGS

|  |  |
|--|--|
| <br>FS-8  | #14 X 1" H.H.S.T.S. Screw Spline Assembly Screw                  |
| <br>FS-9  | #14 X 1-1/2" H.H.S.T.S. Shear Block Attachment Screw             |
| <br>FS-55 | #10 x 1/2" P.R.H. Attachment of Shear Blocks at Horizontals      |
| <br>DJ-8  | Drill Fixture for Center Set Shear Block or Screwspline Assembly |

### SERIES 3000 MULTIPLANE ACCESSORIES GASKETS & SETTING BLOCKS

|   |   |
|---|---|
| <br>FG-1133    | 1" Glazing Gasket                                     |
| <br>FG-1134    | Light Gasket  |
| <br>FG-3129    | 5/8" Glazing Gasket                                   |
| <br>FG-5125    | Heavy Gasket  |
| <br>CW-998     | Gasket for Expansion Mullions                         |
| <br>V-11       | Gasket for Head Receptor                              |
| <br>FG-3220 | Setting Block for FG-3509 horizontal and FG-3510 sill |
| <br>FG-3278 | Setting Block for FG-3512ddinsert                     |
| <br>FG-3523 | Setting Block for FG-3293, FG-3294 & FG-3334          |