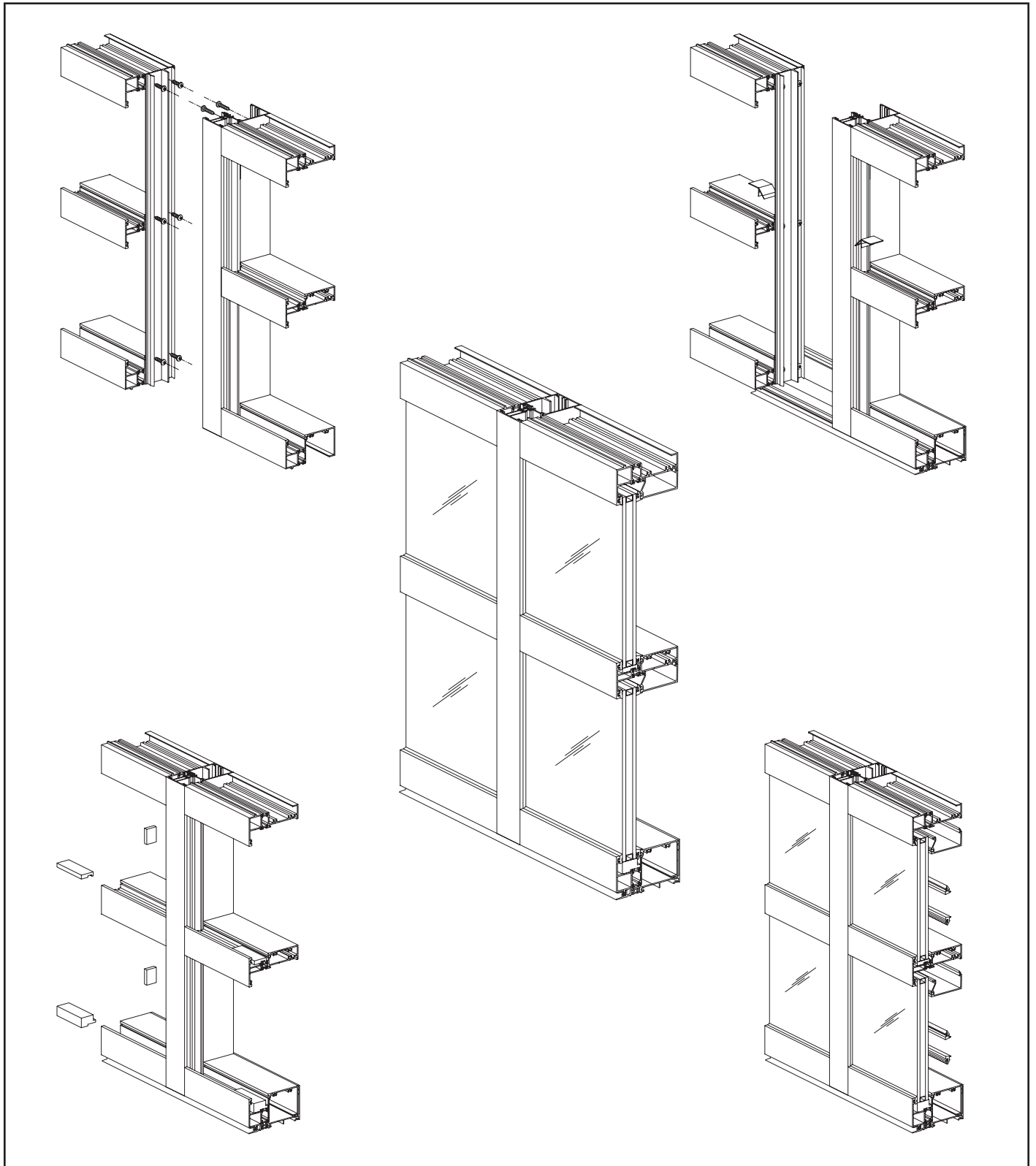


YWW 40 T / 45 T Thermal Window Wall System



Installation Manual

TABLE OF CONTENTS

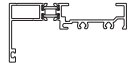
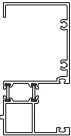
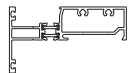
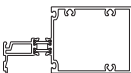

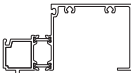
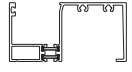



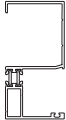
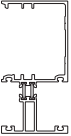
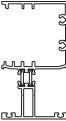


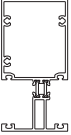
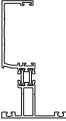

Installation Notes	Page ii
PARTS DESCRIPTION	
YWW 40 T Framing Members.....	Page 1
YWW 45 T Framing Members.....	Pages 1 to 3
YWW 45 T Door Framing Members.....	Page 4
YWW 40 T / YWW 45 T Accessories.....	Pages 5 & 6
FRAME FABRICATION	
Determine Frame Size.....	Page 7
Fabricate Sill Flashing	Page 8
Fabricate Head & Sill Members.....	Pages 9 to 12
Fabricate Two Piece Verticals & Jamb Members	Pages 13 & 14
Fabricate One Piece SSG Verticals	Page 14
Fabricate Intermediate Horizontal Members	Page 15
Fabricate Interior Glass Stops & Exterior Face Covers	Pages 15 to 17
Fabricate Glazing Adaptors	Page 18
FRAME ASSEMBLY	
Attach Mullion End Caps	Page 19
Install End Dams (Continuous Head & Sill).....	Page 19
Assemble Frames.....	Pages 20 & 21
FRAME INSTALLATION	
Install Sill Flashing.....	Page 22 to 25
Install Assembled Frames	Page 26
Apply Internal & Perimeter Sealant	Page 27
Install Water Deflectors & Horizontal Bridges	Page 28 & 29
Install SSG Corner Trim	Pages 30 & 31
Install 1/4" Glazing Adaptors	Page 32
GLAZING	
Install Glazing Gaskets.....	Page 33
Install Glass for Standard Glazing.....	Pages 34 to 36
Install Glass for Structural Silicone Glazing	Pages 37 to 41
DOOR FRAME INSTALLATION	
Install Door Frame	Page 42

Installation Notes

1. Do not drop, roll or drag boxes of aluminum framing. Move and stack boxes with proper support to prevent distortion. If fork lifts are used be especially careful about striking the boxes when lifting or moving.
2. Store in a dry, out of the way area. If rain exposure, condensation or any water contact is likely, then all packaging material should be removed. Wet packaging materials will discolor and may stain aluminum finishes and paints.
3. All materials should be checked for quantity and quality upon receipt, YKK AP must be notified immediately of any discrepancies in shipment. Check to make sure that you have the required shims, sealants, supplies and tools necessary for the installation.
4. Carefully check the openings and surrounding conditions that will receive your material. Remember, if the construction is not per the construction documents, it is your responsibility to notify the general contractor in writing. Any discrepancies must be brought to the general contractor's attention before you proceed with the installation.
5. Gather your shop drawings, materials, packing list and this installation manual. Carefully review parts location, the sequence it goes therein when you glaze it and how you seal it. Installation instructions are of a general nature and may not cover every condition you encounter. The shop drawings and/or installation manuals were prepared specifically for the product.
6. Any material substitutions must be of equal or greater quality.
7. Make certain that material samples have been sent for compatibility testing for all manufacturer's sealants involved. Make certain that sealants have been installed in strict accordance with the manufacturer's recommendations and specifications.
8. Remember to isolate, in an approved manner, all aluminum from uncured masonry or other incompatible materials.
9. System-to-structure fasteners are not supplied by YKK AP. Fasteners called out on shop drawings are to indicate minimum sizes for design loading.
10. Entrances are to be installed plumb, square, level and true.
11. If any questions arise concerning YKK AP products or their installation, contact YKK AP for clarification before proceeding.
12. YKK AP store front and/or curtain wall framing is typically completed before drywall, flooring and other products that may still be in process. Take the extra time to wrap and protect the work produced.
13. Cutting tolerances are plus zero, minus one thirty second unless otherwise noted.
14. Check our website, www.ykkap.com, for the latest installation manual update prior to commencing work.

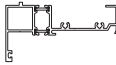
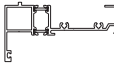
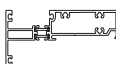
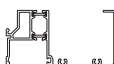
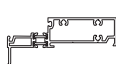
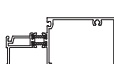

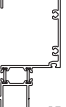

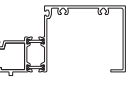






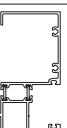

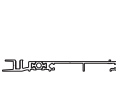

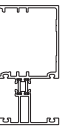



YWW 40 T INSIDE GLAZED

YWW 45 T OUTSIDE GLAZED

 <p>Head 2" x 4"</p>	<p>BE9-2202</p>	 <p>Head/Jamb 2-1/4" x 4-1/2"</p>	<p>BE9-1704</p>
 <p>Horizontal 2-1/4" x 4"</p>	<p>BE9-2206</p>	 <p>Horizontal 2-1/4" x 4-1/2"</p>	<p>BE9-1716</p>
 <p>Interior Glass Stop Use with BE9-2202 & BE9-2206</p>	<p>E9-2204</p>	 <p>Sill 2-1/4" x 4-1/2"</p>	<p>BE9-1714</p>
 <p>Sill/Jamb 2" x 4"</p>	<p>BE9-2201</p>	 <p>Horizontal Exterior Face Cover Use with BE9-1716 & BE9-1714</p>	<p>E9-1715</p>
 <p>Sill Flashing</p>	<p>BE9-2218</p>	 <p>Sill Flashing</p>	<p>BE9-1788</p>
 <p>Jamb 2" x 4"</p>	<p>BE9-2203</p>	 <p>Mullion 2-1/4" x 4-1/2" For Screw Spline Assembly</p>	<p>BE9-1701</p>
 <p>Mullion 2-1/4" x 4"</p>	<p>BE9-2207</p>	 <p>Mullion Flush Filler Use with BE9-1701</p>	<p>E9-1702</p>
 <p>Mullion Flush Filler Use with BE9-2207</p>	<p>E9-2208</p>	 <p>Mullion 2-1/4" x 4-1/2" For Shear Block Assembly</p>	<p>BE9-1722</p>
 <p>Expansion Mullion (Female) Use with E9-2210</p>	<p>BE9-2209</p>		
 <p>Expansion Mullion (Male) Use with BE9-2209</p>	<p>E9-2210</p>		














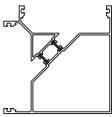
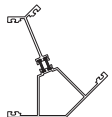

YWW 45 T INSIDE GLAZED

YWW 45 T S.S.G.

	Head 2-1/4" x 4-1/2"	BE9-1703		Head 2-1/4" x 4-1/2"	BE9-1703
	Horizontal 2-1/4" x 4-1/2"	BE9-1706		Head 2-1/4" x 4-1/2" For Spliced Runs Longer Than 24'-0"	BE9-1740
	Horizontal 2-1/4" x 4-1/2" (Outside Glazed Option)	BE9-1750		Horizontal 2-1/4" x 4-1/2"	BE9-1726
	Horizontal Exterior Face Cover Use with BE9-1750	E9-1730		Sill/Jamb 2-1/4" x 4-1/2"	BE9-1704
	Interior Glass Stop For 1" Glazing Use with BE9-1703 & BE9-1706	E9-1705		Sill 2-1/4" x 4-1/2" For Spliced Runs Longer Than 24'-0"	BE9-1714
	Interior Glass Stop For 1/4" Glazing Use with BE9-1703 & BE9-1706	E9-1713		Horizontal Exterior Face Cover Use with BE9-1740 & BE9-1726	E9-1730
	Horizontal 2-1/4" x 3"	BE9-1733		Interior Glass Stop For 1" Glazing Use with BE9-1703 & BE9-1750	E9-1705
	Interior Glass Stop For 1" Glazing Use with BE9-1733	E9-1734		Interior Glass Stop For 1/4" Glazing Use with BE9-1703 & BE9-1750	E9-1713
	Sill/Jamb 2-1/4" x 4-1/2"	BE9-1704		Sill Flashing	BE9-1788
	Sill Flashing	BE9-1788		Mullion For Structural Silicone Glazing	E9-2715
	Mullion 2-1/4" x 4-1/2" For Screw Spline Assembly	BE9-1701		Expansion Mullion (Female) For S.S.G. Use with E9-1736	E9-1735
	Mullion Flush Filler Use with BE9-2207	E9-1702		Expansion Mullion (Male) For S.S.G. Use with E9-1735	E9-1736


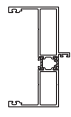
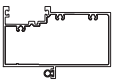
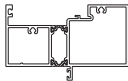
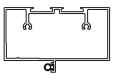



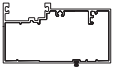

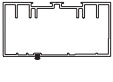

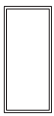







YWW 45 T S.S.G.

YWW 45 T S.S.G.

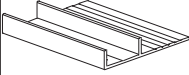
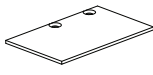






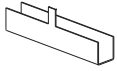
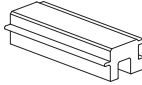
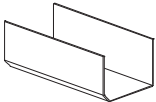
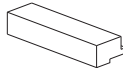



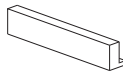
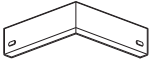

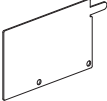
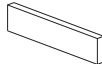
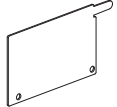



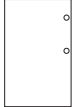

	90° Corner Mullion For Structural Silicone Glazing	E9-2718		Pocket Filler Glazing Adaptor For 1/4" Glazing	E9-1725
	90° Outside Corner Trim Base For 1" Glazing	E9-2550		Hinged Mullion (Female) 3° to 20° Use with BE9-1728 & BE9-1729	BE9-1727
	90° Outside Corner Trim Cover	E9-3439		Outside Hinged Mullion (Male) 3° to 20° Use with BE9-1727	BE9-1728
	Glazing Adaptor For 1/4" Glazing Use with E9-2715	E9-2716		Inside Hinged Mullion (Male) 3° to 15° Use with BE9-1727	BE9-1729
	Deep Pocket Glazing Adaptor For 1/4" Glazing	E9-1707			
	Shallow Pocket Glazing Adaptor For 1/4" Glazing	E9-1708			
	Glazing Pocket Flush Filler For 1" Glazing	BE9-7856			
	Expansion Mullion (Female) Use with BE9-1744	BE9-1743			
	Expansion Mullion (Male) Use with BE9-1743	BE9-1744			
	90° Corner Mullion Use with (2) BE9-1709	BE9-1710			
	135° Corner Mullion Use with (2) BE9-1709	BE9-1737			
	Glazing Pocket Filler For 1" Glazing	BE9-1709			

YWW 45 T DOOR FRAMING












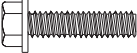











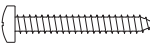


YWW 45 T THERMAL DOOR FRAMING

	Single Acting Door Jamb Elastomer Weathering E2-0051 Included	AS-1717		Single Acting Door Jamb For 25T/35T/50T Doors Elastomer Weathering E2-0051 Not Included	BE9-2831
	Single Acting Transom Head Elastomer Weathering E2-0051 Included	AS-1718		Single Acting Transom Bar For 25T/35T/50T Doors, E2-0051 Not Included Use with E9-2835	BE9-2832
	Single Acting Transom Head Elastomer Weathering E2-0051 Included	AS-1565		Jamb Filler	BE9-1709
	Double Acting Door Jamb	E9-1719		Glazing Pocket Flush Filler For 1" Glazing	BE9-7856
	Double Acting Transom Head Pile Weathering E2-0062 Included	AS-1720		Transom Glazing Pocket For 1" Glazing Use with E9-2834	BE9-2833
	Double Acting Transom Head Pile Weathering E2-0062 Included	AS-1566		Transom Glass Stop For 1" Glazing Use with BE9-2833	E9-2834
	Intermediate Door Jamb (2" x 4-1/2" Tube) Use with AS-0409	E9-9312		Glass Stop For 1" Glazing Use with BE9-2832	E9-2835
	Glazing Pocket Filler For 1" Glazing	BE9-1709		Threshold 1/2" x 4-1/2" For 25T/35T/50T Doors	BE9-0465
	Transom Glazing Pocket Filler For 1" Glazing	E9-1721			
	Door Stop O/P Assembly Elastomer Weathering E2-0051 Included	AS-0409			
	Door Stop Base Used with AS-0409	E9-1113			
	Threshold 1/2" x 4"	E9-0407			

YWW 40T / 45 T ACCESSORIES

	"F" Anchor For Head & Jamb	E1-1026		Mullion End Cap For S.S.G. Vertical	E1-1047
	Shear Clip For BE9-1706 & BE9-1750 Horizontal Use (4) PC-1210 Not Included	E1-1040		Mullion End Cap For Standard Vertical	E3-0034
	Shear Block For BE9-1726 Horizontal Use (2) PC-1228 & (2) FC-1212 Not Included	E1-1037		End Dam For Frame Ends Where Head & Sill Run Through (Large Cavity)	E2-0193
	Joint Sleeve For S.S.G. Head & Sill BE9-1704 (Exterior Side)	E1-1027		End Dam For Frame Ends Where Head & Sill Run Through (Small Cavity)	E2-0194
	Joint Sleeve For S.S.G. Head & Sill BE9-1740 (Exterior Side)	E1-1028		Setting Block At Sill For YWW 40 T 1" Glazing	E2-0228
	Joint Sleeve For S.S.G. Head & Sill BE9-1704 & BE9-1740 (Interior Side)	E1-1029		Setting Block At Sill For YWW 45 T 1" Glazing	E2-0182
	Water Deflector For Horizontals at Standard Vertical	E2-0047		Setting Block At Intermediate Horizontal For YWW 40T & 45 T, 1" GL.	E2-0184
	Horizontal Bridge For Horizontals at S.S.G. Vertical	E1-1038		Setting Block At Sill For YWW 45 T 1/4" Glazing	E2-0190
	Horizontal Bridge For Horizontals at 90° S.S.G. Corner Mullion	E1-1039		Setting Block At Intermediate Horizontal For YWW 45 T, 1/4" Glazing	E2-0192
	End Dam For BE9-1788 Sill Flashing (YWW 45 T)	E1-0140		Side Block For YWW 40T & 45 T	E2-0186
	End Dam For BE9-2218 Sill Flashing (YWW 40 T)	E1-0143		Wedge Glazing Gasket For YWW 40 T	E2-0160
	Silicone Splice Sheet For BE9-1788 & BE9-2218 Sill Flashing	E2-0070		Dart Glazing Gasket For YWW 40 T	E2-0172
	Mullion End Cap For Expansion Vertical	E1-0176		Wedge Glazing Gasket For YWW 45 T	E2-0808

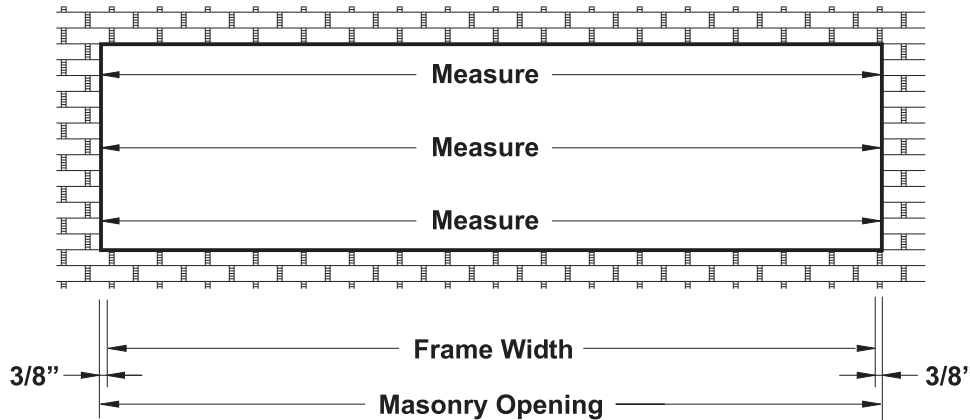
YWW 40T / 45 T ACCESSORIES

	Exterior Glazing Gasket For YWW 45 T	E2-0801		#10 x 3/8" FHSMS Type "AB", Zinc Plated Steel For Attachment of Standard Mullion End Cap	FC-1006
	Exterior Glazing Gasket For YWW 45 T S.S.G.	E2-0542		#10 x 3/8" PHSMS Type "AB", Zinc Plated Steel For Attachment of E1-1038 S.S.G. Horizontal Bridge	PC-1006
	Interior Glazing Gasket For YWW 45 T S.S.G.	E2-0541		#10 x 5/8" PHSMS Type "AB", Zinc Plated Steel For Attachment of E9-2716 S.S.G. Glazing Adaptor	PC-1010
	Glazing Spacer For YWW 45 T S.S.G. 1" Glazing	E2-0544		#10-24 x 3/8" PHMS, Stainless Steel, For Attach. of YWW 45 T Sill Member to Sill Flashing BE9-1788	PM-1006-SS
	Glazing Spacer For YWW 45 T S.S.G. 1/4" Glazing	E2-0543		#10 x 7/8" PHMS, Stainless Steel, For Attach. of Sill Member BE9-2201 to Sill Flashing BE9-2218	PM-1014-SS
	Weathering Gasket For Expansion Mullions BE9-2209 & BE9-1743	E2-0065		#1/4"-20 x 1" HWHMS Zinc Plated Steel For Attachment Corner Temp Glass Retainer	HM-2516
	Anti-walk Block For Deep Pocket	E2-0153		#12 x 1/2" FHSMS Type "AB", Zinc Plated Steel For Attachment of SSG & Exp. Mullion End Cap	FC-1208
	Temporary Glass Retainer For 1" S.S.G. Glazing	E3-0001		#12 x 3/4" FHSMS Type "AB", Zinc Plated Steel For Attachment of Horizontal to Shear Block, E1-1037	FC-1212
	Temporary Glass Retainer For 1/4" S.S.G. Glazing	E3-0006		#12 x 5/8" PHSMS Type "AB" For Attachment of Shear Block, E1-1040, to Vertical & Horizontal	PC-1210
	Temporary Glass Retainer For 90° Outside SSG Corner	E1-3588		#12 x 1" PHSMS Type "AB" Zinc Plated Steel, For Attachment of Head, Horiz. & Sill to Two-Piece Verticals	PC-1216
	Steel Bar Reinforcing 1/4" x 2-1/4" For BE9-1701 (Standard)	E1-0151		#12 x 1-1/4" PHSMS Type "AB", Zinc Plated Steel For Attachment of Head, Horizontal & Sill to Jamb	PC-1220
	Steel Bar Reinforcing 3/16" x 2-1/4" For BE9-2718 (S.S.G.)	E1-0169		#12 x 1-3/4" PHSMS Type "AB", Zinc Plated Steel For Attachment of Shear Block, E1-1037 to Vertical	PC-1228
	#8 x 1/2" FHSMS Type "AB", Zinc Plated Steel For Hinged Mullions	FC-0808		#12 x 3/4" UFHSMS Type A , Zinc Plated Steel For End Dam Attachment	UA-1212

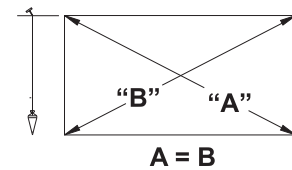
FRAME FABRICATION

STEP 1 DETERMINE FRAME SIZE

Determine Frame Width:



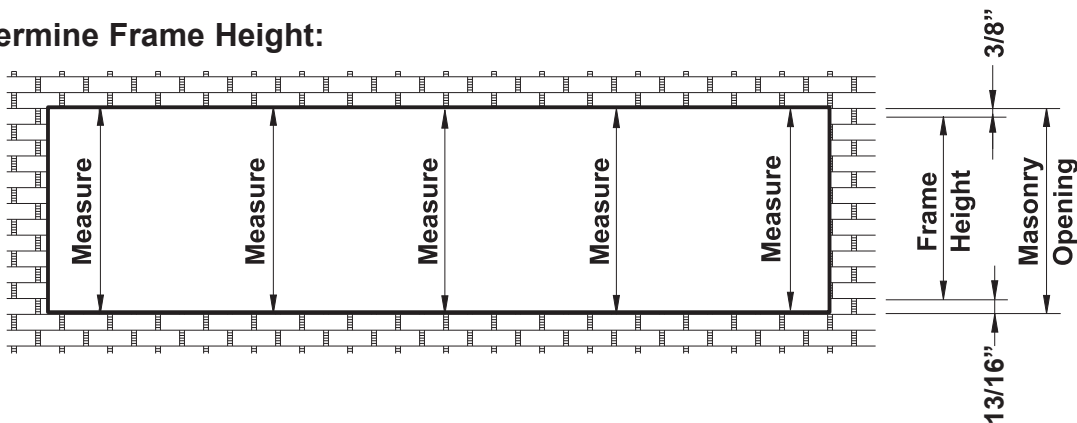
Note: Check the opening for squareness and plumb at both ends. Units must be installed in a true rectangle.



Detail 1

- Measure the width of the masonry opening at the top, middle, and bottom.
 - Select the smallest dimension measured and subtract $3/4$ " to determine the frame width.
- See **Detail 1**.

Determine Frame Height:



Detail 2

- Measure the height of the masonry opening in several places along the entire length of the opening.
- Select the smallest dimension measured and subtract $1-3/16$ " to determine the frame height to be used:
 - $3/8$ " for the shim/caulk joint at the head.
 - $7/16$ " for the sill flashing.
 - $3/8$ " for the shim/caulk joint below the sill flashing.

See **Detail 2**.

NOTE: Vertical through frame widths over 24'-0" require expansion mullions every 12 to 15 feet (best location at vertical next to door jamb.)

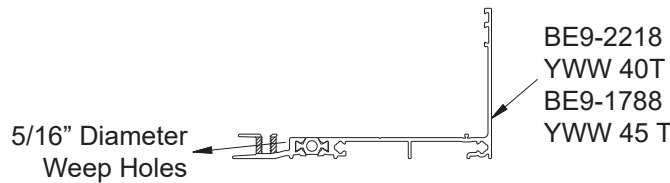
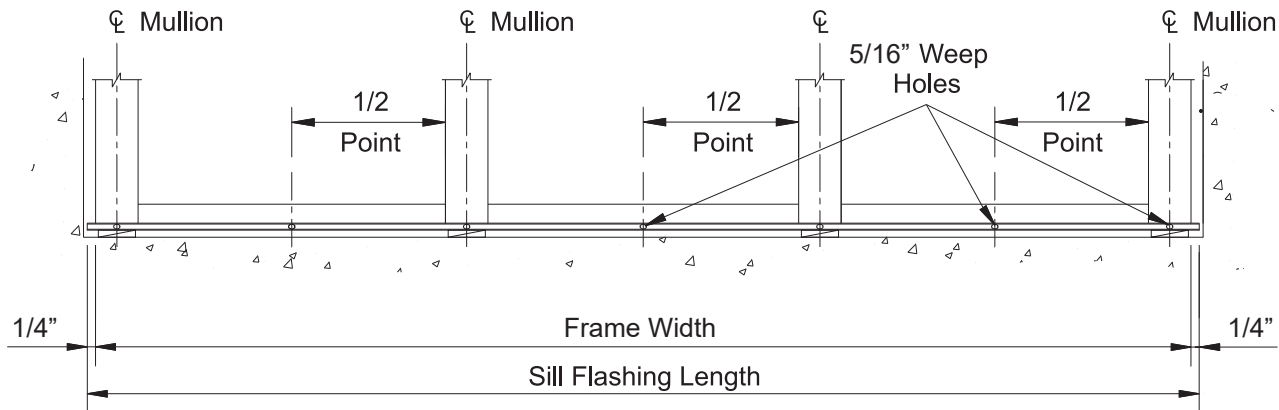
FRAME FABRICATION

STEP 2 FABRICATE SILL FLASHING

YWW 45 T / 40 T requires the use of extruded sill flashing for mullion through frames:

- Use sill flashing BE9-1788 for YWW 45 T.
- Use sill flashing BE9-2218 for YWW 40 T.

- Cut the sill flashing, BE9-1788 (YWW 45 T) or BE9-2218 (YWW 40T), to the frame width determined in **Step 1**: Frame Width plus(+) 1/4" at each jamb.
- For openings longer than 24'-0" the sill flashing needs to be spliced every twelve to fifteen feet.
- Allow for a 3/8" splice joint between sill flashing members.
- Mark the centerline of each vertical mullion on the sill flashing.



Detail 3

-Drill a 5/16" diameter weep hole in the face of the sill flashing at the centerline of each vertical mullion and at the midpoints between vertical mullions. Do not elongate the weep holes. See **Detail 3**.

NOTE: Sill flashing is not required when head and sill members run continuous.

FRAME FABRICATION

STEP 3 FABRICATE HEAD & SILL MEMBERS

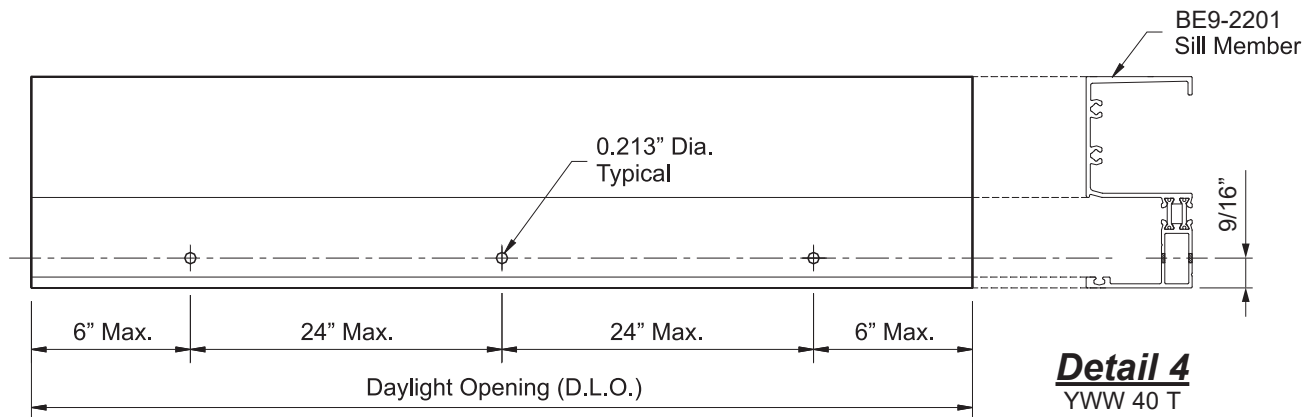
FOR MULLION THROUGH FRAMES

-Cut all head and sill members to the daylight opening between mullions.

For YWW 40 T:

Sill member, BE9-2201, requires additional fabrication for anchoring to the sill flashing:

- Measure in 6" from each end of the sill member and mark hole locations at 9/16" from the face of the sill as shown in **Detail 4**.
- Mark additional hole locations a maximum of 24" on center (O.C.).
- Drill a 0.213" diameter (#3 drill bit) hole at each location marked.



FRAME FABRICATION

STEP 3 FABRICATE HEAD & SILL MEMBERS

FOR MULLION THROUGH FRAMES (Continued)

For YWW 45 T:

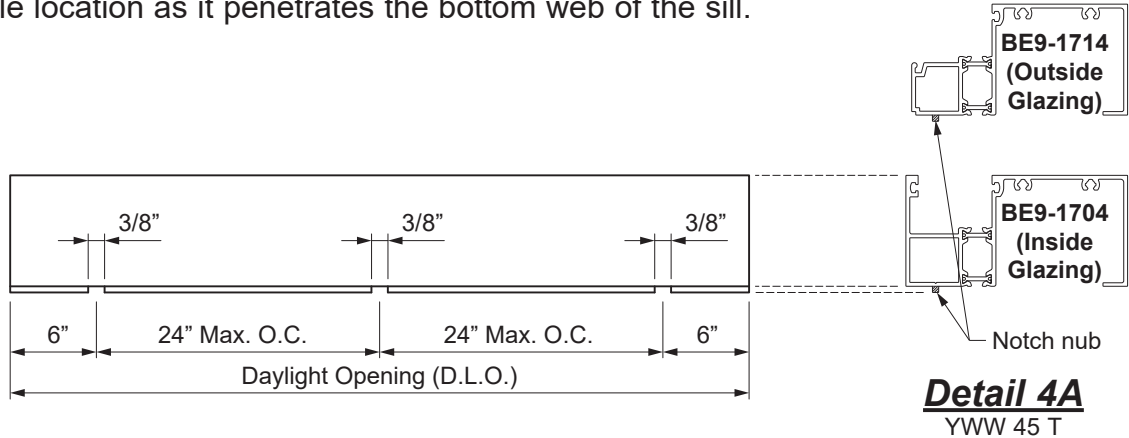
Sill members, BE9-1704 and BE9-1714, require additional fabrication for anchoring to the sill flashing:

- Measure in 6" from each end of the sill member and mark hole locations as show in **Detail 4A & 4B**.

- Mark additional hole locations a maximum of 24" on center (O.C.).

Note: It is recommended to notch the bottom nub from the sill at the clear hole locations. This will prevent the drill bit from veering to either side of the proper hole location as it penetrates the bottom web of the sill.

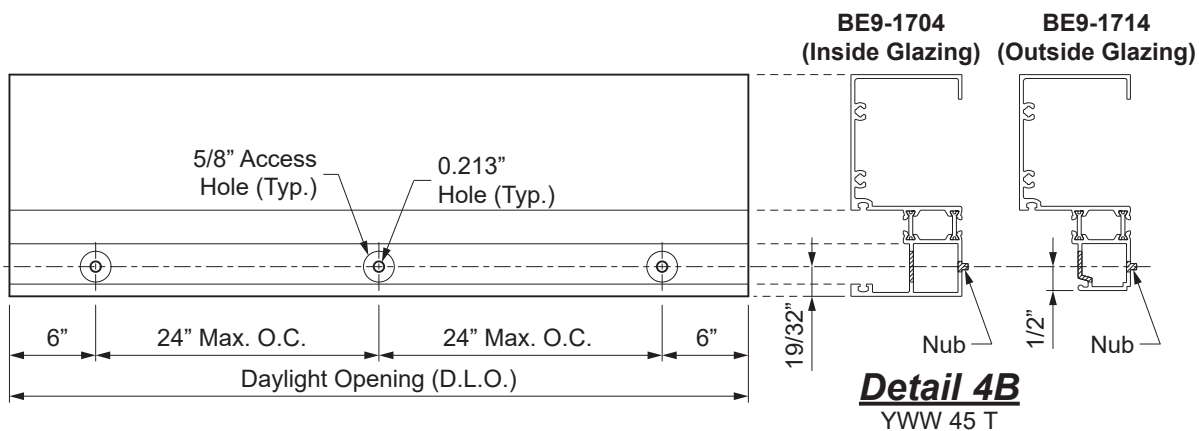
See **Detail 4A**.



- Drill a 0.213" diameter (#3 drill bit) hole at each location marked. Ensure the hole is centered on the nub at the bottom of the sill.

- Drill a 5/8" access hole in the upper portion of the glazing pocket, centered on the clear hole below.

See **Detail 4B**.



FRAME FABRICATION

FOR CONTINUOUS HEAD & SILL FRAMES (YWW 45 T SSG Only)

With the YWW 45 T Structural Silicone Glazed (SSG) option, head and sill members may run continuously across the frame.

For Frames 24'-0" or shorter:

-Cut the head and sill members, BE9-1704, to the frame width determined in **Step 1**.

For Frames Longer Than 24'-0":

-Head member BE9-1740 and sill member BE9-1714 must be used instead of BE9-1704.

-Determine the location of the expansion mullions from the shop drawings (typically ten to fifteen feet on center).

-Cut the head and sill members to the dimension between the jamb and expansion mullions at end members and between the expansion mullions for intermediate members.

FRAME FABRICATION

STEP 3 (Continued)

FABRICATE HEAD & SILL MEMBERS

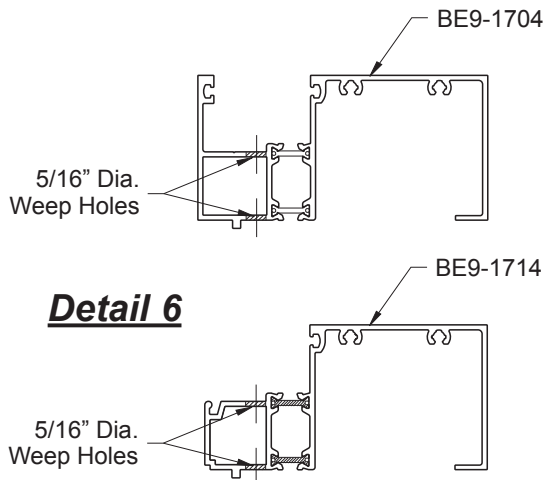
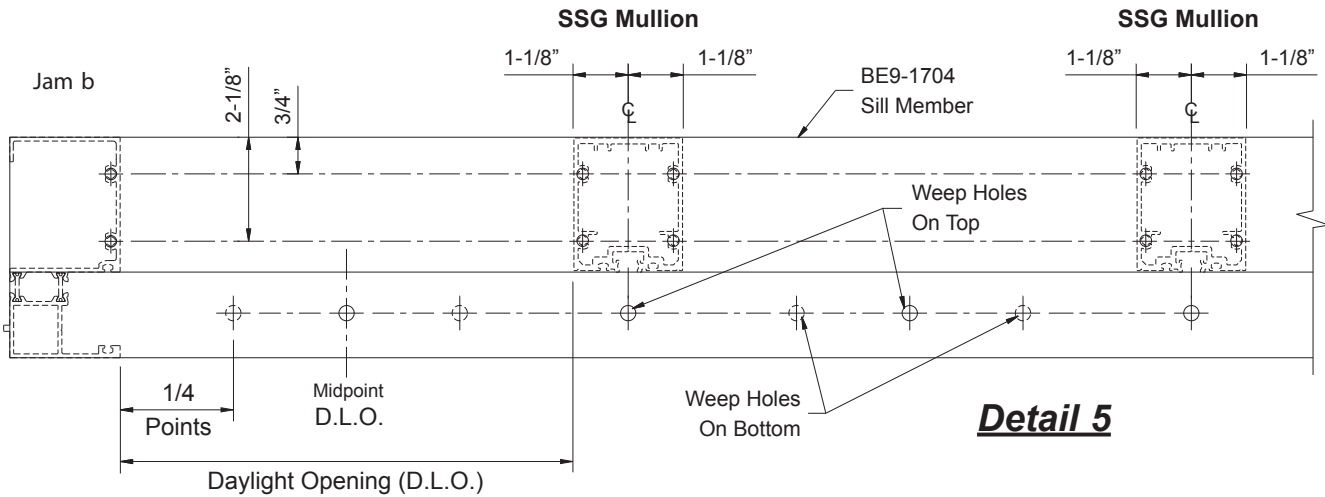
FOR CONTINUOUS HEAD & SILL FRAMES (YWW 45 T SSG Only)

-Mark the centerline of each SSG mullion along the head and sill members.
 -Mark hole locations on the head and sill for screw spline attachment of mullions using one of the methods below:

-Using short pieces of mullions as a template, align the template with the mullion centerline and the front of the head/sill and mark hole locations through the screw splines.
OR

-Layout hole locations on head and sill members as shown in **Detail 5**.

-Drill 0.236" diameter (#B drill bit) clearance holes at each location marked.



Continuous sill members must have weep holes drilled for each lite of glass.

- Mark the centerline of each intermediate mullion and the midpoint of D.L.O. between mullions in the glazing pocket of the sill.
- Turn the sill member over and mark the quarter points of D.L.O. between mullions on the bottom.
- Drill a 5/16" dia. hole at each hole location marked just in front of the thermal break.

See **Detail 6**.

FRAME FABRICATION

STEP 4

FABRICATE TWO PIECE MULLIONS & JAMB MEMBERS

-Cut two piece mullions, fillers, and jamb members to the frame height determined in **Step 1 on Page 6**.

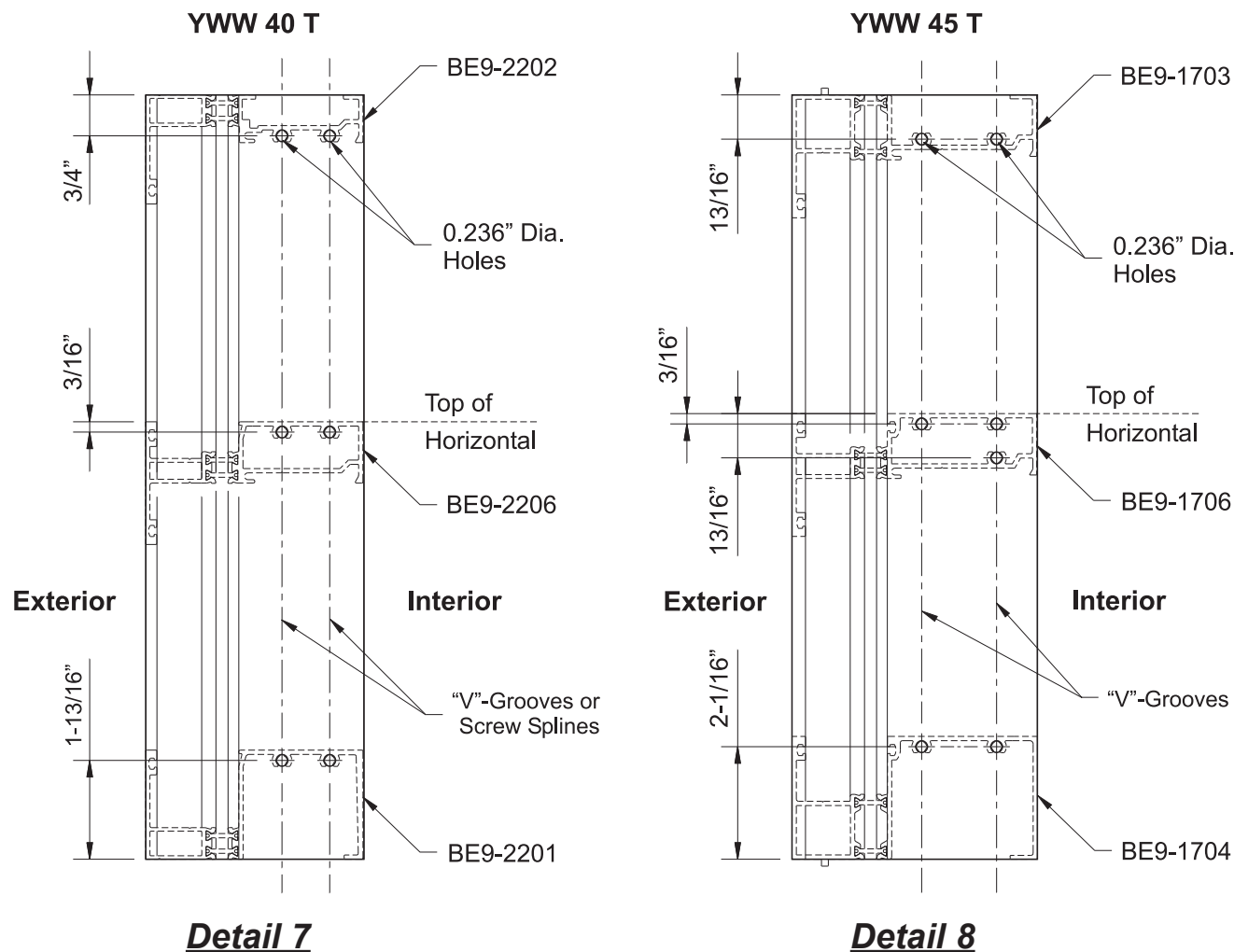
Fabrication of Mullions for Inside Glazed Frames:

- Use a short piece of each horizontal member as a template.
- Center the template on the face of the mullion.
- Line up the glazing pockets and mark the location of each screw spline.

-OR-

-Layout the hole locations along the “V”-grooves of each member as shown in **Detail 7** for YWW 40 T or **Detail 8** for YWW 45 T.

-Drill a 0.236” (#B bit) diameter hole at each location marked.



FRAME FABRICATION

STEP 4 (Continued) FABRICATE TWO PIECE MULLIONS & JAMB MEMBERS

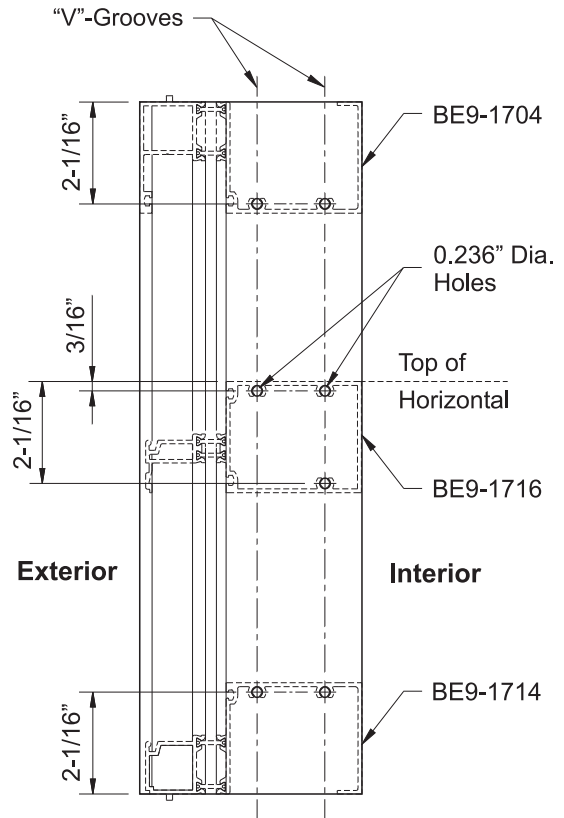
Fabrication of Mullions for Outside Glazed:

Note: This option is only available for YWW 45 T.

- Use a short piece of each horizontal member as a template.
- Center the template on the face of the mullion.
- Line up the glazing pockets and mark the location of each screw spline.

-OR-

- Layout the hole locations along the "V"-grooves as shown in **Detail 9**.
- Drill a 0.236" (#B drill bit) diameter hole at each location marked.



Detail 9

STEP 5 FABRICATE ONE PIECE SSG VERTICALS

- Cut one piece SSG mullions, E9-1723, to the daylight opening dimension between the head and sill members.

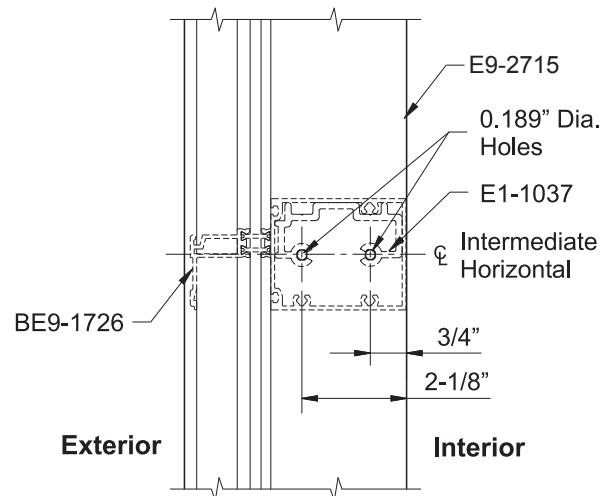
Intermediate horizontals are attached to the mullions using shear block, E1-1037. Fabricate one piece mullions to receive shear blocks:

- Refer to the shop drawings to determine the centerline of each intermediate horizontal.
- Mark a line on the mullion representing the centerline of each intermediate horizontal.
- Using a short piece of horizontal member with the shear block attached as a template, center the template on the face of the mullion.
- Line up the glazing pockets and mark the location of each screw spline.

-OR-

- Layout the hole locations as shown in **Detail 10**.

- Drill a 0.189" (#12 drill bit) diameter hole at each location marked.



Detail 10

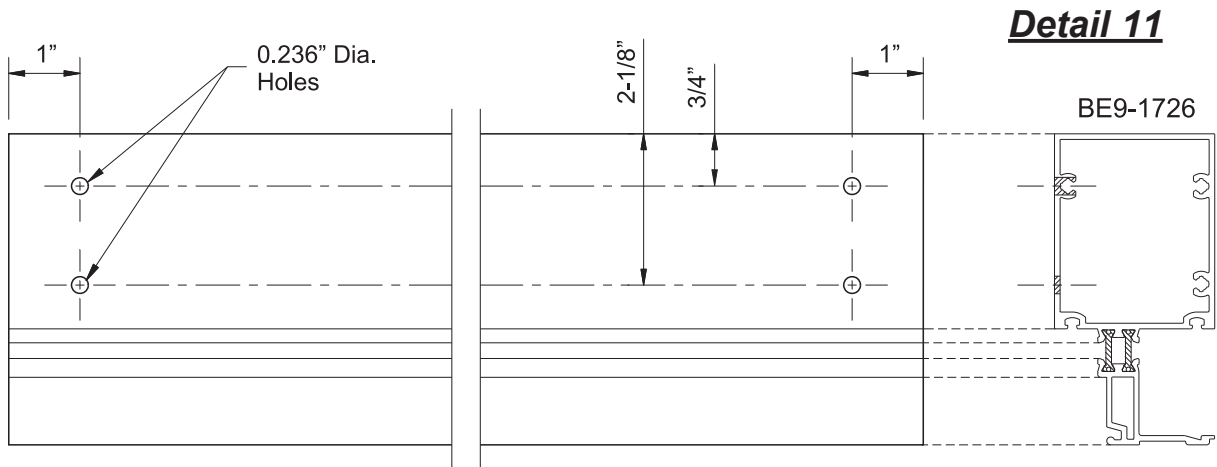
FRAME FABRICATION

**STEP 6
FABRICATE INTERMEDIATE HORIZONTAL MEMBERS**

-Cut intermediate horizontals to the daylight opening dimension between verticals.

Intermediate horizontals that will be attached to one piece mullions require additional fabrication for the attachment of shear blocks:

- Layout hole locations on the top of the horizontal as shown in **Detail 11**.
- Drill a 0.236" (#B drill bit) diameter hole at each location marked.
- Countersink each hole to receive a FC-1212 (#12) fastener.



**STEP 7
FABRICATE INTERIOR GLASS STOPS
FOR INTERIOR GLAZED HORIZONTALS**

Interior glazed horizontals require interior glass stops:

- BE9-1706 (YWW 45 T) requires interior glass stop E9-1705.
- BE9-2206 (YWW 40 T) requires interior glass stop E9-2204.

-Cut all interior glass stops to the same dimension as the horizontals minus(-) 1/32".

FRAME FABRICATION

STEP 8 FABRICATE EXTERIOR FACE COVERS

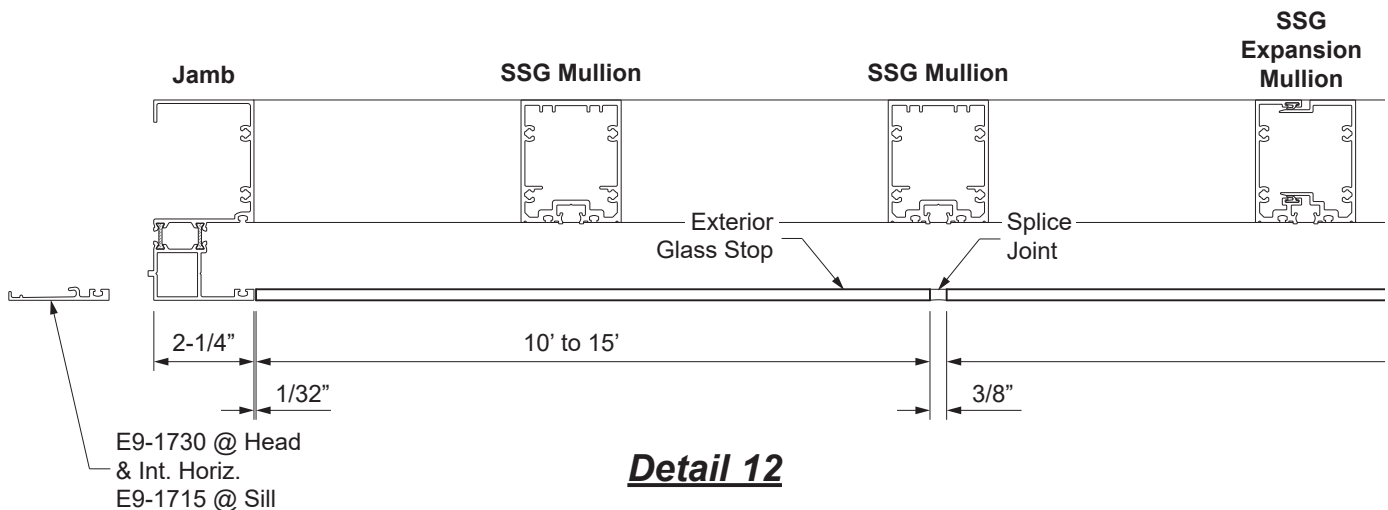
Exterior glazed and SSG horizontal and sill members require exterior face covers:
 BE9-1716 and BE9-1714 require exterior face cover E9-1715.
 BE9-1726, BE9-1750, and BE9-1740 require exterior face cover E9-1730.

Captured Glazing (face members on all four sides of the glass):
 -Cut the face covers to the same dimension as the horizontal minus(-) 1/32".

Structural Silicone Glazing (SSG):
 -For frame widths 24'-0" or less cut the face covers to the frame width minus 4-9/16".
 -For frame widths greater than 24'-0" face members are spliced every ten to fifteen feet at the center of an intermediate vertical.
 -Allow for a 1/32" joint at each jamb and a 3/8" joint between face cover splices.

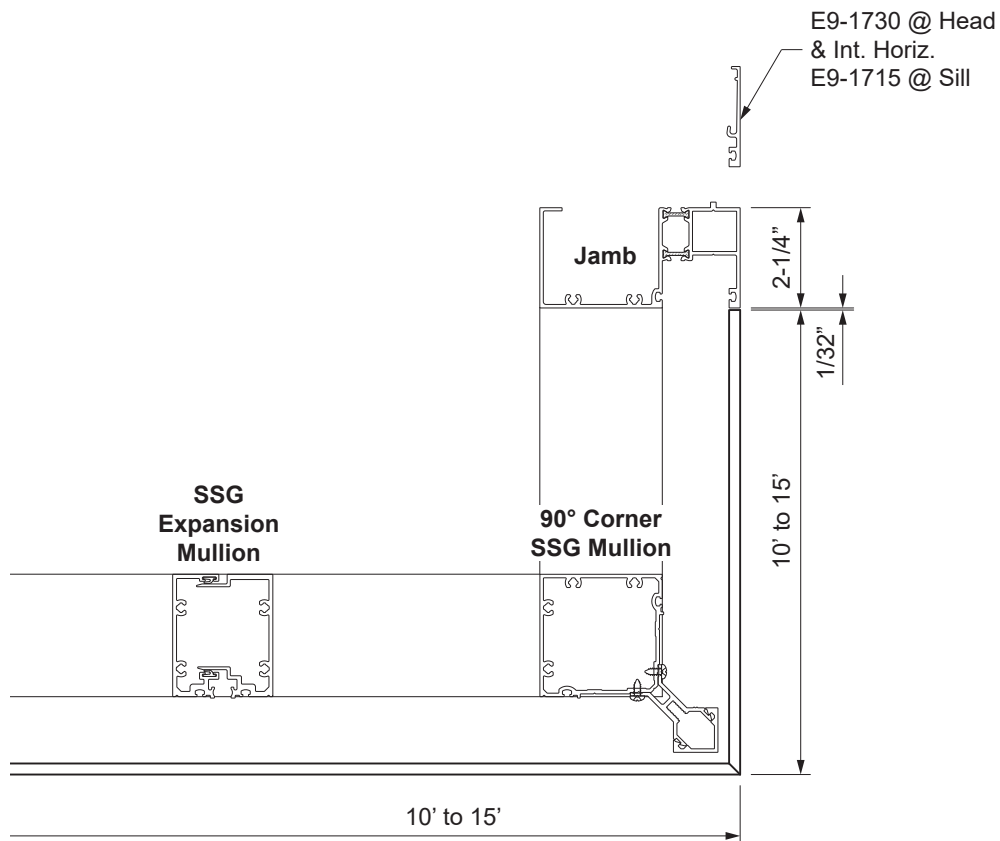
Caution: DO NOT splice the face cover at an expansion mullion!

See **Details 12 & 12A.**



FRAME FABRICATION

STEP 8 (Continued)
FABRICATE EXTERIOR FACE COVERS



Detail 12A

FRAME FABRICATION

STEP 9 FABRICATE GLAZING ADAPTORS

YWW 45 T offers glazing adaptors for 1/4" glazing:

- E9-1707 for captured mullion deep pockets.
- E9-1708 for captured mullion shallow pockets.
- E9-2716 for structural silicone glazed (SSG) mullions.
- E9-1725 for BE9-1709 pocket fillers for 90° corner posts and door jambs.

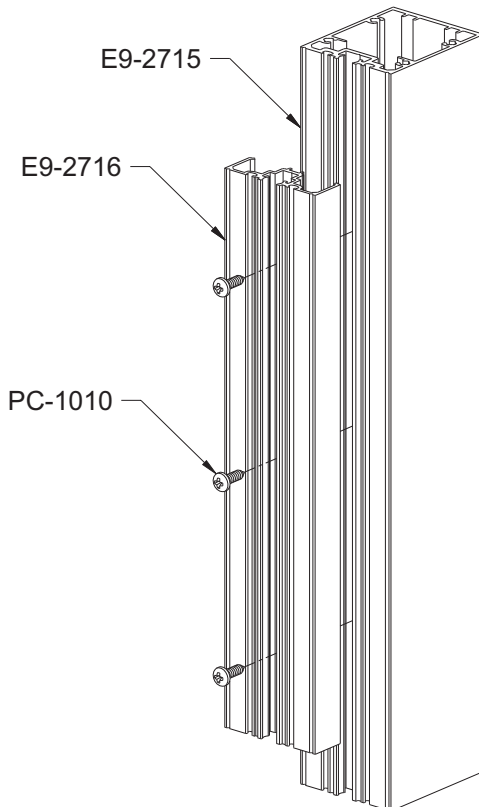
-Cut vertical glazing adaptors to the daylight opening dimension between horizontals plus(+) 7/8".

-Cut horizontal glazing adaptors to the daylight opening dimension between mullions minus(-) 1/32".

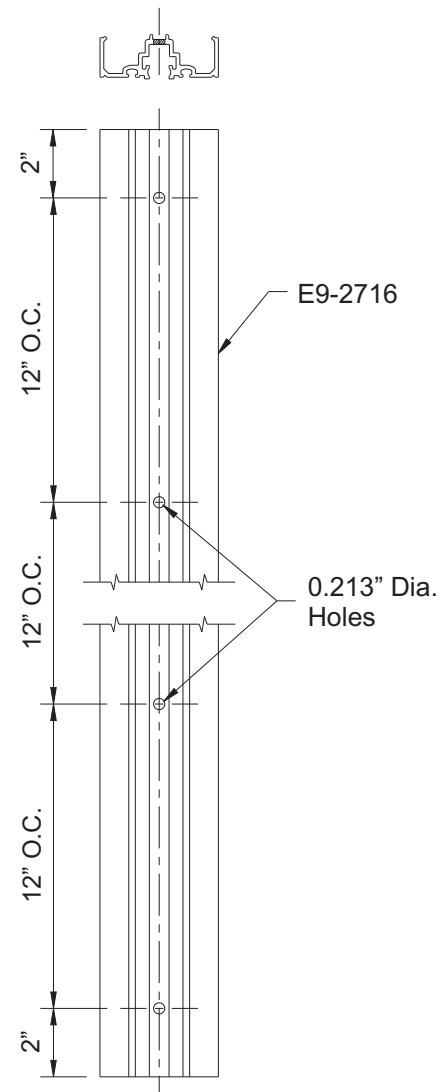
Glazing adaptor, E9-2716, requires additional fabrication:

- Mark hole locations along the recessed area in the middle of the adaptor 2" from each end and 12" on center.
- Drill 0.213" (#3 bit) dia. holes at each location marked.

See **Detail 13**.



Detail 13

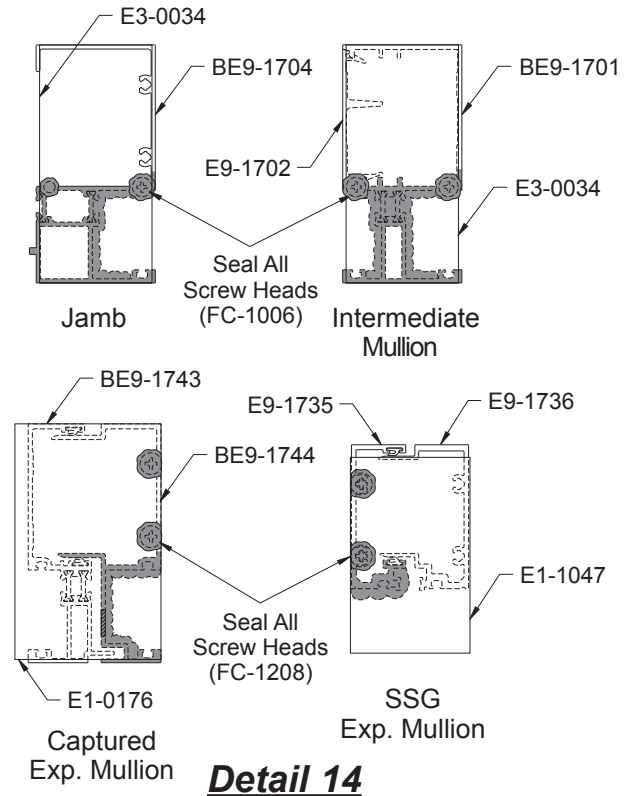


FRAME ASSEMBLY

**STEP 10
ATTACH MULLION END CAPS**

Mullion end caps are required at the top end only of jamb and mullions of vertical through frames and at each end of the expansion mullion of continuous head and sill frames.

- Clean the mullion ends and mullion end caps with a cleaner and method approved by the sealant manufacturer.
 - Apply sealant to the gasket reglet and along the front of the mullions on both ends prior to installing mullion end caps, E3-0034. For expansion mullions, apply sealant to the fastener side mullion only.
 - Attach the mullion end caps to each end of the mullion with fasteners as shown **Detail 14**.
 - Tool the excess sealant along the inside of the glazing pocket between the mullion end cap and the mullion.
 - Seal all screw heads.
- See **Detail 14**.



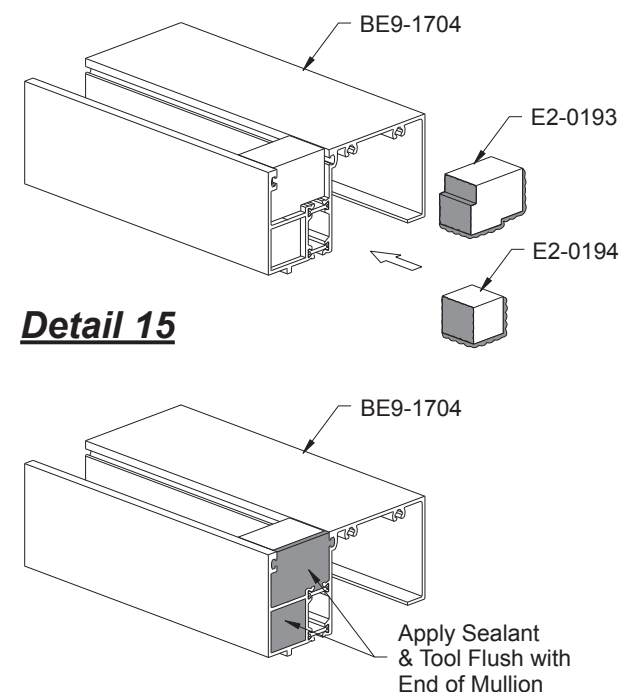
**STEP 11
INSTALL END DAMS
(For Continuous Head & Sill Frames Only)**

The ends of head and sill members of continuous head & sill frames must be plugged using end dams, E2-0193 and E2-0194.

Use the following technique to install end dams at the head and sill:

- Clean the ends of the head and sill members with a cleaner and method approved by sealant manufacturer.
- Apply sealant to all contact sides of the end dam.
- Insert the end dam into each end, leaving it 1/8" recessed from the edge of the mullion.
- Apply sealant to the end dams and tool the sealant flush with the ends of the mullion.

See **Detail 15** (sill shown, head similar).



FRAME ASSEMBLY

STEP 12 ASSEMBLE FRAMES

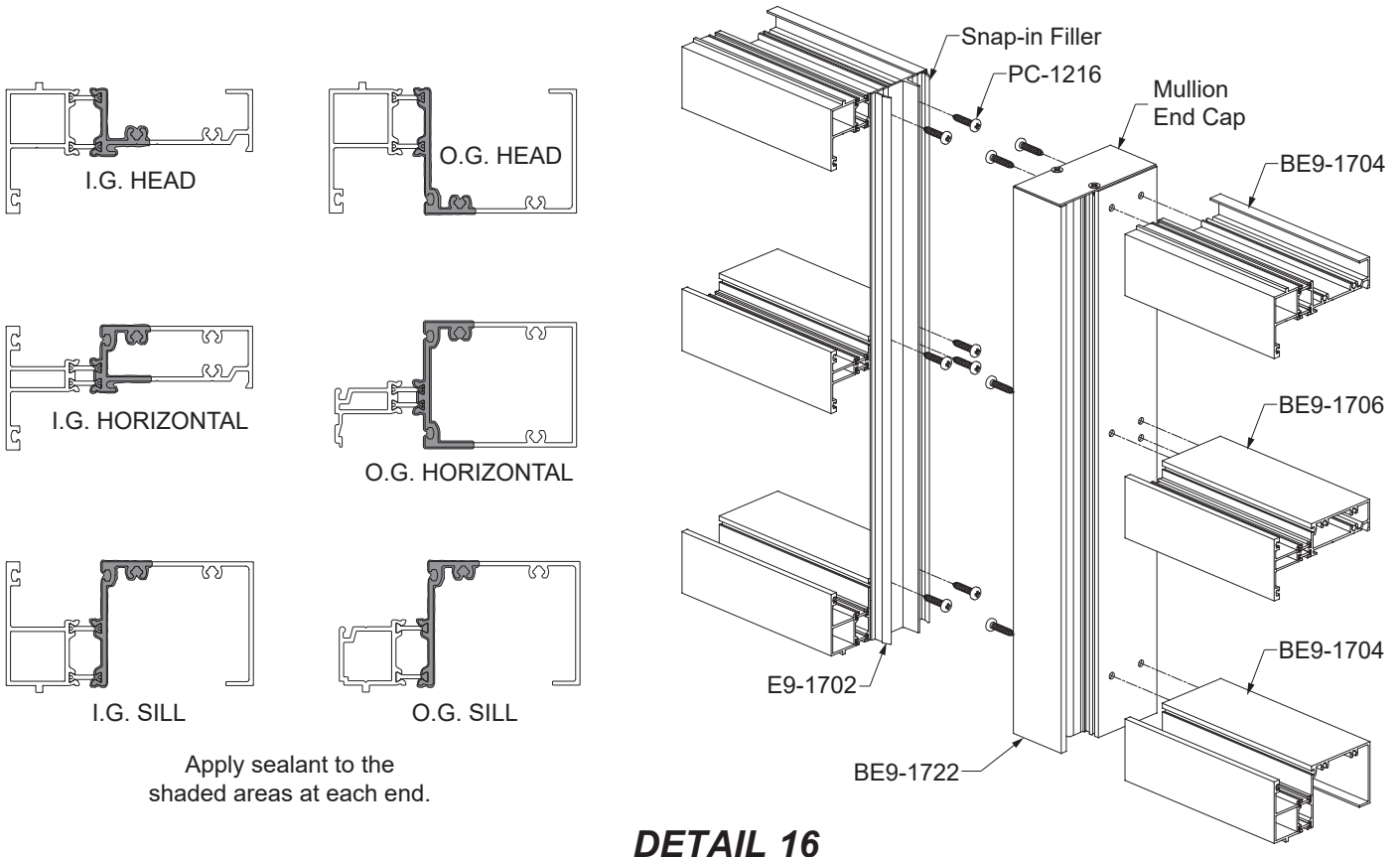
Mullion Through Frames

- Clean the ends of horizontal members and attachment areas of vertical members using a cleaner approved by the sealant manufacturer.
- Apply sealant to both ends of head, horizontal, sill members just prior to assembly. Make sure that the sealant does not get into the glass stop reglets of the head and horizontal.
- Attach head and sill members to two-piece mullions and jambs with two (2) PC-1216 fasteners at each end.
- Attach intermediate horizontals to two-piece mullions and jambs with three (3) PC-1216 fasteners at each end.

Note: PC-1220 fasteners must be substituted for the PC-1216 fasteners when attaching to the mullions that have screw splines

- Using a clean cloth, wipe off the excess sealant while pushing it into the joints.

See **Detail 16**.



DETAIL 16

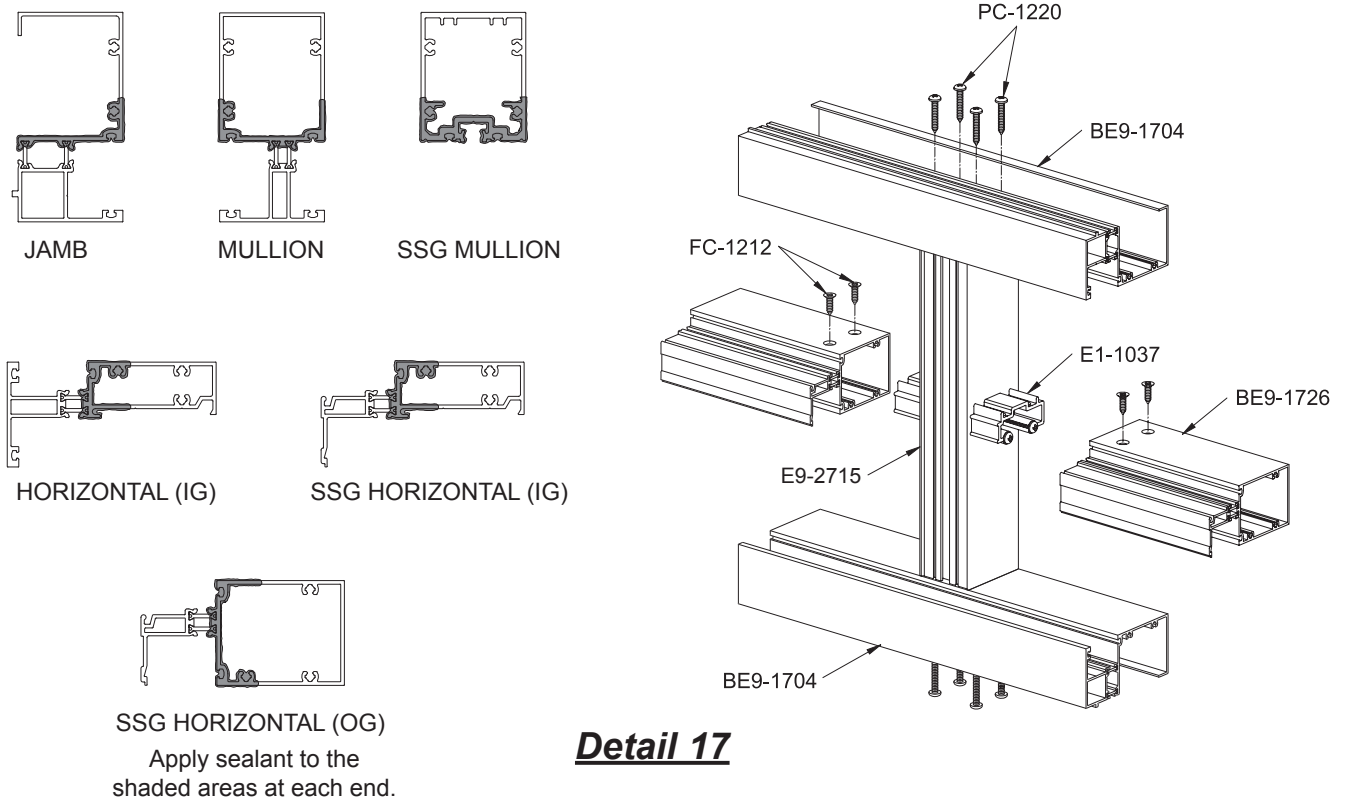
FRAME ASSEMBLY

STEP 12 ASSEMBLE FRAMES

Continuous Head & Sill Frames With One Piece SSG Mullions:

- Clean the ends of vertical members and attachment areas of head and sill members using a cleaner approved by the sealant manufacturer.
- Apply sealant to both ends of jamb and vertical members just prior to assembly.
- Note:** OG jamb members sun full frame height and attached similar to vertical through frames.
- Attach jamb members to continuous head and sill members using (2) PC-1220 fasteners at each end
- Attach one piece mullions to continuous head and sill members using (4) PC-1220 fasteners at each end.
- Apply sealant to both ends of intermediate horizontal members just prior to assembly. Make sure that the sealant does not get into the glass stop reglets of the horizontal.
- Attach intermediate horizontals to shear block, E1-1037, using (2) FC-1212 fasteners at each end.
- Using a clean cloth, wipe off the excess sealant while pushing it into the joints.

See **Detail 17**.



Detail 17

FRAME INSTALLATION

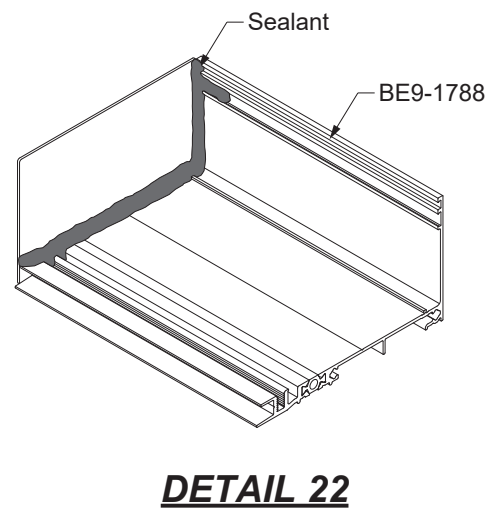
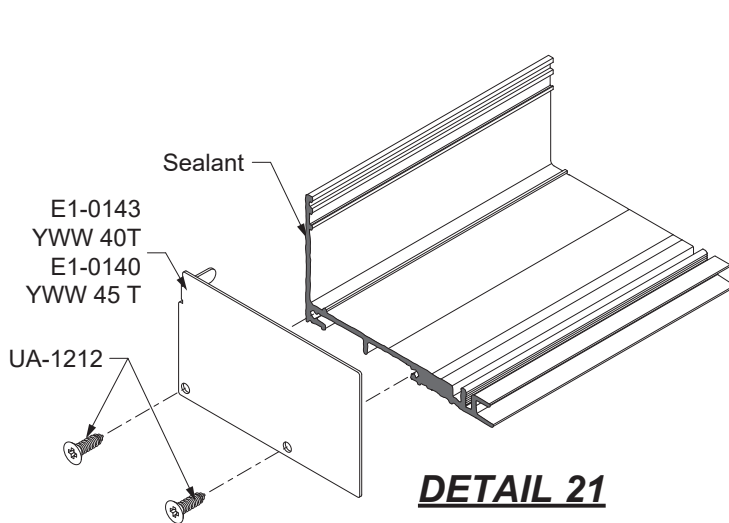
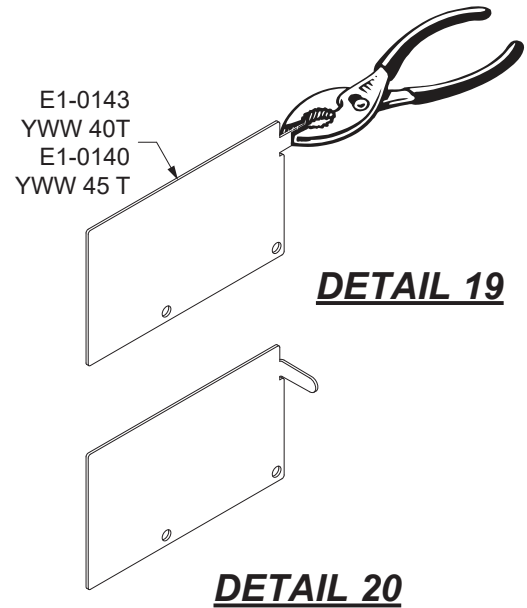
STEP 13A

INSTALL SILL FLASHING END DAMS

-Bend the end dam tab left or right 90 degrees in order to “hand” the end dam for the left or right end of the flashing.

See **Details 19 & 20.**

- Clean all joint surfaces using cleaner approved by sealant manufacturer.
- Apply sealant to the end of the sill flashing as shown in **Detail 21.**
- Slide the tab into the top portion of the sill flashing.
- Tap the tab into place with a small tool until the end dam is snug against the end of the flashing.
- Fasten the end dam to the sill flashing with two UA-1212 screws, starting at the back, followed by the front as shown in **Detail 21.**
- Tool sealant along the joint between the end dam and the sill flashing as shown in **Detail 22.**



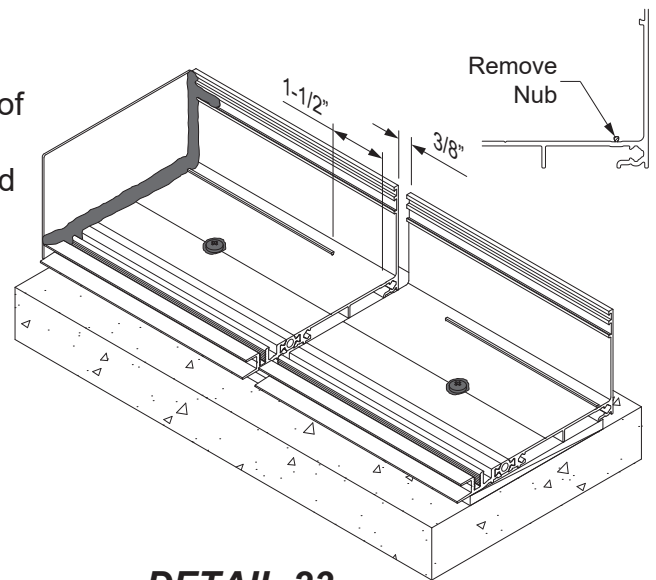
FRAME INSTALLATION

**STEP 14
INSTALL SILL FLASHING**

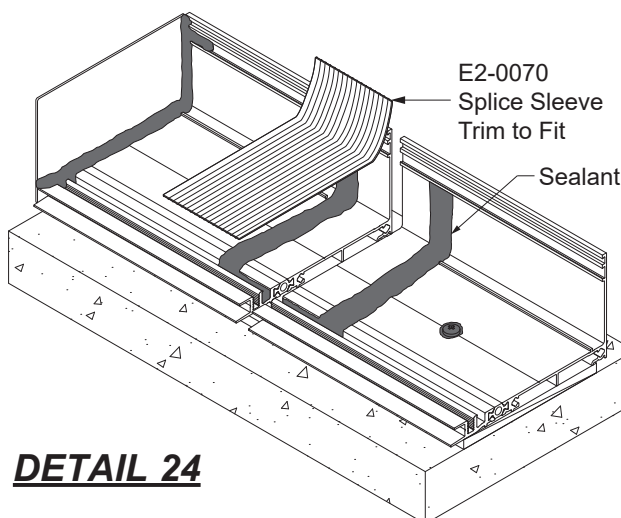
- Install the sill flashing with a minimum of 1/4" shim space underneath. Sill flashing must be installed level.
- Anchor the sill flashing to the structure a maximum of 4" from each end and then 18" to 24" on center, per P.E. calculations, or per FPA drawings.
- Apply and tool sealant to cover the heads of all anchors and screws.

**STEP 15
INSTALL SILL FLASHING SPLICE SLEEVE**

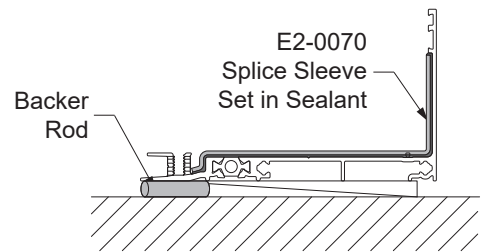
- Remove the nub with a chisel or pliers on both sides of the splice joint 1-1/2" as shown in **Detail 23**.
- After the sill flashing has been shimmed and anchored to the building structure, insert a small backer rod under the sill flashing as shown in **Detail 25**.
- Position the Silicone Splice Sleeve against the back wall below the groove.
- Bend the Silicone Splice Sleeve into the front on the channel as shown. Mark and cut the sleeve at this position.
- Clean Sill Flashing and Silicone Splice Sleeve with isopropyl alcohol at the splice location.
- Seal the flashing at the splice location as shown in **Detail 24**, before positioning the flashing. Set the Silicone Splice Sleeve into the sealant.
- Tool sealant tight as shown in **Detail 25**, squeezing the sheet flat with a seam roller.



DETAIL 23



DETAIL 24

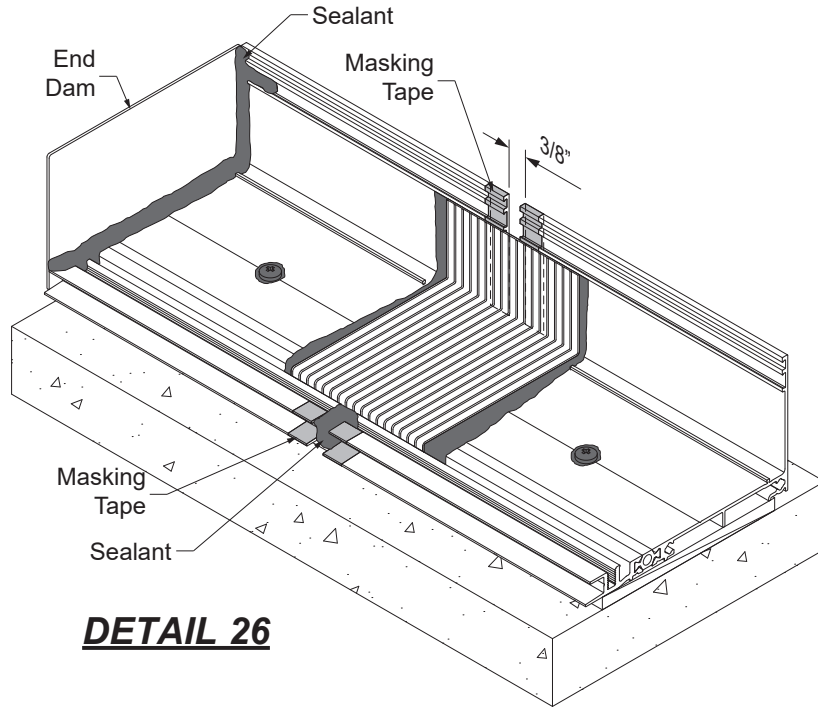


DETAIL 25

FRAME INSTALLATION

**STEP 15 (Continued)
INSTALL SILL FLASHING SPLICE SLEEVE**

-Thoroughly seal the small joint directly in front of the Silicone Splice Sleeve as shown in **Detail 26**.

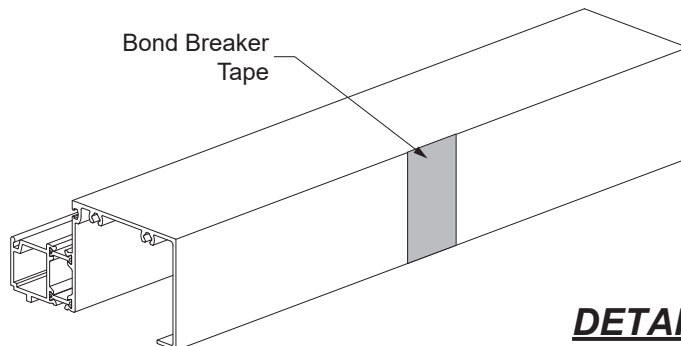


DETAIL 26

**STEP 16
SILL PREPARATION**

-At every splice condition, apply bond breaker tape to the back of the sill member before the joint is sealed between the sill and sill flashing.

See **Detail 27**.



DETAIL 27

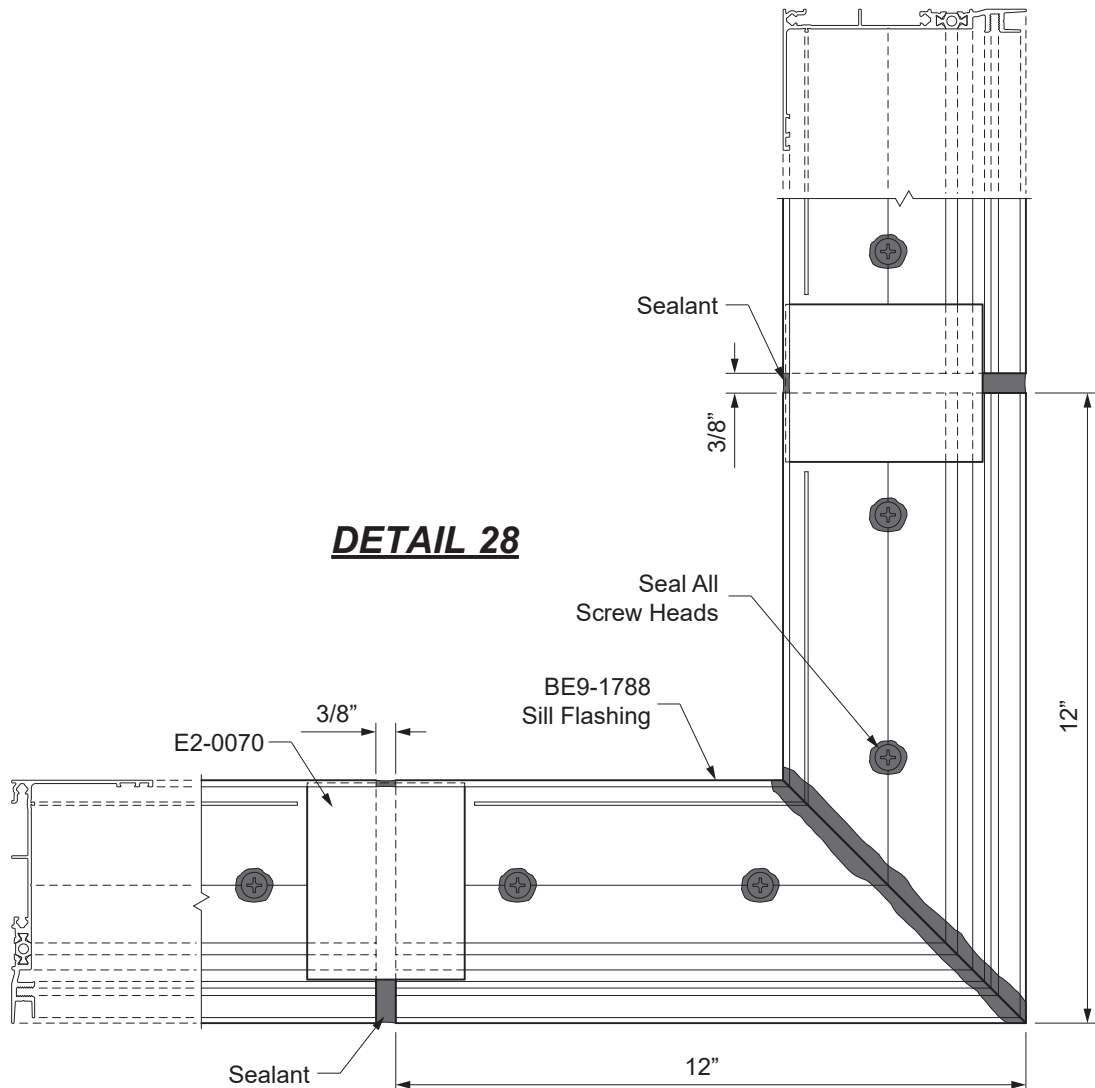
FRAME INSTALLATION

STEP 17
INSTALL SILL FLASHING AT CORNERS

- Cut two 12" long pieces of sill flashing BE9-1788 and miter (45° for 90° corners and 67.5° for 135° corners).
- Align the two pieces at the corner condition with the mitered ends pushed together tight and anchor the sill flashing as called out on shop drawings.
- Apply and tool sealant to the mitered joint and anchor heads.

See **Detail 28**.

- Continue installing the rest of the sill flashing providing a 3/8" joint at splices as shown in **Step 15 on Page 22**.

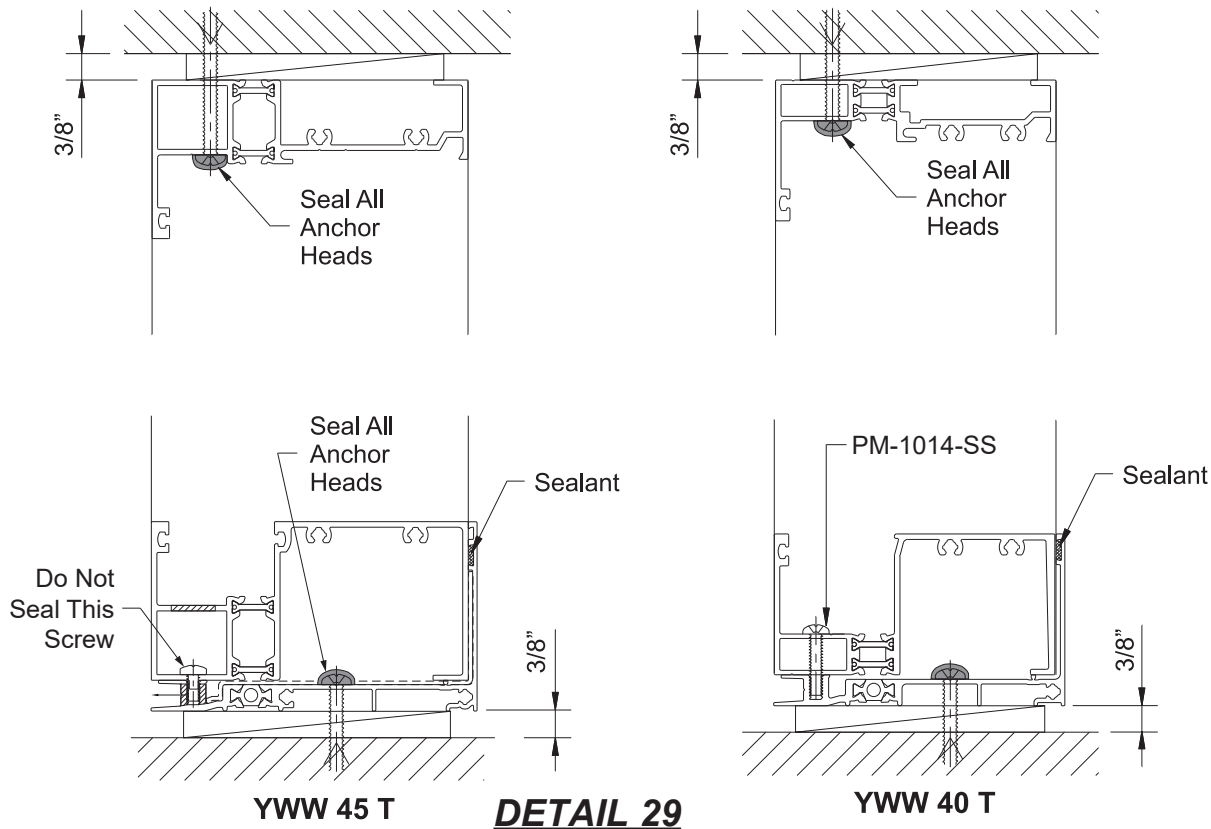


FRAME INSTALLATION

STEP 18 INSTALL ASSEMBLED FRAMES

- Immediately before installing the frames, apply a continuous bead of sealant to the back leg of the sill flashing, and a generous amount of sealant to the pilot holes in the sill flashing. Be sure not to obstruct weep holes on exterior of sill. Make sure all surfaces are clean before applying sealant.
 - Snap frame assemblies together and set onto the sill flashing.
 - Shim the head and jamb members to ensure that the frame is installed plumb, square, and true.
 - Anchor the head members at 6" on each side of every vertical centerline and then no more than 24" on center.
 - Anchor jamb members 6" from each end and then no more than 24" on center.
 - Follow by inserting and tightening fasteners into flashing through sealant.
 - Seal all anchor heads.
 - Sill members for YWW 40 T, BE9-2201, must be attached to the sill flashing with a PM-1014-SS fastener at each hole previously drilled during sill fabrication.
 - For YWW 45 T, sill members must be attached to the sill flashing with a PM-1006-SS fastener at each hole previously drilled during sill fabrication. Do not seal this fastener.
- Note:** Shims must be installed at all anchor locations.

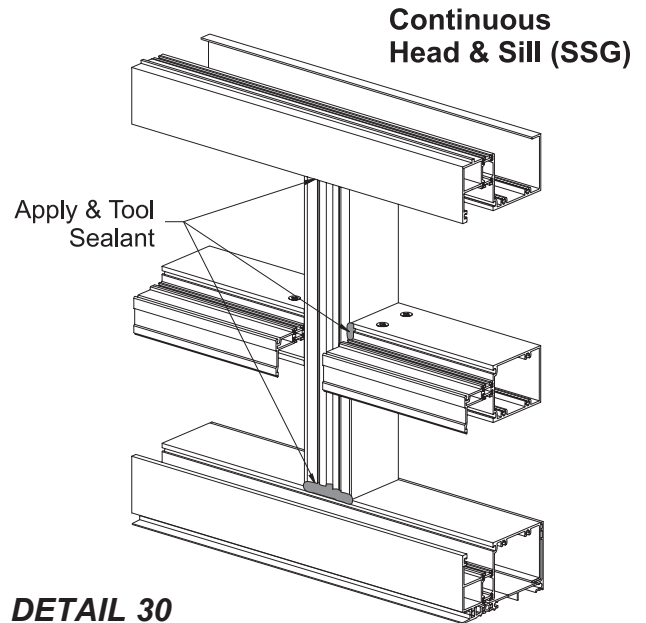
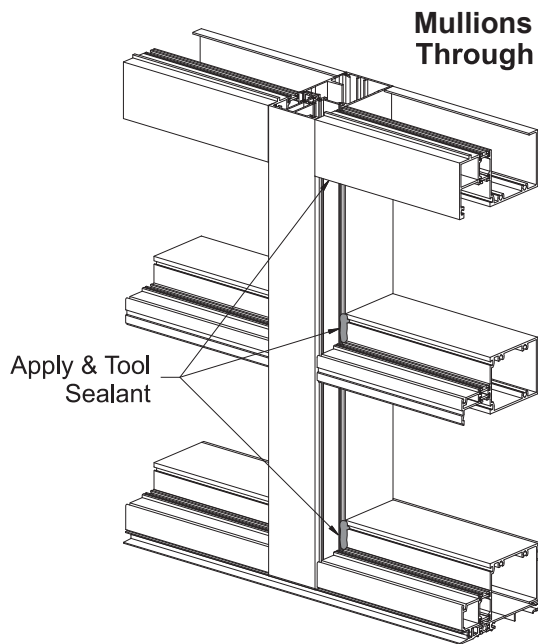
See **Detail 29**.
(Inside glazed shown, outside glazed similar)



FRAME INSTALLATION

**STEP 19
APPLY INTERNAL & PERIMETER SEALANT**

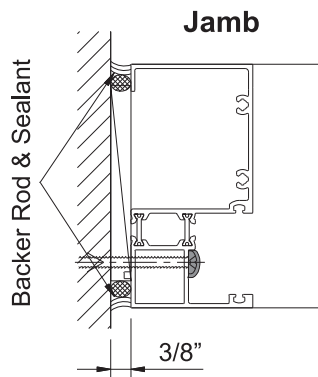
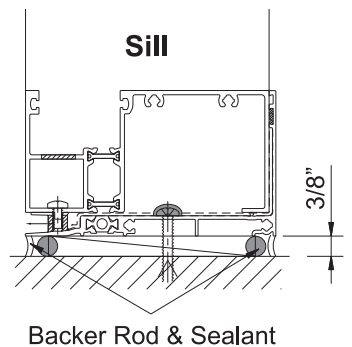
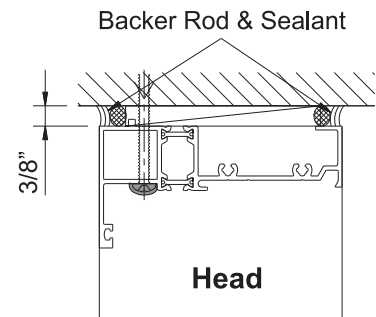
- Apply sealant to all vertical/horizontal joints at the glazing pockets.
 - Tool the sealant to ensure a watertight joint.
- See **Detail 30**.



DETAIL 30
Outside Glazed Shown
Inside Glazed Similar

- Install backer rod around the perimeter of the frame between the frame and the structure.
 - Apply perimeter sealant and tool the sealant to ensure a watertight joint.
- See **Detail 31**.

Note: Interior perimeter seal is required.



DETAIL 31
Inside Glazed Shown
Outside Glazed Similar

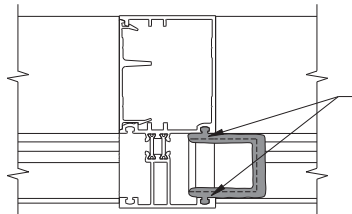
FRAME INSTALLATION

STEP 20 INSTALL WATER DEFLECTORS (Standard Mullions and Jambes)

The installation of a water deflector, E2-0047, at the ends of every intermediate horizontal is required to divert water away from the insulated units.

- Clean and dry off the glazing pocket of each horizontal at the ends.
- Peel off the protective paper and install the water deflector at the end of the horizontal.
- Position the vertical leg of the deflector against the end of the horizontal.
- Apply and tool sealant along the edges of the water deflector down onto the horizontal.
- Seal the ramp of the water deflector to the sides of the glazing pocket wall.

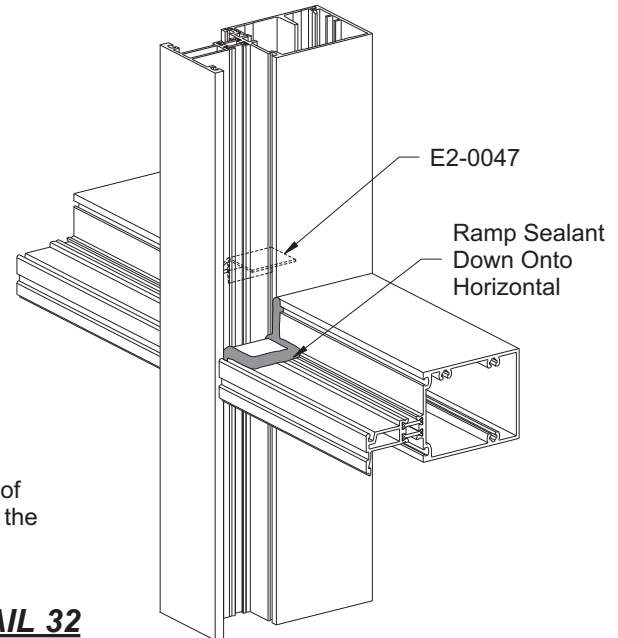
See **Detail 32**.



Seal Ramp of Deflector to the Pocket Wall

DETAIL 32

Outside Glazed Shown
Inside Glazed Similar

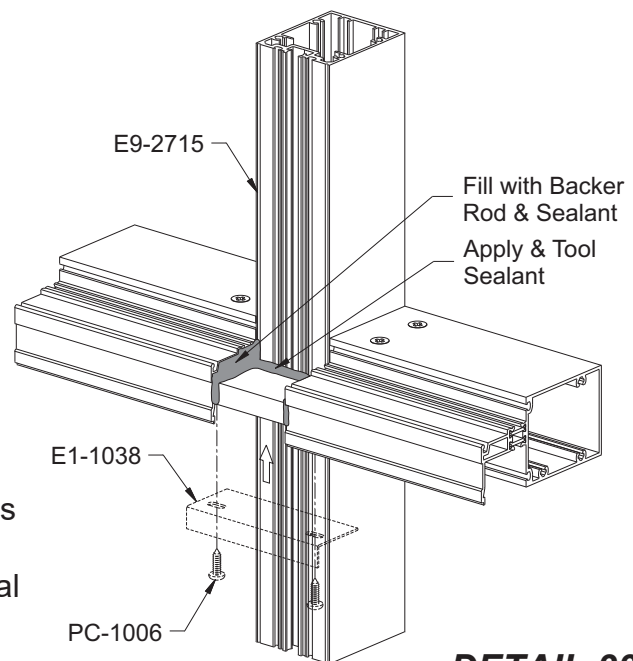


STEP 21 INSTALL HORIZONTAL BRIDGES (For SSG Mullions Only)

The installation of horizontal bridge, E1-1038, is required to bridge the gap between intermediate horizontals at the SSG vertical.

- Clean and dry off the glazing pocket of each horizontal at the ends.
- Install E1-1038 from the underside of the horizontals with a PC-1006 fastener on each side.
- Fill the cavity of the horizontal with backer rod and completely cover the end of the horizontals with sealant.
- Apply and tool sealant at all bridge to horizontal and vertical joints to ensure a watertight seal.

See **Detail 33**.



DETAIL 33

FRAME INSTALLATION

STEP 21 (Continued)

INSTALL HORIZONTAL BRIDGES (For SSG Verticals Only)

The installation of horizontal bridge, E1-1039, is required to bridge the gap between intermediate horizontals at the SSG corner.

-Clean and dry off the glazing pocket of each horizontal at the ends.

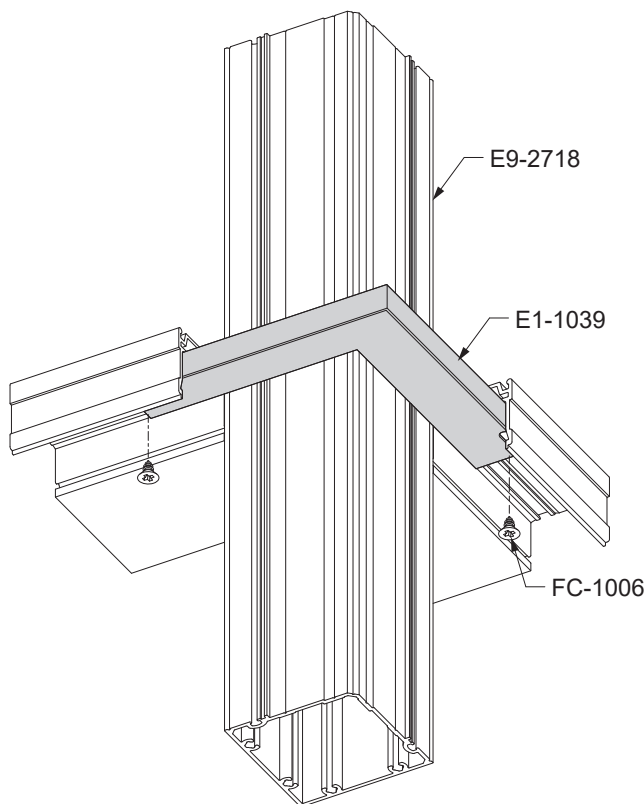
-Install E1-1039 from the underside of the horizontals with a PC-1006 fastener on each side.

See **Detail 34**.

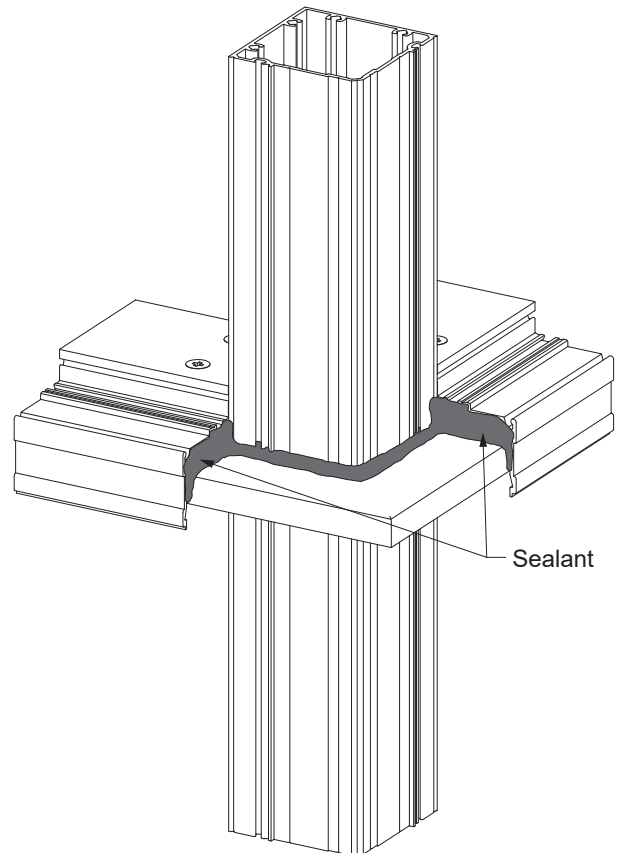
-Fill the cavity of the horizontal with backer rod and completely cover the end of the horizontals with sealant.

-Apply and tool sealant at all bridge to horizontal and vertical joints to ensure a watertight seal.

See **Detail 35**.



DETAIL 34

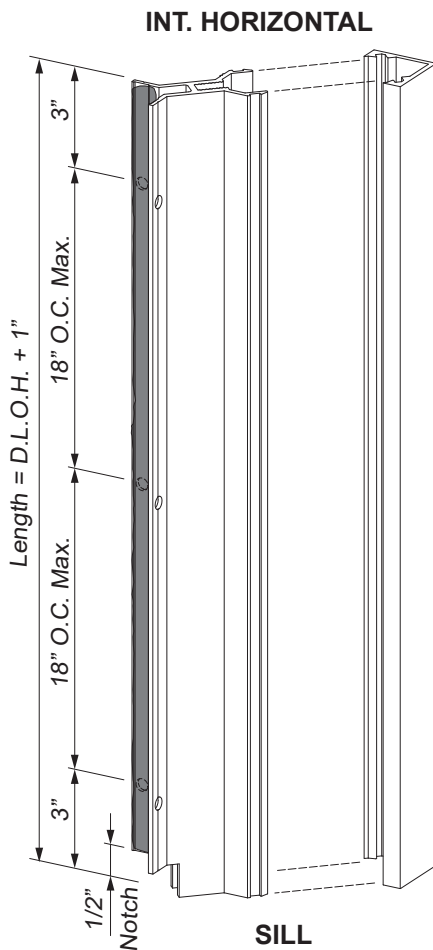
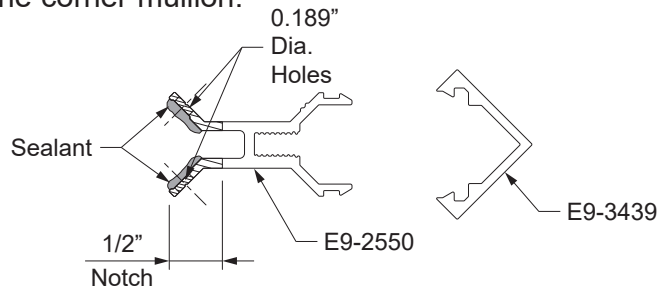


DETAIL 35

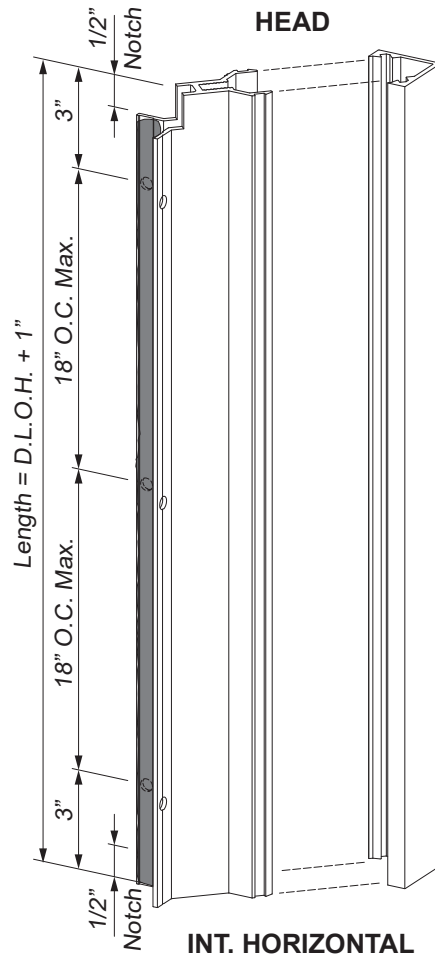
FRAME INSTALLATION

STEP 22 INSTALL CORNER TRIM AT 90° OUTSIDE SSG CORNER

- Cut the E9-2550 90° Outside Trim Cover Base and E9-3439 Trim Cover to Daylight Opening (D.L.O.H.) plus (+) 1".
- Mark hole locations on the trim cover no more than 3" from each end and then 18" on center maximum on both sides along the "V"-groove. Drill 0.189" diameter holes at each hole location. See **Detail 36**.
- For application at the continuous head or sill, notch 1/2" x 1/2" from the ends of the legs of the E9-2550 corner mullion trim adaptor base as shown in **Detail 36**. Drill 0.189" diameter clear holes in the legs of the adaptor 2" from each end and at 18" on center. Apply sealant to the legs of the trim adaptor prior to fastening to the corner mullion.



DETAIL 36

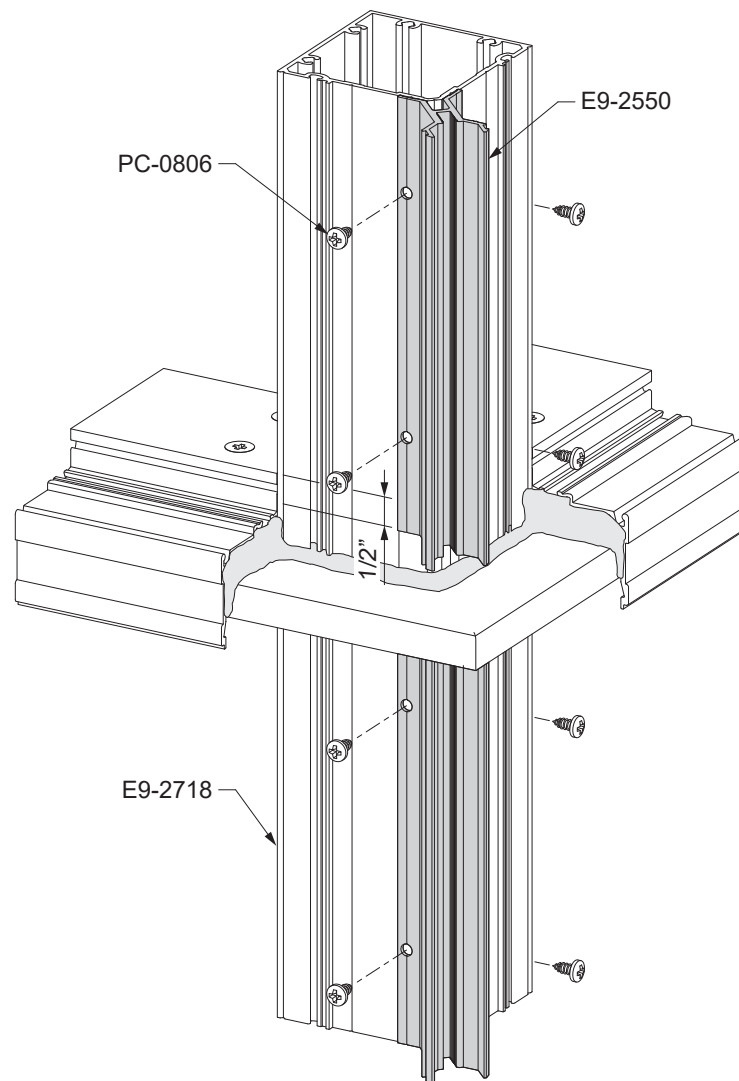


FRAME INSTALLATION

STEP 22 (Continued)

INSTALL CORNER TRIM AT 90° OUTSIDE SSG CORNER

- Position the trim cover onto the corner mullion centered along the vertical daylight opening and match drill 0.141" diameter holes into the mullion.
 - Attach the corner trim base to the corner mullion with PC-0806 fasteners. Do not attach the trim cover at this time.
 - Apply and tool sealant to all screw heads.
- See **Detail 37**.



DETAIL 37

FRAME INSTALLATION

STEP 23 INSTALL 1/4" GLAZING ADAPTORS (When Required)

Attach the vertical glazing adaptors first.

For Standard Mullions:

- Apply sealant in the vertical gasket reglets.
- Center the vertical adaptor in the opening.
- Position the foot of the adaptor into the MegaTherm recess and rotate the other end into the gasket reglet of the mullion.

For SSG Mullions:

- Center the vertical adaptor in the opening.
- Attach the SSG glazing adaptor, E9-2716, to the mullion with PC-1010 fasteners, 2" from each end and no more than 18" on center.
- Seal all screw heads.

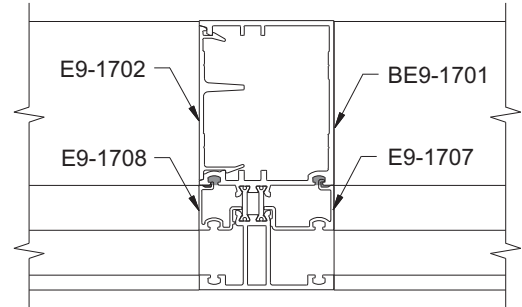
See **Detail 38**.

Attach the horizontal glazing adaptors last.

- Apply sealant to the ends of the horizontal glazing adaptors.
- Install the horizontal adaptors.

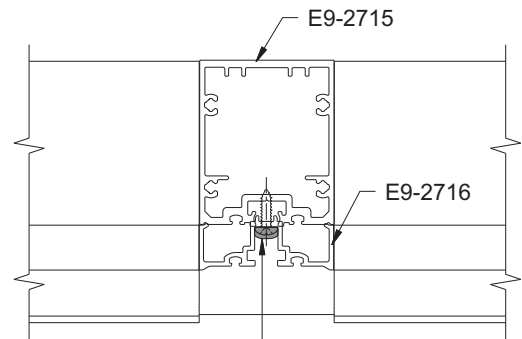
-Tool the sealant at the intersections of the adaptors to completely seal the joint.

See **Detail 39**.



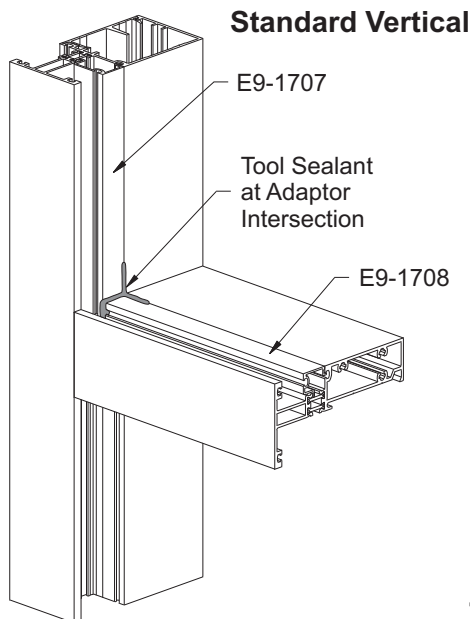
Standard Vertical

DETAIL 38



SSG Vertical

Seal All
Screw Heads
(PC-1010)

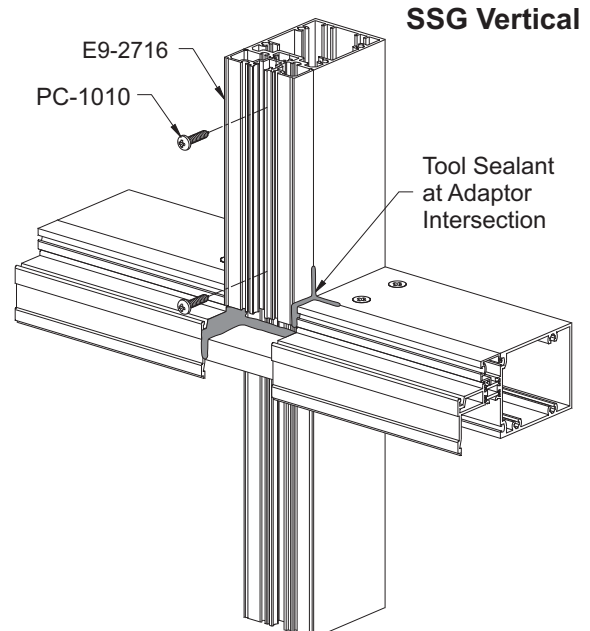


Standard Vertical

E9-1707

Tool Sealant
at Adaptor
Intersection

E9-1708



SSG Vertical

E9-2716

PC-1010

Tool Sealant
at Adaptor
Intersection

DETAIL 39

GLAZING

STEP 24 INSTALL GLAZING GASKETS

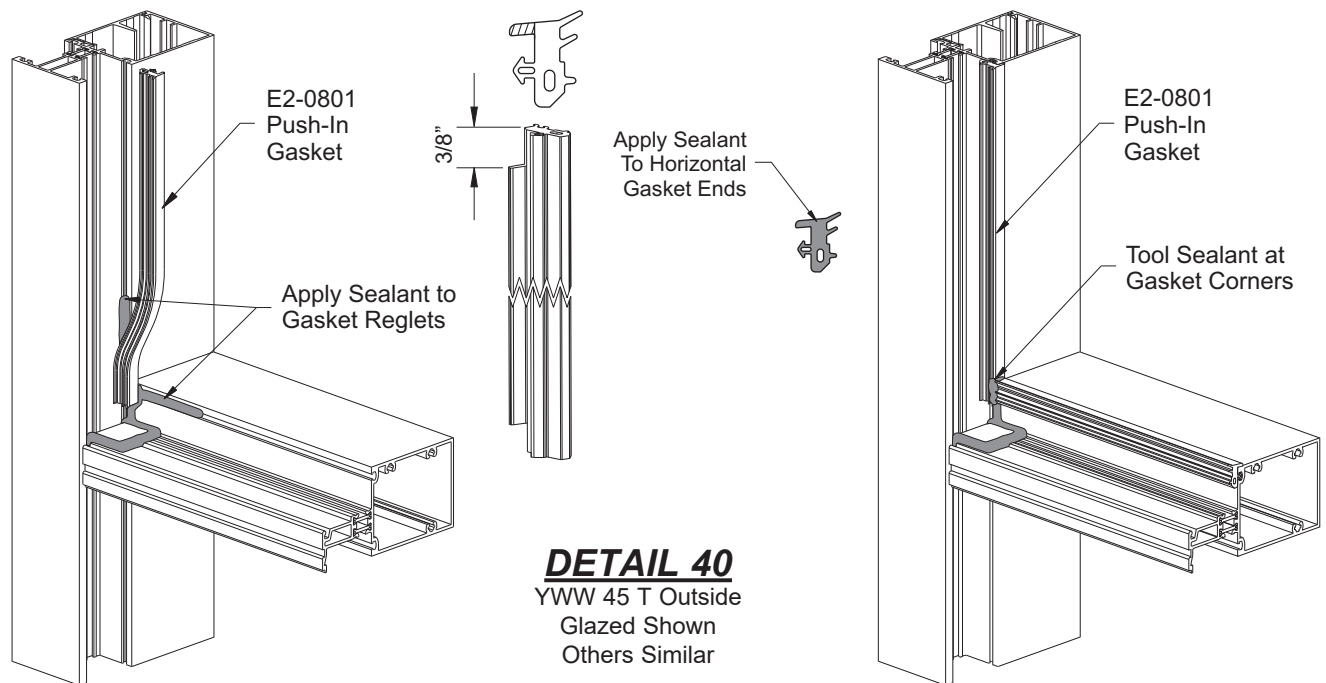
For inside glazing: Push-in gasket, E2-0801, must be installed on the exterior prior to glazing.
For outside glazing: Push-in gasket, E2-0801, must be installed on the interior prior to glazing.

-Using a small brush clean out any dirt that may have accumulated in the gasket reglets.

Vertical glazing gaskets must be installed first:

- Cut vertical glazing gaskets to the Daylight Opening plus(+) 3/4" plus(+) 1/4" for each foot of length.
- Insert the gasket into the reglets at each end first; then insert the gasket at the midpoint of the opening.
- Push the gasket into the reglet starting at the midpoint and work towards each end.

See **Detail 40**.



Install horizontal glazing gaskets next:

- Cut horizontal glazing gaskets to Daylight Opening plus(+) 1/4" for each foot of length.
- Apply sealant to each end of the horizontal glazing gasket prior to inserting into the reglet.
- Insert the gasket into the reglet at each end first; then insert the gasket at the midpoint of the opening.
- Push the gasket into the reglet starting at the midpoint and work towards each end.

-Tool the excess sealant at the gasket corners to ensure a watertight seal.

See **Detail 40**.

GLAZING

STEP 25 INSTALL GLASS FOR STANDARD GLAZING

Determine the glass size:

	Width	Height
Standard Glazing	D.L.O. + 7/8"	D.L.O. + 7/8"

- Install setting blocks at 1/4 points or according to engineering calculations.
At intermediate horizontals: E2-0184 for 1" glazing and E2-0192 for 1/4" glazing.
At sill conditions: E2-0182 for 1" glazing and E2-0190 for 1/4" glazing for YWW 45 T.
E2-0228 for 1" glazing for YWW 40 T.

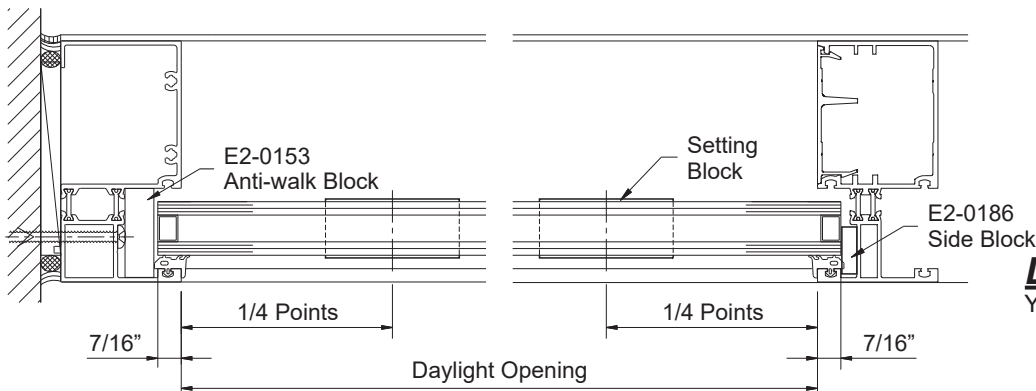
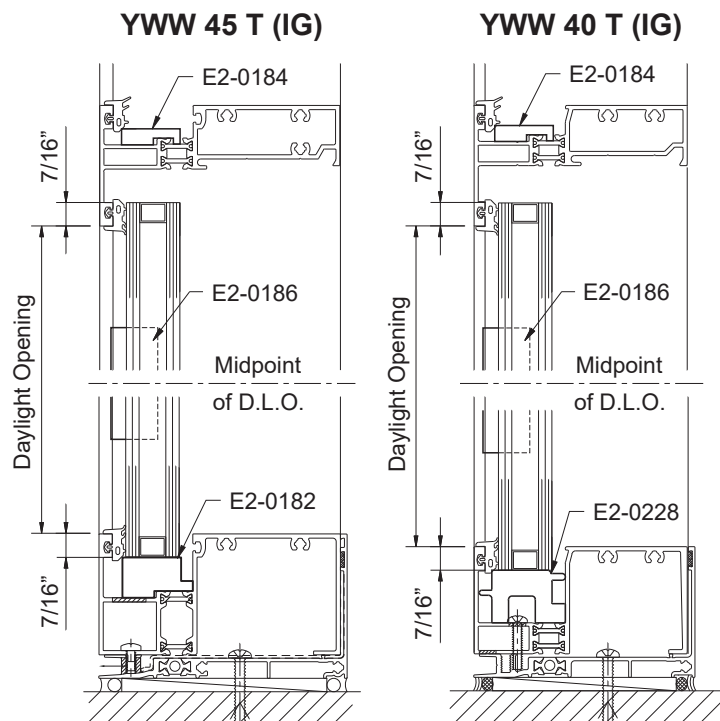
See **Detail 41**.

- Install side blocks, E2-0186, in the shallow glazing pocket of each vertical at the midpoint of daylight opening.
- Install anti-walk blocks, E2-0153, in the glazing pocket of the jambs.
- Carefully install glass into the frame making sure that setting and side blocks are properly aligned with the glass.

Note: Be careful not to disengage any gaskets that have already been installed when installing glass.

See **Details 41 & 42**.

DETAIL 41



DETAIL 42

YWW 45 T Inside
Glazed Shown
Others Similar

GLAZING

STEP 25 (Continued)
INSTALL ANTI-WALK BLOCKS

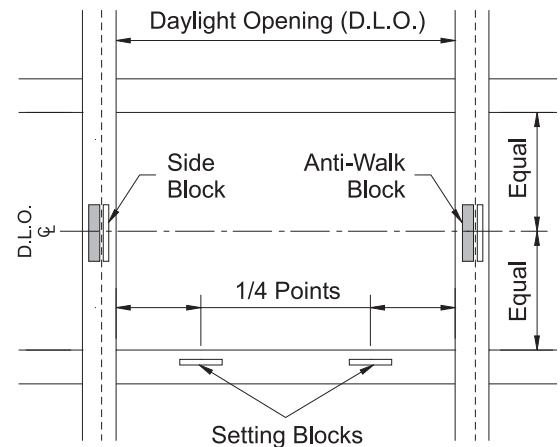
Anti-walk blocks must be installed in the vertical deep glazing pocket of each lite centered along the daylight opening:

- E2-0153 for all jambs.
- E2-0153 for standard verticals.
- E2-0153 for expansion mullions.

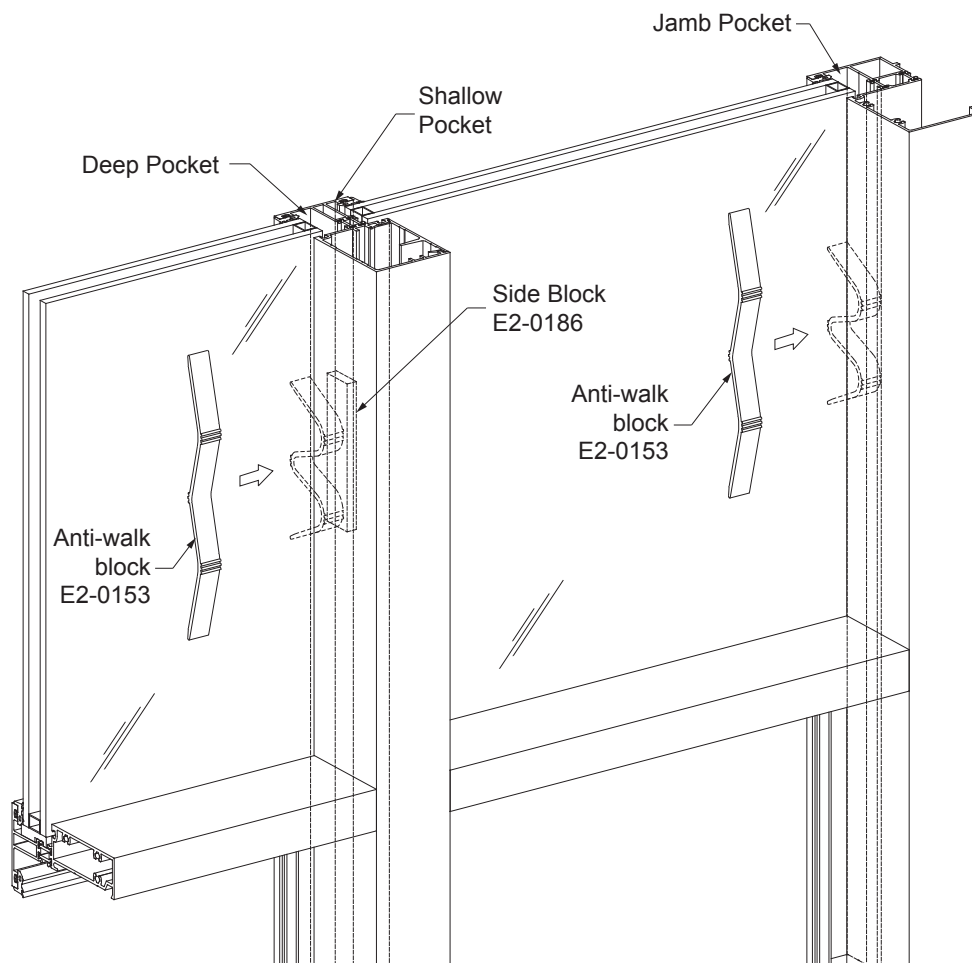
-Flatten the anti-walk block against the surface of the glass and push it into the opening between glass and the mullion until it is released into the glazing pocket.

See **Details 43 & 44**.

Note: Anti-walk block installation for inside glazing shown below; installation for outside glazing is similar but installed from the outside.



DETAIL 43



DETAIL 44
 IG Shown
 OG Similar

GLAZING

STEP 25 (Continued) INSTALL GLASS FOR STANDARD GLAZING

For Interior Glazing:

Interior glass stops are required at all head and intermediate horizontals:

YWW 45 T: E9-1705 for 1" glazing and E9-1713 for 1/4" glazing.

YWW 40 T: E9-2204 for 1" glazing.

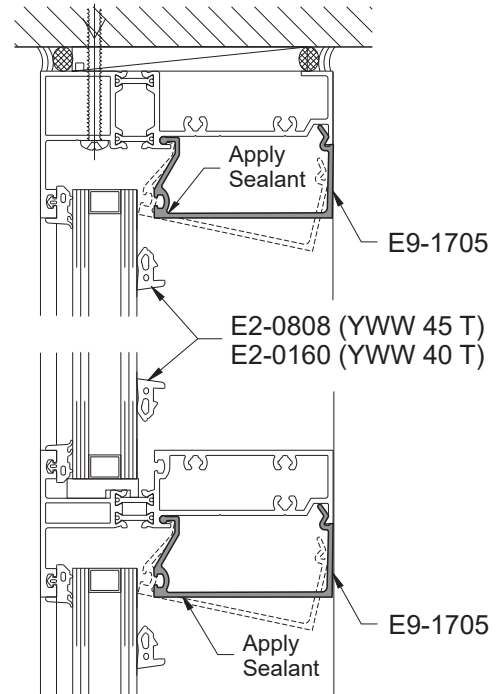
-Apply sealant to each end of the glass stops and snap them into position.

-Tool the sealant into the joint between the glass stop and the mullion to ensure a watertight seal and wipe away any excess sealant.

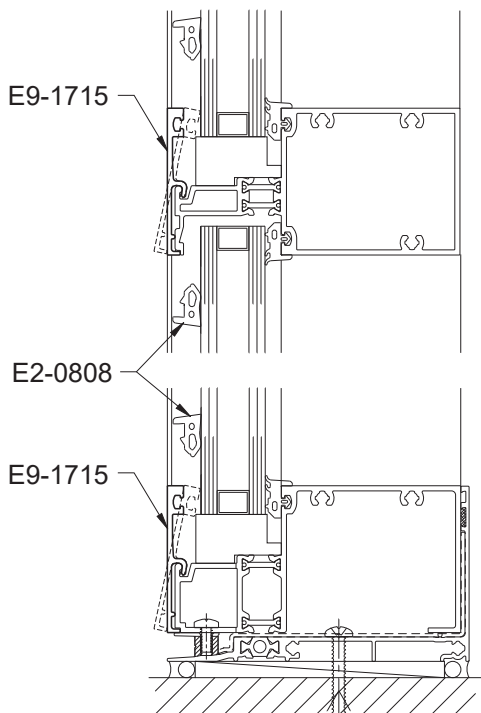
See **Detail 45**.

-Install the interior wedge gaskets, E2-0808 using the same technique described in **Step 24**.

Note: Always install vertical glazing gaskets first. Seal the ends of the horizontal gaskets into the vertical gaskets.



DETAIL 45



DETAIL 46

For Outside Glazing:

Exterior face covers are required at all sill and intermediate horizontals:

E9-1730 for BE9-1726, BE9-1740, & BE9-1750 horizontal members.

E9-1715 for BE9-1714 horizontal members.

-Engage the hook of the face covers with the ball of the horizontal members and rotate them into position.

See **Detail 46**.

-Install the exterior wedge gaskets, E2-0808 for (YWW 45 T), or E2-0160 (YWW 40 T), using the same technique described in **Step 24**.

Note: Always install vertical glazing gaskets first. Seal the ends of the horizontal gaskets into the vertical gaskets.

GLAZING

STEP 26
INSTALL GLASS FOR STRUCTURAL SILICONE GLAZING

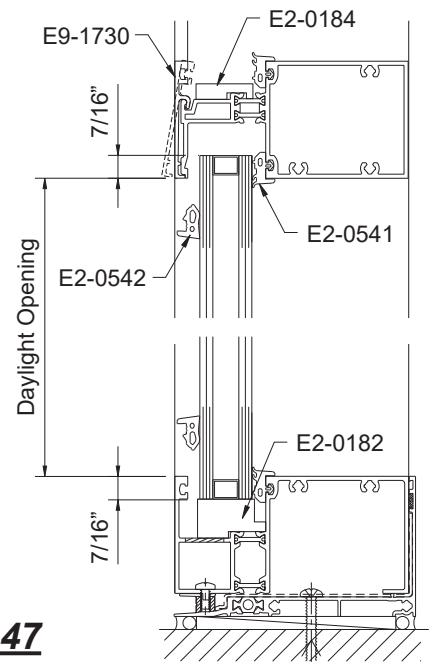
Determine the glass size:

	Width	Height
Jamb to SSG	D.L.O. + 1-5/16"	D.L.O. + 7/8"
SSG to SSG	D.L.O. + 1-3/4"	D.L.O. + 7/8"

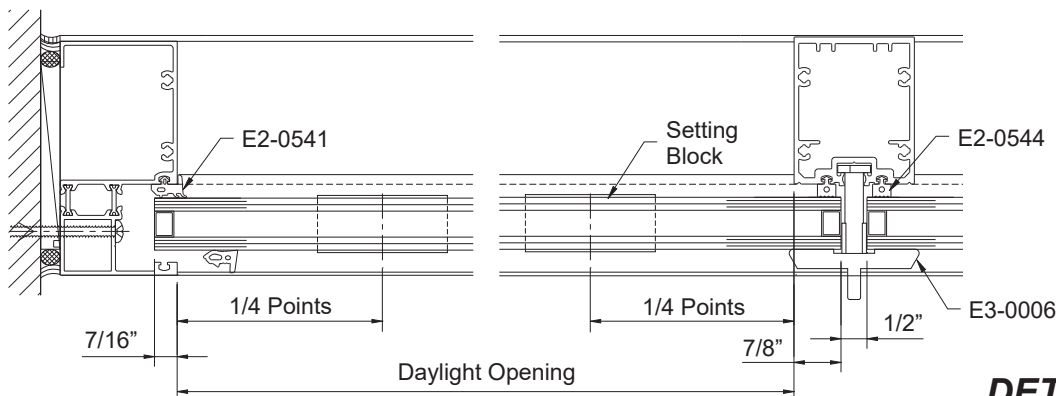
- Install setting blocks at 1/4 points or according to engineering calculations.
At intermediate horizontals: E2-0184 for 1" glazing and E2-0192 for 1/4" glazing.
At sill conditions: E2-0182 for 1" glazing and E2-0190 for 1/4" glazing.
- See **Detail 47**.

- Cut glazing spacer, E2-0544, to the same vertical dimension as the glass plus(+) 1/4" per foot of length.
- Install the glazing spacer centered along the vertical opening.
- Install the interior glazing gaskets at the jambs and horizontals as shown in **Step 23 on Page 29**.
- Carefully install each lite of glass leaving a 1/2" joint between lites of glass. Be careful not to disturb the interior gaskets and spacers.
- Insert the temporary glass retainers, E3-0001 for 1" glazing or E3-0006 for 1/4" glazing, between the lites and twist them 90° clockwise to engage.
- Locate temporary glass retainers 18" to 24" on center.
- Snap on exterior face covers and install exterior wedge gaskets, E2-0542, starting at one end and work towards the opposite end.

See **Detail 48**.



DETAIL 47

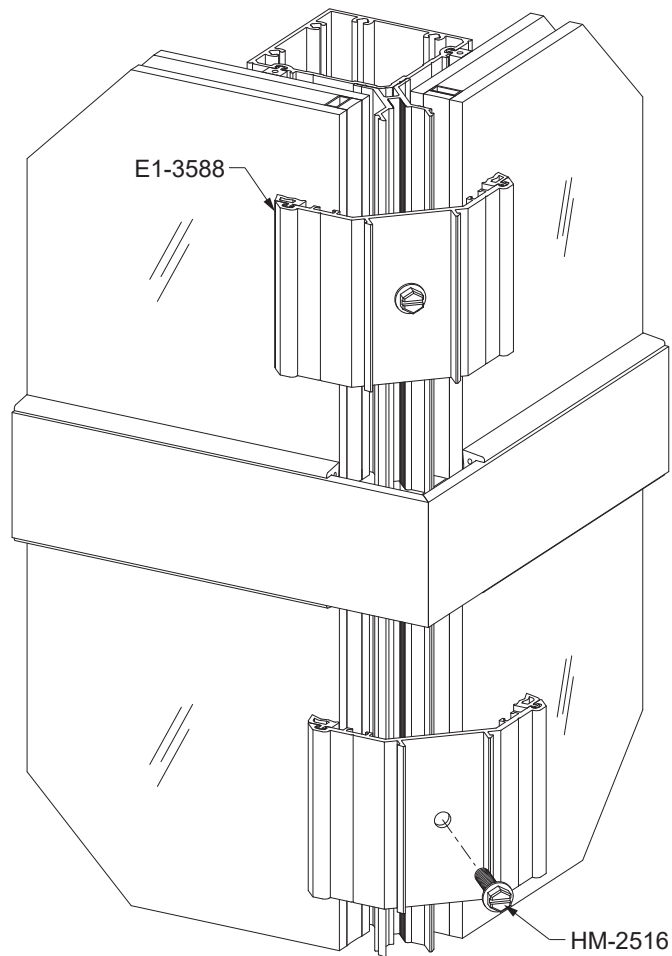


DETAIL 48

GLAZING**STEP 26 (Continued)
INSTALL GLASS FOR STRUCTURAL SILICONE GLAZING**

-At the 90° corner SSG mullions, use E1-3588 retainers with HM-2516 fasteners, spaced at 2'-0" maximum on center.

See **Detail 49**.

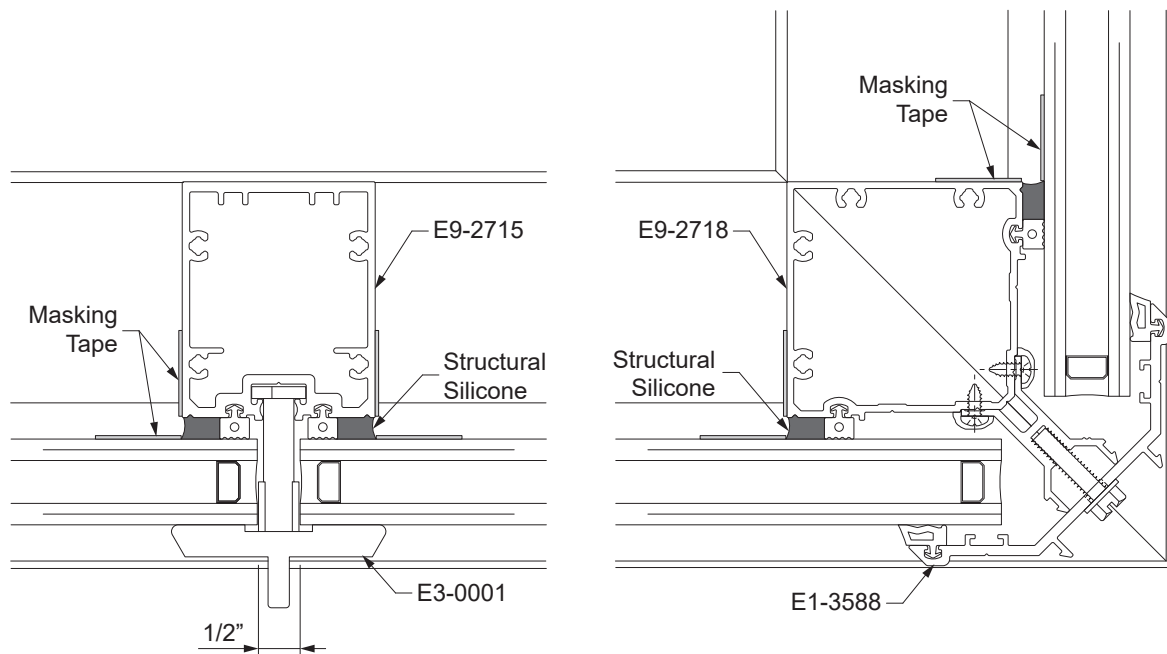
**DETAIL 49**

GLAZING

STEP 26 (Continued)
INSTALL GLASS FOR STRUCTURAL SILICONE GLAZING

Apply Interior Structural Silicone:

- Run masking tape vertically on the glass with one edge in line with the side of the mullion.
- Run another piece of masking tape vertically along the edge of the vertical next to the glass.
- Prior to applying structural silicone, clean all contact surfaces using an approved cleaner.



DETAIL 50

- Apply an approved structural silicone from the bottom to the top of the joint. Use positive pressure to completely fill the cavity between the glass and vertical mullion.
 - Using a nylon spatula or other non-scratching implement, tool the silicone immediately after running the vertical joint. Exert positive pressure while tooling to ensure that the silicone completely fills the cavity.
 - Be careful not to remove too much silicone. The silicone should make complete contact with the glass and aluminum surfaces. The finished joint should be flush with the edge of the vertical.
- See **Detail 50**.

Caution: Do not permit the silicone to skin over before it is tooled. Immediately remove masking tape after tooling the silicone.

GLAZING

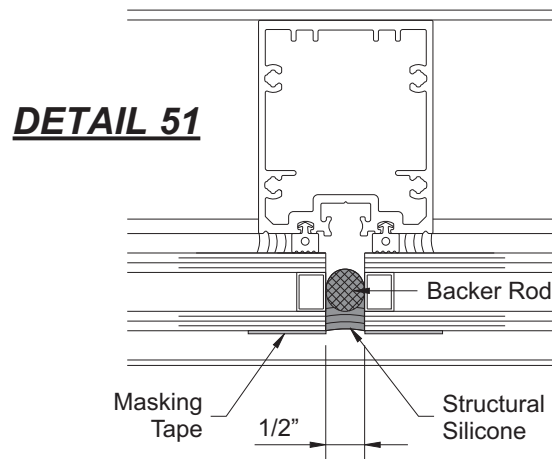
STEP 26 (Continued) INSTALL GLASS FOR STRUCTURAL SILICONE GLAZING

Apply Exterior Weatherseal:

Once the interior structural silicone has cured, it is necessary to seal the 1/2" wide exterior joint between the lites of glass. Please consult sealant manufacturer for recommended cure time.

- Remove the temporary glass retainers and insert an approved, open cell polyurethane backer rod between the lites of glass.
- Clean all contact surfaces with an approved cleaner and apply masking tape to both vertical edges of the glass.
- Starting at the bottom of the lite, pump an approved structural silicone into the joint between the lites of glass. Apply moderate pressure so that the void is completely filled.

Caution: Be careful not to puncture the backer rod or push it out of the way.

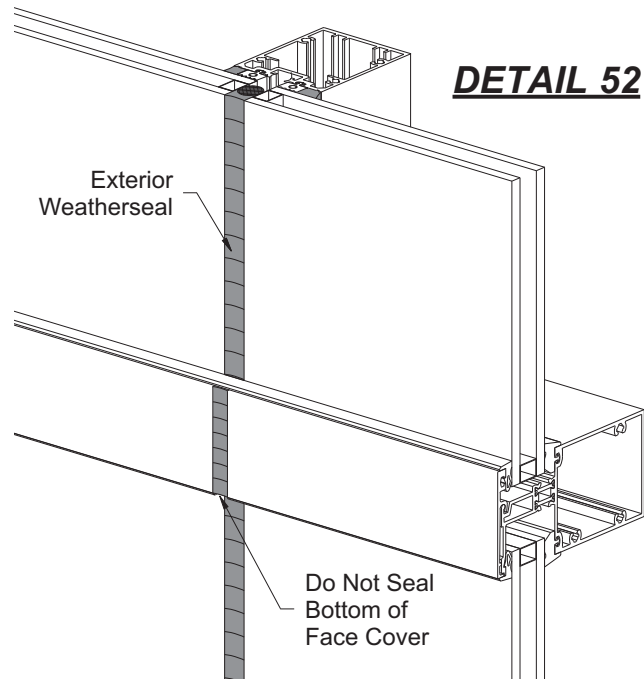


See **Detail 51**.

- At face cover splices, carry the sealant down over the face cover without sealing off the bottom to allow the system to weep properly.

See **Detail 52**.

- Using a nylon spatula or other non-scratching implement, tool the silicone immediately after running the vertical joint. Exert positive pressure while tooling to ensure that the silicone completely fills the cavity.
- Be careful not to remove too much silicone. The silicone should make complete contact with the glass and aluminum surfaces. The finished joint should be flush with the edge of the vertical.



Caution: Do not permit the silicone to skin over before it is tooled. Immediately remove masking tape after tooling the silicone.

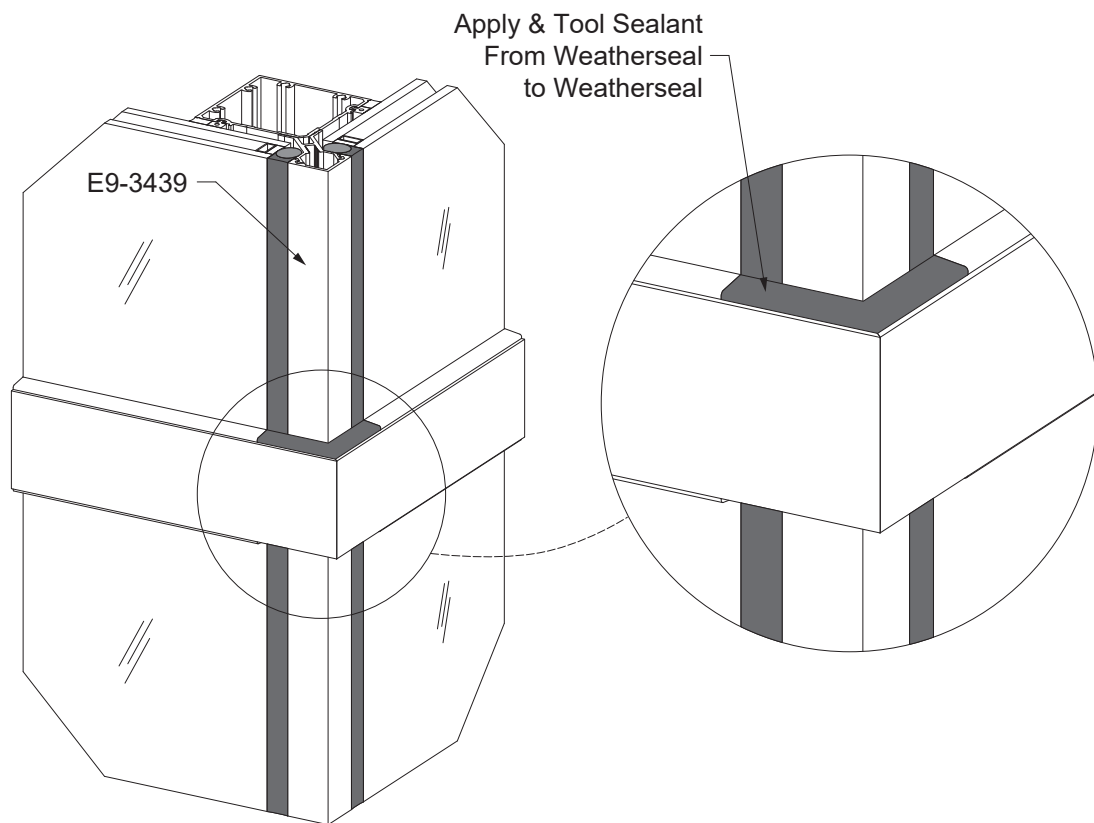
GLAZING

STEP 26 (Continued)

APPLY FACE COVER SEAL AT 90° OUTSIDE SSG CORNERS

- Install exterior glazing gaskets and snap on face covers to the horizontal members at the SSG corner as previously shown in this manual.
- After glass is installed and exterior weatherseal is applied, apply a bead of sealant at the intermediate horizontal and sill along the top of the face cover gasket from weatherseal to weatherseal at the corner mullion.
- Tool the sealant to form a complete seal at the SSG corners.

See **Detail 53**.



DETAIL 53

DOOR FRAME INSTALLATION

STEP 27 INSTALL DOOR FRAME

Doors are shipped assembled, and door frames will be fabricated and shipped knocked down. Please refer to the 20D, 35D, & 50D Entrances Installation Manual for door installation.

Prior to snapping the assembled frames into the door jamb, the end of the sill flashing needs to be sealed to the door jamb.

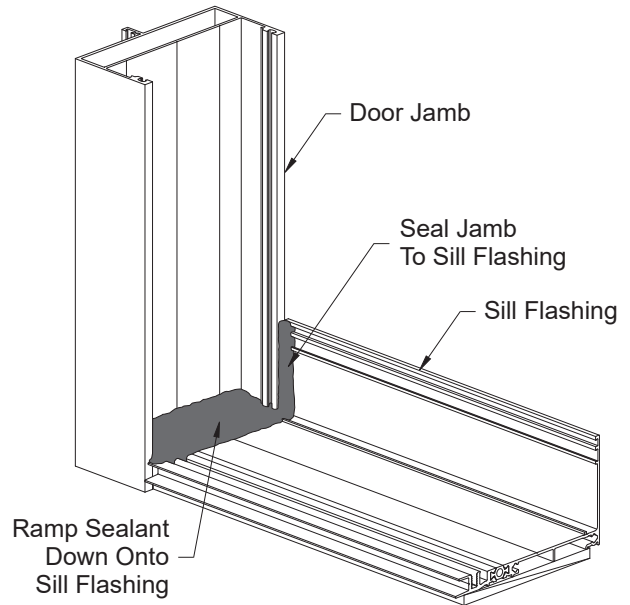
- Apply and tool sealant to all sill flashing to door jamb joints.
- Apply sealant to completely fill the door jamb cavity and ramp the sealant down onto the sill flashing.

See **Detail 54**.

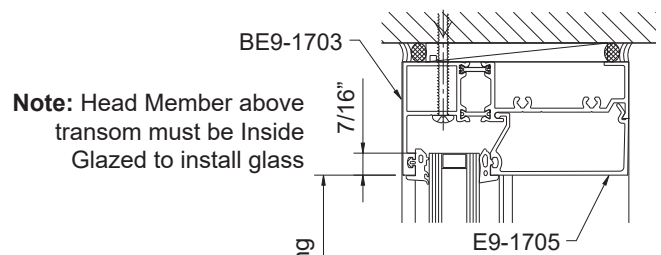
Glass sizes for transom areas are not the same as for standard YWW 45 T frames. See the table below and **Detail 49** for transom glass sizes.

Transom Glass Sizes:

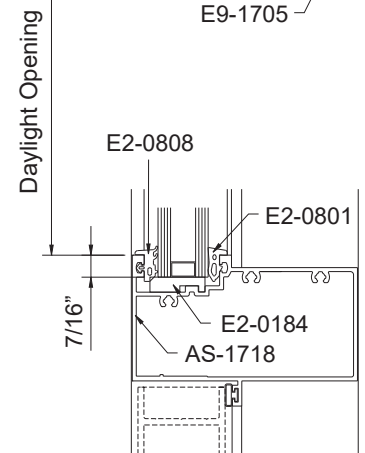
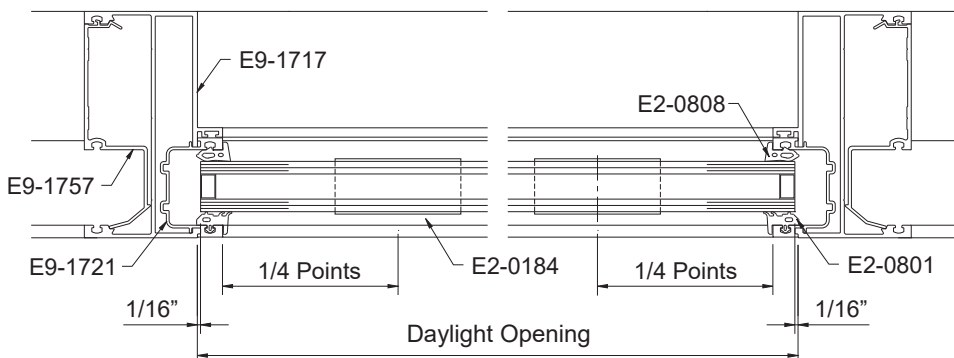
	Width	Height
Transom Glazing	D.L.O. - 1/8"	D.L.O. + 7/8"



DETAIL 54



DETAIL 55



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