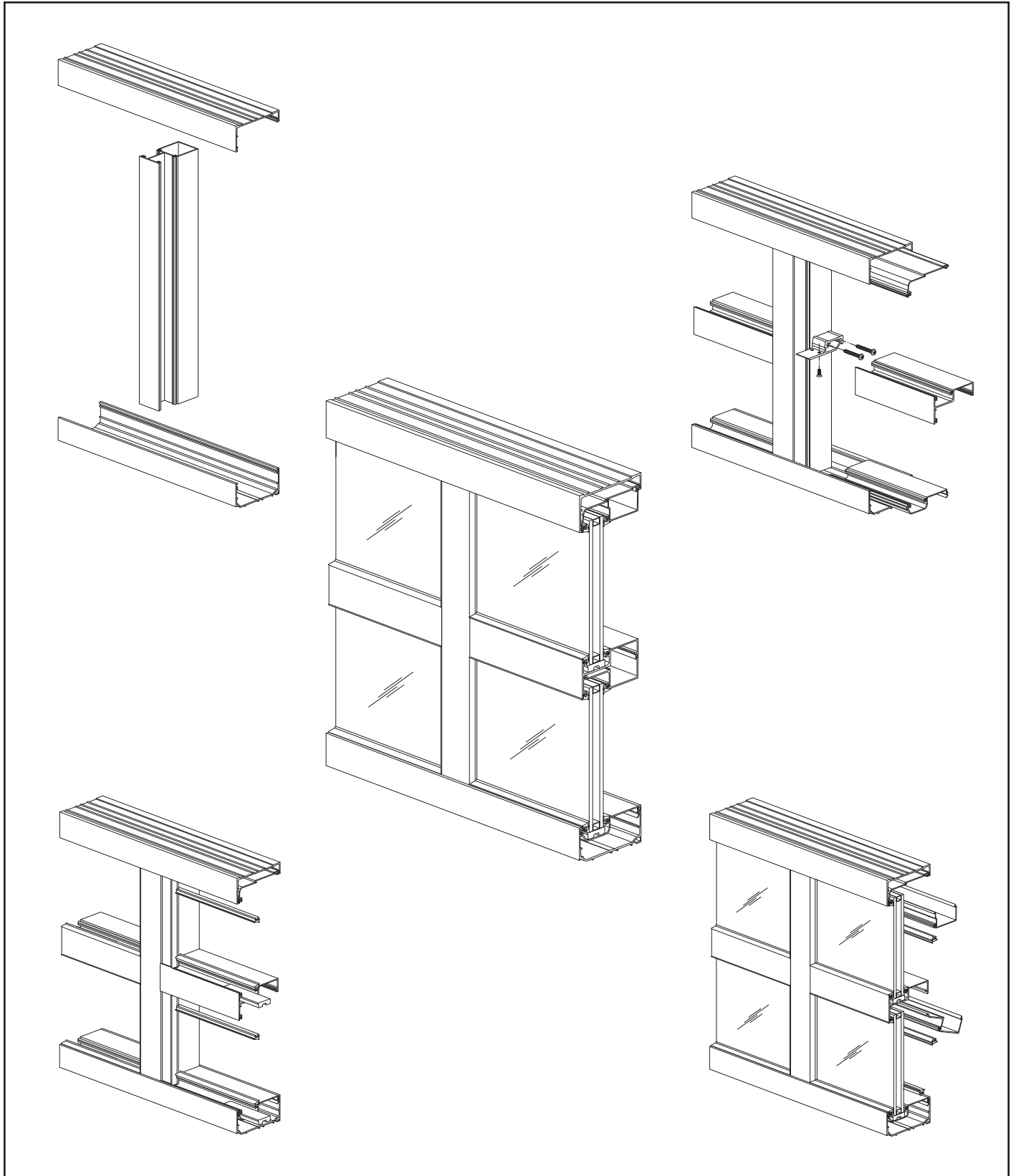


YCN 40 Window Wall Can System



Installation Manual

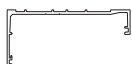
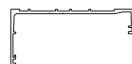




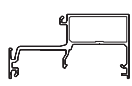
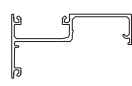




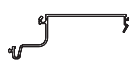
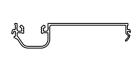


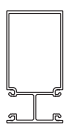
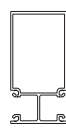


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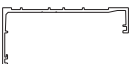
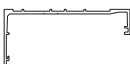




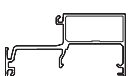
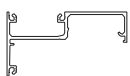




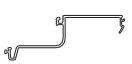
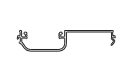


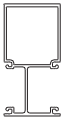
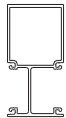




Installation Notes

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 quality and quantity 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 will 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 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 storefront and/or curtain wall framing is typically completed before drywall, flooring and other products which may still be in process. Take the extra time to wrap and protect the work produced.
13. Cutting tolerances are plus zero (0"), minus one thirty second (-1/32") unless otherwise noted.
14. Check our website, www.ykkap.com, for the latest installation manual update prior to commencing work.

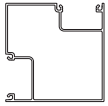
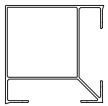

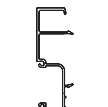
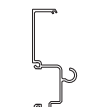


FRAMING MEMBERS

YCN 40 – 1/4" Outside Glazing			YCN 40 – 1/4" Inside Glazing		
	Head & Sill Receptor	E9-1403		Head Receptor	E9-1403
	Head Filler	E9-1404		Head Filler	E9-1404
	Glass Stop for E9-1404 Head Filler	E9-1406		Glass Stop For E9-1404 Head Filler	E9-1406
	Horizontal Requires E9-1040 for Top Lite of Glass	E9-1417		Horizontal Requires E9-1040 for Top Lite of Glass	E9-1407
	Interior Glass Stop For E9-1417 Horizontal	E9-1408		Glass Stop For E9-1407	E9-1429
	Exterior Glass Stop For E9-1417 Horizontal & E9-1420 Sill Filler	E9-1414		Sill Receptor	E9-1413
	Sill Filler	E9-1410		Sill Filler	E9-1405
	Jamb	E9-1402		Jamb	E9-1402
	Vertical	E9-1401		Vertical	E9-1401
	Glazing Adaptor For 3/16", 1/4", 5/16" & 3/8" glazing	E9-1040		Glazing Adaptor For 3/16", 1/4", 5/16" & 3/8" glazing	E9-1040



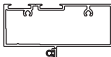
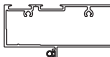


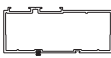
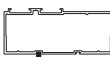













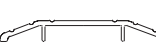
FRAMING MEMBERS

YCN 40 – 1” Outside Glazing			YCN 40 – 1” Inside Glazing		
	Head & Sill Receptor	E9-1403		Head Receptor	E9-1403
	Head Filler	E9-1404		Head Filler	E9-1404
	Glass Stop for E9-1404 Head Filler	E9-1416		Glass Stop For E9-1404 Head Filler	E9-1416
	Horizontal	E9-1417		Horizontal	E9-1407
	Interior Glass Stop For E9-1417 Horizontal	E9-1418		Glass Stop For E9-1407	E9-1430
	Exterior Glass Stop For E9-1417 Horizontal & E9-1420 Sill Filler	E9-1414		Sill Receptor	E9-1413
	Sill Filler	E9-1420		Sill Filler	E9-1415
	Jamb	E9-1412		Jamb	E9-1412
	Vertical	E9-1411		Vertical	E9-1411
	Glazing Adaptor For 5/8" & 3/4" glazing	E9-1039		Glazing Adaptor For 5/8" & 3/4" glazing	E9-1039
	Glazing Adaptor For 3/16", 1/4", 5/16" & 3/8" glazing	E9-1040		Glazing Adaptor For 3/16", 1/4", 5/16" & 3/8" glazing	E9-1040

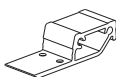
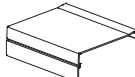

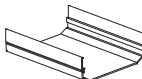






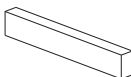




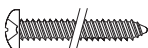



CORNER FRAMING MEMBERS

YCN 40 – All Variations				
	90° Outside Corner Mullion	E9-1433		
	90° Inside Corner Mullion Use with E9-1425 & E9-1040 adaptor	E9-1434		
	135° Corner Mullion	E9-1424		
	Pocket Filler For E9-1424 & E9-1434	E9-1425		
	Hinged Mullion Female	E9-1426		
	Outside Hinged Mullion Male	E9-1427		
	Inside Hinged Mullion Male	E9-1428		

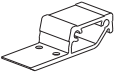
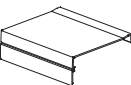

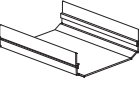

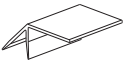


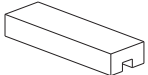

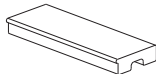




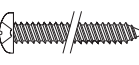



DOOR FRAMING MEMBERS

YCN 40 – 1/4" Outside & Inside Glazing			YCN 40 – 1" Outside & Inside Glazing		
	Single Acting Door Jamb Elastomer weathering E2-0051 included	AS-0479		Single Acting Door Jamb Elastomer weathering E2-0051 included	AS-0479
	Single Acting Transom Bar Elastomer weathering E2-0051 included	AS-0477		Single Acting Transom Bar Elastomer weathering E2-0051 included	AS-0477
	Double Acting Door Jamb	E9-0480		Double Acting Door Jamb	E9-0480
	Double Acting Transom Bar Pile weathering E2-0062 included	AS-0478		Double Acting Transom Bar Pile weathering E2-0062 included	AS-0478
	Intermediate Door Jamb Use with AS-0401	E9-9312		Intermediate Door Jamb Use with AS-0401	E9-9312
	Flush Door Jamb Filler Use with AS-0479 & E9-0480	E9-1890		Flush Door Jamb Filler Use with AS-0479 & E9-0480	E9-1889
	Transom Glass Stop	E9-0403		Transom Glass Stop	E9-0413
	Transom Glazing Pocket	E9-0434		Transom Glazing Pocket	E9-0435
	Door Stop Assembly Elastomer weathering E2-0051 included	AS-0401		Door Stop Assembly Elastomer weathering E2-0051 included	AS-0401
	Sash Base Use with E9-0403 or E9-0413	E9-0408		Sash Base Use with E9-0403 or E9-0413	E9-0408
	Threshold	E9-0407		Threshold	E9-0407

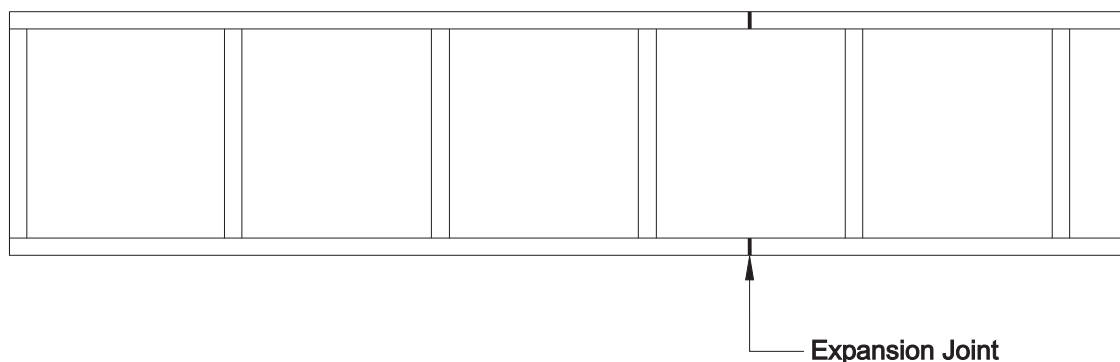
ACCESSORIES

YCN 40 – 1/4” Outside & Inside Glazing					
	Shear Block For E9-1407 Horizontal	E1-1000		Head/Sill Receptor Joint Sleeve For E9-1403 Head/Sill	E3-0008
	Shear Block For E9-1417 Horizontal	E1-1001		Sill Receptor Joint Sleeve For E9-1413 Sill	E3-0009
	Anchor Clip For Corner Mullions	E1-1005		Steel Reinforcing Use with E9-1401	E1-0163
	End Dam	E1-1019		Water Deflector For 1/4” Glazing	E2-0048
	Setting Block For Inside Glazing	E2-0054		#10 x 1/2” FHSMS Type B Zinc Plated Steel For attachment of Horizontal to Shear Block E1-1000	FB-1008
	Setting Block For Outside Glazing	E2-0111		#10 x 3/8” PHSMS Type AB Zinc Plated Steel For attachment of Splice Sleeve to Head/Sill Receptor	PC-1006
	Glazing Gasket See Glazing Table on Page 27 for Usage	E2-0052		#10 x 1/2” PHSMS Type AB Zinc Plated Steel For attachment of Horizontal to Shear Block E1-1001	PC-1008
	Glazing Gasket See Glazing Table on Page 27 for Usage	E2-0053		#12 x 1-3/4” PHSMS Type AB , Zinc Plated Steel For attachment of Shear Blocks to Vertical	PC-1228
	Glazing Gasket See Glazing Table on Page 27 for Usage	E2-0064			
	Elastomer Weathering Use with door Frame	E2-0051			
	Pile Weathering Use with door Frame	E2-0062			

ACCESSORIES
YCN 40 – 1" Outside & Inside Glazing

	Shear Block For E9-1407 Horizontal	E1-1000		Head/Sill Receptor Joint Sleeve For E9-1403 Head/Sill	E3-0008
	Shear Block For E9-1417 Horizontal	E1-1001		Sill Receptor Joint Sleeve For E9-1413 Sill	E3-0009
	Anchor Clip For Corner Mullions	E1-1005		Water Deflector For 1" Glazing	E2-0047
	End Dam	E1-1019		Steel Reinforcing Use with E9-1411	E1-0158
	Setting Block For Outside Glazing	E2-0020		#10 x 1/2" FHSMS Type B Zinc Plated Steel For attachment of Horizontal to Shear Block E1-1000	FB-1008
	Setting Block For Inside Glazing	E2-0040		#10 x 3/8" PHSMS Type AB Zinc Plated Steel For attachment of Splice Sleeve to Head/Sill Receptor	PC-1006
	Glazing Gasket See Glazing Table on Page 27 for Usage	E2-0052		#10 x 1/2" PHSMS Type AB Zinc Plated Steel For attachment of Horizontal to Shear Block E1-1001	PC-1008
	Glazing Gasket See Glazing Table on Page 27 for Usage	E2-0053		#12 x 1-3/4" PHSMS Type AB, Zinc Plated Steel For attachment of Shear Blocks to Vertical	PC-1228
	Glazing Gasket See Glazing Table on Page 27 for Usage	E2-0064			
	Elastomer Weathering Use with door Frame	E2-0051			
	Pile Weathering Use with door Frame	E2-0062			

FRAME FABRICATION



This product is designed for long continuous runs of glazing. The head and sill receptors run as continuous glass and mullion retainers. Hence, the expansion and contraction of these receptors can be considerable and must be provided for.

Horizontal masonry openings of 24 feet or less may be installed using single lengths of receptors because a large joint may be placed at each of the masonry jambs. These large (3/8" minimum) joints will adequately accommodate the thermal expansion.

Ribbon window installations longer than 24 feet should have expansion joints to accommodate for thermal expansion*. Refer to the shop drawings for the size and location of your expansion joints.

These joints need to be at the center of a glass lite opening.

Note: Head and sill receptors must be spliced at the same location.

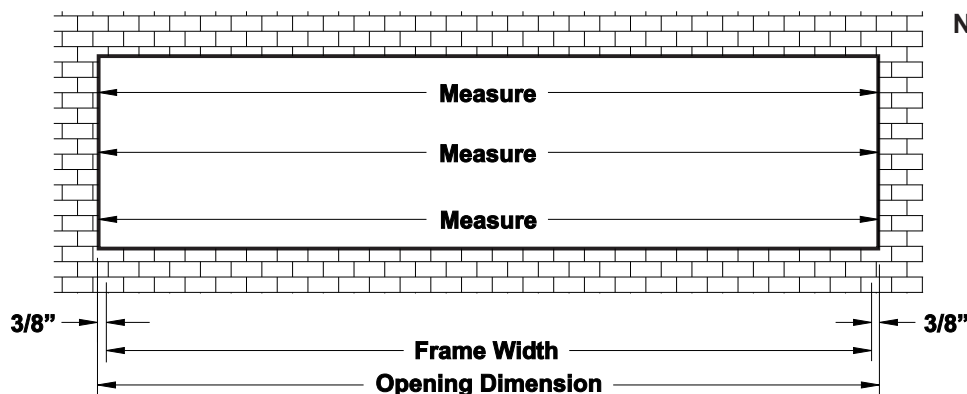
*Thermal Expansion = Temperature Difference (°F) x Length of Member (inches) x 0.0000125

Temperature Difference = Temperature Range from the Architectural Specifications or AAMA recommendations Minus(–) Room Temperature at Time of Fabrication

FRAME FABRICATION

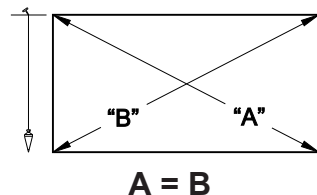
STEP 1

FABRICATE HEAD & SILL RECEPTORS



Detail 1

Note: Check opening for square-ness and plumb at both ends, units must be installed in a true rectangle.



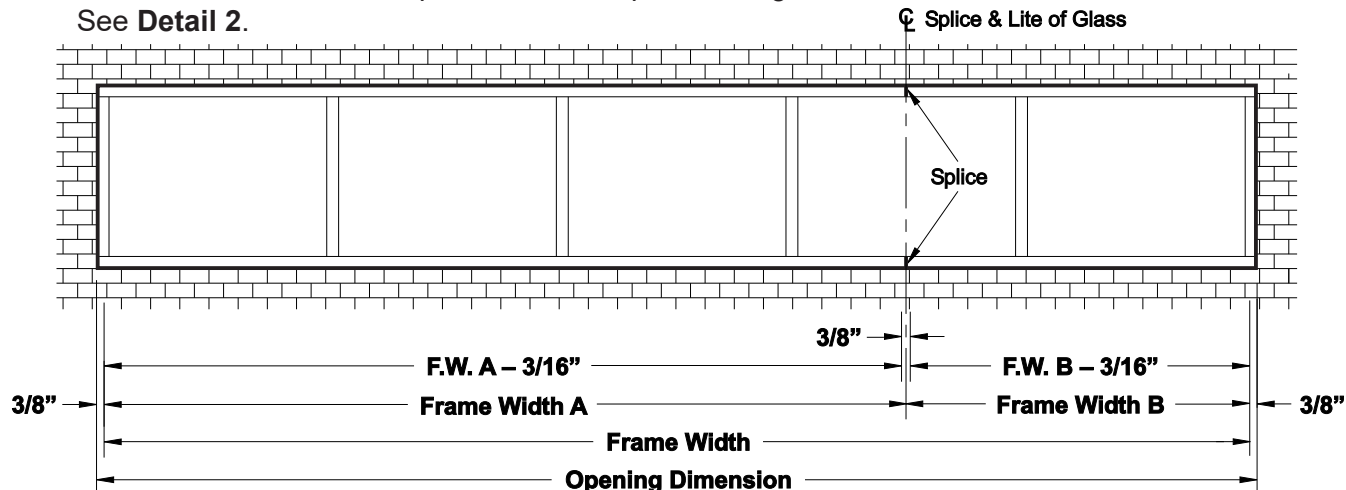
For openings less than 24'-0" (No Splices):

- Measure the opening width at the top, middle, and bottom of the opening. See **Detail 1**.
- Select the smallest dimension and subtract 3/4" of an inch (allows for 3/8" expansion at each jamb) to obtain the frame width.
- Cut the head and sill receptors to the frame width.

For openings greater than 24'-0" but less than 30'-0" (One Splice):

- Determine frame width as previously shown above (subtract 3/8" at each jamb).
- Splices should always occur in the center of a lite of glass. Always locate the splice in the head receptor at the same dimension as the splice in the sill receptor.
- Measure from the end of the frame to the centerline of splice.
- Subtract 3/16" from each half of the frame width.
- Cut the head and sill receptors to their respective lengths.

See **Detail 2**.

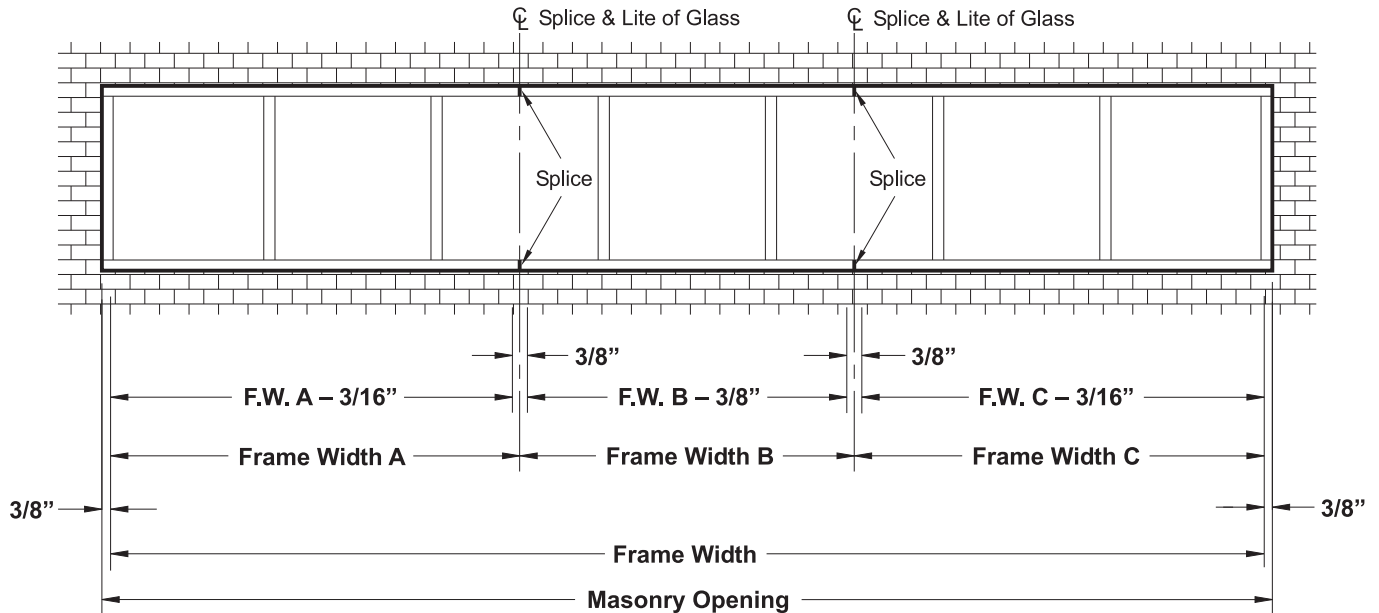


Detail 2

FRAME FABRICATION

Step 1 (Continued)

FABRICATE HEAD & SILL RECEPTORS



Detail 3

For openings 30'-0" or greater (More Than One Splice):

End Bays:

- Determine frame width as previously shown for no splices (subtract 3/8" at each jamb).
- Splices should always occur in the center of a lite of glass. Always locate the splice in the head receptor at the same dimension as the splice in the sill receptor.
- Measure from the end of the frame to the centerline of the first splice and subtract 3/16".
- Cut head and sill receptors to this dimension.

Center Bays:

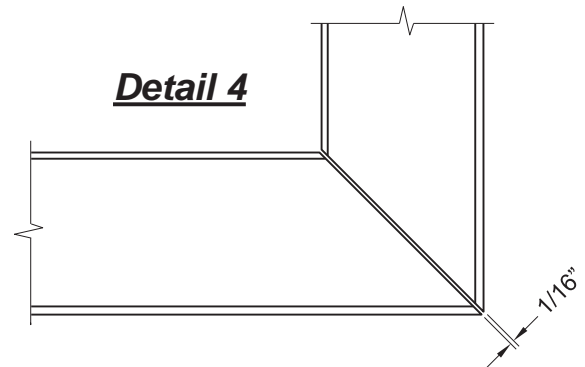
- Measure from centerline of one splice to the centerline of next splice and subtract 3/8".
- Cut head and sill receptors to this dimension.

See **Detail 3**.

Receptors at Corners:

If your project has corners, then the head and sill receptors are to be mitered. Leave a 1/16" gap between the mitered edges.

See **Detail 4**.



Note: 90° corner shown, other angles similar.

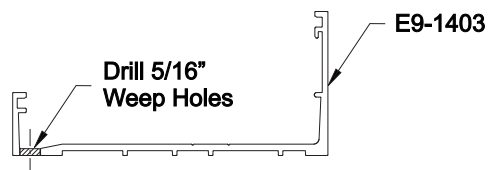
FRAME FABRICATION

STEP 2

FABRICATE WEEP HOLES IN SILL RECEPTOR

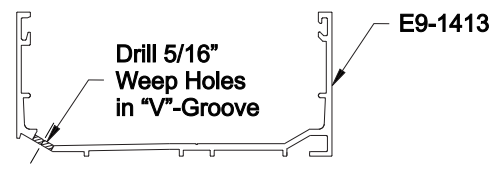
- Mark the sill receptors at 1/4 points of daylight opening between vertical members as shown below.
- Drill 5/16" diameter weep holes at each location marked.

See **Detail 5 & 6**.

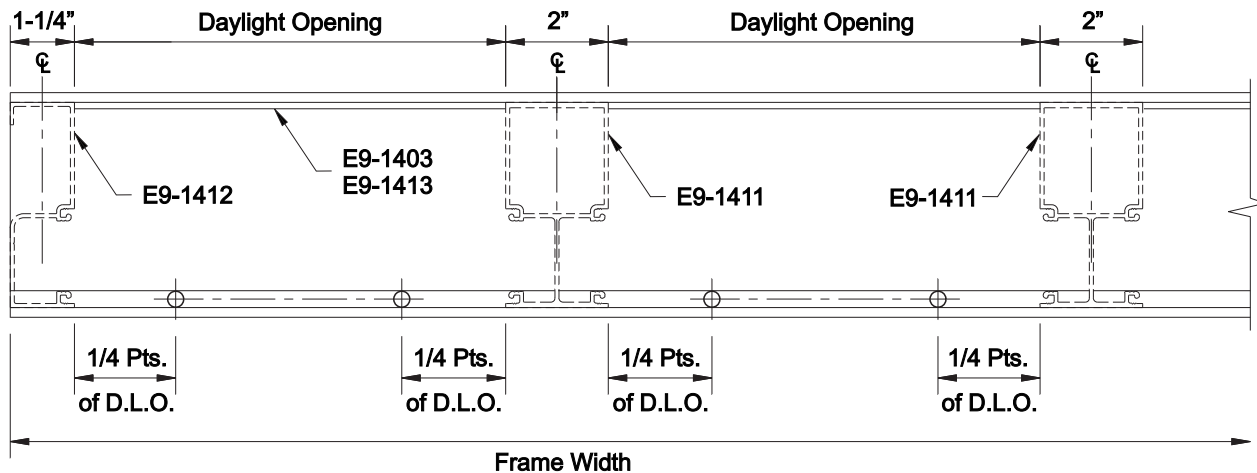


**YCN 40
OUTSIDE GLAZING**

Detail 5



**YCN 40
INSIDE GLAZING**



Detail 6

1" Glazing Shown
1/4" Glazing Similar

FRAME FABRICATION

STEP 3

FABRICATE VERTICAL MULLIONS FOR INSIDE GLAZING

Determine the frame height:

- Measure the masonry opening height several times along the length of the opening to obtain the smallest vertical dimension.

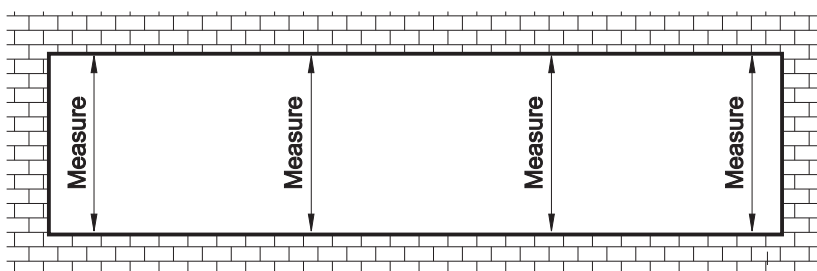
- Frame Height equals the smallest vertical dimension minus(-) $\frac{3}{4}$ ".

(Allow $\frac{3}{8}$ " minimum caulk joint at both the head and the sill.)

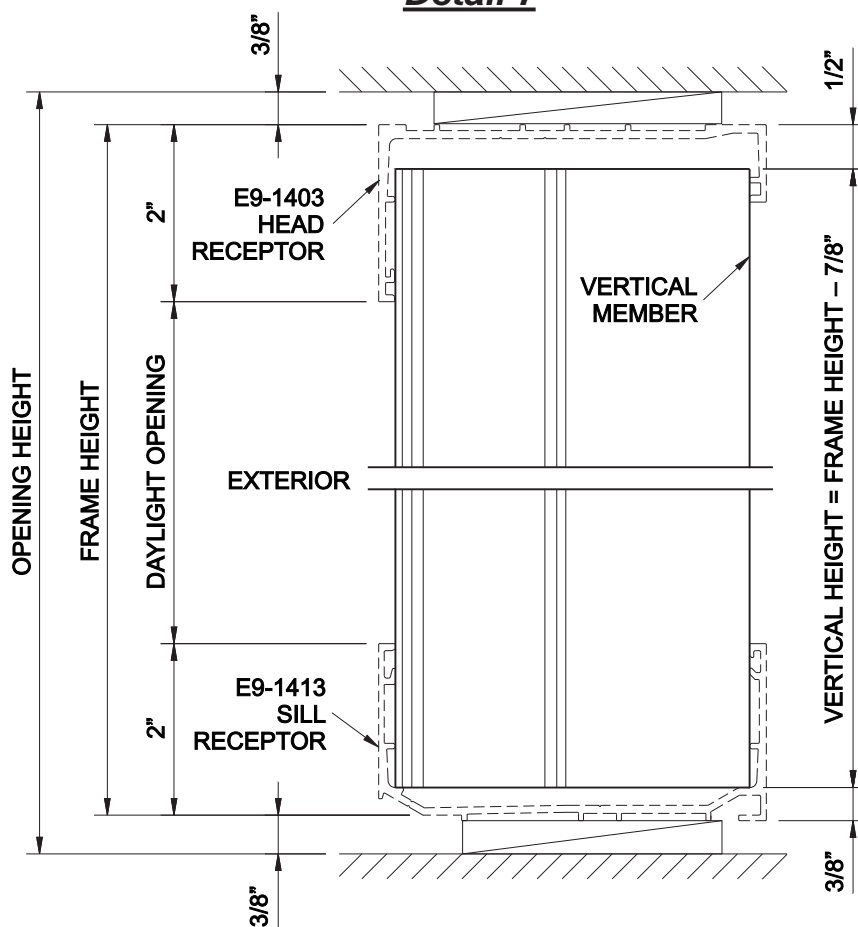
Cut vertical members:

- Vertical and jamb members must be fabricated to fit into the head and sill receptors.
- All vertical members to be cut to Frame Height minus(-) $\frac{7}{8}$ ".

See **Detail 7**.



Detail 7



FRAME FABRICATION

STEP 3 (Continued)

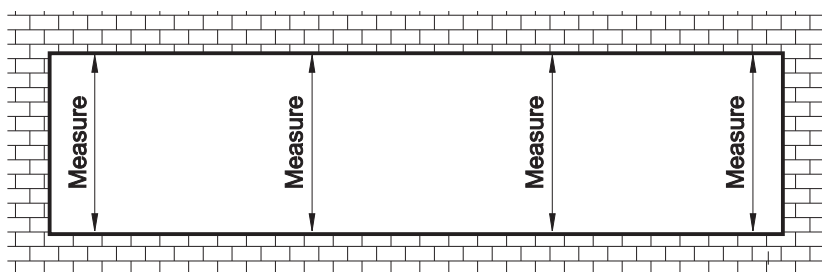
FABRICATE VERTICAL MULLIONS FOR OUTSIDE GLAZING

Determine the frame height:

- Measure the masonry opening height several times along the length of the opening to obtain the smallest vertical dimension.

- Frame Height equals the smallest vertical dimension minus(-) $\frac{3}{4}$ ".

(Allow $\frac{3}{8}$ " minimum caulk joint at both the head and the sill.)

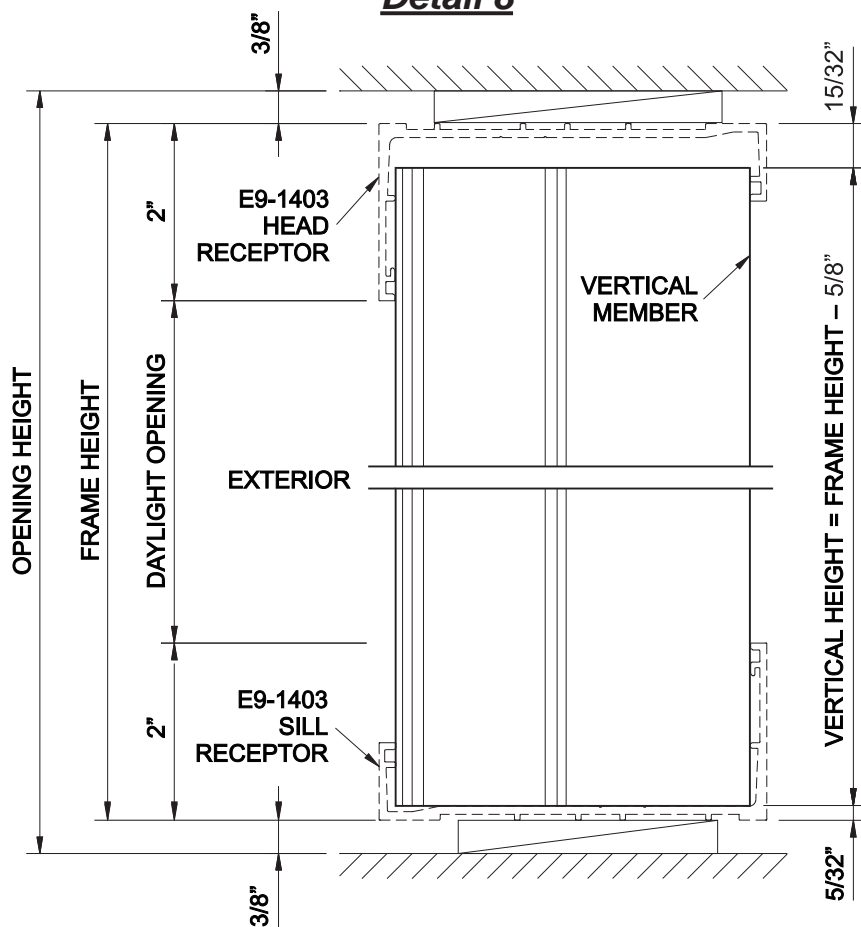


Cut vertical members:

- Vertical and jamb members must be fabricated to fit into the head and sill receptors.
- All vertical members to be cut to Frame Height minus(-) $\frac{5}{8}$ ".

See **Detail 8**.

Detail 8



FRAME FABRICATION

STEP 4

FABRICATE VERTICAL MULLIONS FOR SHEAR BLOCKS:

Shear blocks are required to attach intermediate horizontals to vertical and jamb members:

E1-1000 for inside glazing.

E1-1001 for outside glazing.

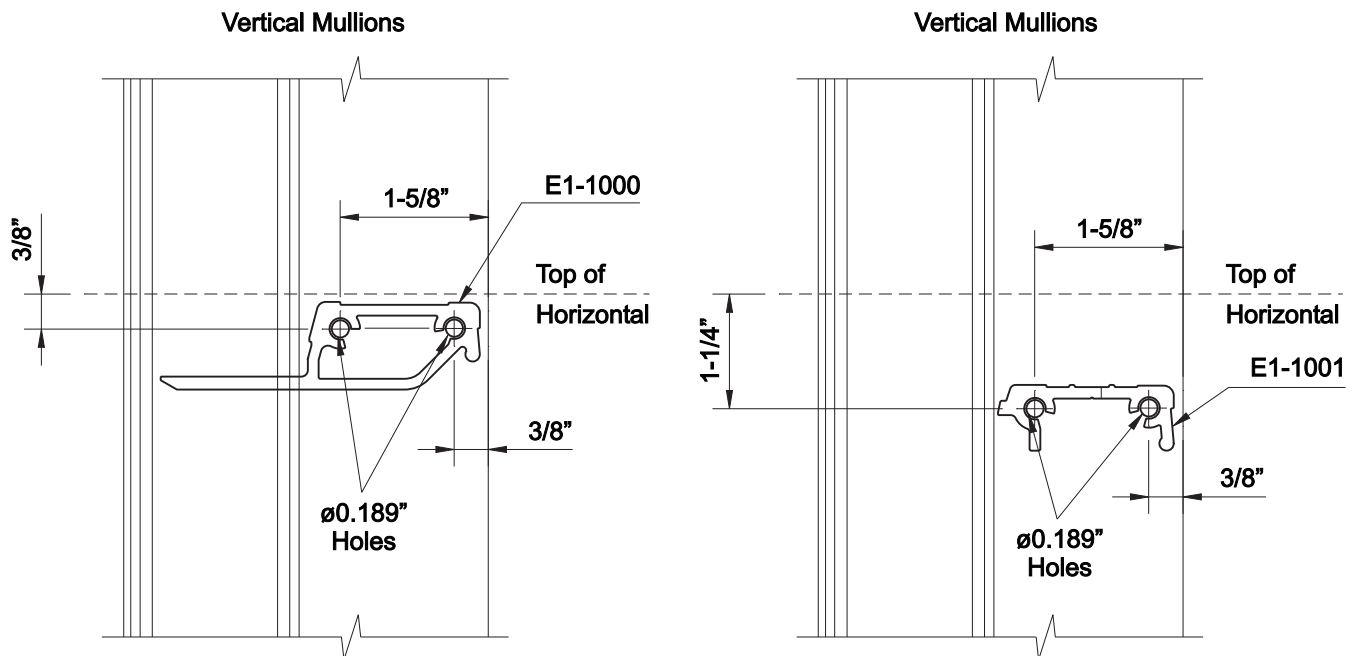
- Refer to shop drawings and mark a line on the side of the vertical at the top of each horizontal.
- Use a small piece of horizontal with a shear block attached as a template.
- Align the glazing pockets and mark the hole locations for the shear block onto the vertical.
- Drill a 0.189" (#12) diameter hole at each location marked.

OR

- Locate the top of the horizontal, measure down 3/8" for inside glazing or 1-1/4" for outside glazing, and draw a line across the side of the vertical using a small T-square.
- Mark the hole location for the back fastener 3/8" from the back of the mullion along the line.
- Mark the hole location for the front fastener 1-5/8" from the back of the mullion along the line.
- Use extreme care, the horizontal must be installed level.
- Drill a 0.189" (#12) diameter hole at each location marked.

- Attach horizontal shear blocks with two PC-1228 fasteners.

See **Detail 9**.



INSIDE GLAZING

Detail 9

1" Glazing Shown
1/4" Glazing Similar

OUTSIDE GLAZING

FRAME FABRICATION

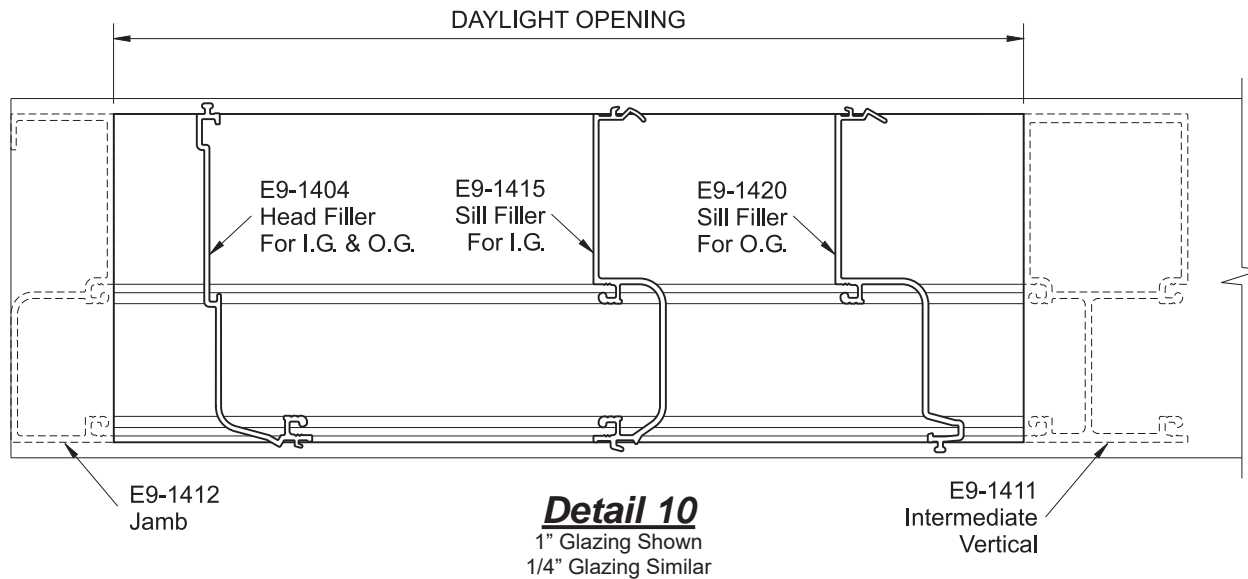
STEP 5

FABRICATE HORIZONTAL FRAMING MEMBERS

Fabrication of Head & Sill Receptor Fillers (Inside and Outside Glazing):

-Cut all head and sill fillers to the daylight opening dimension between vertical members.
(Tolerance plus 0", minus 1/32")

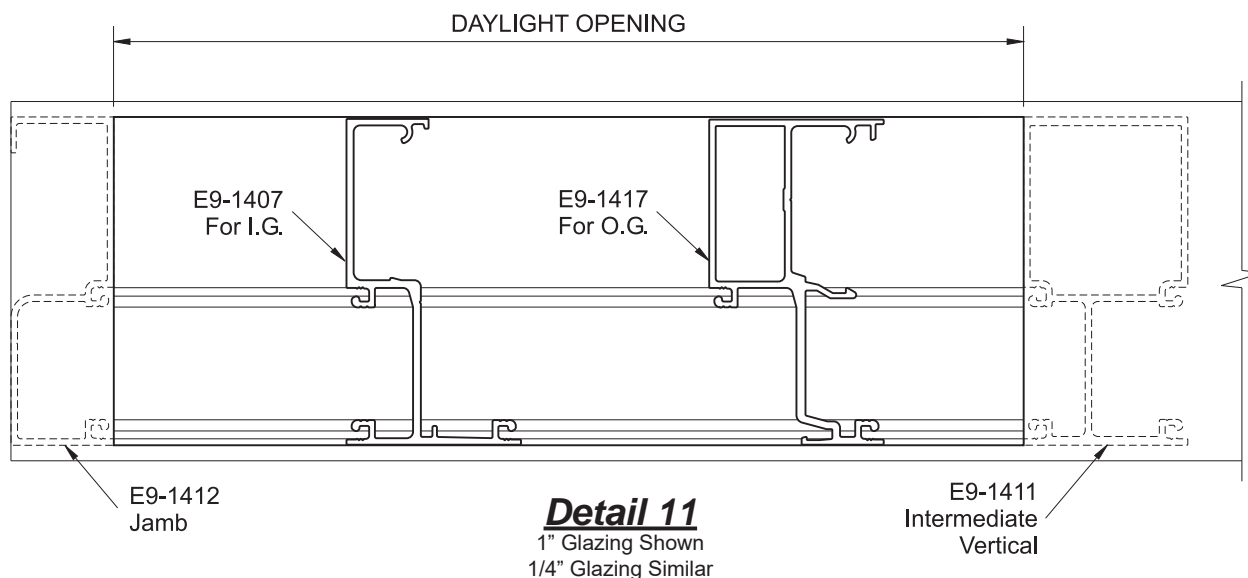
See **Detail 10**.



Fabrication of Intermediate Horizontals (Inside and Outside Glazing):

-Cut intermediate horizontals, E9-1407 (inside glazed) and E9-1417 (outside glazed), to the daylight opening dimension between vertical members. (Tolerance plus 0", minus 1/32")

See **Detail 11**.



FRAME FABRICATION

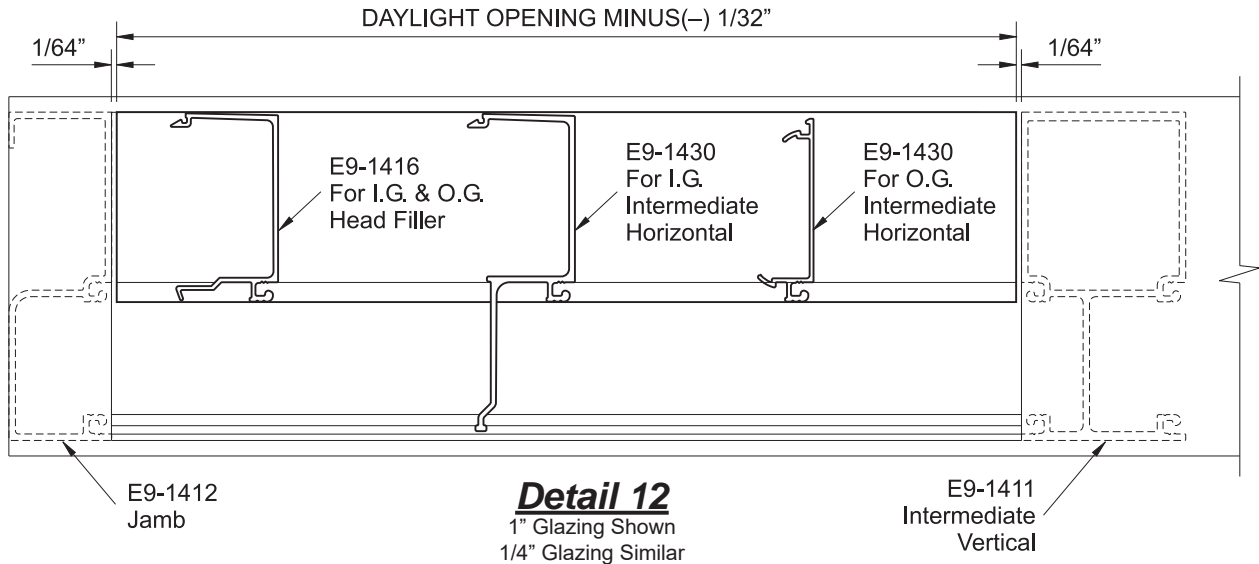
STEP 6

FABRICATE GLASS STOPS

Fabrication of Interior Glass Stops (Inside and Outside Glazing):

Head fillers require interior glass stops: E9-1406 for 1/4" glass and E9-1416 for 1" glass.
Intermediate horizontals require interior glass stops: E9-1408 (OG) and E9-1429 (IG) for 1/4" glass, E9-1418 (OG) and E9-1430 (IG) for 1" glass.

-Cut all interior glass stops to daylight opening minus(-) 1/32". See **Detail 12**.

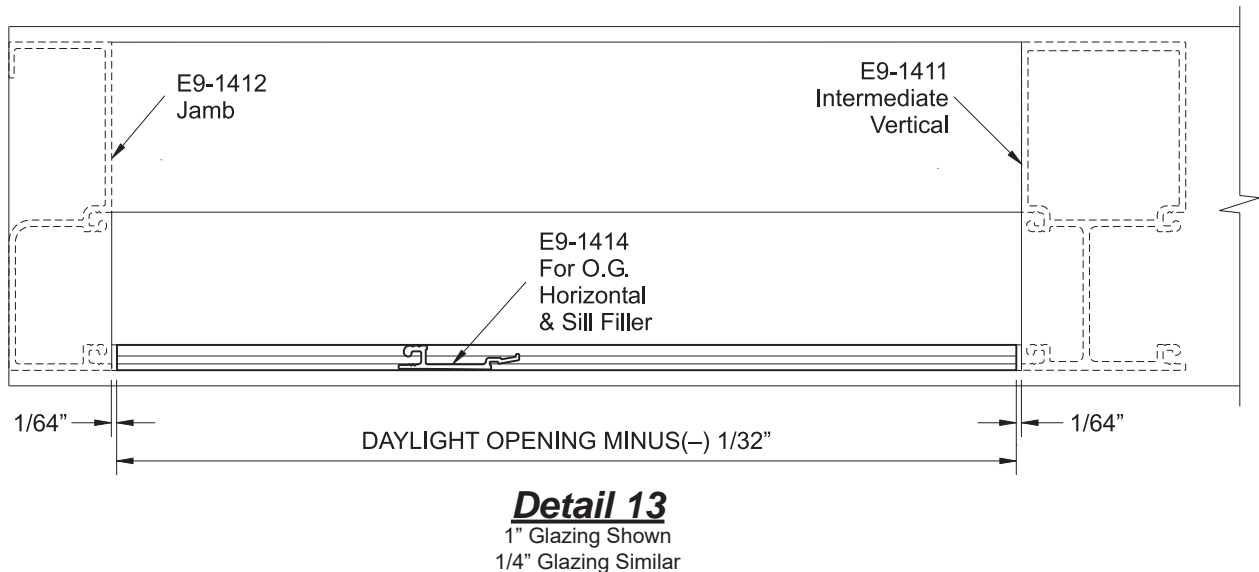


Fabrication of Exterior Stop for Intermediate Horizontal & Sill Filler (Outside Glazing):

Outside glazed intermediate horizontals and sill fillers require exterior glass stop, E9-1414.

-Cut all exterior glass stops to daylight opening minus(-) 1/32".

See **Detail 13**.



FRAME INSTALLATION

STEP 7

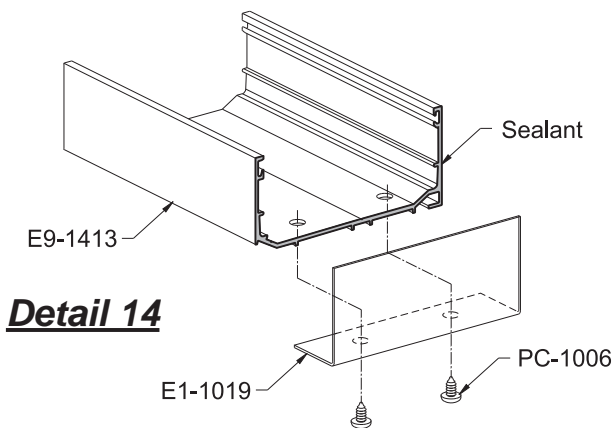
INSTALL HEAD & SILL RECEPTOR END DAMS

End dams are required at each end of head & sill receptors to provide a watertight installation.

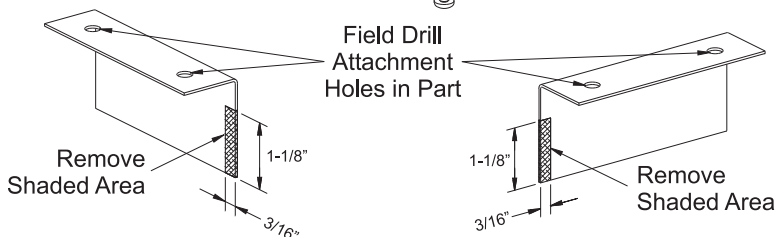
All head receptors and sill receptors for outside glazing need to be modified as shown in **Detail 14**.

- Apply sealant to the end of the receptor.
- Center the end dam, E1-1019, with the end of the head and sill receptor.
- Drill two 0.161" (#20) diameter holes through both end dam and receptor as shown.
- Fasten the end dam to the head & sill receptor using two PC-1006 fasteners.
- Apply and tool sealant between end dam and receptor to create a watertight joint.

See **Detail 15**.



Detail 14

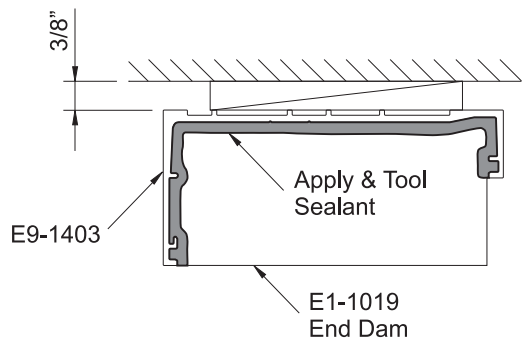


HEAD RECEPTOR - LEFT END

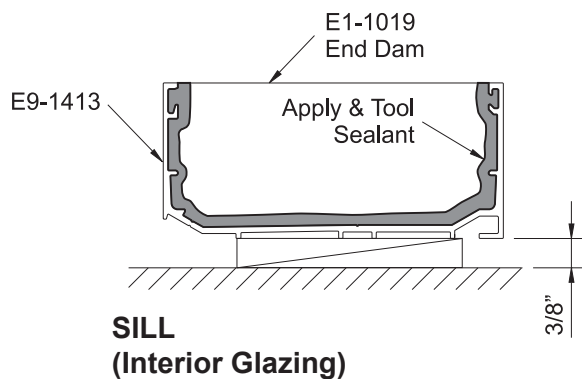
HEAD RECEPTOR - RIGHT END

**SILL RECEPTOR - RIGHT END
(OUTSIDE GLAZING ONLY)**

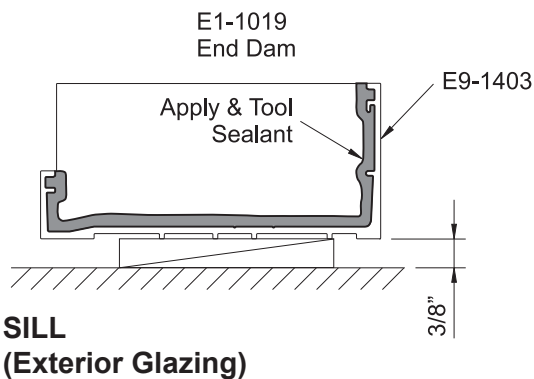
**SILL RECEPTOR - LEFT END
(OUTSIDE GLAZING ONLY)**



**HEAD
(Interior & Exterior Glazing)**



**SILL
(Interior Glazing)**



**SILL
(Exterior Glazing)**

Detail 15

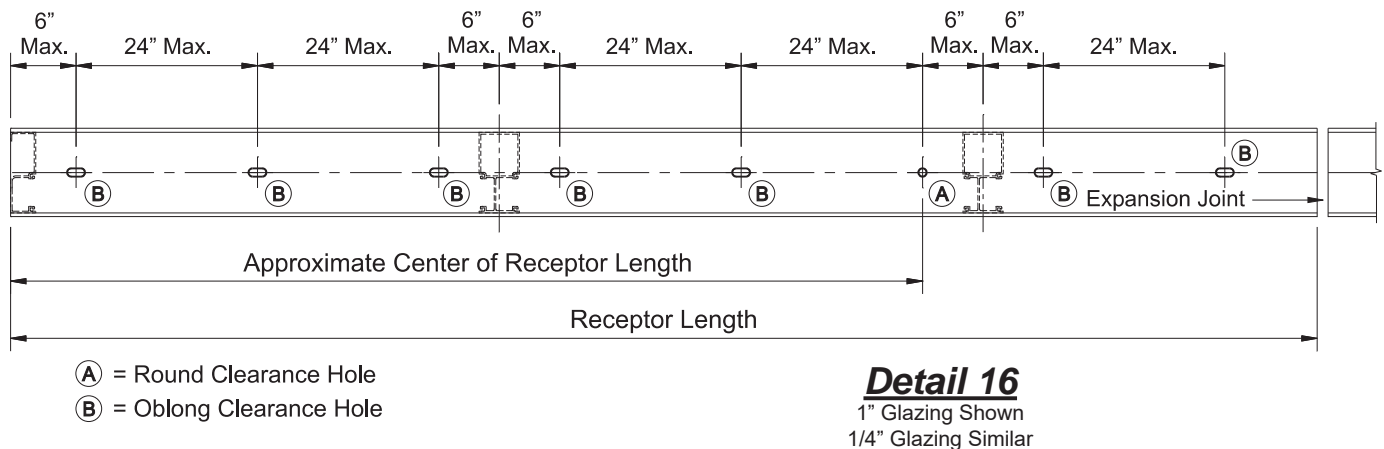
FRAME INSTALLATION

STEP 8

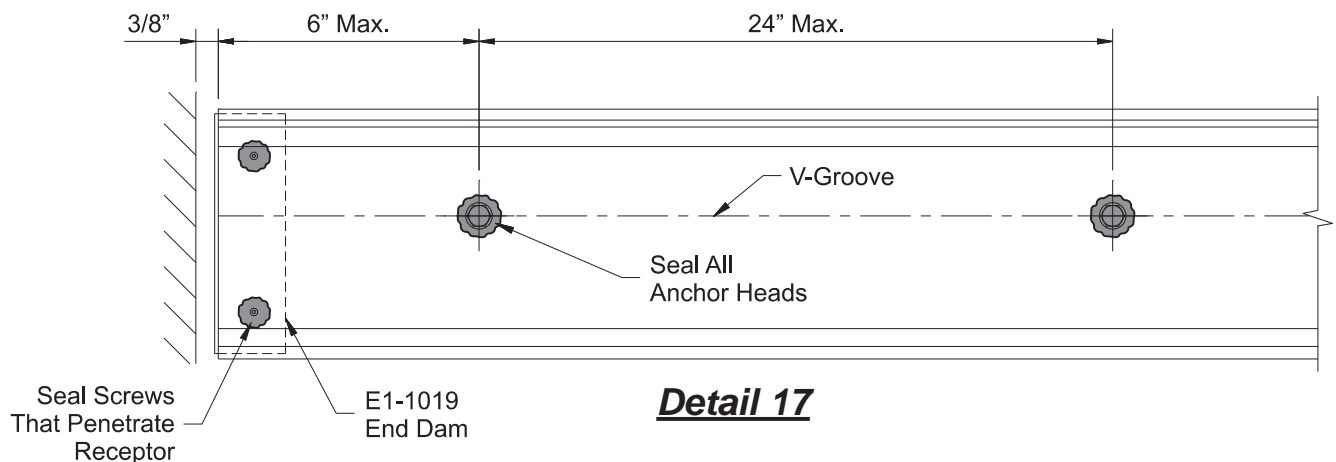
INSTALL HEAD & SILL RECEPTORS

- Using building control lines, locate inside face of head and sill receptors.
- Check the vertical opening height along the length of each opening and locate the smallest dimension.
- Begin installation at the smallest opening height with a minimum 3/8" shim between the masonry and the receptors.
- As anchoring proceeds, shim as necessary to keep receptors parallel and level.
- Locate anchors within 6" from each end of the receptor, within 6" of each side of vertical mullion centerline, and 24" on center maximum.
- Locate the approximate center of length of each individual receptor and drill a clear hole for anchor bolt. Check approved shop drawings for anchor bolt and clear hole size or contact YKK AP.
- All other anchor holes are to be oblong to allow for expansion and contraction. Do not drill larger clear holes.

See **Detail 16**.



- Seal all anchor heads and fasteners that penetrate the receptor.
- See **Detail 17**.



FRAME INSTALLATION

STEP 9

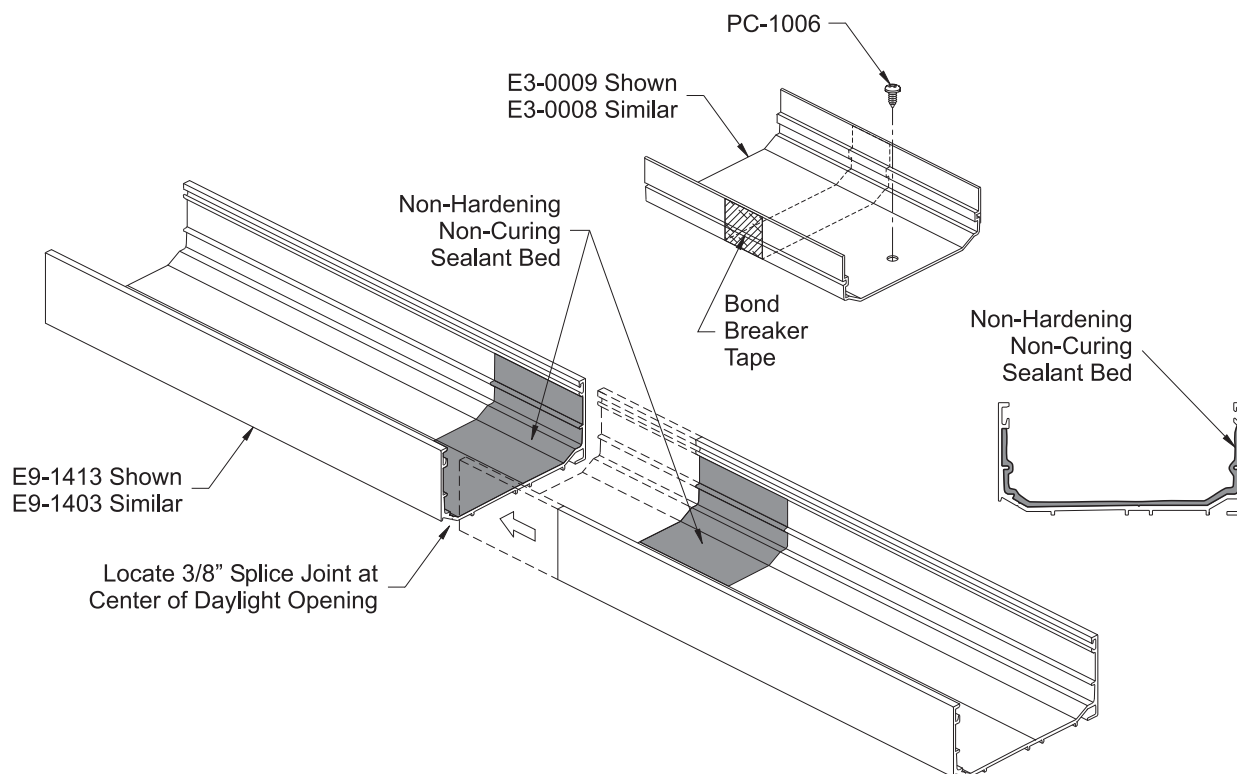
EXPANSION JOINTS AT HEAD & SILL RECEPTORS

Expansion Joints at Sill Receptors:

The expansion joint gaps in the sill receptor must be bridged with splice sleeves:

E3-0009 when using E9-1413 (inside glazing).

E3-0008 when using E9-1403 (outside glazing).



Detail 18

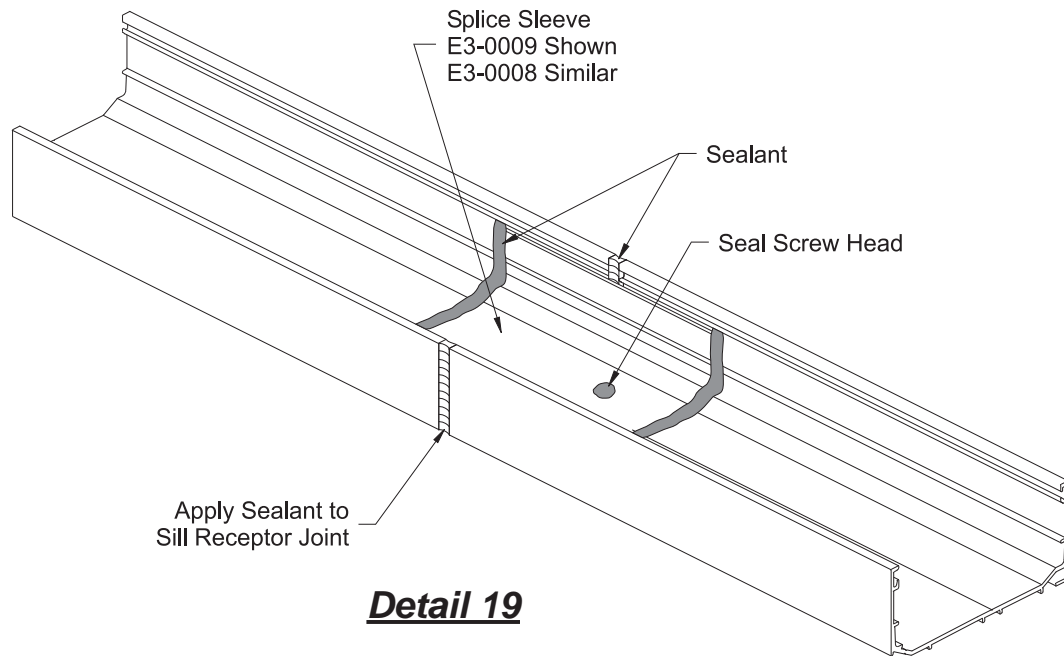
- Clean all sealant contact surfaces using a cleaner approved by sealant manufacturer.
- Apply bond breaker tape to the splice sleeve along the midpoint of the side facing the receptors.
- Spread a bed of non-hardening, non-curing sealant on the base and inside walls of the receptor where the splice sleeve will be placed.
- Place the splice sleeve into position, center the bond breaker tape over the joint, apply pressure, and tool the excess sealant over the edges of the splice sleeve.
- Fasten splice sleeve, on one side only, to receptor using one PC-1006 fastener.

See **Details 18 & 19**.

FRAME INSTALLATION

STEP 9 (Continued)

EXPANSION JOINTS AT HEAD & SILL RECEPTORS

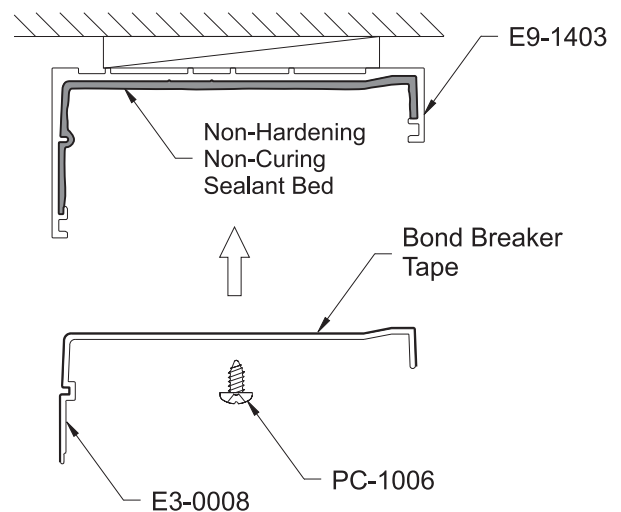


- Apply a bead of sealant along the expansion joint on the front and back of the receptor.
 - Tool the sealant to ensure a watertight joint.
 - Seal the exposed screw head from PC-1006 fastener.
- See **Detail 19**.

Expansion Joints at Head Receptors:

The expansion joint gaps in the head receptor must be bridged with splice sleeve, E3-0008.

- Apply bond breaker tape to the splice sleeve along the midpoint of the side facing the receptor.
 - Clean all sealant contact surfaces using a cleaner approved by sealant manufacturer.
 - Apply bed of non-hardening, non-curing sealant to the head receptor using the same technique used for the sill receptor splice.
 - Secure the splice sleeve, on one side only, to the head receptor using one PC-1006 fastener.
 - Apply sealant to the expansion joint on the front and back of the head receptor similar to the sill receptor.
 - Seal all exposed screw heads.
- See **Detail 20**.



Detail 20

FRAME INSTALLATION

STEP 10

INSTALL JAMB MULLIONS

- Apply sealant to head and sill receptor interior walls at the ends where the jambs are to be installed.
 - Install jamb into head and sill receptor.
 - Slide jamb toward end of receptor until contact is made with end dam.
 - Shim the jamb as required. Install anchors within 6" from each end and no more than 24" on center. Refer to approved shop drawings or contact YKK AP for anchor fastener requirements.
 - Apply sealant to the heads of all anchor fasteners.
 - Seal the jamb member to the receptors. Make sure excess sealant in head and sill filler reglets do not extend past the jamb member.
- See **Details 21 & 22**.

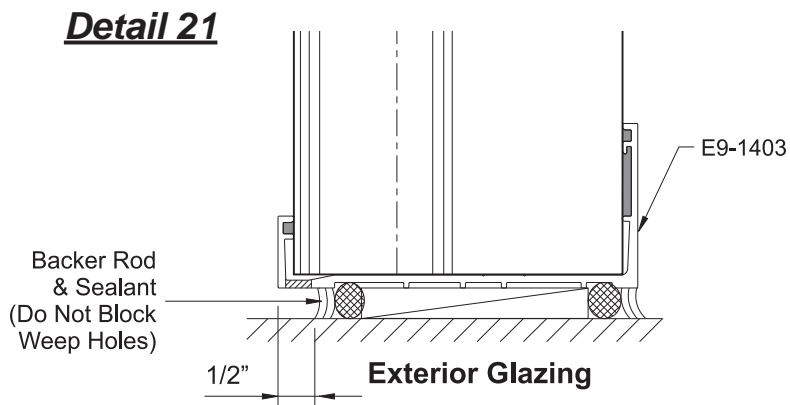
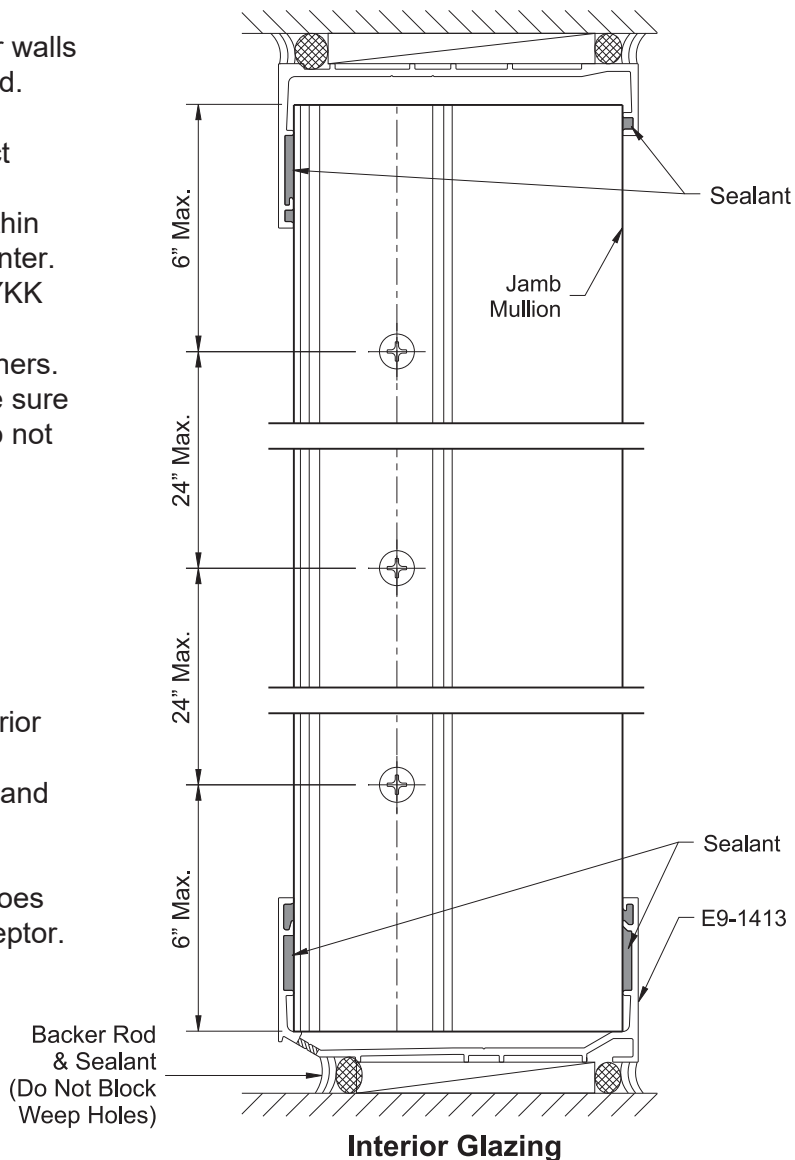
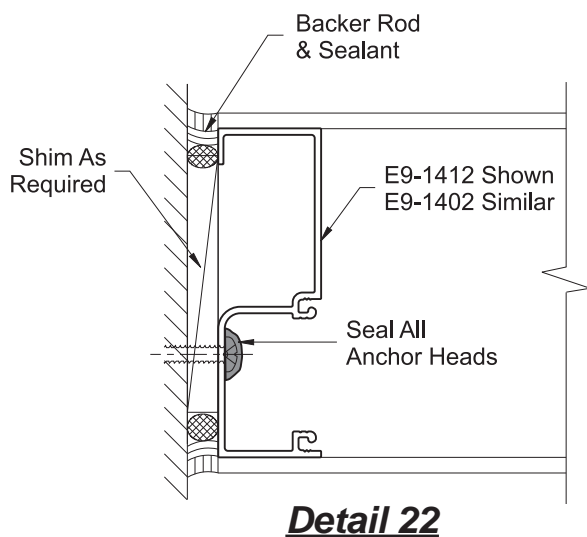
STEP 11

APPLY PERIMETER SEALANT

- Install backer rod around the exterior and interior perimeter of the frame.
- Apply a perimeter sealant between the frame and the structure.

Note: Make sure that the perimeter sealant does not block the weep holes at the sill receptor.

See **Detail 21 & 22**.

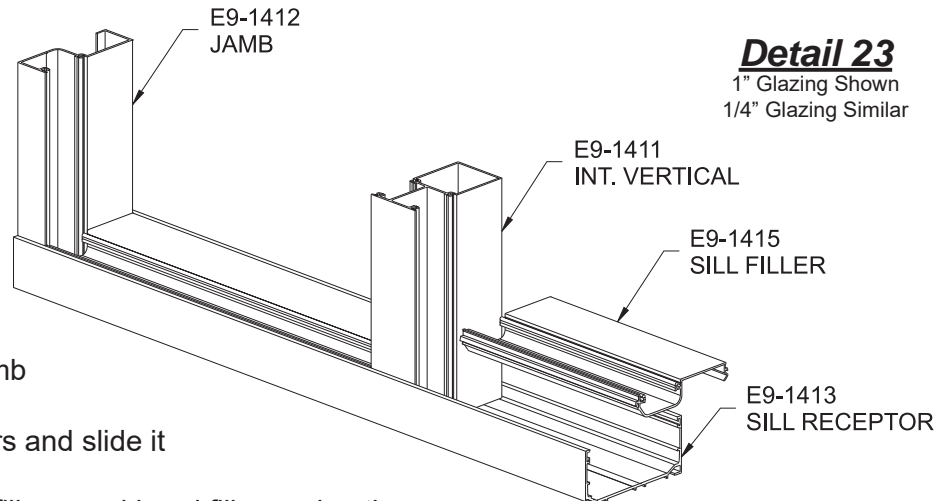


FRAME INSTALLATION

STEP 12 INSTALL VERTICAL MULLIONS

Once the jamb is anchored and sealed, proceed with the installation of the intermediate vertical mullions.

- Snap in the first sill filler, E9-1405 for 1/4" glazing or E9-1415 for 1" glazing, and slide it tight against the jamb mullion.
 - Snap in the first head filler, E9-1404, and slide it tight against the jamb mullion.
 - Stand the first vertical up into the head and sill receptors making sure that it is installed plumb and square.
 - Snap in the next sill and head fillers and slide it tight against the vertical mullion.
 - Install the rest of the verticals, sill fillers, and head fillers using the same technique described above. All verticals must be erected plumb and square.
- See **Detail 23**.

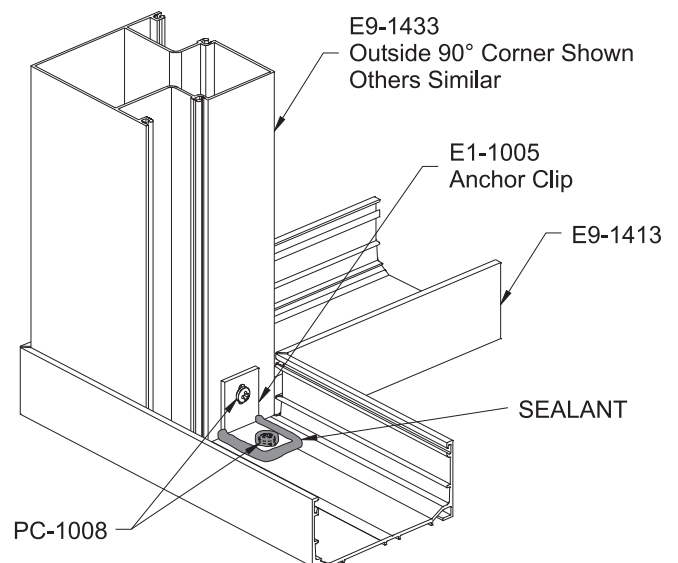


Detail 23
1" Glazing Shown
1/4" Glazing Similar

Caution: Check the centerline to centerline dimension every fifth vertical to avoid accumulating dimensional error.

STEP 13 INSTALL CORNER MULLIONS

- Assemble the corner framing members as required. See **Page 22** for available corner configurations.
 - Install corner mullion(s) into mitred head and sill receptor corners.
 - At all corners attach the corner mullion to the head and sill receptors with E1-1005 clips on each side of the mullion using two PC-1008 fasteners per clip.
 - Apply and tool sealant around the bottom of the clip, E1-1005, and the fasteners penetrating the sill.
 - Continue to install the rest of the verticals, sill fillers, and head fillers using the same method previously described in **Step 12**.
- See **Detail 24**.



Detail 24
1" Glazing Shown
1/4" Glazing Similar

FRAME INSTALLATION

STEP 13 (Continued) INSTALL CORNER MULLIONS

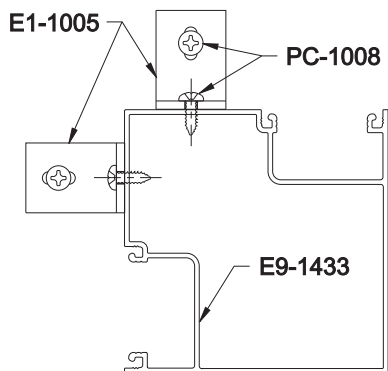
The following details show available corner configurations for the YCN 40 system.

Corners are shown for 1" insulated glazing and are applicable for inside or outside glazing.

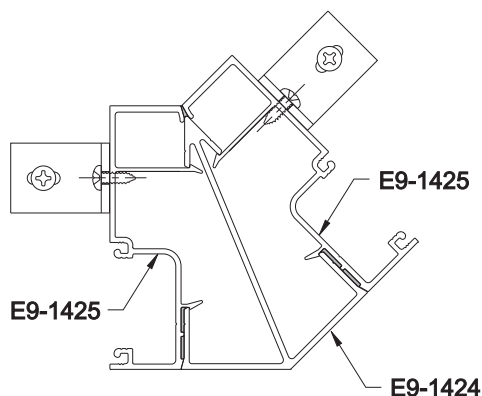
-If single glazing is required install appropriate glazing adaptors.

-Apply sealant to areas that are shaded gray.

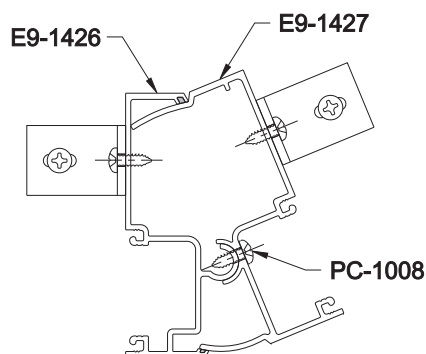
-Hinged mullions require that fasteners, PC-1008, be installed through the ball joint 6" from each end and 18" on center.



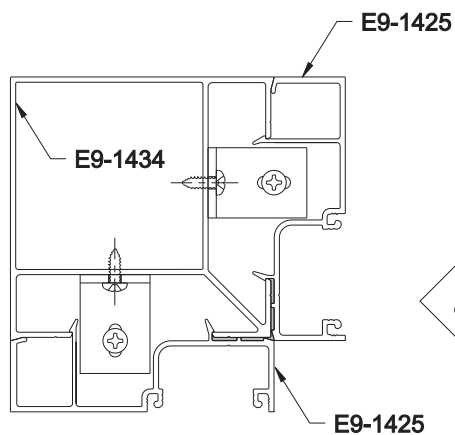
90° OUTSIDE CORNER



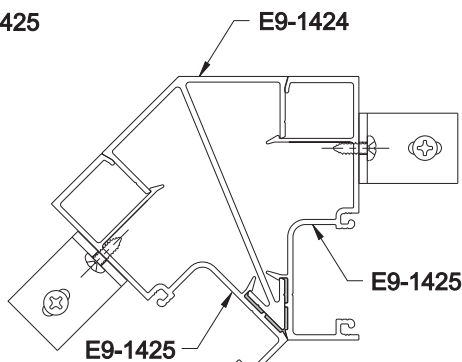
135° OUTSIDE CORNER



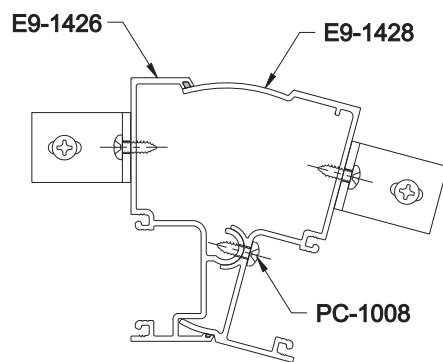
4° - 22.5° OUTSIDE CORNER



90° INSIDE CORNER



135° INSIDE CORNER



3° - 15° INSIDE CORNER

Detail 25

FRAME INSTALLATION

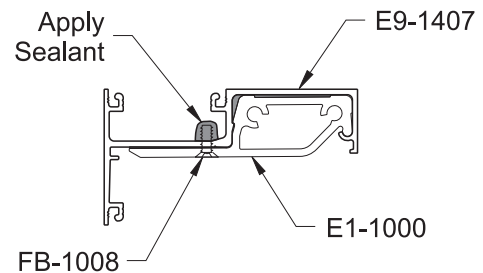
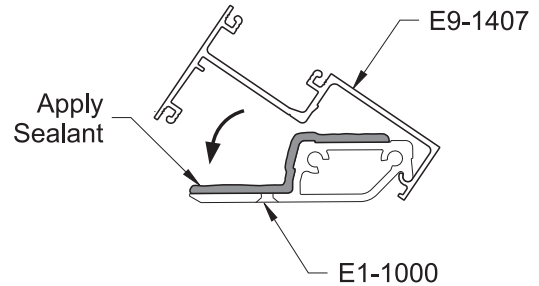
STEP 14

INSTALL INTERMEDIATE HORIZONTALS

For Inside Glazing:

- Once all of the verticals have been installed, apply a bead of sealant along the top of the shear block, E1-1000, where it meets the vertical.
- Immediately after applying the sealant, rotate the horizontal onto the shear block making sure that the horizontal glazing pocket is aligned with the vertical glazing pocket.
- The shear block already has two countersunk holes drilled in the underside of the leg that extends under the glazing pocket. Using the farthest hole from the vertical mullion, match drill a 0.161" (#20) diameter hole at each end of the horizontal.
- Attach the horizontal to the shear block using one FB-1008 fastener at each end.
- Tool the sealant into the vertical and horizontal mullion joint and wipe away any excess sealant.
- Seal the ends of the fasteners that penetrate the glazing pocket of the horizontal.

See **Detail 26**.



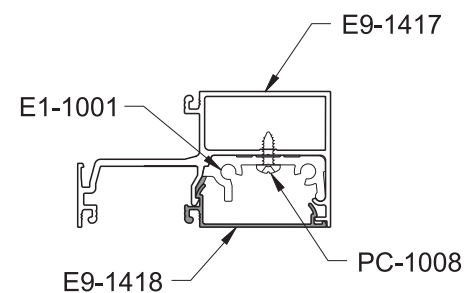
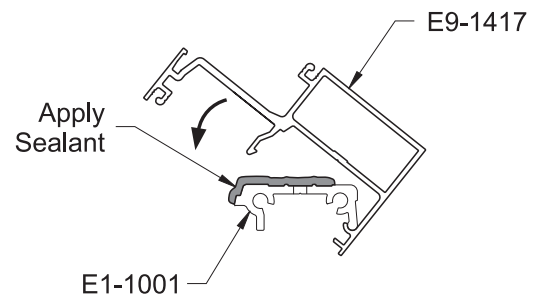
Detail 26

1" Glazing Shown
1/4" Glazing Similar

For Outside Glazing:

- Once all of the verticals have been installed, apply a bead of sealant along the top of the shear block, E1-1001, where it meets the vertical.
- Immediately after applying the sealant, rotate the horizontal onto the shear block making sure that the horizontal glazing pocket is aligned with the vertical glazing pocket.
- The shear block already has two holes drilled in the center of the block. Using the farthest hole from the vertical mullion, match drill a 0.161" (#20) diameter hole at each end of the horizontal.
- Attach the horizontal to the shear block using one PC-1008 fastener at each end.
- Apply sealant to the ends of the interior glass stop, E9-1408 (1/4" glazing) or E9-1418 (1" glazing), and snap it into place.
- Tool the sealant into the vertical and horizontal mullion joint and wipe away any excess sealant.

See **Detail 27**.



Detail 27

1" Glazing Shown
1/4" Glazing Similar

FRAME INSTALLATION

STEP 15

APPLY EXTERNAL SEALANT

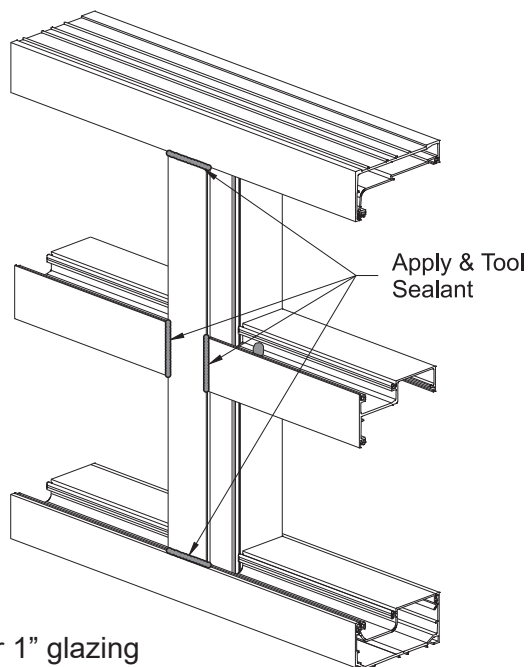
All external metal to metal joints must be sealed.

Apply and tool sealant to the following areas:

- The intersection of the jambs and verticals with the head and sill receptors.
- The intersection of the jambs and verticals with the intermediate horizontals.

See **Detail 28**.

Detail 28
1" Glazing Shown
1/4" Glazing Similar



STEP 16

INSTALL WATER DEFLECTORS

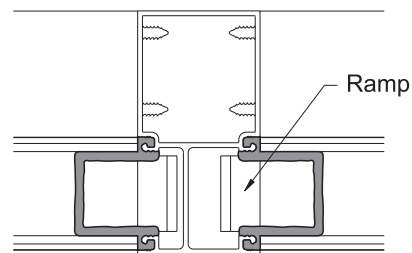
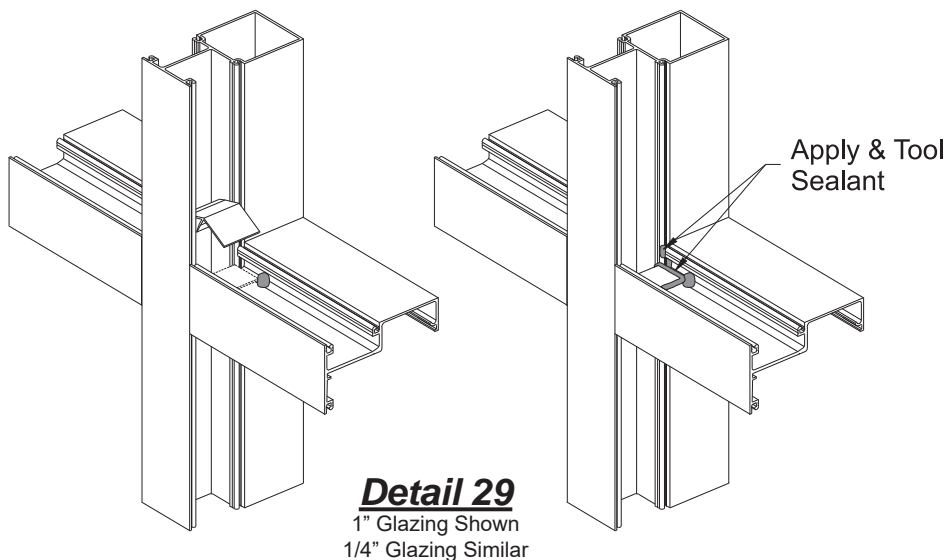
YCN 40 requires the installation of a water deflector, E2-0047 for 1" glazing or E2-0048 for 1/4" glazing, at the ends of every intermediate horizontal.

- Peel away the protective paper from the bottom of the water deflector, E2-0047, and install the water deflector by rotating it over each end of the horizontal.
- Position the vertical leg of the water deflector against the end of the horizontal.

Note: For best adhesion, make sure that the horizontal is clean and dry.

- Apply and tool sealant along the edges of the water deflector, down onto the horizontal, and up the vertical.
- Seal the ramp of the water deflector to the sides of the vertical gasket reglets.

See **Details 29 & 30**.



Detail 30
1" Glazing Shown
1/4" Glazing Similar

GLAZING

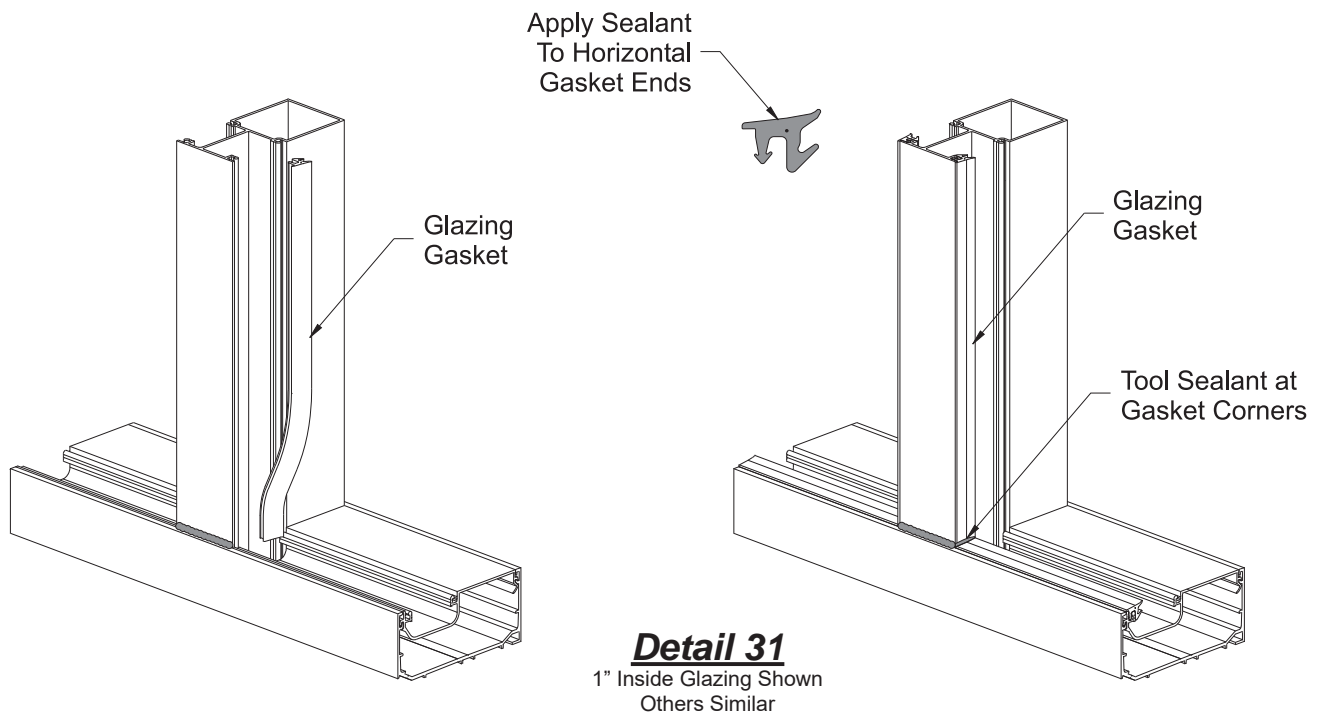
STEP 17 INSTALL GLAZING GASKETS

For inside glazing: the exterior glazing gaskets must be installed prior to the glazing process.
For outside glazing: the interior glazing gaskets must be installed prior to the glazing process.

-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 exterior glazing gaskets to Daylight Opening plus(+) 3/16" 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.



Install horizontal glazing gaskets next:

- Cut horizontal exterior glazing gaskets to Daylight Opening plus(+) 3/16" 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 reglets at each end first; push each end tight against the vertical gasket.
- Then insert the gasket at the midpoint of the opening and 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 31**.

GLAZING

STEP 18 INSTALL GLASS

-Install setting blocks at 1/4 points of horizontal D.L.O. or according to engineering calculations :

E2-0054 for 1/4" inside glazing.

E2-0111 for 1/4" outside glazing.

E2-0040 for 1" inside glazing.

E2-0020 for 1" outside glazing.

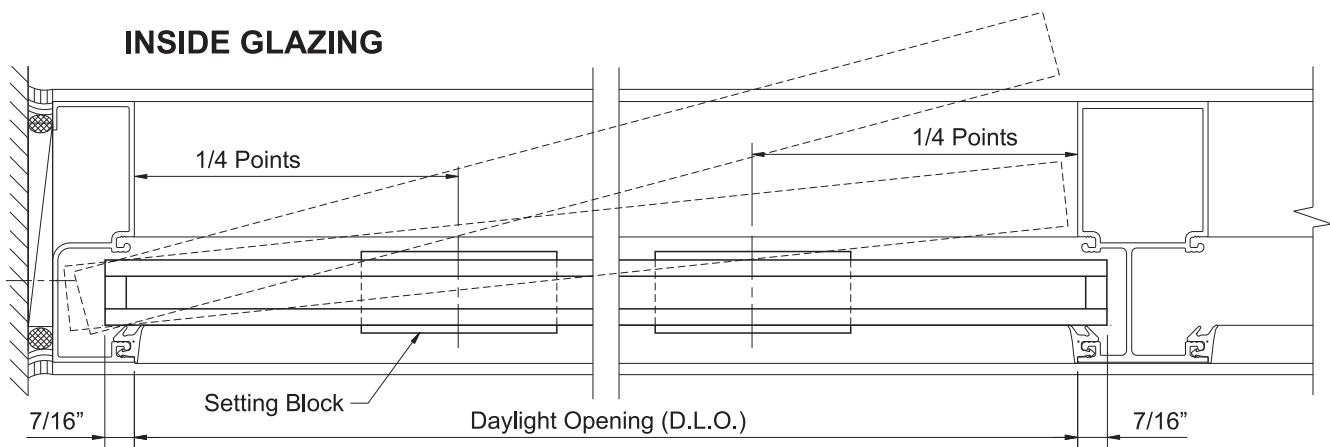
-Begin installation of glass at one end and work towards the opposite end.

To clear the opening width, insert one end of the glass into the vertical deep pocket, rotate the glass into the opening, and slide the glass towards the shallow pocket to maintain the 1/2" glass bite.

-Use a short piece of glazing gasket installed on the sides of the verticals to temporarily hold the glass.

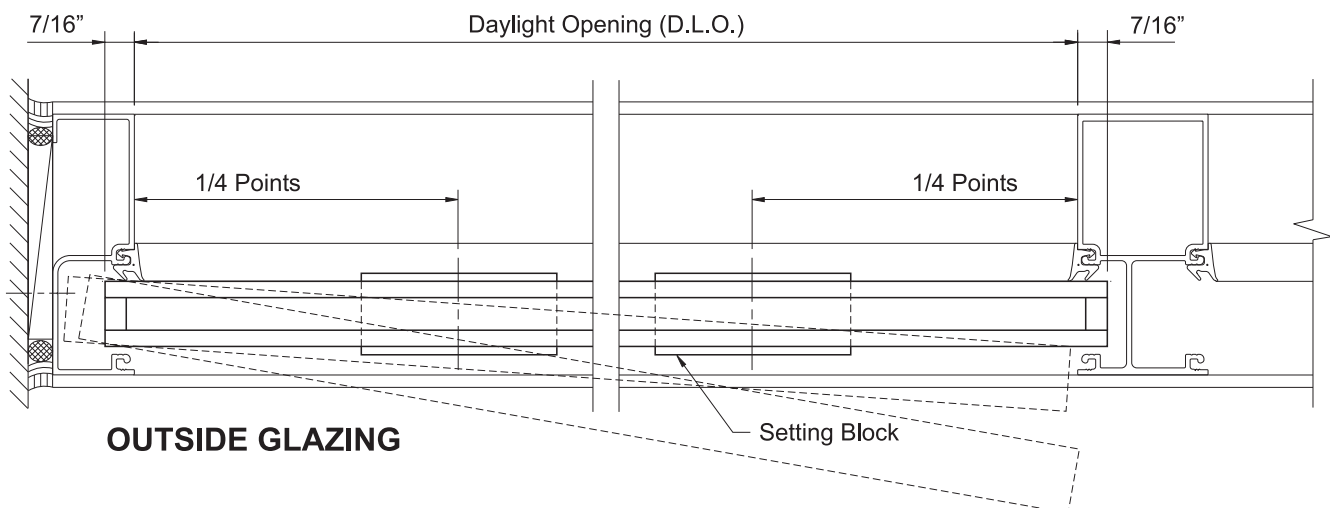
-Continue glass installation until all units are in place.

See **Detail 32**.



Detail 32

1" Glazing Shown
1/4" Glazing Similar



GLAZING

STEP 19 INSTALL GLASS STOPS

- Apply non-hardening 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 vertical to ensure a watertight seal and wipe away any excess sealant.
- See **Detail 33 & 34**.

- Cut vertical and horizontal glazing gaskets to the same dimension as described in **Step 17**.
- Install the vertical and horizontal glazing gaskets using the same technique described in **Step 17**.

Note: Always install vertical glazing gaskets first.

GLASS SIZES

TYPICAL UNITS:

Horizontal Glass Size = D.L.O. plus(+) 7/8"

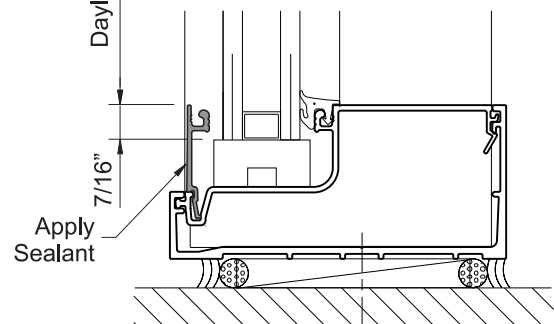
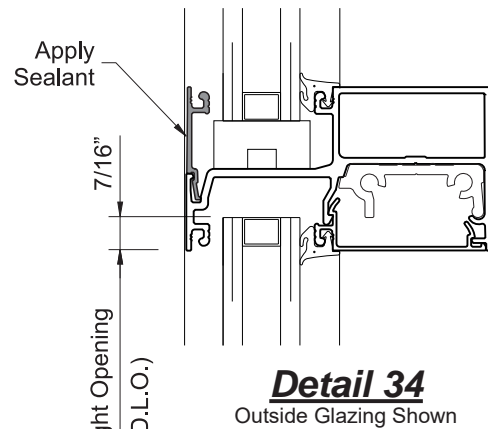
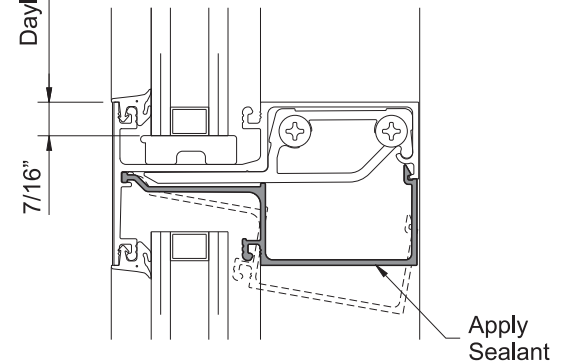
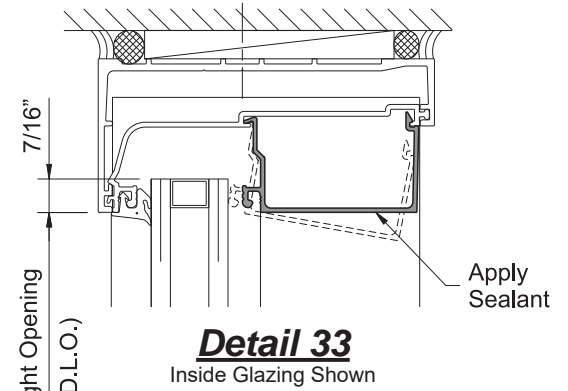
Vertical Glass Size = D.L.O. plus(+) 7/8"

CORNER UNITS:

Consult shop drawings for dimensions

Glazing Table

Glass Thickness	Adaptor	Exterior	Interior
3/16"	E9-1040	E2-0052	E2-0064
1/4"	E9-1040	E2-0052	E2-0052
5/16"	E9-1040	E2-0053	E2-0052
3/8"	E9-1040	E2-0053	E2-0053
1/2"	E9-1039	E2-0064	E2-0064
5/8"	E9-1039	E2-0052	E2-0052
3/4"	E9-1039	E2-0053	E2-0053
7/8"	—	E2-0064	E2-0064
1"	—	E2-0052	E2-0052





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