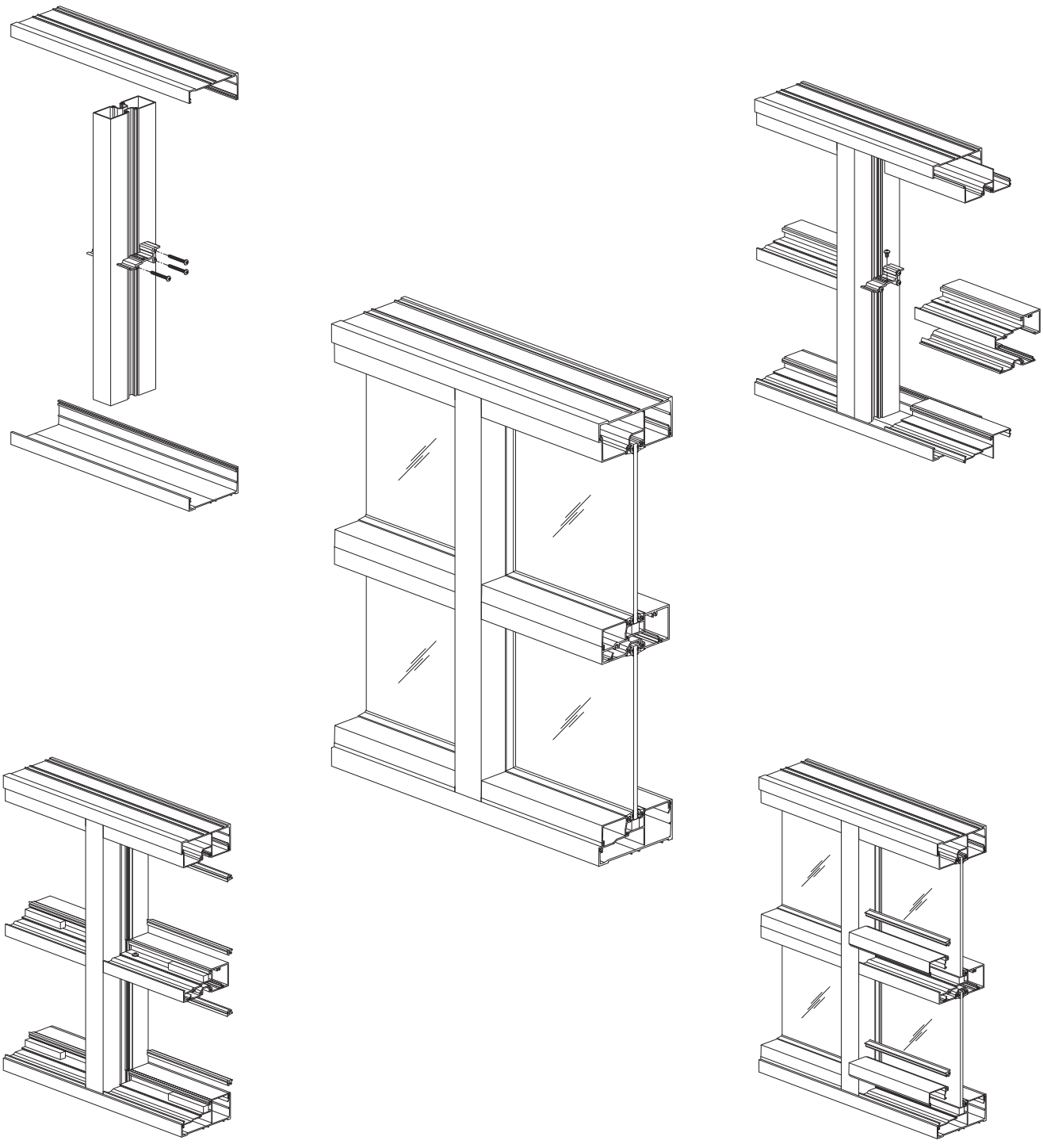
YES 45 CS/CI Storefront Can System



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.

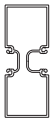
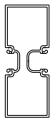
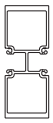
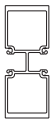
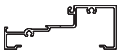
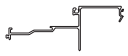
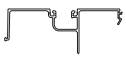
11. If any questions arise concerning YKK AP products or their installation, contact YKK AP for clarification before proceeding.

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.

YES 45 CS FRAMING MEMBERS (1-3/4” x 4-1/2”)

YES 45 CS (1/4” Outside Glazing)			YES 45 CS (1/4” Inside Glazing)		
	Jamb	E9-1001		Jamb	E9-1001
	Vertical	E9-1071		Vertical	E9-1071
	Heavy Duty Vertical	E9-1078		Heavy Duty Vertical	E9-1078
	Head Filler	E9-1073		Head Filler	E9-1074
	Horizontal	E9-1004		Horizontal	E9-1004
	Shallow Pocket Filler	E9-1002		Shallow Pocket Filler	E9-1002
	Sill Filler	E9-1074		Sill Filler	E9-1073
	Glass Stop	E9-1005		Glass Stop	E9-1005
	Head/Sill Receptor	E9-1072		Head/Sill Receptor	E9-1072
	Heavy Duty Head/Sill Receptor	E9-1080		Heavy Duty Head/Sill Receptor	E9-1080

YES 45 CI FRAMING MEMBERS (2” x 4-1/2”)

YES 45 CI (1” Outside Glazing)			YES 45 CI (1” Inside Glazing)		
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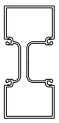
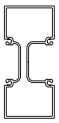
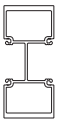
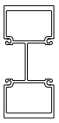
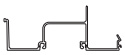
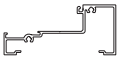
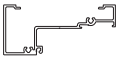
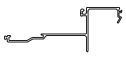
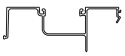
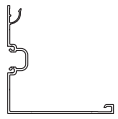
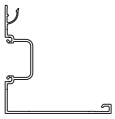
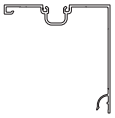
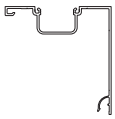
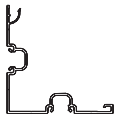
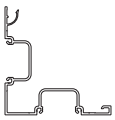
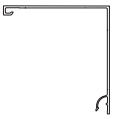
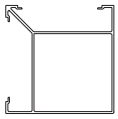
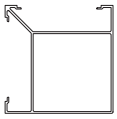
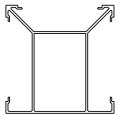
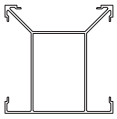
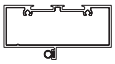
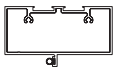
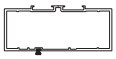
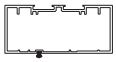
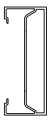
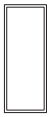
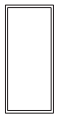
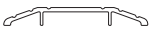
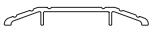
	Vertical	E9-1075		Vertical	E9-1075
	Heavy Duty Vertical	E9-1079		Heavy Duty Vertical	E9-1079
	Head Filler	E9-1076		Head Filler	E9-1077
	Horizontal	E9-1014		Horizontal	E9-1014
	Shallow Pocket Filler	E9-1012		Shallow Pocket Filler	E9-1012
	Sill Filler	E9-1077		Sill Filler	E9-1076
	Glass Stop	E9-1015		Glass Stop	E9-1015
	Head/Sill Receptor	E9-1072		Head/Sill Receptor	E9-1072
	Heavy Duty Head/Sill Receptor	E9-1080		Heavy Duty Head/Sill Receptor	E9-1080

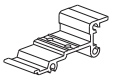
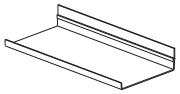
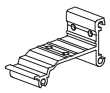
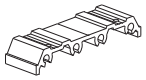
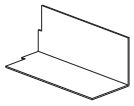
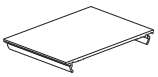
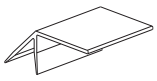
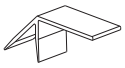
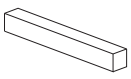
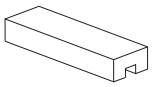
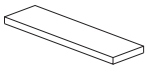
CORNER FRAMING MEMBERS

YES 45 CS (1/4” Outside & Inside Glazing)		YES 45 CI (1” Outside & Inside Glazing)	
 **Two Piece Corner Post** Use with self, E9-1045, E9-1046 & E9-1050	**E9-1044**	 **Two Piece Corner Post** Use with self, E9-1048, E9-1049 & E9-1050	**E9-1047**
 **Two Piece Corner Post** Use with self, E9-1044, E9-1046 & E9-1050	**E9-1045**	 **Two Piece Corner Post** Use with self, E9-1047, E9-1049 & E9-1050	**E9-1048**
 **Two Piece Corner Post** Use with self, E9-1044, E9-1045 & E9-1050	**E9-1046**	 **Two Piece Corner Post** Use with self, E9-1047, E9-1048 & E9-1050	**E9-1049**
 **Two Piece Corner Post** Use with self, E9-1044, E9-1045 & E9-1046	**E9-1050**	 **Two Piece Corner Post** Use with self, E9-1047, E9-1048 & E9-1049	**E9-1050**
 **90° Two-Way Corner Post** Use with E9-1009	**E9-1021**	 **90° Two-Way Corner Post** Use with E9-1019	**E9-1021**
 **90° Three-Way Corner Post** Use with E9-1009	**E9-1022**	 **90° Three-Way Corner Post** Use with E9-1019	**E9-1022**
 **Deep Pocket Filler**	**E9-1009**	 **Deep Pocket Filler**	**E9-1019**
Flat Filler	**E9-1038**	 **Glazing Adaptor** For 3/16”, 1/4”, 5/16”, & 3/8” glazing	**E9-1040**
		 **Glazing Adaptor** For 5/8” and 3/4” glazing	**E9-1039**
		Flat Filler	**E9-1038**

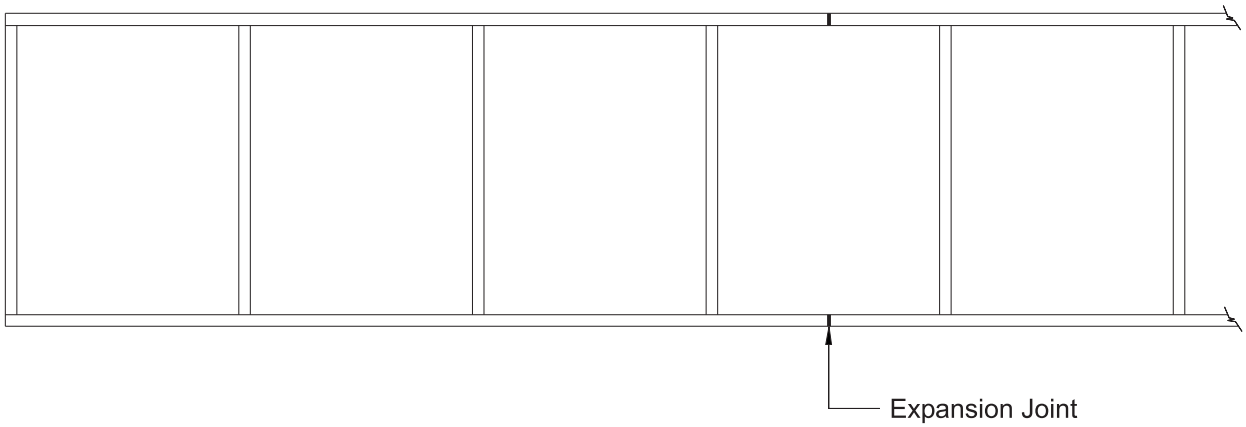
DOOR FRAMING MEMBERS

YES 45 CS (1/4” Outside & Inside Glazing)			YES 45 CI (1” Outside & Inside Glazing)		
	**Single Acting Door Head/Transom Bar** Elastomer weathering E2-0051 included	**AS-0402**		**Single Acting Door Head/Transom Bar** Elastomer weathering E2-0051 included	**AS-0412**
	**Double Acting Door Head/Transom Bar** Pile weathering E2-0062 included	**AS-0425**		**Double Acting Door Head/Transom Bar** Pile weathering E2-0062 included	**AS-0426**
	**Single Acting Door Jamb** Elastomer weathering E2-0051 included	**AS-0421**		**Single Acting Door Jamb** Elastomer weathering E2-0051 included	**AS-0411**
	**Double Acting Door Jamb**	**E9-0422**		**Double Acting Door Jamb**	**E9-0415**
	**Intermediate Door Jamb**	**E9-0410**		**Intermediate Door Jamb**	**E9-9312**
	**Transom Glass Stop** For 1/4” glazing	**E9-0403**		**Transom Glass Stop** For 1” glazing	**E9-0413**
	**Transom Glazing Pocket** For 1/4” glazing	**E9-0434**		**Transom Glazing Pocket** For 1” glazing	**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	**E9-0408**		**Sash Base** Use with E9-0413	**E9-0408**
	**Threshold** 1/2” x 4”	**E9-0407**		**Threshold** 1/2” x 4”	**E9-0407**

YES 45 CS/CI ACCESSORIES

	**Shear Block** For Intermediate Horizontal 1/4” Glazing (YES 45 CS)	**E1-1012**		**Splice Sleeve** For E9-1072 & E9-1080	**E3-0029**
	**Shear Block** For Intermediate Horizontal For 1” Glazing (YES 45 CI)	**E1-1013**		**Glazing Gasket**	**E2-0052**
	**Shear Block** For Transom Bar AS-0425 & AS-0426	**E1-0317**		**Glazing Gasket**	**E2-0053**
	**End Dam** For E9-1072 & E9-1080	**E1-1048**		**Glazing Gasket**	**E2-0064**
	**Flat Filler** Use at all Anchor Locations	**E1-1054**		**#8 x 1/4” FHMS** Zinc Plated Steel For attachment of Steel Reinforcing (YES 45 CI)	**FM-0804**
	**Water Deflector** For 1” Glazing (YES 45 CI)	**E2-0047**		**#8 x 3/8” FHMS** Zinc Plated Steel For attachment of Steel Reinforcing (YES 45 CS)	**FM-0806**
	**Water Deflector** For 1/4” Glazing (YES 45 CS)	**E2-0048**		**#10 x 3/8” FHSMS** Type AB, Zinc Plated Steel For attachment of Horizontal to Shear Block	**FC-1006**
	**Setting Block** For 1/4” Glazing (YES 45 CS)	**E2-0019**		**#10 x 3/8” PHSMS** Type AB, Zinc Plated Steel For attachment of End Dam & Splice Sleeve	**PC-1006**
	**Setting Block** For 1” glazing (YES 45 CI)	**E2-0020**		**#12 x 3/8” PHSMS** Type B, Zinc Plated Steel For attachment of Horizontal to Shear Block	**PB-1206**
	**Setting Block** For 1/4” Glazing (YES 45 CS) Inside Glazed Horizontal	**E2-0046**		**#12 x 5/8” PHSMS** Type AB, Zinc Plated Steel For attachment of Horizontal to Shear Block	**PC-1210**
	**Setting Block** For 1” Glazing (YES 45 CI) Inside Glazed Horizontal	**E2-0177**		**#10 x 1-3/4” PHSMS** Type AB, Zinc Plated Steel For attachment of Shear Block to Vertical	**PC-1028**
	**Steel Reinforcing** For 1/4” Glazing (YES 45 CS)	**E1-0155**		**#12 x 1-3/4” PHSMS** Type AB, Zinc Plated Steel For attachment of Shear Block (E1-0317) to Vertical	**PC-1228**
	**Steel Reinforcing** For 1” Glazing (YES 45 CI)	**E1-0156**			

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.

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

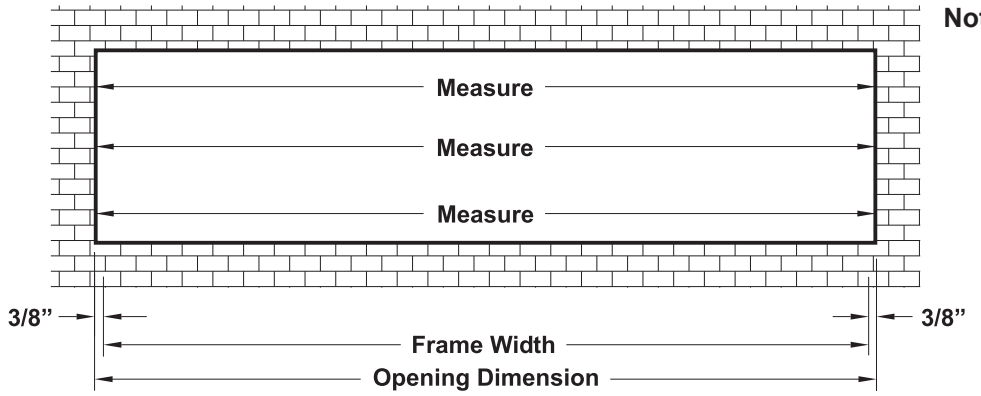
Note: Expansion joints need to be at the center of a glass lite opening.
Head and sill receptors **MUST** be spliced at the same location.

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

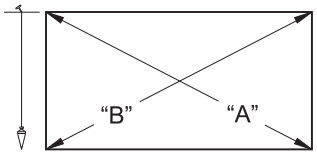
Temperature Difference = Temperature Range from the Architectural Specifications or AAMA recommendations Minus(–) Room Temperature at Time of Fabrication

FRAME FABRICATION

STEP 1
FABRICATE HEAD & SILL RECEPTORS



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



A = B

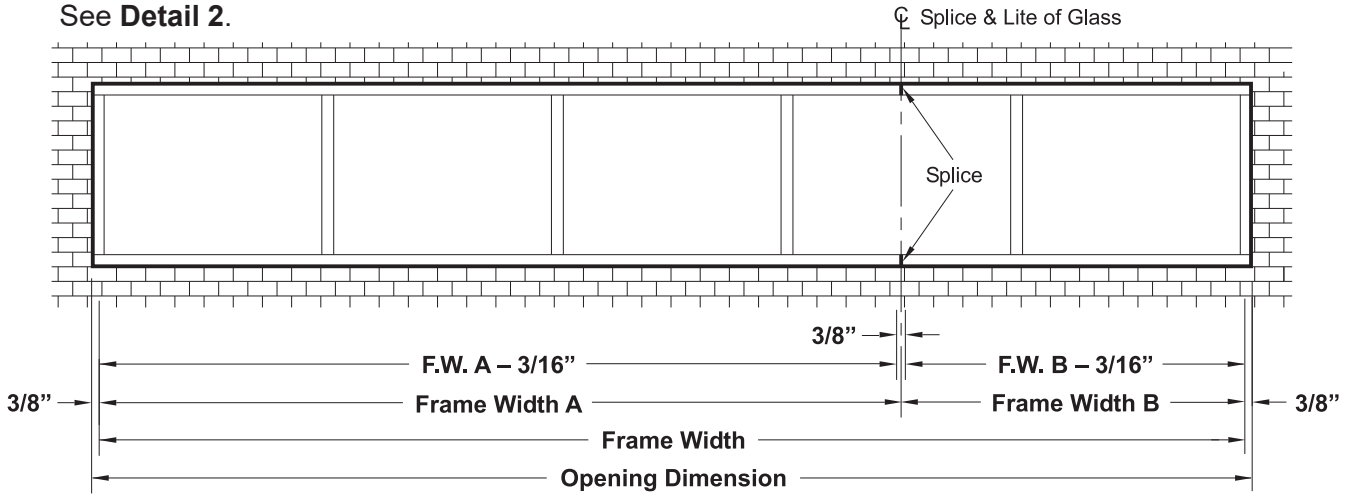
Detail 1

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):

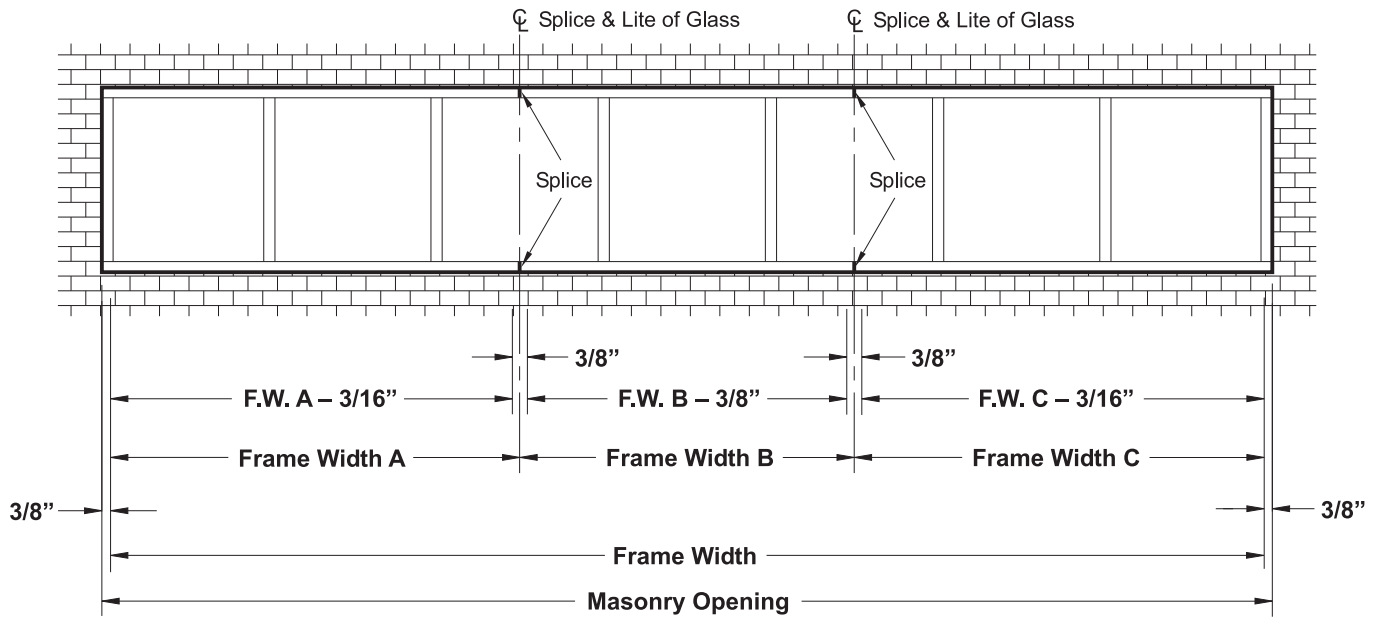
-Determine frame width as previously shown above (subtract 3/8” at each jamb).
-Splices should always occur in the center of a lite of glass. **Always** locate the splice in the head receptor at the same dimension as the splice in the sill receptor.
-Measure from the end of the frame to the centerline 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

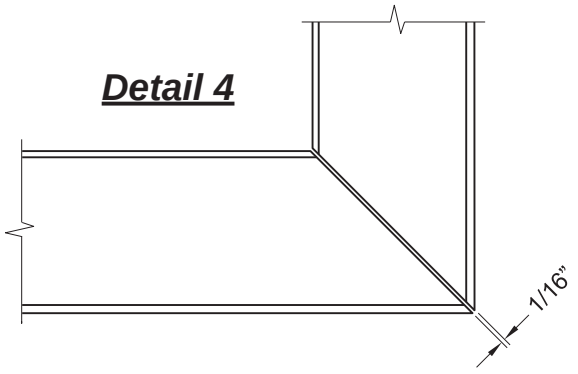
For openings 30’-0” or greater (More Than One Splice):

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**.

Detail 4



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**.

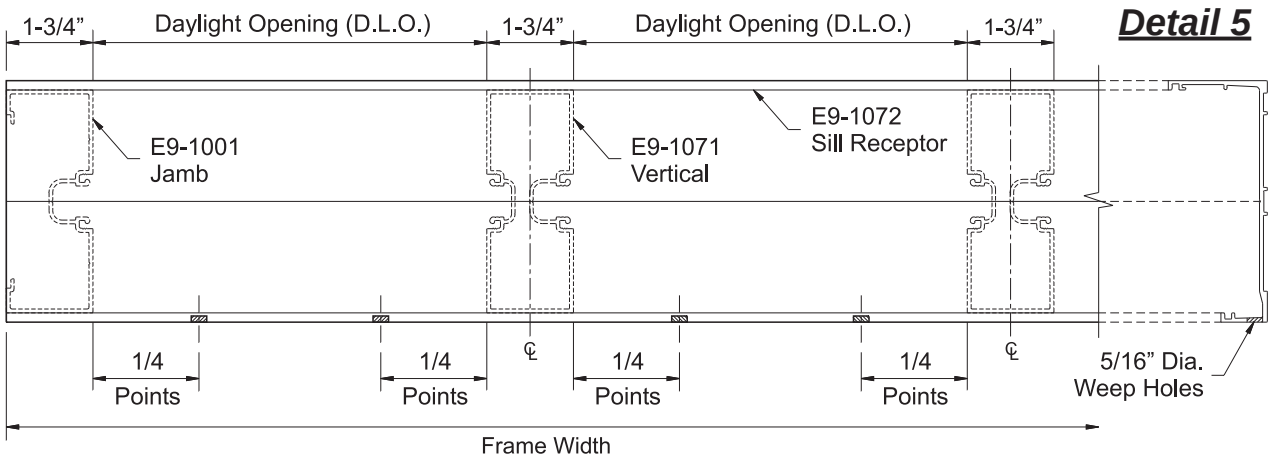
Note: 90° corner shown, other angles similar.

FRAME FABRICATION

STEP 2
FABRICATE WEEP HOLES IN SILL RECEPTOR

-Mark the front face of the sill flashing at quarter points of daylight opening between vertical members as shown below.
-Drill 5/16” diameter weep holes at each location marked.

See **Detail 5**.



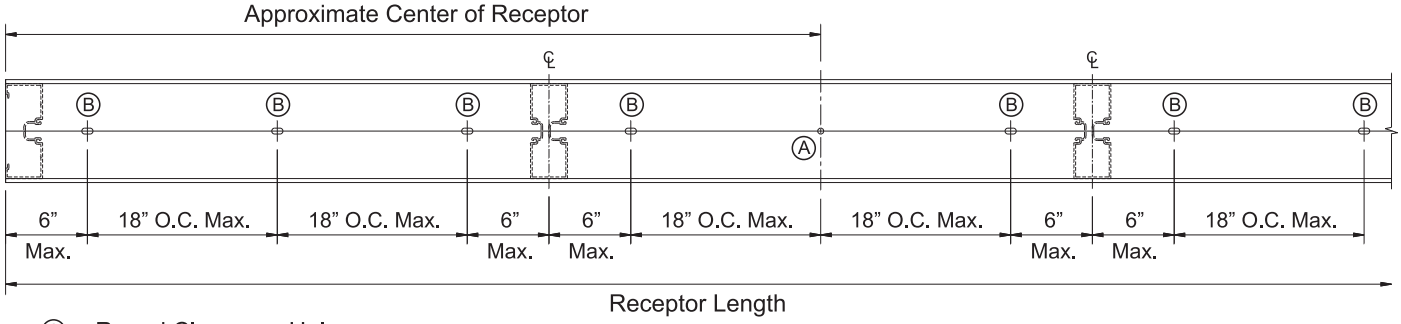
Detail 5

STEP 3
FABRICATE ANCHOR HOLES IN HEAD & SILL RECEPTORS

-Locate anchors within 6” from each end of the receptor, within 6” of each side of vertical mullion centerline, and 18” on center maximum between verticals.
-Locate the approximate center of length of each individual receptor and drill a round clear hole for the appropriate anchor fastener*.
-All other anchor holes are to be oblong to allow for expansion and contraction.
Do not drill larger clear holes.

Note: *Check approved shop drawings for anchor fastener and clear hole sizes or contact YKK AP.

See **Detail 6**.



Detail 6

FRAME FABRICATION

STEP 4
FABRICATE VERTICAL MULLIONS

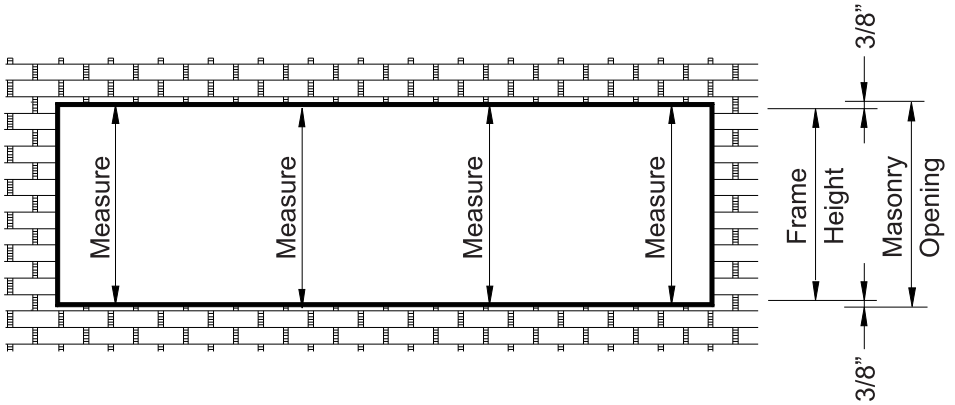
Determine the frame height:

-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(–) 3/4”. (Allow 3/8” minimum caulk joint at both the head and the sill.)

See **Detail 7**.

Detail 7



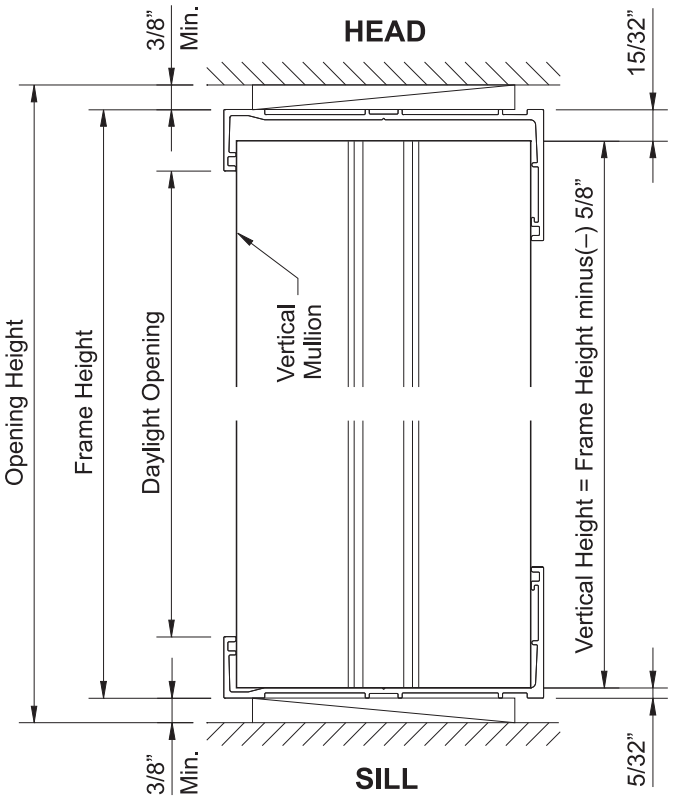
Cut vertical mullions:

-Vertical mullions must be fabricated to fit into the head and sill receptors.

-All verticals must be cut to Frame Height minus(–) 5/8”.

See **Detail 8**.

Detail 8



FRAME FABRICATION

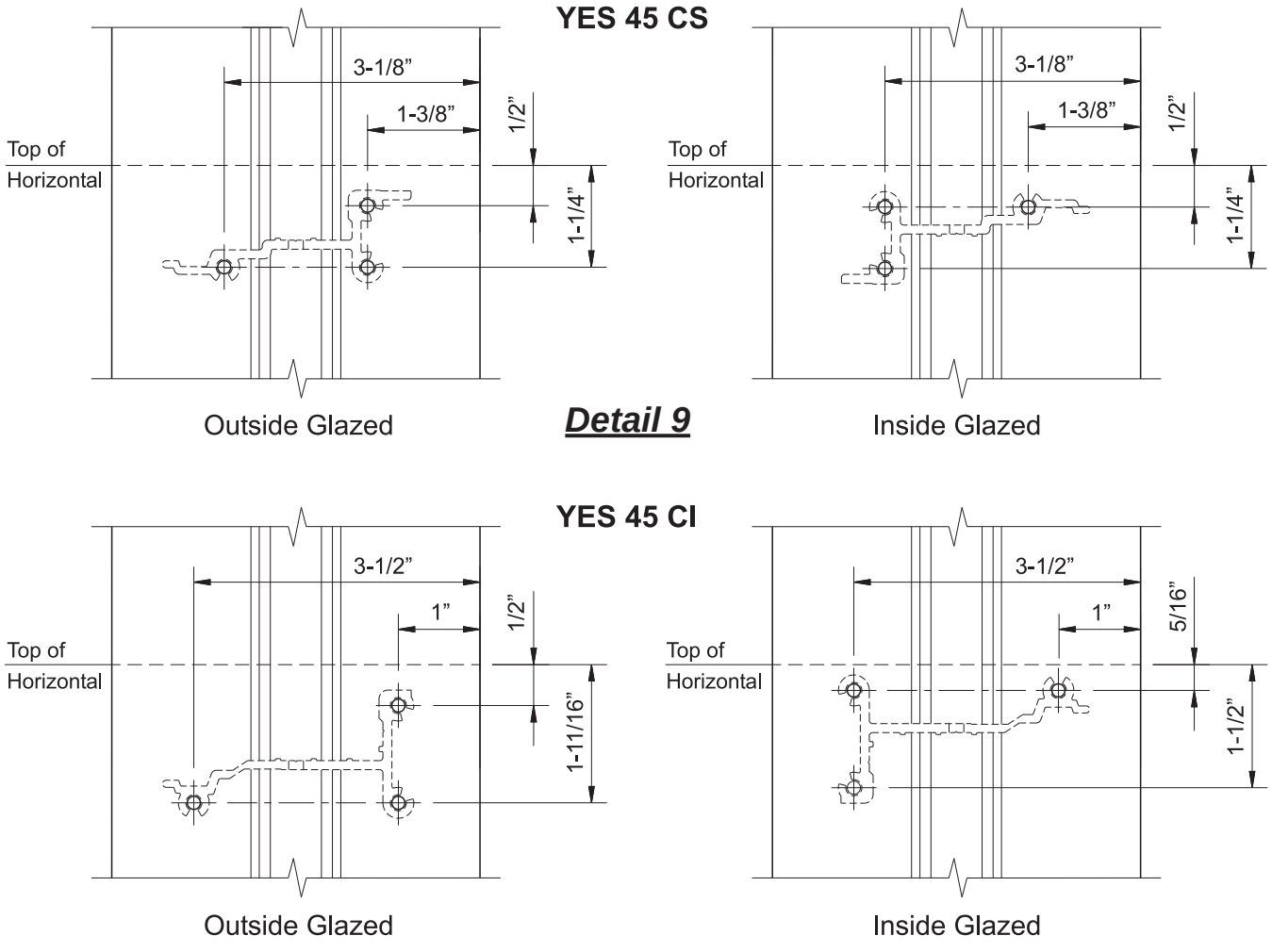
STEP 5
FABRICATE VERTICALS FOR SHEAR BLOCK ATTACHMENT

Shear blocks are required to attach intermediate horizontals to vertical and jamb mullions:
E1-1012 for YES 45 CS (1/4” glazing).
E1-1013 for YES 45 CI (1” glazing).

-Refer to shop drawings and mark a line on the side of the vertical at the top of each horizontal.

-Use a short 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.
OR
-Layout the location for each shear block as shown below.

-Drill 0.161” diameter (#20 drill bit) holes at each location marked.
-Attach the shear blocks to the verticals using (3) PC-1028 fasteners.
See **Detail 9.**

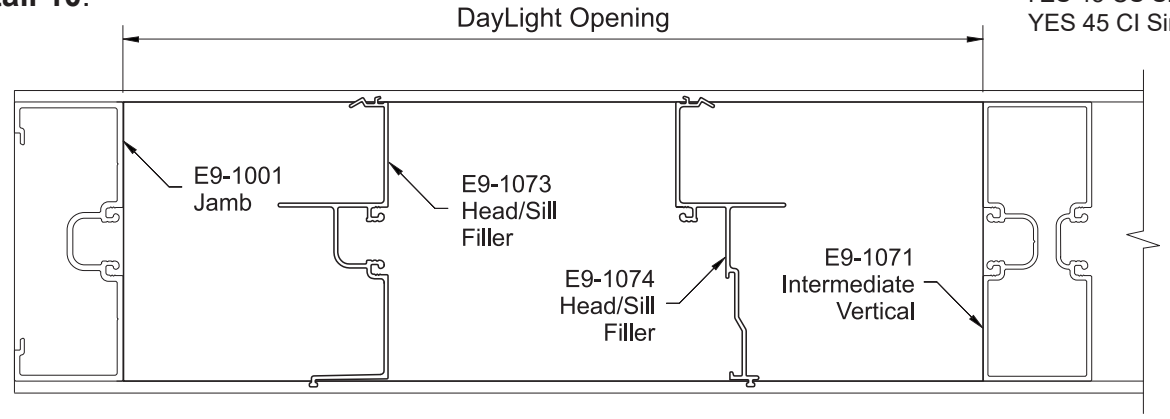


FRAME FABRICATION

STEP 6
FABRICATE HEAD/SILL FILLERS

-Cut head and sill fillers to the daylight opening between vertical members.
(Tolerance: +0, -1/32")
See **Detail 10**.

Detail 10
YES 45 CS Shown
YES 45 CI Similar

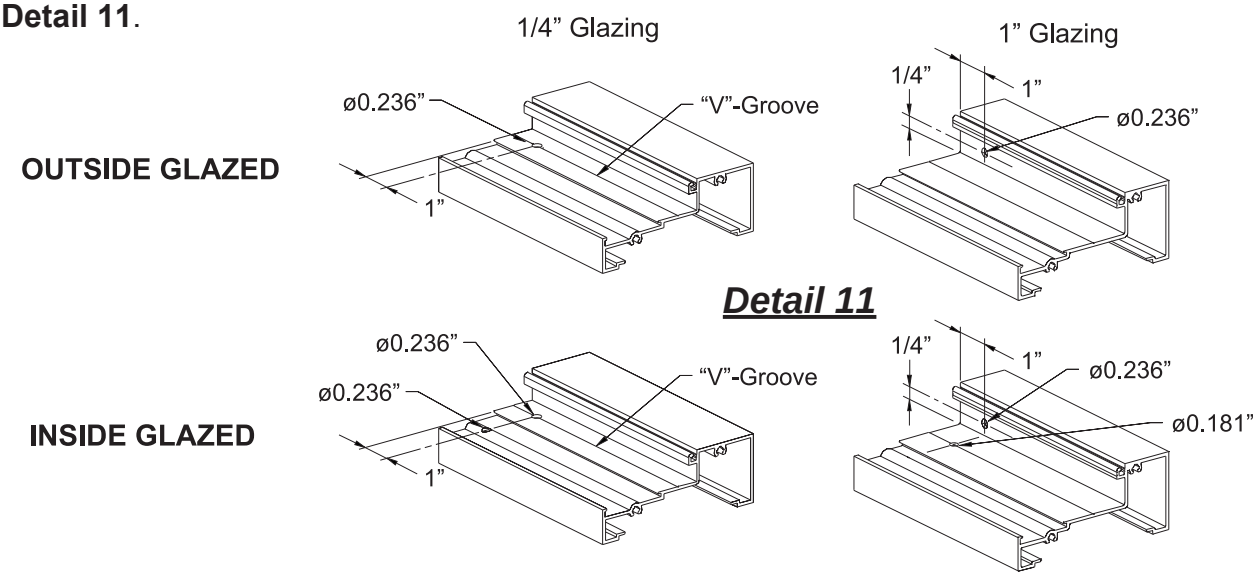


STEP 7
FABRICATE INTERMEDIATE HORIZONTALS

-Cut intermediate horizontals to the daylight opening between vertical members.

Additional fabrication is required for attachment of intermediate horizontals to shear blocks.
-For 1/4" glazing: Measure in 1" from each end of the horizontal and mark a hole location on the "V"-Groove of the glazing pocket.
-For 1" glazing: Measure in 1" from each end and up 1/4" from the glazing pocket and mark a hole location.
-Drill a 0.236" diameter (#B drill bit) hole at each location marked.
-For inside glazed horizontals, mark and drill additional holes as detailed below.
See **Detail 11**.

Detail 11



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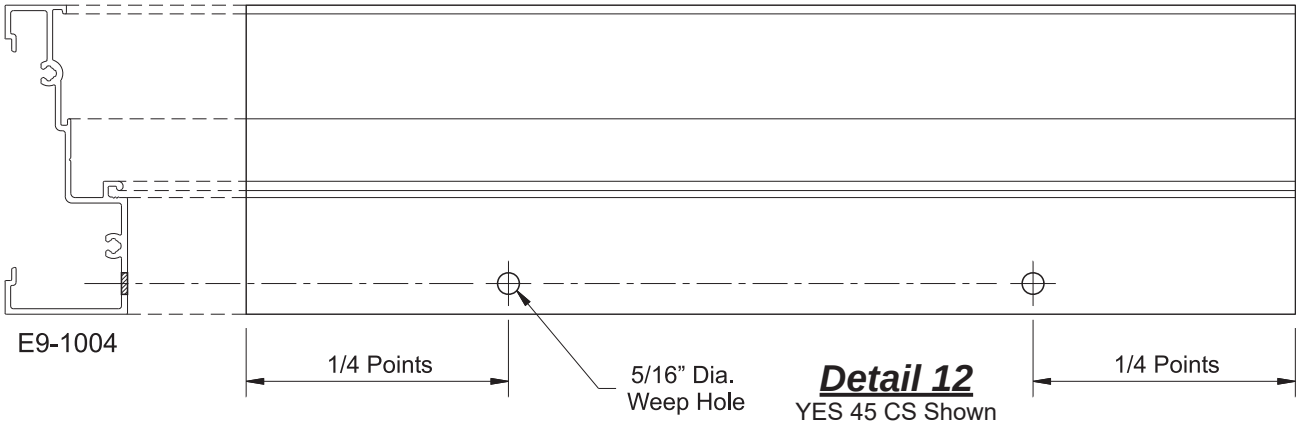
FRAME FABRICATION

STEP 8
FABRICATE WEEP HOLES
FOR INSIDE GLAZED INTERMEDIATE HORIZONTALS

Intermediate horizontals that will be glazed from the inside require the fabrication of weep holes.

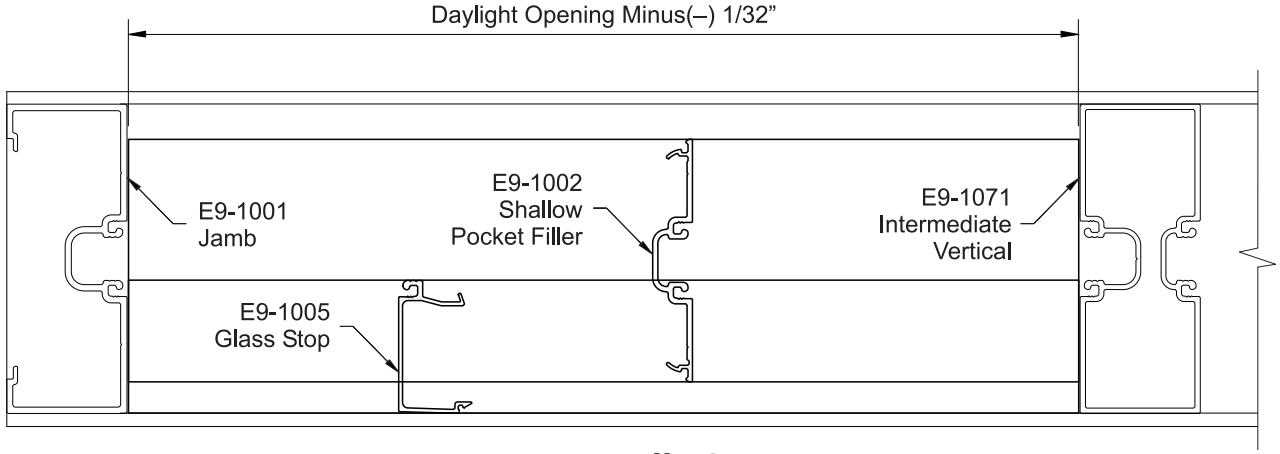
-Locate the quarter points along the bottom of the horizontal
-Drill 5/16” weep holes at each location.
See **Detail 12**.



Detail 12
YES 45 CS Shown
YES 45 CI Similar

STEP 9
FABRICATE GLASS STOPS & GLAZING POCKET FILLERS
FOR INTERMEDIATE HORIZONTALS

-Cut glass stops for intermediate horizontals and sill fillers to the daylight opening minus(–) 1/32”.
-Cut glazing pocket fillers for intermediate horizontals to the daylight opening minus(–) 1/32”.
See **Detail 13**.



Detail 13
YES 45 CS Shown
YES 45 CI Similar

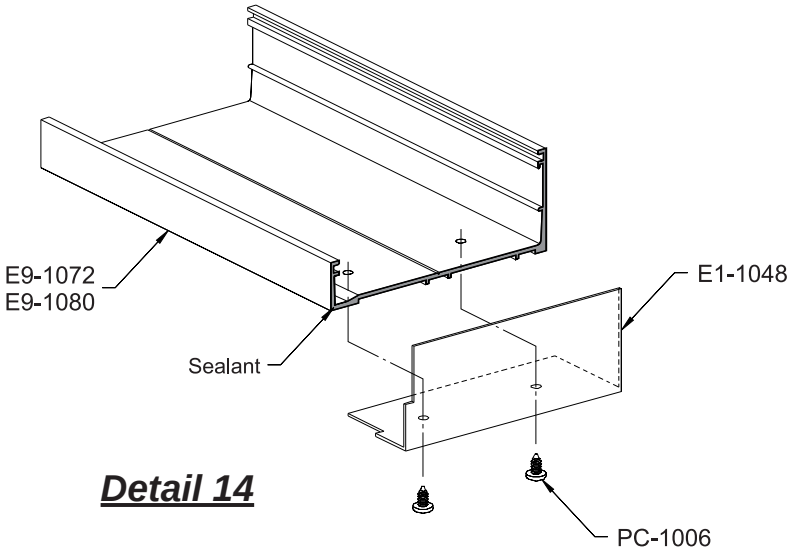
FRAME INSTALLATION

STEP 10
INSTALL HEAD & SILL RECEPTOR END DAMS

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

-Apply (butter) sealant to the end of the head/sill receptor.
-Center the end dam, E1-1048, with the end of the head/sill receptor. The notched side of the end dam should be aligned with the shorter side of the receptor.
-Drill two 0.161" diameter (#20 drill bit) holes through both end dam and receptor as shown.
-Fasten the end dam to the head/sill receptor using two PC-1006 fasteners.

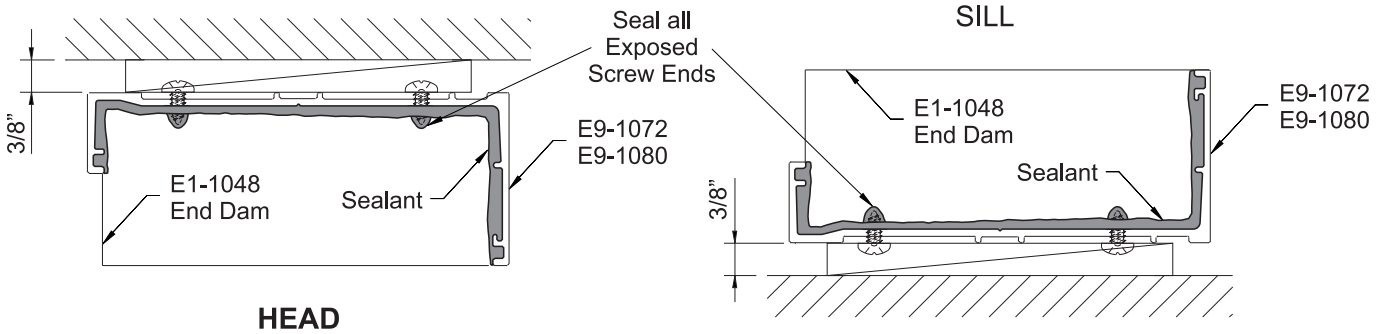
See **Detail 14**.



Detail 14

-Clean all sealant contact surfaces with a cleaner approved by sealant manufacturer.
-Apply and tool sealant to the joint between the end dam and the receptor to create a watertight joint.
-Apply and tool sealant to the fastener ends that penetrate the receptors.

See **Detail 15**.



Detail 15

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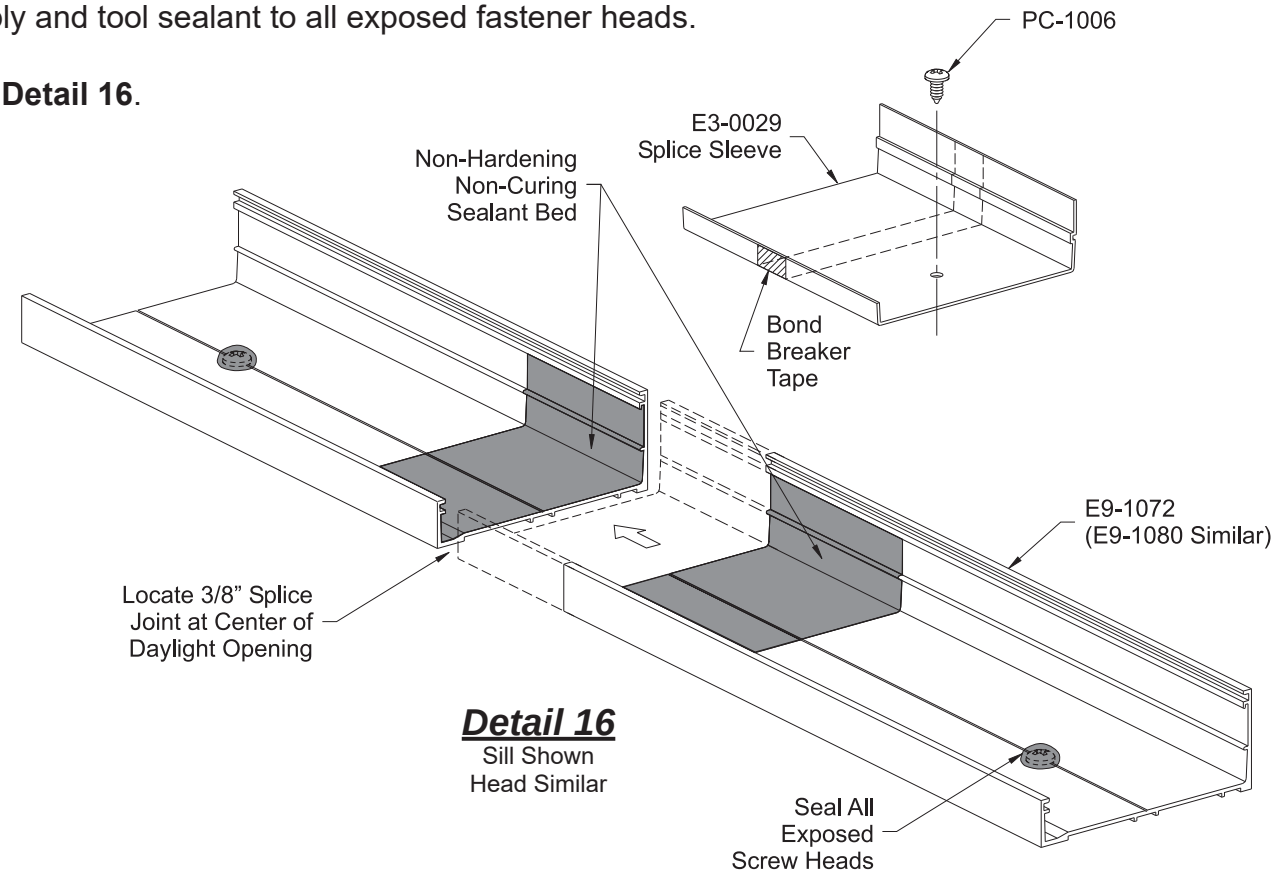
FRAME INSTALLATION

STEP 11
INSTALL HEAD & SILL RECEPTORS

-Using building control lines, locate the inside face of the head and sill receptors.
-Check the vertical opening height along the length of each opening and locate the smallest dimension.
-Begin the installation at the smallest opening height and install a minimum 3/8” shim.
-Install anchors as called out on shop drawings or engineering calculations using the anchor holes previously drilled in **Step 3** on **Page 9**.
-Always install a shim at each anchor location. As anchoring proceeds, shim as necessary to keep receptors parallel and level.

-Leave a 3/8” expansion joint at head and sill receptor splices.
-Bridge the joint between receptor sections with splice sleeve, E3-0029.
  -Apply bond breaker tape to the splice sleeve along the midpoint of the side facing the splice.
  -Clean all sealant contact surfaces using a cleaner approved by sealant manufacturer.
  -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 splice sleeve into position, apply pressure, and tool the sealant up over the edges of the splice sleeve.
  -Fasten the splice sleeve to the receptor on one side only using one PC-1006 fastener.
-Apply and tool sealant to all exposed fastener heads.

See **Detail 16**.

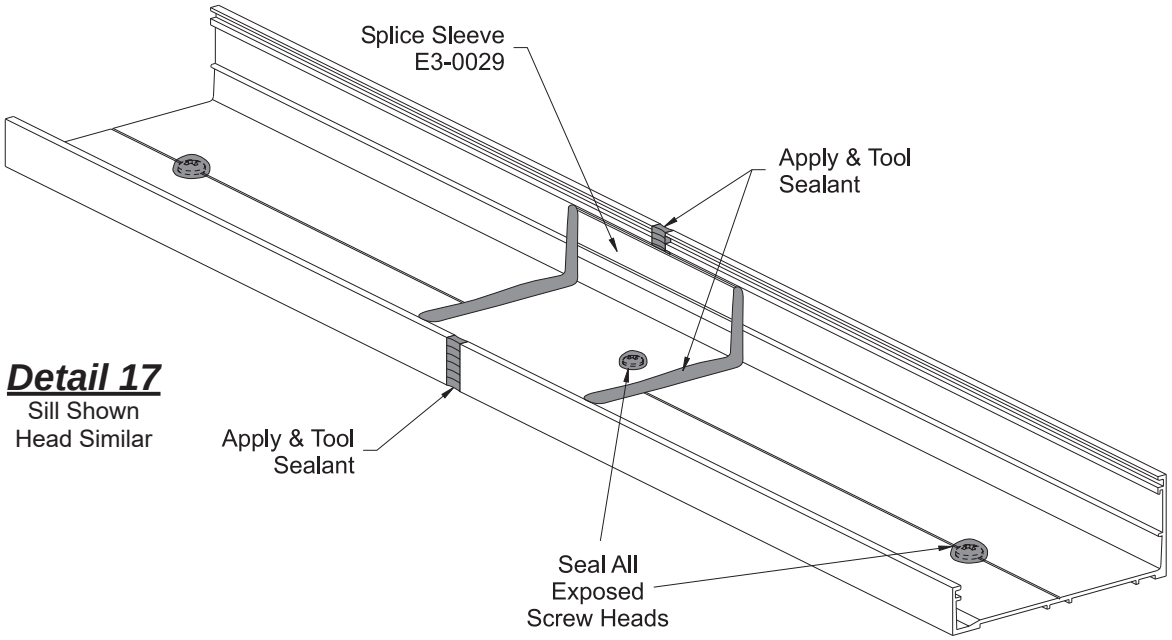


Detail 16
Sill Shown
Head Similar

FRAME INSTALLATION

STEP 11 (Continued)
INSTALL HEAD & SILL RECEPTORS

-Apply and tool sealant to the front and back faces of the joint between the receptors.
See **Detail 17**.



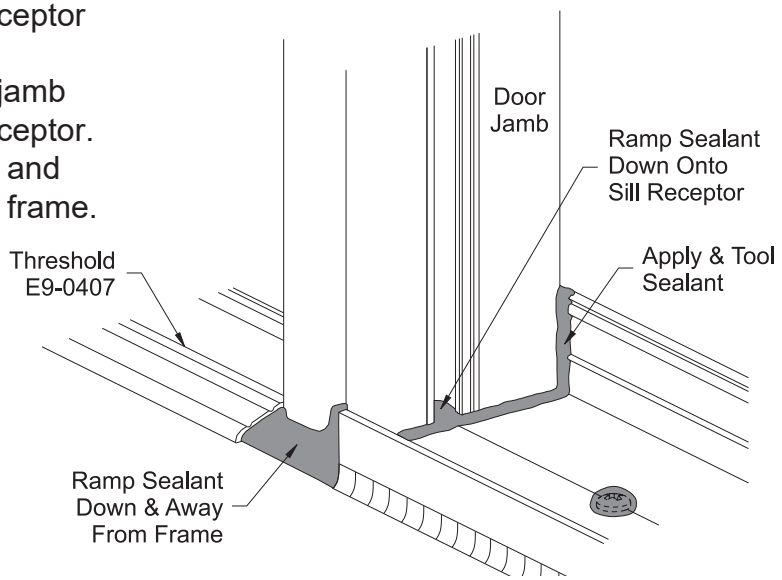
Detail 17
Sill Shown
Head Similar

Sill Receptor at Door Frame:

-The sill receptor terminates at the door jamb.
-Center the door frame with the sill receptor and install the door frame as instructed in the **20D, 35D, & 50D Entrances Installation Manual**.

-Apply and tool sealant to the end of the receptor where it meets the door jamb.
-Apply sealant to the glazing pocket of the jamb and ramp the sealant down onto the sill receptor.
-Apply sealant to the front of the door jamb and ramp the sealant down and away from the frame.

See **Detail 18**.



Detail 18

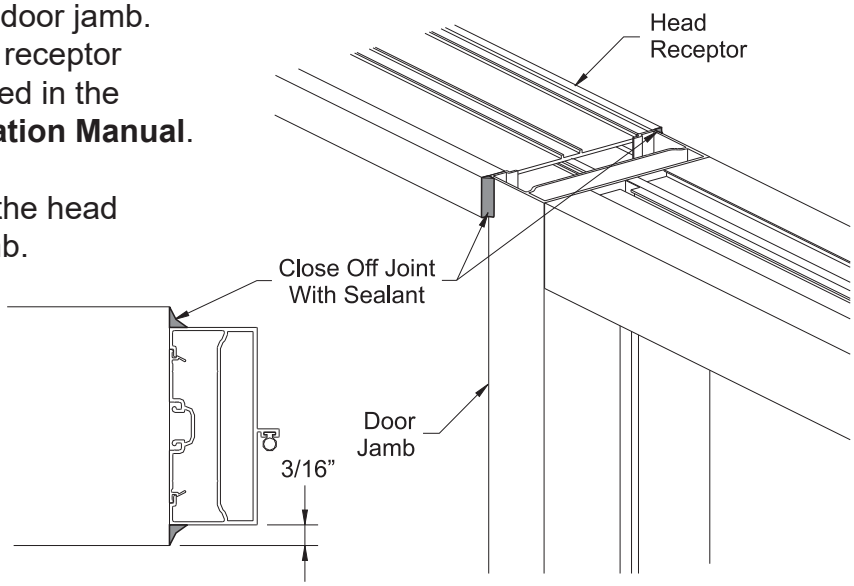
FRAME INSTALLATION

STEP 11 (Continued)
INSTALL HEAD & SILL RECEPTORS

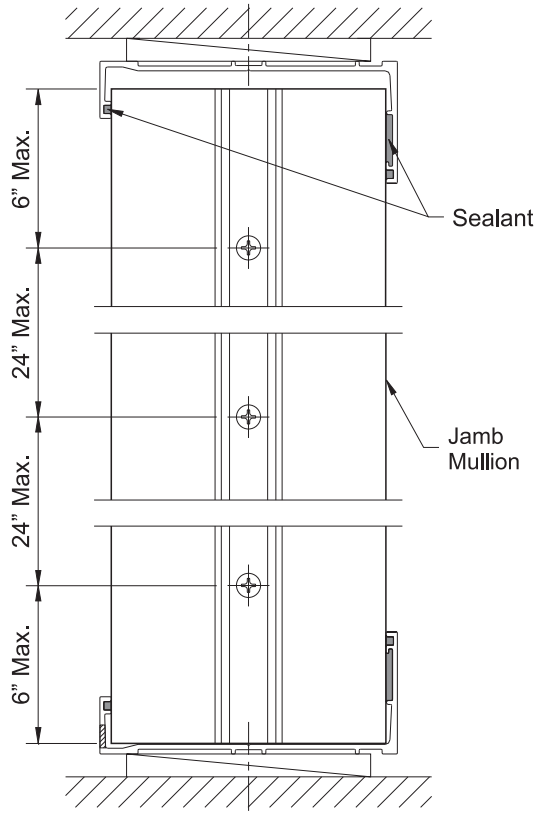
Head Receptor at Door Frame:

-The head receptor terminates at the door jamb.
-Center the door frame with the head receptor and install the door frame as instructed in the **20D, 35D, & 50D Entrances Installation Manual**.

-Apply and tool sealant to the end of the head receptor where it meets the door jamb.
See **Detail 19**.



Detail 19



Detail 20

STEP 12
INSTALL JAMB MULLIONS

-Apply sealant to the head and sill receptor interior walls at the ends where the jambs are to be installed.
-Install the the jamb into the head and sill receptor. Slide the jamb toward the end until contact is made with the end dam.
-Shim the jamb as required to ensure that it is plumb.
-Install flat head anchors within 6” of each end and then 24” on center maximum.
Refer to approved shop drawings, or contact YKK AP for anchor fastener requirements.
-Seal the jamb member to the receptors. Make sure the excess sealant does not extend pass the jambs.
See **Detail 20**.

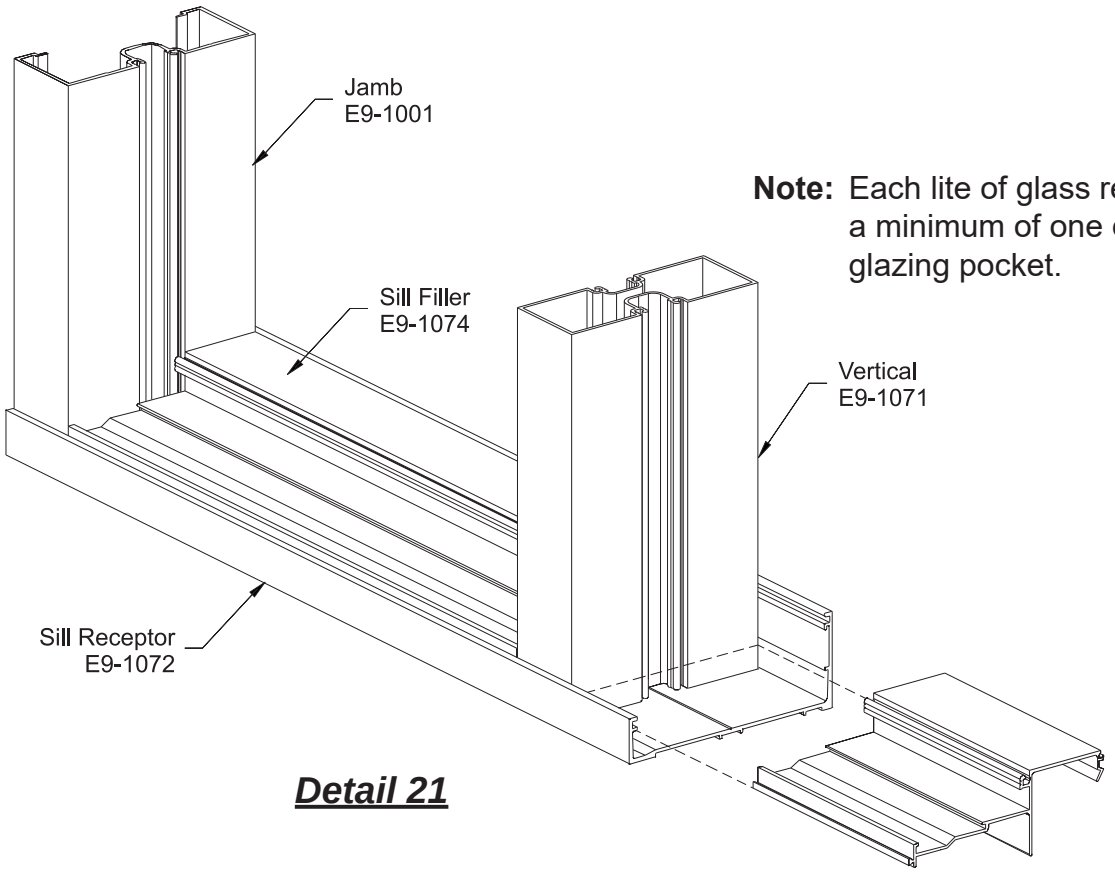
FRAME INSTALLATION

STEP 13
INSTALL INTERMEDIATE VERTICAL MULLIONS

-Snap in the first head and sill fillers and slide them tight against the jamb.
-Stand the first intermediate vertical up in between the head and sill receptors and make sure that it is installed plumb and square.
-Snap in the next head and sill fillers and slide them tight against the intermediate vertical.
-Install the rest of the verticals and head and sill fillers using the same technique described above. All verticals must be installed plumb and square.

Caution: 1) Check the centerline to centerline dimension every fifth vertical to avoid accumulating dimensional error.
2) Install verticals so that each lite of glass has a minimum of one deep glazing pocket.

See **Detail 21**.



Note: Each lite of glass requires a minimum of one deep glazing pocket.

Detail 21

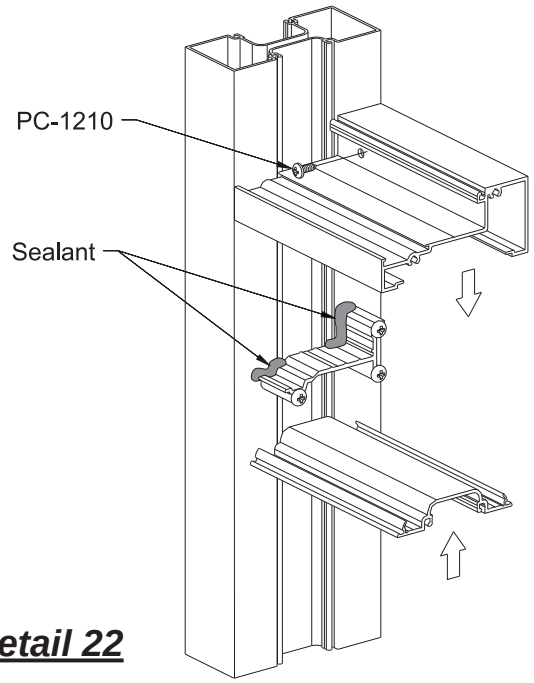
FRAME INSTALLATION

STEP 14
INSTALL INTERMEDIATE HORIZONTALS

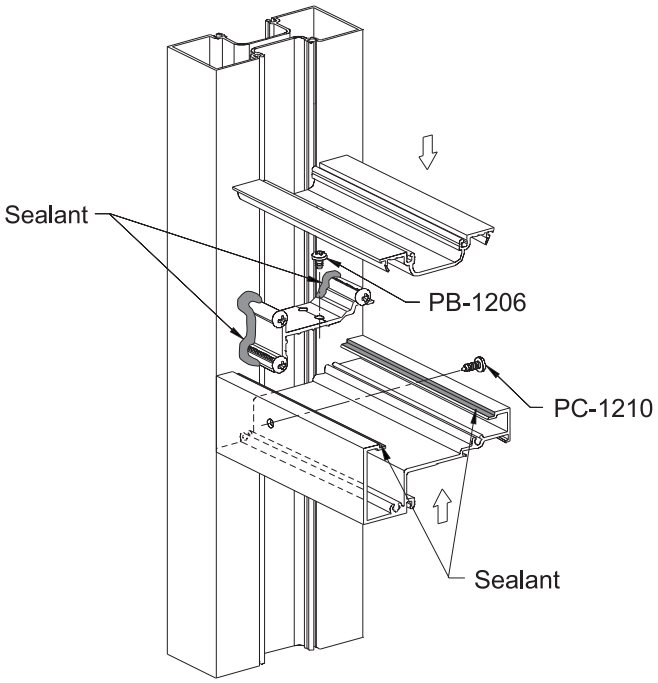
For Outside Glazing:

-Apply sealant to the joints between the shear blocks and the vertical.
-Attach the intermediate horizontals at each end with one fastener:
PB-1206 for YES 45 CS (1/4” glazing).
PC-1210 for YES 45 CI (1” glazing).
-Snap the glazing pocket filler into the underside of the horizontal.

See **Detail 22**.



Detail 22



Detail 23

INSTALL INTERMEDIATE HORIZONTALS

For Inside Glazing:

-Apply sealant to the joints between the shear blocks and the vertical.
-Apply sealant to the ends of the intermediate horizontal and slide the horizontal up into place.
-Attach the horizontal at each end with one PB-1206 and one PC-1210 fastener.
-Apply a bead of sealant to both legs of the horizontal snap leg.
-Snap the glazing pocket filler into the top of the horizontal.

See **Detail 23**.

FRAME INSTALLATION

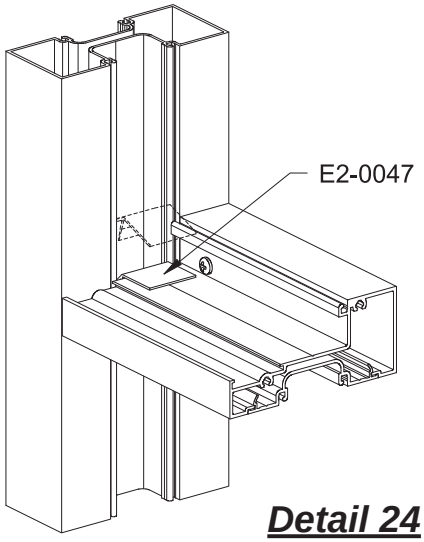
STEP 15
INSTALL WATER DEFLECTORS

YES 45 CS/CI requires the installation of water deflectors, E2-0047 (for 1” glazing) or E2-0048 (for 1/4” glazing), at each end of the intermediate horizontals. Water deflectors aid to properly divert water away from the framing system.

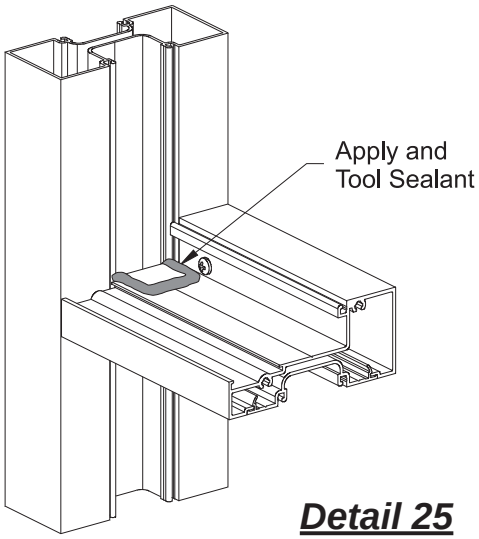
-Peel away the protective paper from the bottom of the water deflector, E2-0047, and install the water deflector by rotating it over each end of the horizontal.
-Position the vertical leg of the water deflector against the end of the horizontal.

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

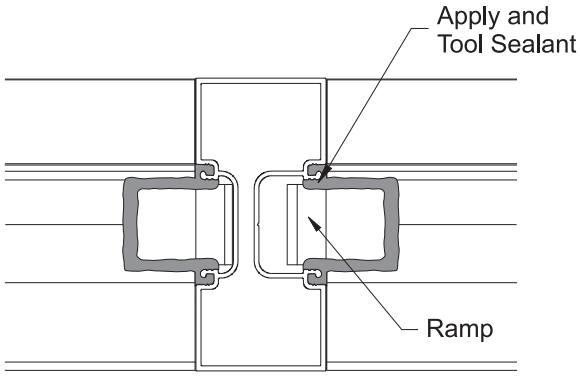
See **Detail 24.**



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



Detail 25
1” Glazing Shown
1/4” Glazing Similar



Detail 26
1” Glazing Shown
1/4” Glazing Similar

-Apply and tool sealant along the edges of the water deflector and down onto the horizontal. See **Detail 25**.

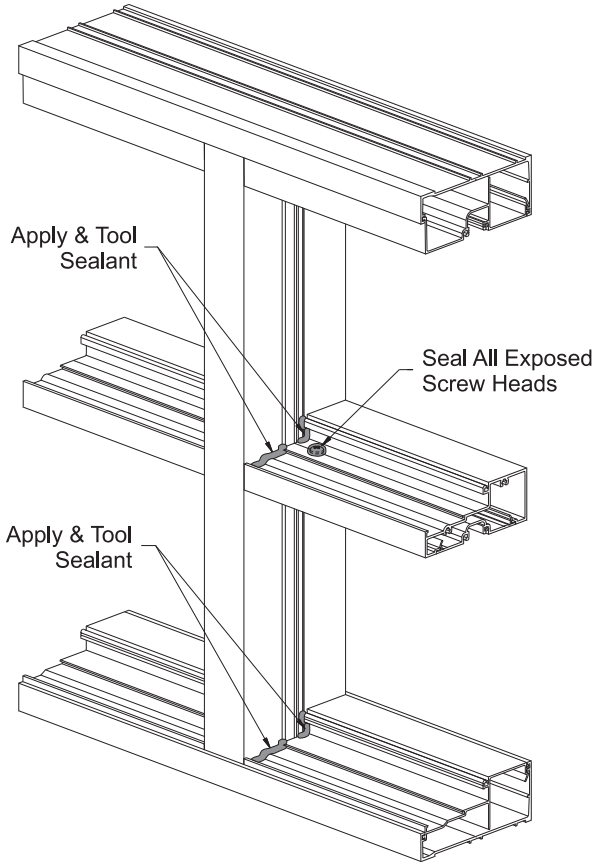
-Seal the ramp of the water deflector to the sides of the vertical gasket reglets. See **Detail 26**.

FRAME INSTALLATION

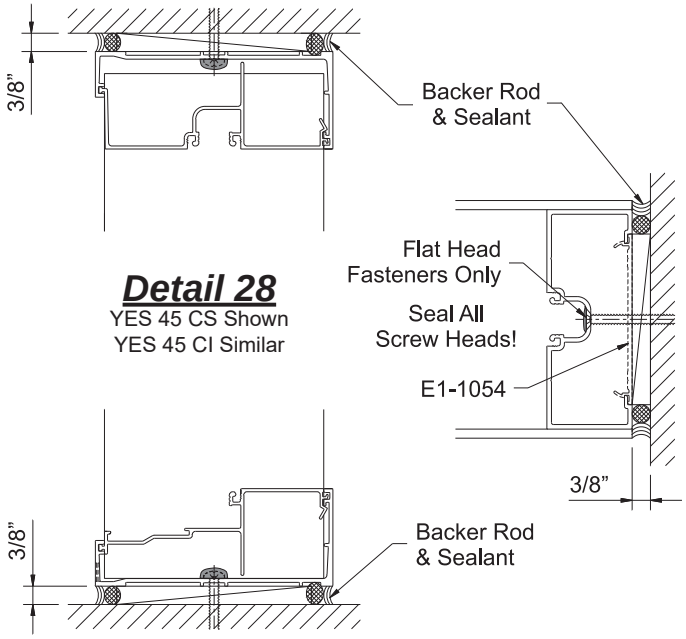
STEP 16
APPLY INTERNAL SEALANT

-Apply a generous amount of sealant to the vertical intersection of the horizontal and vertical members.
-Tool all of the sealant to ensure a water tight joint.
-Apply and tool sealant to all exposed screw heads.

See **Detail 27.**



Detail 27
YES 45 CS Shown
YES 45 CI Similar



Detail 28
YES 45 CS Shown
YES 45 CI Similar

STEP 17
APPLY PERIMETER SEALANT

-Install backer rod around the perimeter of the frame.
-Apply and tool perimeter sealant between the frame and the structure.
-Apply and tool sealant to all exposed screw heads.

See **Detail 28.**

GLAZING

STEP 18 (Optional)
INSTALL GLAZING ADAPTORS

Glazing adaptors, E9-1039 and E9-1040, allow for glazing infills other than the standard 1/4” or 1”. Please refer to the glazing tables on the right for possible adaptor/gasket combinations.

-Snap glazing adaptors into the interior gasket reglets of the verticals.
-Snap glazing adaptors into the interior gasket reglets of the horizontals.

-Apply and tool sealant to the joint between the vertical and horizontal glazing adaptors.

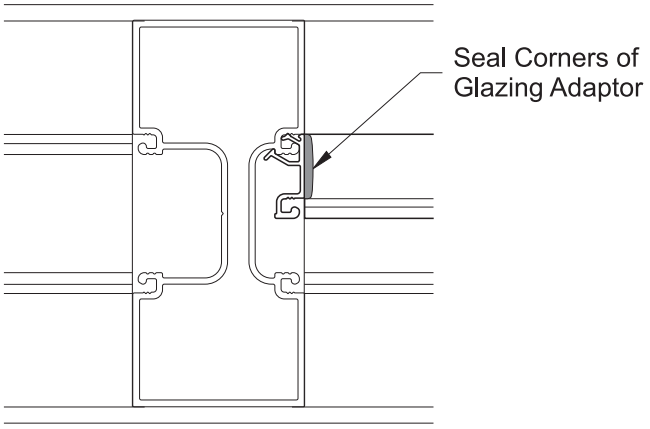
See **Detail 29**.

Glazing Table - YES 45 CS

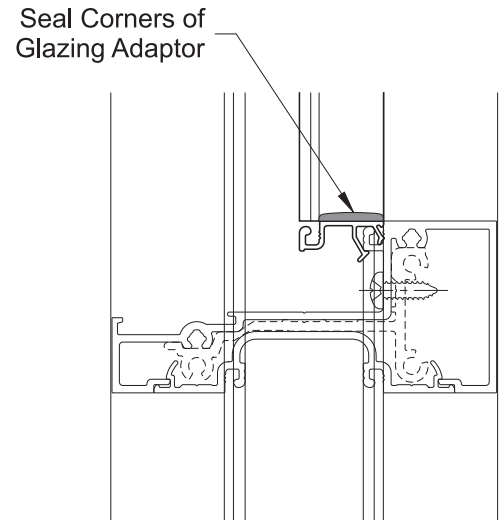
Glass Thickness	Exterior	Interior
3/16”	E2-0052	E2-0064
1/4”	E2-0052	E2-0052
5/16”	E2-0053	E2-0052
3/8”	E2-0053	E2-0053

Glazing Table - YES 45 CI

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



VERTICAL



HORIZONTAL

Detail 29
Exterior Glazing Shown
Interior Glazing Similar

GLAZING

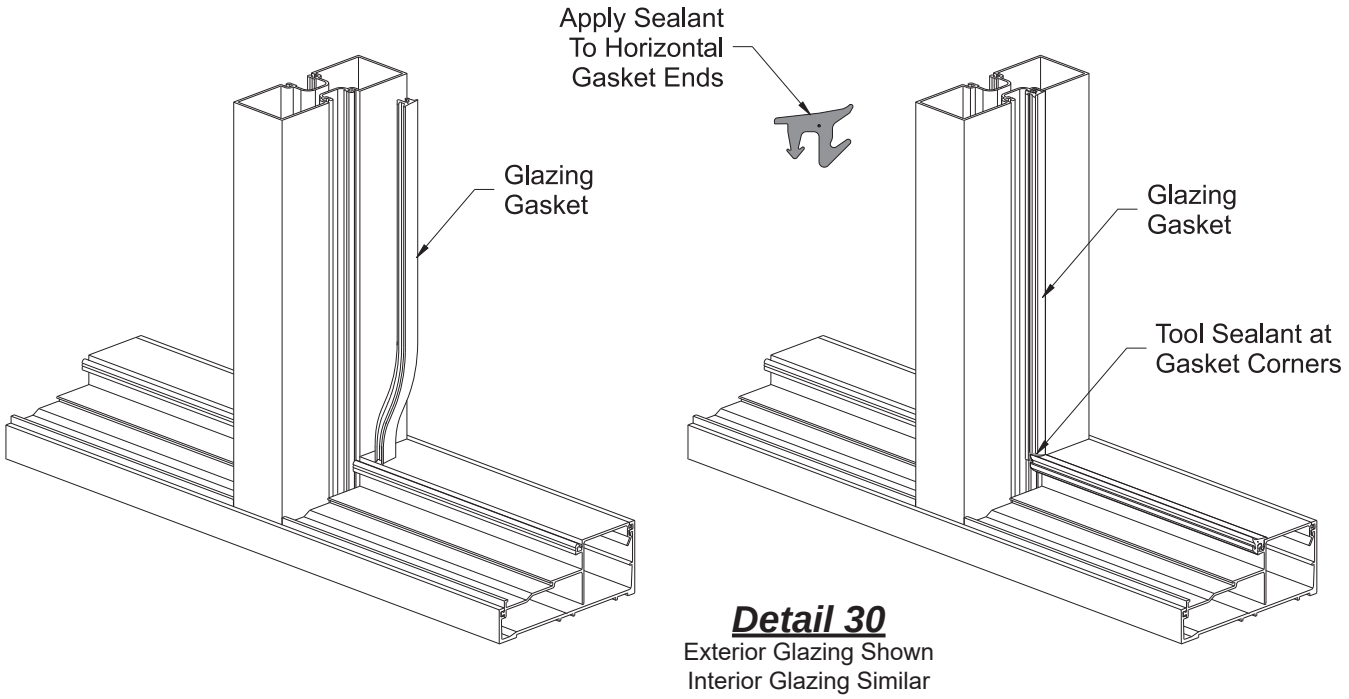
STEP 19
INSTALL GLAZING GASKETS

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 glazing gaskets to Daylight Opening plus(+) 3/16” for each foot of length.
-Insert the gasket into the reglet at each end first, and 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.



Detail 30
Exterior Glazing Shown
Interior Glazing Similar

Install horizontal glazing gaskets next:

-Cut horizontal 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 reglet at each end first and 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 30**.

GLAZING

STEP 20
INSTALL GLASS

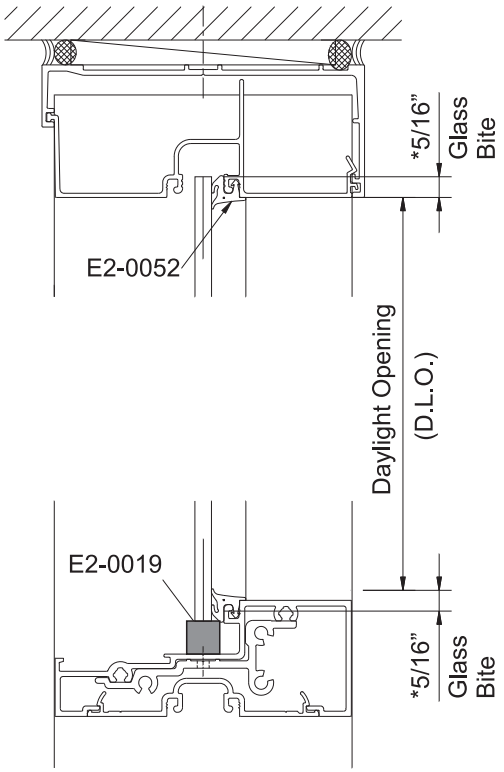
Determine the glass size:

	1/4” Glass Size	1” Glass Size
Vertical	D.L.O. + 5/8”	D.L.O. + 7/8”
Horizontal	D.L.O. + 5/8”	D.L.O. + 7/8”

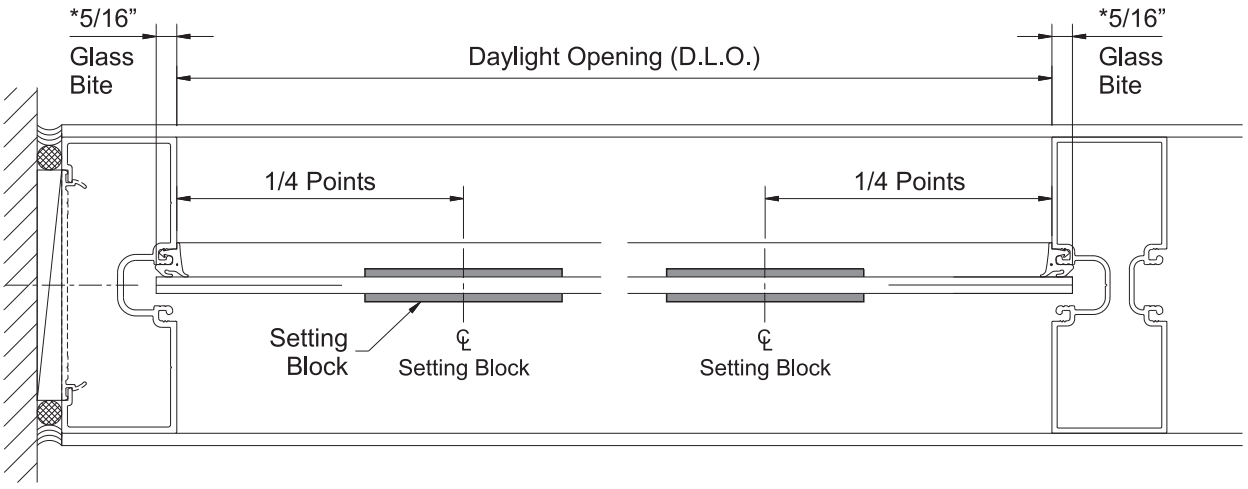
-Install setting blocks at quarter points of horizontal D.L.O. or according to engineering calculations.
-Carefully install the glass into the opening: bring the lite up and into the deep pocket first and then rotate the other end in place.
-Make sure the glass is engaged with all setting blocks.

See **Detail 31**.

*Note: For 1” glazing glass bite is 7/16”.



Detail 31
YES 45 CS Shown
YES 45 CI Similar



GLAZING

STEP 21
INSTALL GLASS STOPS

For Outside Glazing:

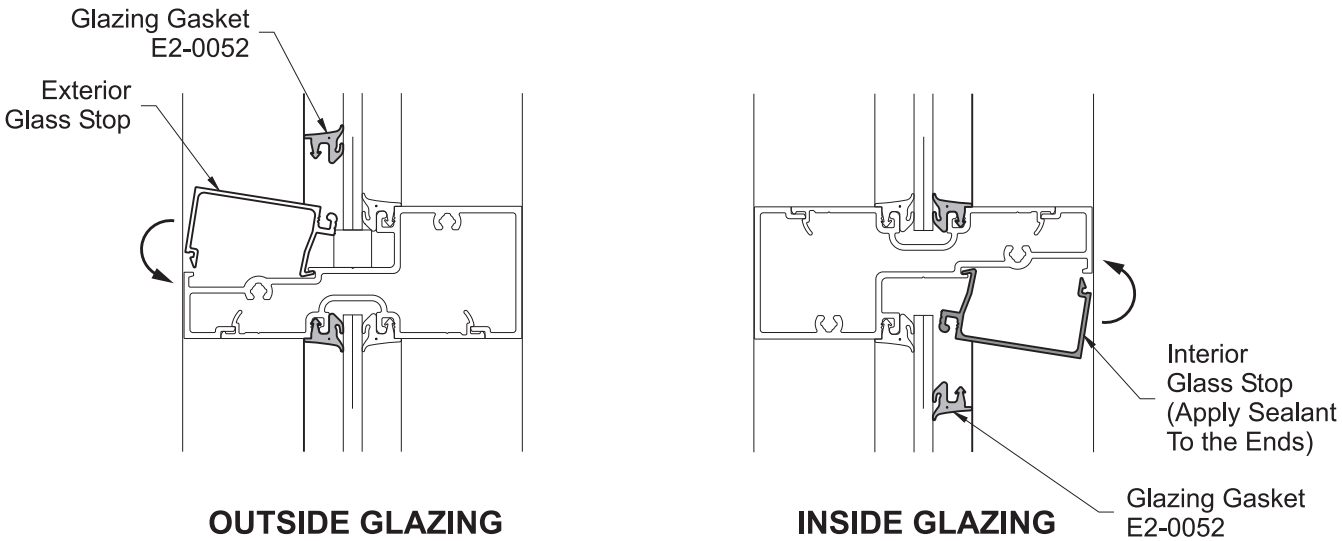
-Snap the exterior glass stops into place as shown in **Detail 32.**
-Install the exterior glazing gaskets using the same technique described in **Step 19** on **Page 23**. Always install the vertical glazing gasket first.

Repeat **Steps 20 & 21** until all lites are installed.

For Inside Glazing:

-Apply sealant to each end of the interior glass stop.
-Snap the interior glass stops into place as shown in **Detail 32.**
-Install the interior glazing gaskets using the same technique described in **Step 19** on **Page 23**. Always install the vertical glazing gasket first.

Repeat **Steps 20 & 21** until all lites are installed.



Detail 32
YES 45 CS Shown
YES 45 CI Similar

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