

YSD 600 T/TH Sliding Door System (Standard Sill)



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, limited access area. If rain exposure, condensation or any water contact is likely, then all packaging material should be removed. Wet packaging materials may permanently discolor or stain aluminum finishes and paints.
3. All materials should be checked for quantity and quality upon receipt, YKK AP must be notified immediately of any discrepancies in shipment. Check to make sure that you have the required shims, sealants, supplies, and tools necessary for the installation.
4. Carefully check the openings and surrounding conditions that will receive your material. 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. Collect your shop drawings, materials, packing list, and this installation manual. Carefully review parts location and the sequence of installation, including glazing and sealing. 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 that sealants have been installed in strict accordance with the manufacturer's recommendations and specifications.
8. Consult sealant manufacture for proper sealant and backer rod selection.
9. Remember to isolate, in a approved manner, all aluminum from uncured masonry or other incompatible materials.
10. System-to-structure fasteners are not supplied by YKK AP. Fasteners called out on shop drawings are to indicate minimum sizes for design loading.
11. If any questions arise concerning YKK AP products or their installation, contact YKK AP Technical Center for clarification before proceeding.

INSTALLATION NOTES

12. YKK AP sliding door installation is typically completed before drywall, flooring and other products have been completely installed. Take the extra time to wrap and protect the installed material.

13. YKK AP Model YSD 600 T/TH sliding doors are prefinished and prefabricated, sometimes preassembled, and must be protected against damage.

14. Concrete, mortar, plaster, muriatic acid and other alkaline and acid based construction and cleaning materials may be very harmful to finishes and should be removed with water and mild soap immediately or permanent damage or staining of the finishes will occur. A spot test is recommended before any cleaning agent is used. Abrasive type cleaners must never be used.

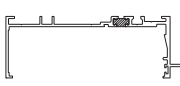
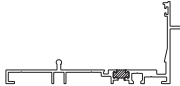
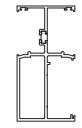
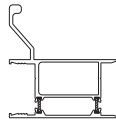
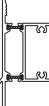
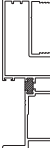
15. All work must start from, and be referenced to benchmarks, offset lines and/or column centerlines established by the architectural drawings and the general contractor.

16. All doors must be installed plumb, square, and level, and in accordance with approved shop drawings and these installation instructions.

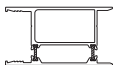
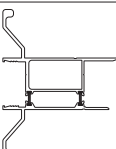
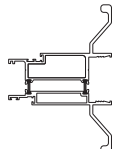
17. Glass and glazing building codes governing the design and use of products vary widely. YKK AP America Inc. does not control the selection of products, product configurations, operating hardware and function, or glazing materials, and YKK AP assumes no responsibility for these design considerations. It is the responsibility of the design professional, owner, architect, specifier, general contractor, and the installer to make these selections in strict accordance with all applicable codes.

18. Check our website, www.ykkap.com, for the latest installation manual update prior to commencing work.

YSD 600 T/TH FRAMING MEMBERS

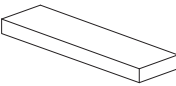
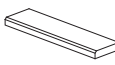
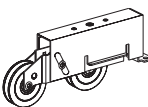
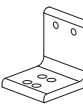
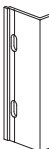
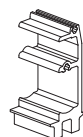
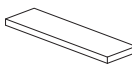
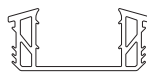
	Head	BE9-6201		Exterior Interlock Stile	E9-6210
	Sill	BE9-6202		Intermediate Mullion	BY7-9274
	Fixed Jamb	BE9-6203		Flat Filler For Intermediate Mullion	Y7-9275
	Lock Jamb	BE9-6204		Head Adaptor/Filler For Sliding Panel	E9-6211
	Jamb	BE9-7917		Sill Adaptor/Filler For Sliding Panel	E9-6212
	Top/Bottom Rail	BE9-6205		Head Adaptor/Reinforcement	E9-6213
	Fixed Stile	BE9-6206		Head Adaptor For Fixed Panel	E9-6214
	Lock Stile	BE9-6207		Vertical Screen Track	E9-4023
	Interior Interlock Stile	BE9-6208		Screen Track Base	E9-6027
	Fixed Bottom Rail	BE9-6209		Lock Meeting Stile For OXO	BE9-6224

YSD 600 T/TH FRAMING MEMBERS

	Lock Meeting Stile Cover For OXO	E9-6231		Lock Stile	BE9-6248
	Lock Meeting Stile	BE9-6225		Aluminum Reinforcement For Lock Meeting Stile BE9-6224	E9-6293*
	Latch Meeting Stile	BE9-6226		Aluminum Reinforcement For Interior Interlock Stile BE9-6208	E9-6294*

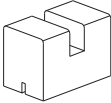
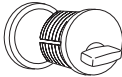
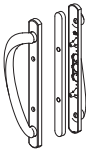
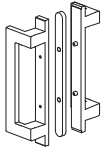
* Parts assembled to door/frame at the factory.

YSD 600 T/TH ACCESSORIES

	Track Cover Stainless Steel	E1-1601*		Setting/Side Block For Large Missile Panels	E2-0178
	Lock Strike/Keeper	E1-1618*		Side Block For Large Missile Panels	E2-0134
	Ball Bearing Rollers Stainless Steel	E1-1620*		Airtight Gasket For Frame Head & Sill	E2-0051*
	Fixed Panel Stopper Attach at Head	E1-1624		Pile Weathering	E2-0712*
	Sliding Guide	E1-1625*		Wedge Gasket For Securing Fixed Panel to Frame	E2-0671
	Fixed Panel Anchor Clip Attach at Sill	E1-1626		Exterior Glazing Gasket For Glazing Large Missile Panels	E2-0361
	Lock Strike/Keeper For OXXO	E1-1627*		Interior Glazing Spacer For Glazing Large Missile Panels, 3/8" F. C.	E2-0744
	Reinforcement Clip For OXXO Lock Stile	E1-1628*		Meeting Stile Gasket For OXXO Sliding Panels	E2-0740*
	Reinforcement Clip For OXXO Latch Stile	E1-1629*		Panel Glazing Gasket For Non-Impact & Small Missile 1" Insulated Glazing	E2-0742
	Setting Block For Non-Impact & Small Missile Panels	E2-0177		Panel Glazing Gasket For Non-Impact & Small Missile 1-3/16" Insulated Glazing	E2-0741

* Parts assembled to door/frame at the factory.

YSD 600 T/TH ACCESSORIES

	Jamb Bumper	E2-0705*		Recessed Pull Handle	3K1-1234*
	Head/Sill Bumper	E2-0709*		Thumbturn Cylinder	H-4204*
	Foam Tape For Mullion	E2-0356		Cylinder Trim Ring For Thumbturn Cylinder	P-48530*
	Anti-Lift Block	E3-1162*		MS Lock Hookbolt 1-1/2" Backset	P-2101-SS*
	Shim For Anti-Lift Block	E3-1164*		Face Plate For Hookbolt Lock	P-33118*
	Mullion Clip	E1-9845		Signature Door Handle Set Optional, Use with BE9-6248 Shoulder Bolts Included	E1-1638
	.258 Dia. Plastic Rivet	E3-1165*		Contemporary Door Handle Set Optional, Use with BE9-6248 Shoulder Bolts Included	E1-1639
	Screw Cap	K3-3004		Blade Style Door Handle Set Optional, Use with BE9-6248 Shoulder Bolts Included	E1-1640

YSD 600 T/TH FASTENERS

	#8-32 x 1/2" Type F FHTCS, Stainless Steel For Attachment of Bottom Block E1-1605	FF-0808 -SS		#10-24 x 3/4" Type F PHTCS, Stainless Steel For Attachment of Jamb Bumper E2-0705	PF-1012 -SS*
	#8 x 3/8" Type AB PHSMS, Stainless Steel For Attachment of Screen Track	PC-0806 -SS*		#10 x 5/8" PHTS (Tek) Stainless Steel For Attachment of Aluminum Reinforcing	PS-1010 -SS*
	#8-32 x 1/2" Type F PHTCS, Stainless Steel For Attachment of Ball Bearing Roller E1-1620	PF-0808 -SS*		#12 x 1" Type AB PHSMS, Stainless Steel For Attaching E1-1628 & E1-1629 Reinforc. Clips	PC-1216 -SS
	#8-32 x 1" Type F PHTCS, Stainless Steel For Attachment of Anti-Lift Block at Head	PF-0816 -SS*		#12 x 1-1/4" Type AB PHSMS, Stainless Steel For Frame & Panel Assembly	PC-1220 -SS
	#8-32 x 3/8" FHMS Stainless Steel For Attachment of Sliding Guide & Face Plate	UM-0806 -SS*		#12 x 1-1/2" Type AB PHSMS, Stainless Steel For Attaching E1-1629 Reinforcement Clip	PC-1224 -SS
	#10-32 x 2-3/8" FHMS Stainless Steel For Attachment of MS Lock to Lock Stile	FN-1038 -SS*		#12-24 x 1-1/4" Type F PHTCS, Stainless Steel For Attachment of Strike	PF-1220 -SS*
	#10 x 1" Type A PHSMS, Stainless Steel For Attachment of Sill Adaptor E9-6212	PA-1016 -SS		#14 x 3/4" Type AB PHSMS, Stainless Steel For Anchor Clip E1-1626 to Sill Attachment	PC-1412- SS
	#10 Self Sealing Washer, Stainless Steel For Use with PA-1016-SS	P-78186 -SS		#1/4 x 1/2" PHSMS Stainless Steel, For Meeting Stile to Anchor Clip E1-1626 Attachment	PM-2508- SS
	#10 x 1-1/4" Type AB PHSMS, Stainless Steel For Attachment of Head & Sill Bumpers E2-0709	PC-1020 -SS*		#1/4 x 5/8" FHMS Stainless Steel, For Anchor Clip E1-1637 to Sill Attachment	FC-1410 -SS
	#10-24 x 1/2" Type F PHTCS, Stainless Steel For Attachment of Head Adaptors & Panel Stopper	PF-1008 -SS*			

* Parts assembled to door/frame at the factory.

ASSEMBLE SLIDING & FIXED PANELS

STEP 1A

INSTALL GLAZING GASKETS (NON-IMPACT & SMALL MISSILE PANELS ONLY)

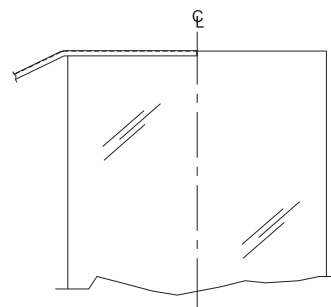
- Lay glass on flat surface with access to all four edges (i.e. lay glass on sawhorses).
- Locate the roll of gasket supplied with the sliding door package.
- Add up the total perimeter for each lite of glass:
 $(2 \times \text{Width}) + (2 \times \text{Height})$
 Ex.: A unit 34" wide by 76" tall would have 220" total.
- Cut the gasket to the length determined above for each lite plus 6".
- Begin by installing the gasket at the center of the top of each lite.

See **Detail 1**.

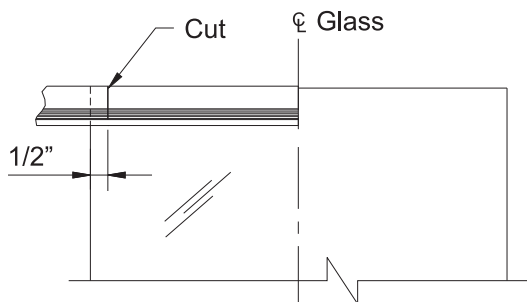
- Cut the gasket 1/2" away from the corner.
- Cut the gasket squarely.

Caution: Do not cut through the trim lip of the gasket.

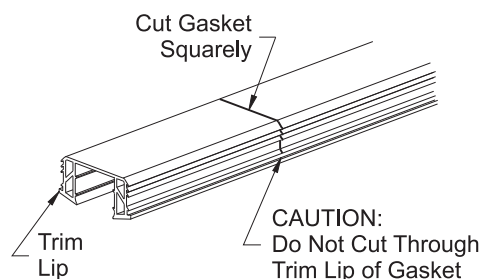
See **DETAIL 2**.



Detail 1



Detail 2

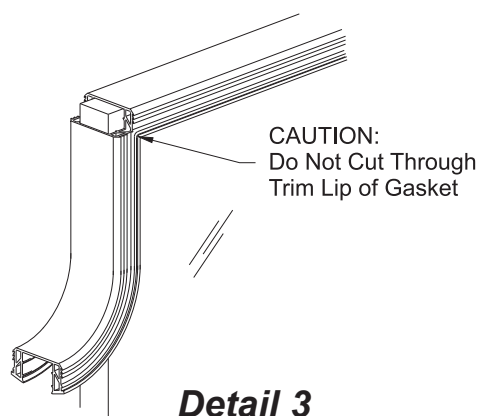


- Wrap the gasket around the corner and install the gasket around the glass moving down the side of the lite.

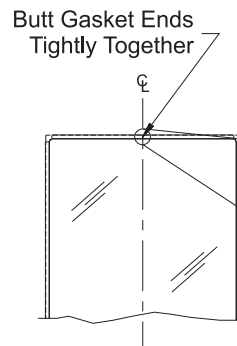
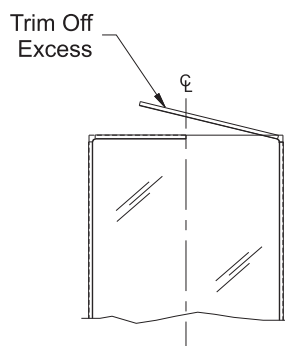
See **DETAIL 3**.

- Cut the gasket 1/2" away from the next corner.
- Proceed around the lite repeating the steps called out above.
- Trim off the excess gasket at the end and butt the ends of the gasket against each other, allowing an extra 1/4" to ensure a tight fit.

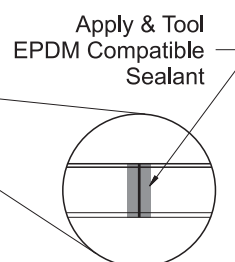
See **DETAIL 4**.



Detail 3



Detail 4



ASSEMBLE SLIDING & FIXED PANELS

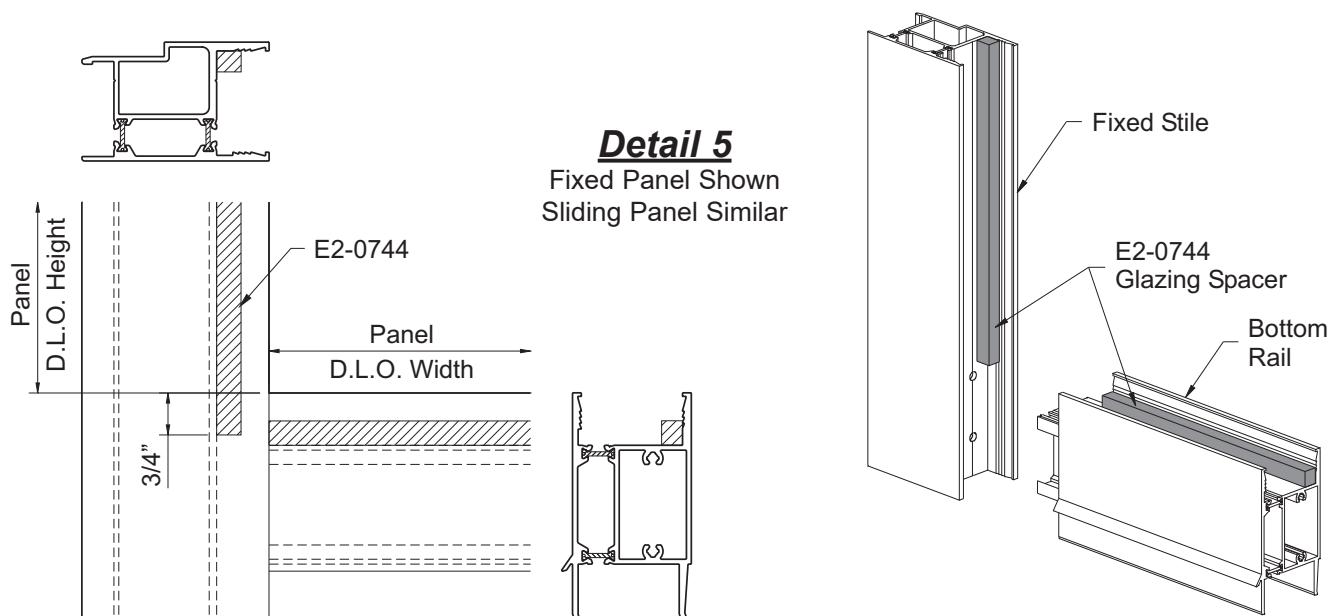
STEP 1B

INSTALL GLAZING SPACERS & SIDE BLOCKS (LARGE MISSILE PANELS ONLY)

Large missile panels require the installation of glazing tape, E2-0744, prior to assembling the panel members.

- Cut top/bottom rail glazing tape to the Panel Daylight Opening Width.
 - Cut stile glazing tape to the Panel Daylight Opening Height plus (+) 1-1/2" (3/4" at each end).
 - Remove the protective backing from the glazing tape and apply it as shown below.
- Be careful not to stretch the tape when installing it.

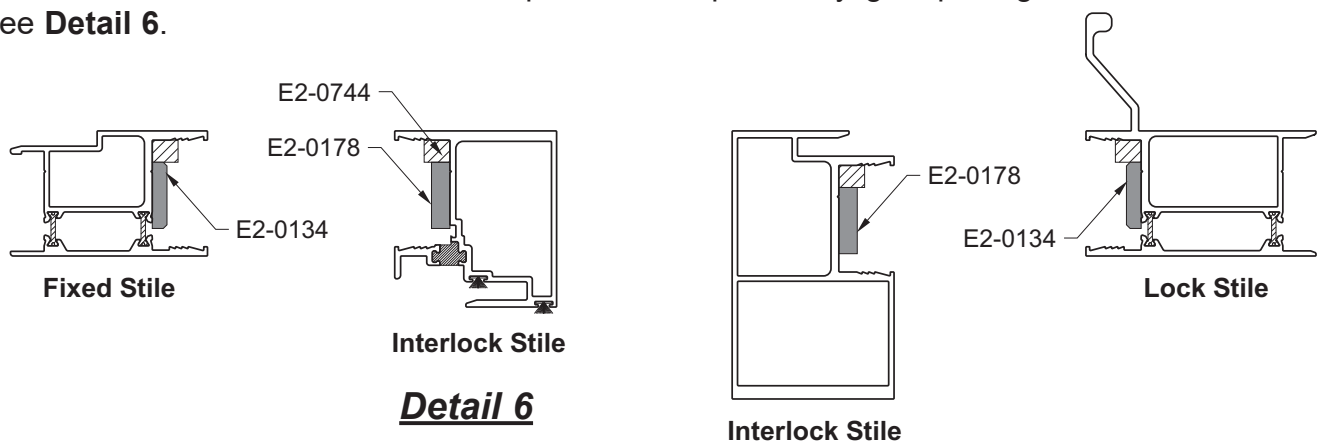
See **Detail 5**.



Large missile sliding panels also require the installation of side blocks, E2-0134 for fixed and lock stiles and E2-0178 for interlock and meeting stiles.

- Remove the protective backing from the side blocks, apply sealant to the backs of the blocks, and install them at the 1/4 points of the panel daylight opening as shown below.

See **Detail 6**.



ASSEMBLE SLIDING & FIXED PANELS

STEP 2

GLAZING SLIDING PANELS (FOR ALL PANELS)

-Just prior to assembling the panels apply and tool sealant to the glass corners behind the gasket on both sides.

See **Detail 7**.

-Carefully lay the lite of glass down onto a pair of sawhorses.

-Apply sealant to the notched out ends of the top and bottom rails.

See **Detail 8**.

-Install setting blocks, E2-0177 for non-impact and small missile, or E2-0178 for large missile, along the bottom rail glazing pocket at 1/4 points or according to engineering calculations.

-Insert the top and bottom rails centered on the lite of glass with the exterior side of the panel facing up.

-Align the stiles (exterior sides facing up) with the rails and attach them using a rubber mallet. Make sure all glazing gaskets or spacers are properly aligned.

Note: A clamp or strap may be used to ensure the bow is removed from the sides.

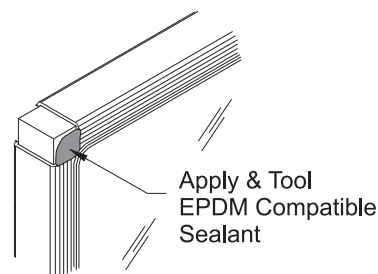
-Fasten each corner of the sliding panel with two PC-1220-SS fasteners.

-Tool and wipe away excess sealant at the joints.

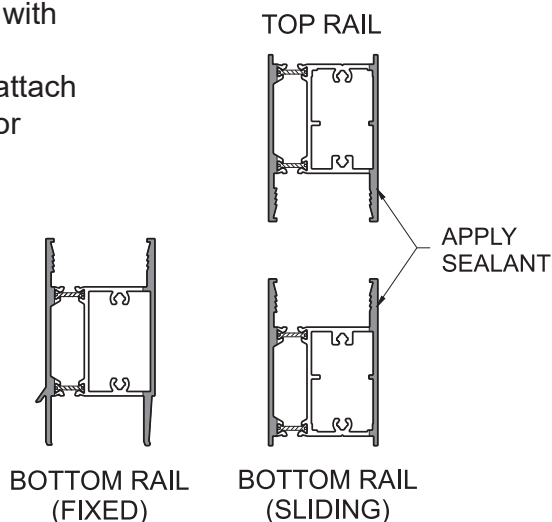
-Install screw caps, K3-3004, into the clear holes at the top and bottom of the fixed and lock stiles.

Note: The middle hole at the bottom is left unplugged for adjustment of the rollers. Screw caps for interlock & lock meeting stiles can only be installed after the head and sill fillers are attached.

See **Detail 9** on **Page 8**.



Detail 7



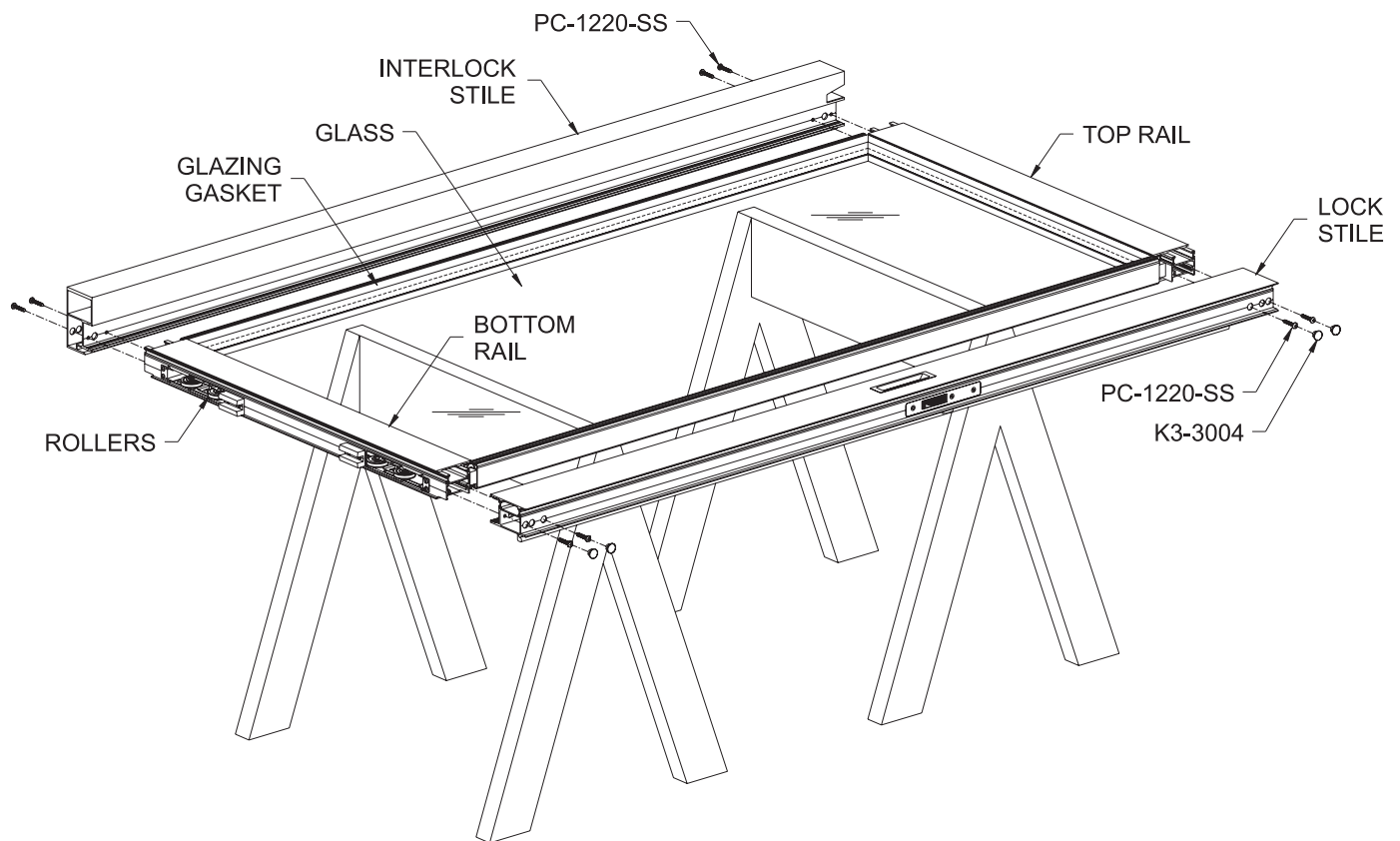
Detail 8

Non-Impact Sliding
Panel Shown
Others Similar

ASSEMBLE SLIDING & FIXED PANELS

STEP 2 (Continued)

GLAZING SLIDING PANELS (FOR ALL PANELS)



Detail 9

Non-Impact Sliding
Panel Shown
Others Similar

ASSEMBLE SLIDING & FIXED PANELS

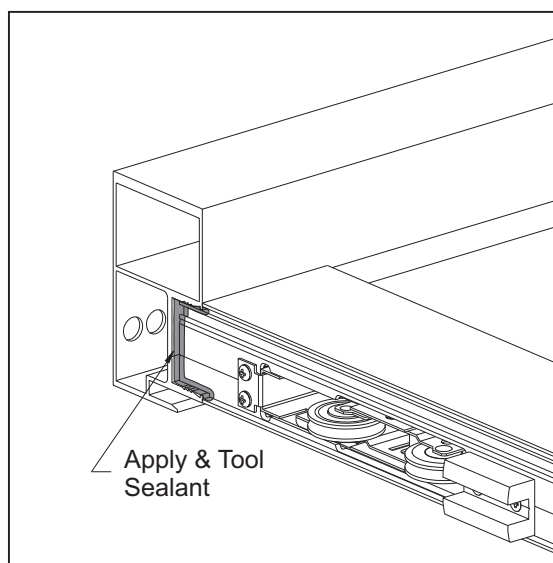
STEP 2 (Continued)

GLAZING SLIDING PANELS (FOR ALL PANELS)

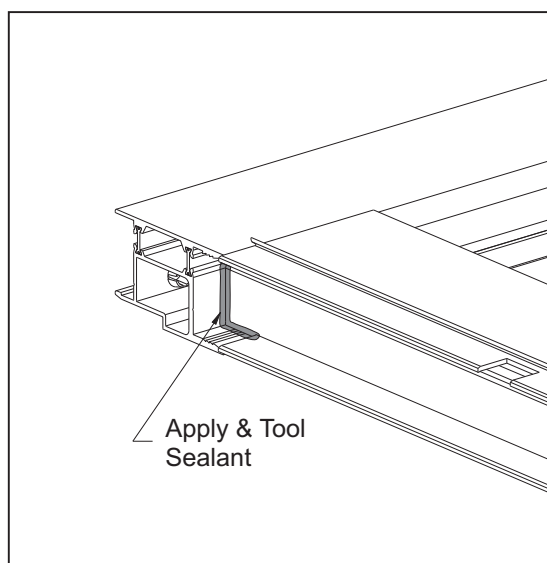
Seal Exterior Panel Joints

- Apply sealant to the exterior joints between the rails and stiles at both the top and bottom of the assembled panels.
- Tool the sealant to ensure a watertight seal.

See **Details 10 & 11.**



Detail 10
Sliding Panel Shown

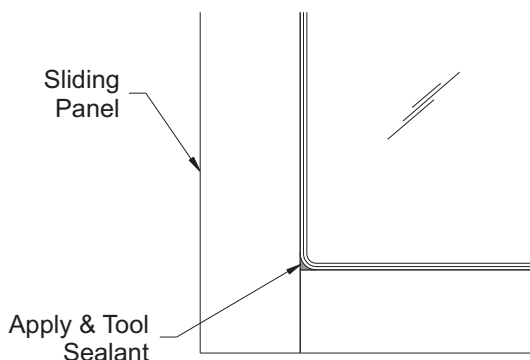


Detail 11
Fixed Panel Shown

STEP 2 A FOR ALL SMALL MISSILE & NON-IMPACT PANELS

- Apply and tool sealant to the joint between the marine gasket and panel corners. Seal at each corner and on both sides of the panel.

See **Detail 12.**



Detail 12

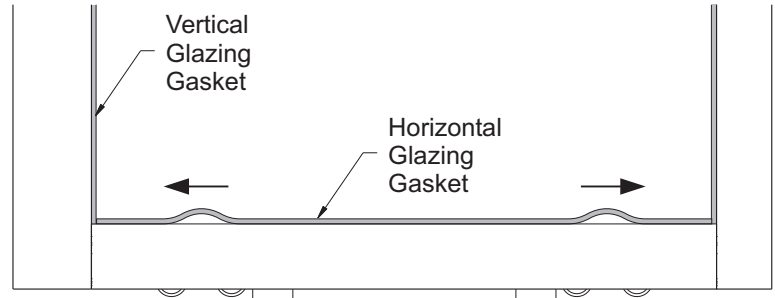
ASSEMBLE SLIDING & FIXED PANELS

STEP 2 B

GLAZING SLIDING PANELS (FOR ALL LARGE MISSILE PANELS)

Install Glazing Gaskets

- Cut horizontal & vertical glazing gaskets to Panel Daylight Opening plus (+) 3/16" for each foot of length.
- Install the vertical glazing gaskets first then the horizontal gaskets.
- Insert the gasket at each end. Then insert the gasket at the midpoint of the opening and push the remainder of gasket in working towards each end.

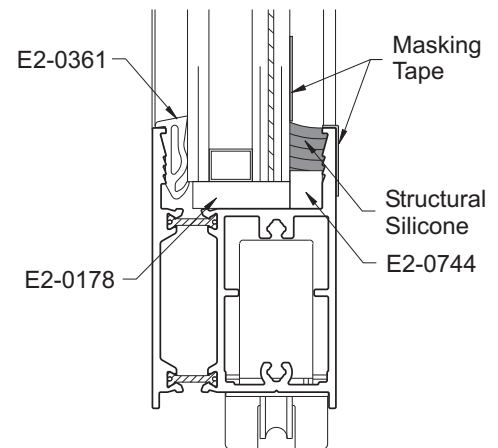


See **Detail 13**.

Detail 13

Apply Interior Structural Silicone Sealant

- Carefully turn over the assembled sliding panel so that the interior of the panel is facing up. Rest the frame on the sawhorses allowing the weight of the glass to compress the push-in wedge gaskets.
- Make sure that all silicone contact surfaces and joints have been cleaned with isopropyl alcohol (50%) and lint free cloths using the "two cloth method."
- Apply masking tape to the aluminum and glass as shown.
- Apply structural silicone sealant into the cavity between the panel and glass. Exert positive pressure so that the sealant completely fills the cavity.
- Using a spatula or other non-scratching implement, immediately tool the sealant after running the joint. Exert positive pressure while tooling to ensure that the sealant makes positive contact with all surfaces.



Be careful not to remove too much sealant!

- Remove the masking tape within ten minutes of tooling.

Do not allow the sealant to skin over!

Detail 14

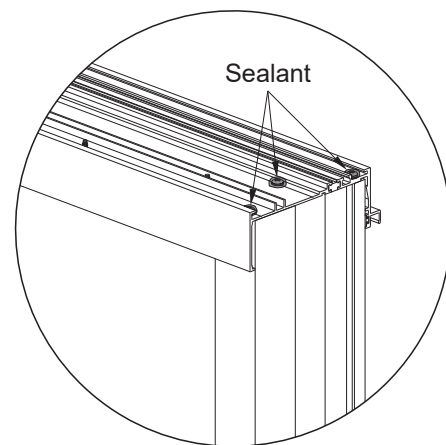
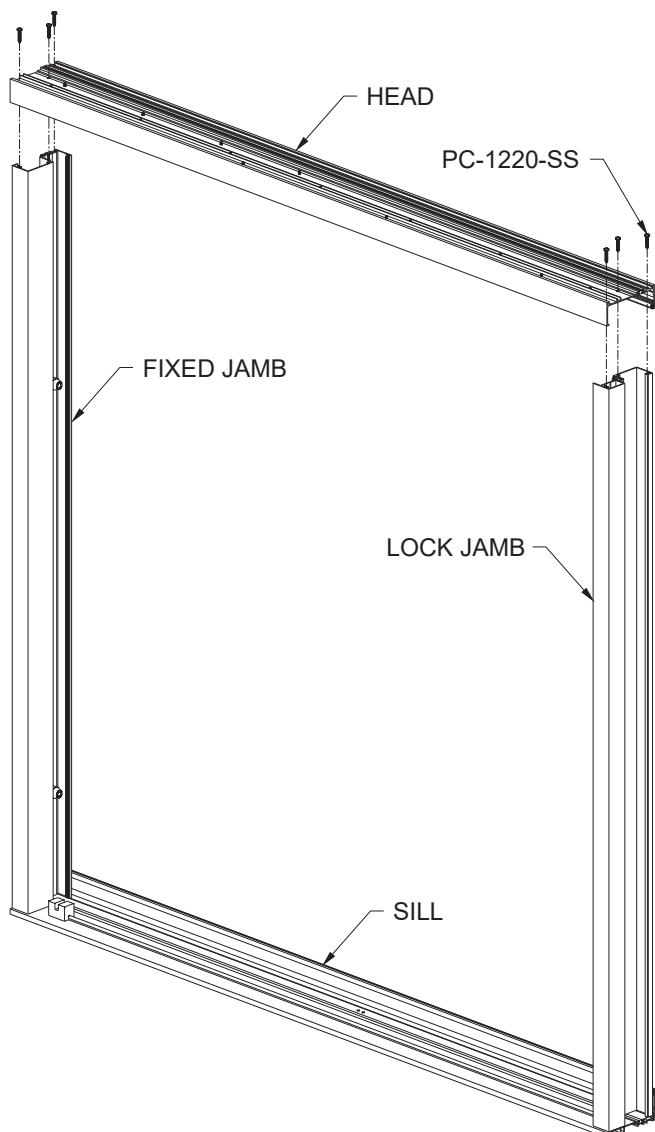
See **Detail 14**.

ASSEMBLE SLIDING DOOR FRAME

STEP 3

ASSEMBLE SLIDING DOOR FRAME

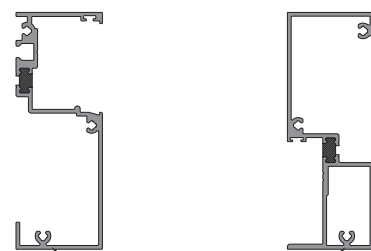
- Lay out members and locate fastener locations.
 - Apply sealant to each end of the jamb members.
 - Attach the jamb members to the head and sill with PC-1220-SS fasteners as shown.
 - Tool and wipe away any excess sealant at the joints.
 - Apply sealant to all exposed fastener heads.
- See **Details 15 & 16**.



Detail 16

BE9-6203
Fixed Jamb

BE9-6204
Lock Jamb



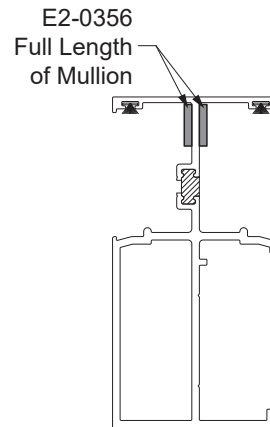
Detail 15

ASSEMBLE SLIDING DOOR FRAME

STEP 3A (For use with BY7-9274 Intermediate Mullion)

ASSEMBLE SLIDING DOOR FRAME

-Adhere E2-0356 tape to both sides of the mullion web (the full length of the mullion) as shown in **Detail 17**.



Detail 17

ASSEMBLE SLIDING DOOR FRAME

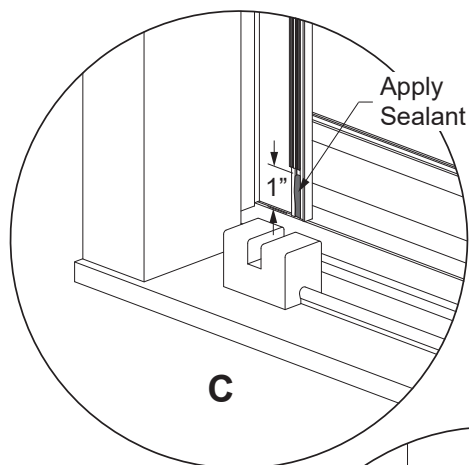
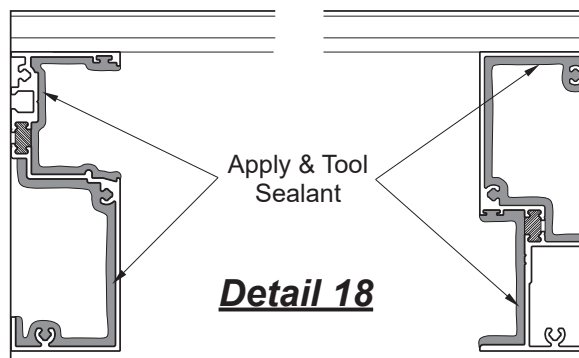
STEP 4

SEAL SLIDING DOOR FRAME

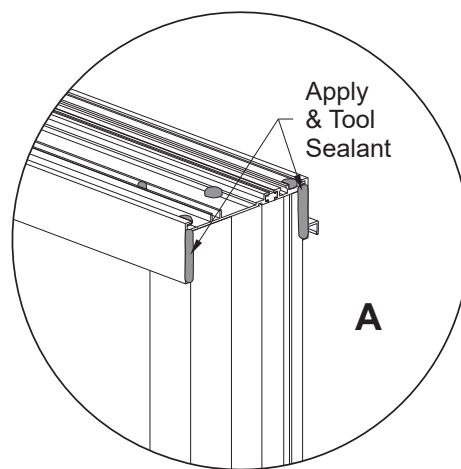
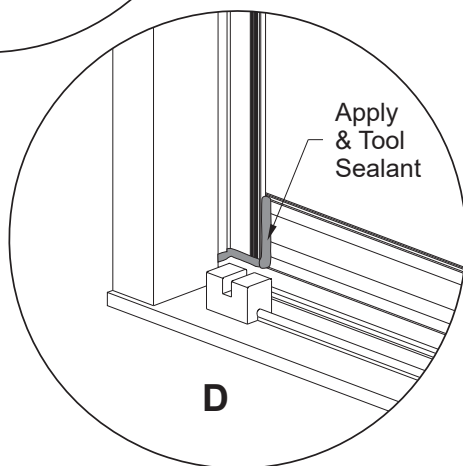
-Apply additional sealant to the head/jamb and sill/jamb joints along the inner and outer pockets.
-Tool the sealant to ensure a watertight seal.
See **Detail 18**.

-At the exterior frame corners, apply and tool additional sealant to the spaces between the legs of the head and sill and the jamb.
See **Detail 19A & 19B**.

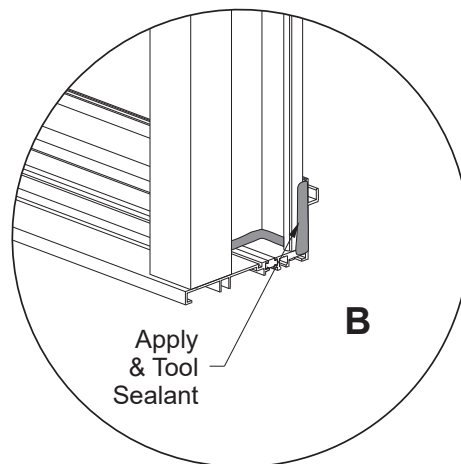
-At the interior frame corners, pull up the weatherstrip from the sill and apply a 1" bead of sealant in the reglet as shown in **Detail 19C**. Slide the weatherstrip down into the sealant and tool.
-Then apply and tool additional sealant to the spaces between the jamb and the back leg of the head and sill.
See **Detail 19D**.



Fixed Jamb Shown
Lock Jamb Similar



Lock Jamb Shown
Fixed Jamb Similar



Lock Jamb Shown
Fixed Jamb Similar

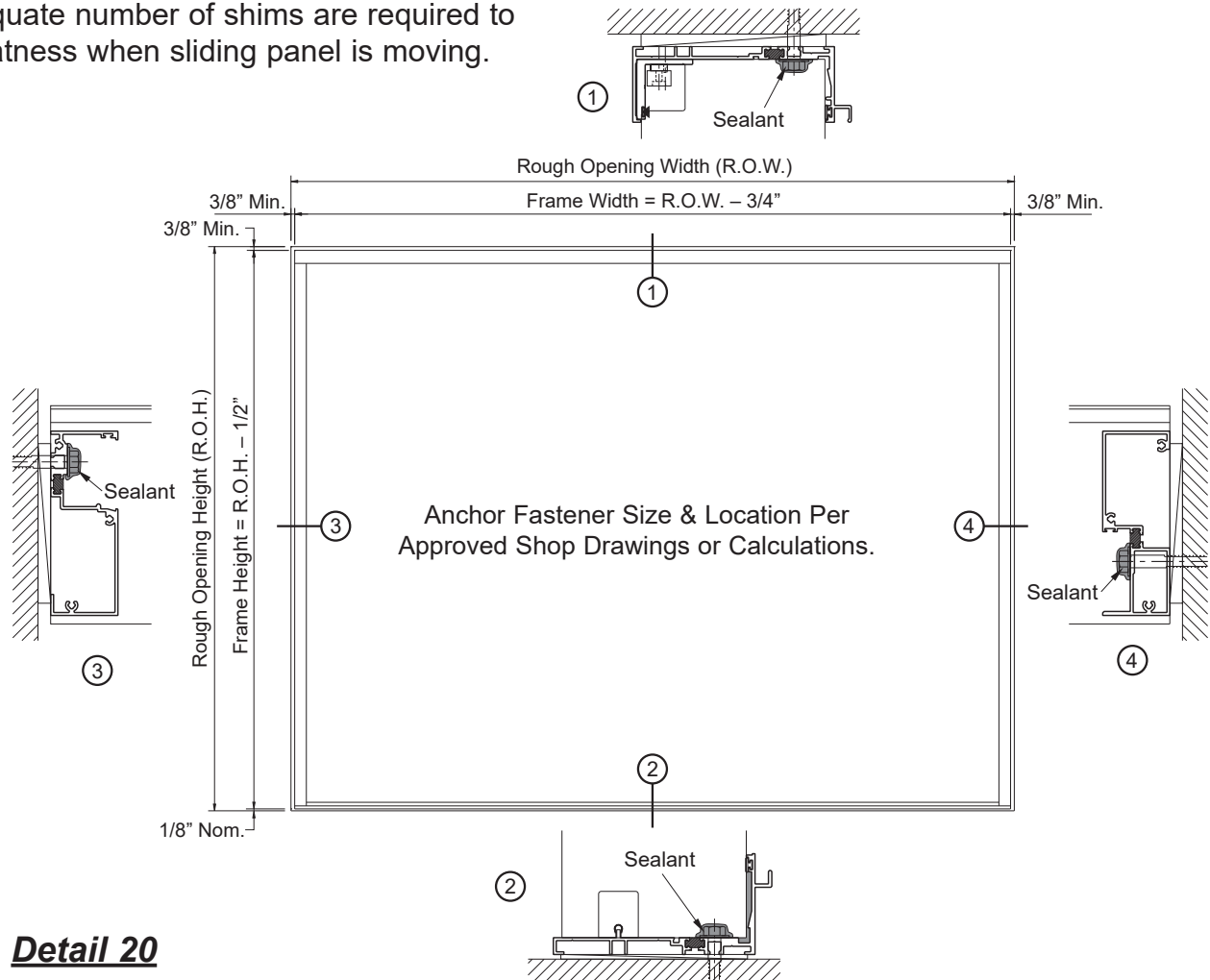
INSTALL SLIDING DOOR FRAME

STEP 5

ANCHOR SLIDING DOOR FRAME

- The sliding door sill must be flat and level for sliding panel operation.
- Check the rough opening for squareness and plumb at both ends. Also, make sure that appropriate nominal shim space has been allowed for (3/8" minimum at the head and jambs, 1/8" nominal at the sill.)

Note: Adequate number of shims are required to maintain flatness when sliding panel is moving.

**Detail 20**

- Set the assembled frame in the prepared opening on a bed of sealant.
- Temporarily attach the frame to the structure using clamps and/or rope.
- Field drill the head, sill, and jambs for anchor fasteners according to approved shop drawings or engineering calculations. Consult YKK AP if load requirements are in question.
- Shim the head and jambs as needed; the frame must be level, plumb, and true.
- Sill must be shimmed as required to ensure it is flat, level, and fully supported to allow proper operation of the door.
- Anchor the frame to the structure using appropriate anchor fasteners.
- Seal all anchor fastener heads.

See **Detail 20**.

INSTALL DOOR PANELS

STEP 6

INSTALL FIXED PANELS

-Prior to installing the fixed panel, attach anchor clip E1-1626 to the fixed panel meeting stile with two (2) PM-2508-SS fasteners.

-Apply sealant to the sill where the holes are pre-drilled for the anchor clip.

See **Detail 21**.

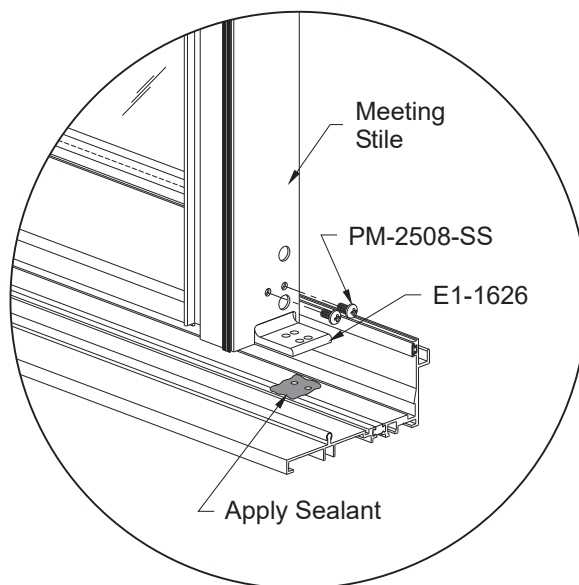
-Set the fixed panel into the frame and move it over tight against the fixed jamb. Make sure that the sill anchor clip holes align with the predrilled holes in the sill.

See **Detail 22**.

-Position the fixed panel stopper, E1-1624, tight against the fixed panel and aligned with the pre-drilled hole in the frame head.

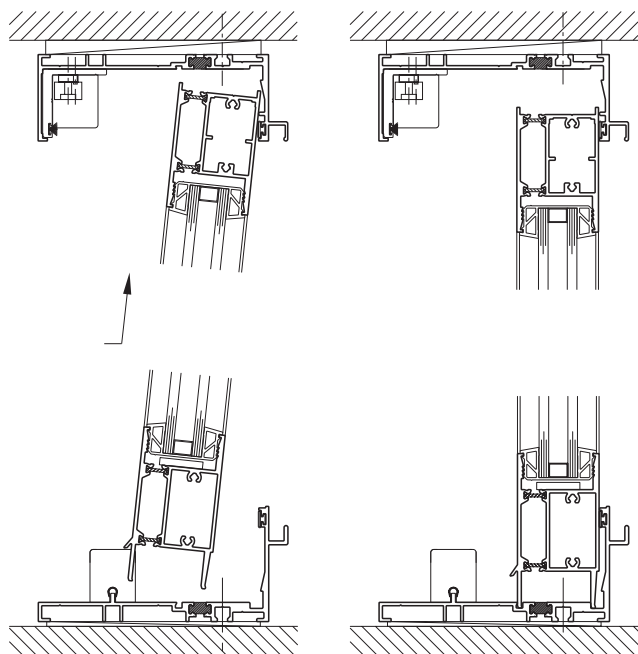
-Attach E1-1624 to the frame head with one PF-1008-SS fastener.

See **Detail 23**.



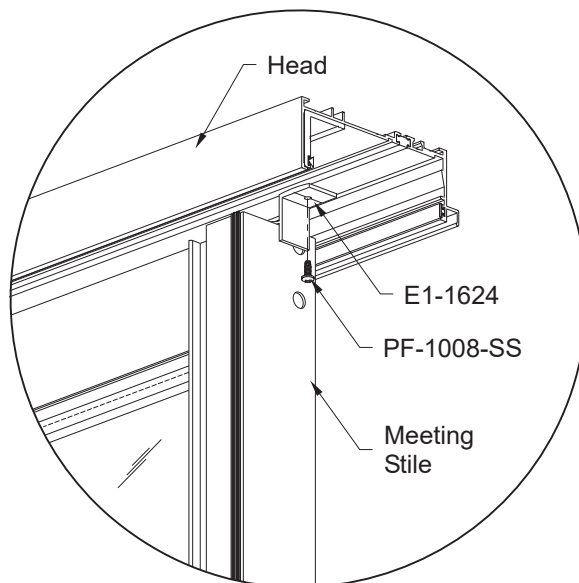
Detail 21

Standard Sill



Detail 22

Standard Sill



Detail 23

INSTALL DOOR PANELS

STEP 6 (Continued)

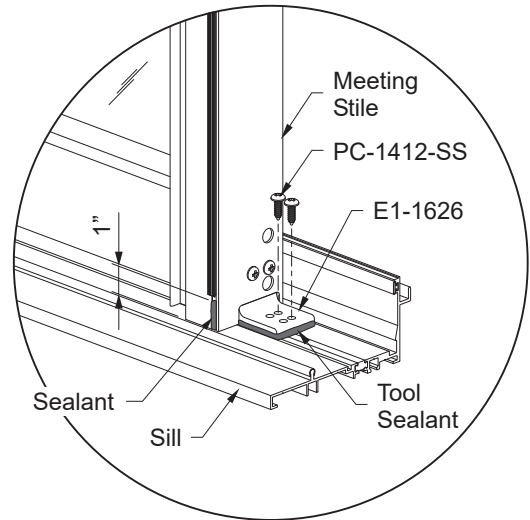
INSTALL FIXED PANELS

-At the fixed meeting stile, pull up the weatherstrip from the sill, and apply a 1" bead of sealant in the reglet as shown in **Detail 23**. Slide the weatherstrip down into the sealant and tool.

-Secure the panel anchor clip, E1-1626, to the sill with two PC-1412-SS fasteners.

-Tool the excess sealant around the anchor clip.

See **Detail 24**.



Detail 24
Standard Sill

STEP 6A

INSTALL MULLION (after installation of fixed panel)

-Stand mullion onto end of fixed panel applying pressure to seal the mullion against the fixed panel.

-Apply sealant to area around mounting holes at head and sill.

-Attach mullion anchors into predrilled holes in head and sill using PC-1412-SS. Match drill through mullion clip E1-9845 into mullion using 13/64" drill bit. Attach anchor to mullion using PC-1412-SS.

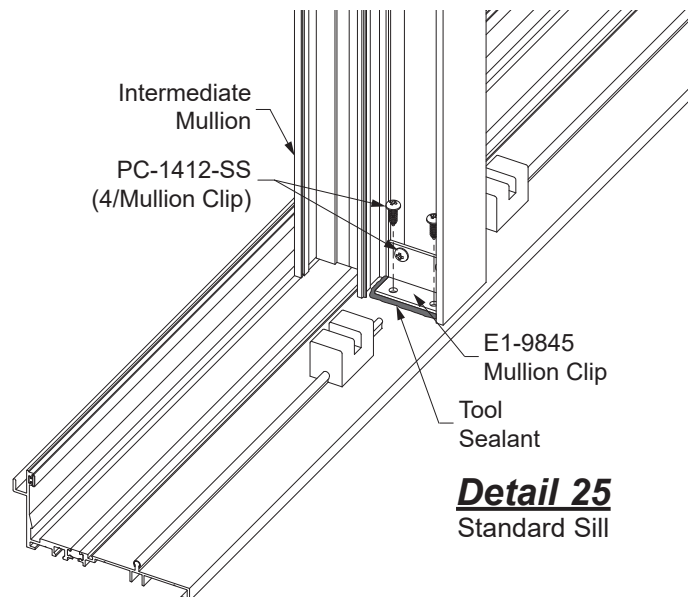
See **Detail 25**.

-Tool excess sealant.

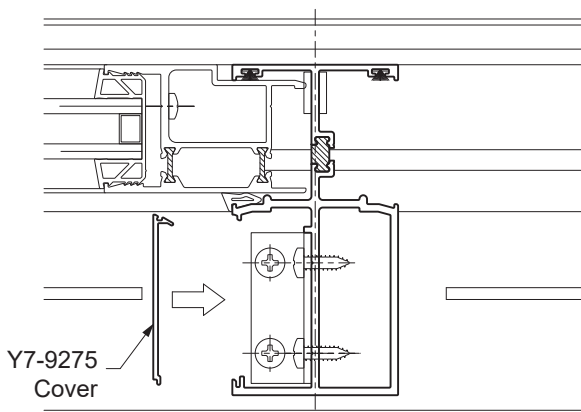
-Snap Y7-9275 cover into mullion.

-Install next fixed panel.

See **Detail 26**.



Detail 25
Standard Sill



Detail 26
Standard Sill

INSTALL DOOR PANELS

STEP 6 (Continued) INSTALL FIXED PANELS

Install Fixed Panel Head Adaptor E9-6214

-Position the head adaptor E9-6214 at the head between the jamb and the interlock stile.
Make sure that the head adaptor is flat against the head and the head adaptor attachment leg sits in the head reglet properly.

See **Detail 27**.

-Transfer hole locations from the pre-drilled clear holes on the head adaptor to the frame head.

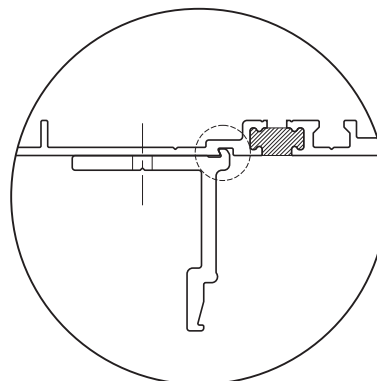
-Remove the head adaptor and drill 0.161" dia. (#20 bit) holes at each location.

-Apply sealant to the top of the head adaptor around the clear hole areas.

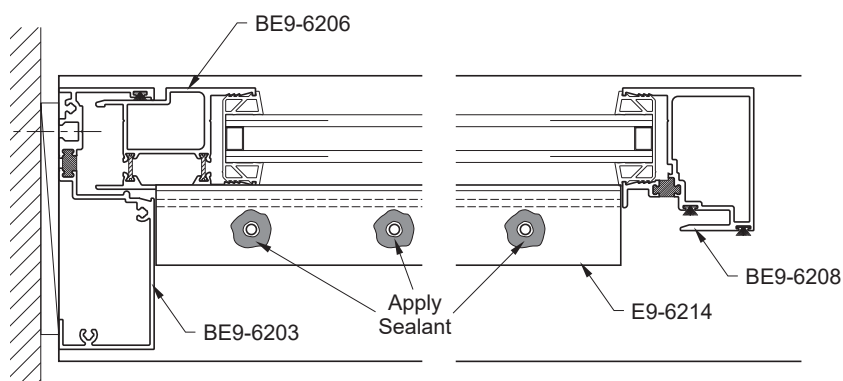
-Attach the head adaptor E9-6214 to the frame head using PF-1008-SS fasteners.

See **Detail 28**.

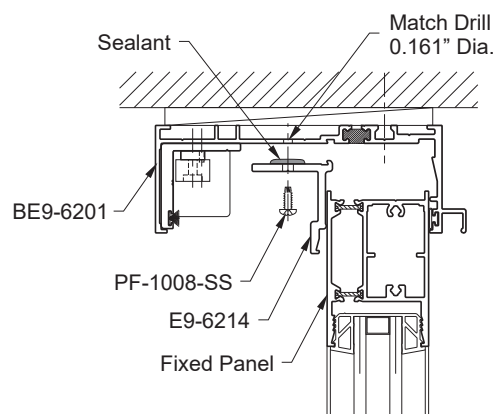
Note: A clamp may be used to hold the panel back to the gasket at the head.



Detail 27



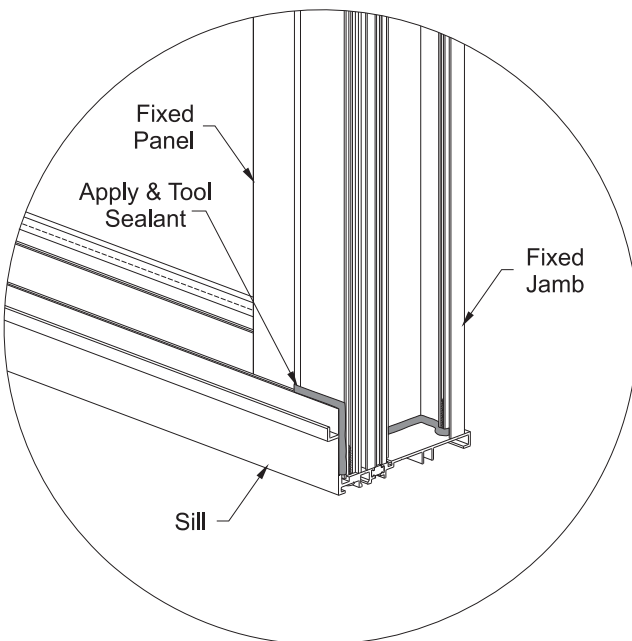
Detail 28



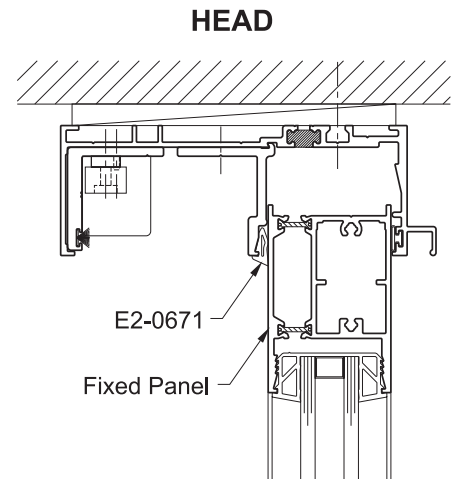
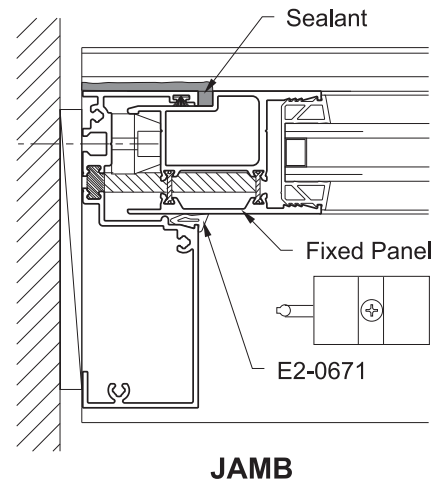
INSTALL DOOR PANELS

STEP 6 (Continued)
INSTALL FIXED PANELS

- Cut vertical gaskets, E2-0671, to the Panel Height plus (+)1/4" per foot.
- Cut horizontal gaskets, E2-0671, to the Panel Width plus (+) 1/4" per foot.
- Lubricate the gaskets with water to facilitate the installation.
- Install the vertical gaskets where the fixed panel stile meets the fixed jamb first.
- Then install the horizontal gaskets where the fixed panel top rail meets the head adaptor E9-6214.
- Insert the gasket into the reglet at each end.
- Push in the rest of the gasket starting from the middle and work towards each end.

See **Detail 29**.**Detail 30**

Sill Shown, Head Similar

**Detail 29**

- At the head and sill, fill the cavity between the fixed panel and fixed jamb with sealant, continue to end of sill.
- Tool the sealant to ensure a watertight seal.

See **Detail 30**.

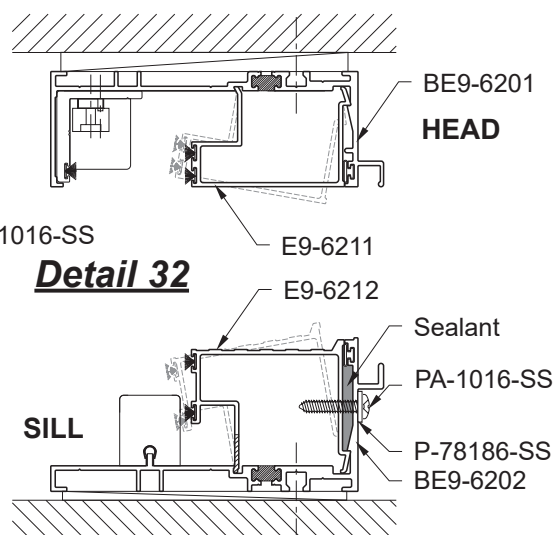
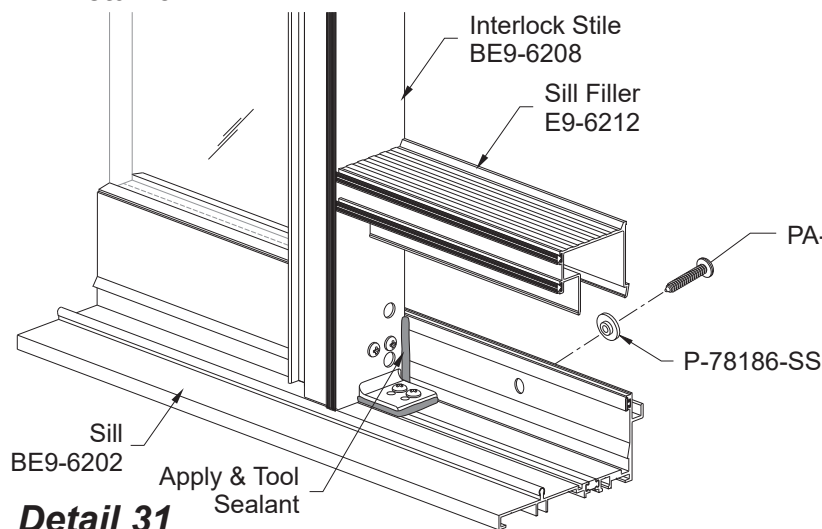
INSTALL DOOR PANELS

STEP 7

ATTACH SLIDING PANEL HEAD & SILL FILLERS

-Just prior to attaching sliding panel head & sill fillers, apply and tool sealant to the joint between the sill back leg and the interlock or lock meeting (OXO only) stiles. Apply a bead of sealant along the back leg of the sill.

See **Detail 31**.



-Insert the front leg of the head and sill fillers into the filler reglets and rotate the fillers into place as shown. See **Details 31 & 32**.

Note: Head and sill fillers must snap to ensure positive engagement. If it is difficult to snap in the fillers, you may have to puncture (pinhole) the sill/head bulb gasket to let out excess air.

-The BE9-6202 sill contains predrilled clearance holes for fastening the E9-6212 sill filler to the BE9-6202 sill. See **Detail 33**.

-Drill 5/32" diameter pilot holes on E9-6212 sill filler, thru the clearance holes that are located on the BE9-6202 sill. After drilling the pilot holes on the sill filler, fill the holes with sealant. This sealant must reach the E9-6212 sill filler.

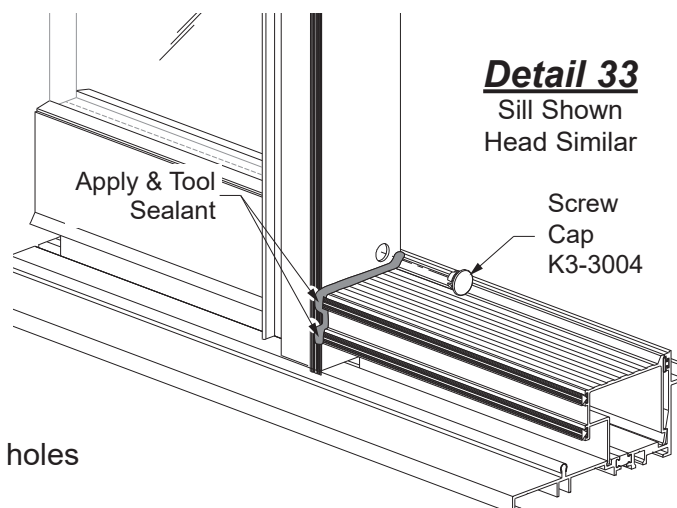
-Position P-78186-SS washer over hole with the neoprene side facing the sill, insert and tighten PA-1016-SS fastener. Remove excess sealant after tightening the PA-1016SS fastener.

See **Detail 32**.

-Once the head and sill fillers are installed apply and tool sealant to the joint where the fillers meet the lock jamb and interlock or meeting stiles.

-Apply and tool sealant where the head and sill filler weatherstrip meets the stile weatherstrip.

-Insert screw caps, K3-3004, into the exposed clear holes on the stile. See **Detail 33**.



INSTALL DOOR PANELS

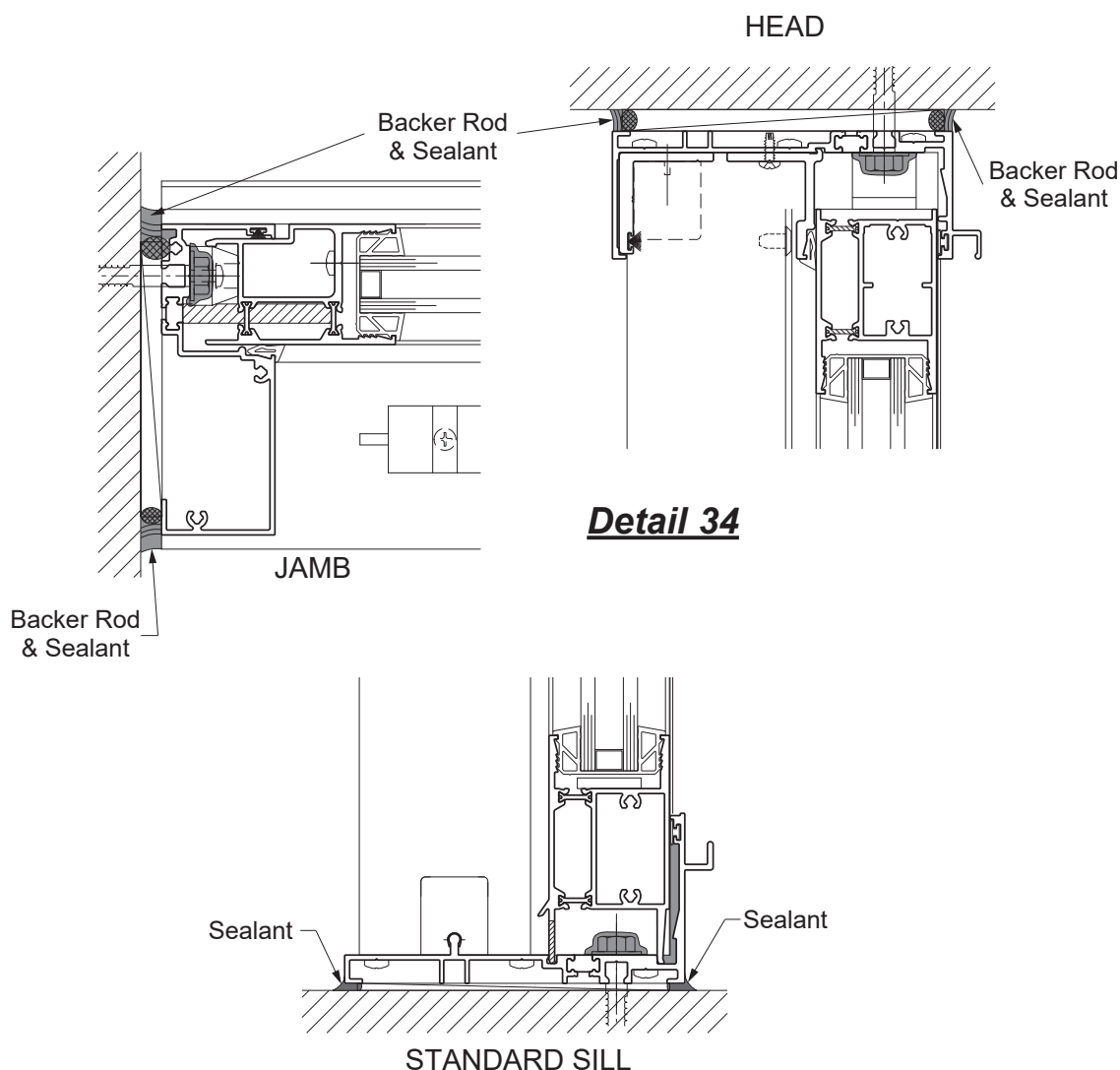
STEP 8

APPLY PERIMETER SEALANT

- Install backer rod between the frame head and jambs and the structure.
 - Apply masking tape to the frame where sealant is applied.
 - Apply perimeter sealant at the head, jambs, and sill.
 - Immediately tool the sealant to ensure watertight seal and remove the masking tape while the sealant is still wet.
-
- Apply a toe bead at the exterior of the sill and a heel bead at the interior.
 - Tool the sealant to ensure watertight seal.

Note: Perimeter sealant must be applied to both the exterior and interior of the frame.

See **Detail 34**.



INSTALL DOOR PANELS

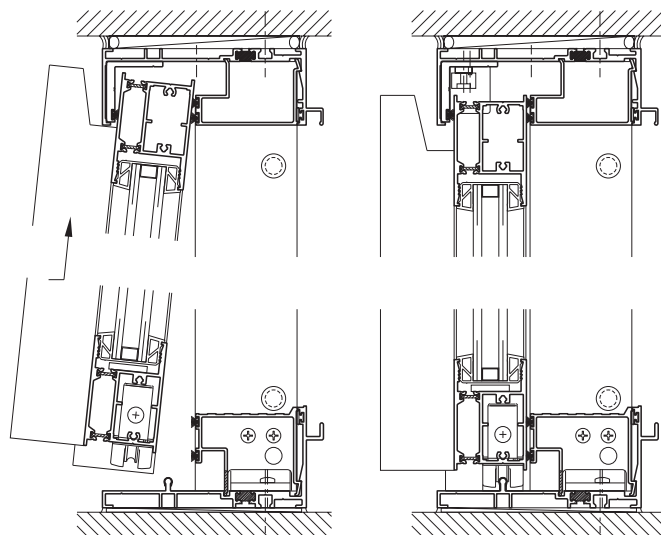
STEP 9

INSTALL SLIDING PANELS

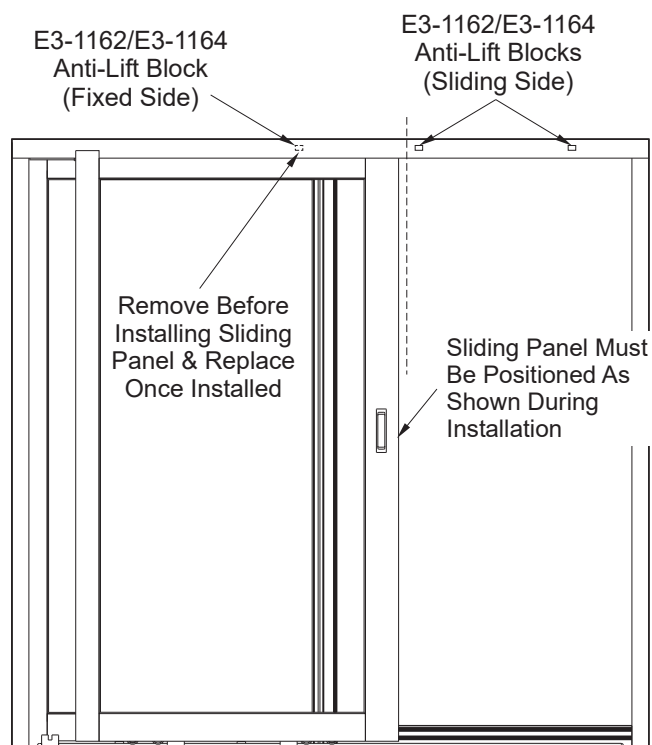
- Remove the one anti-lift block from the fixed side of the sliding door.
- Lift the sliding panel(s) up into the frame on the fixed panel side in order to clear the anti-lift blocks.
- Carefully lower the panel(s) down onto the roller track. Make sure that the rollers are properly aligned with the roller track.
- Slide the sliding panel back to the closed position and replace the anti-lift block previously removed.

See **Details 35 & 36**.

Caution: Do not allow the rollers to contact the floor before installing the sliding panels. Damage to the rollers may occur.



Detail 35



Detail 36
OX Shown
Others Similar

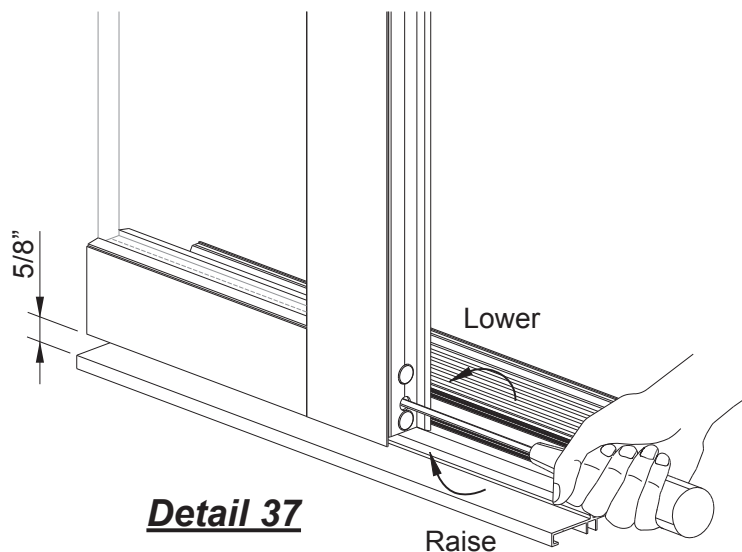
INSTALL DOOR PANELS

STEP 10

ADJUST SLIDING PANELS

- Adjust the rollers of the sliding panel(s) through the access hole on each side so that the door is level and rolls freely:
 - Clockwise to raise panel.
 - Counterclockwise to lower panel.

See **Detail 37**.

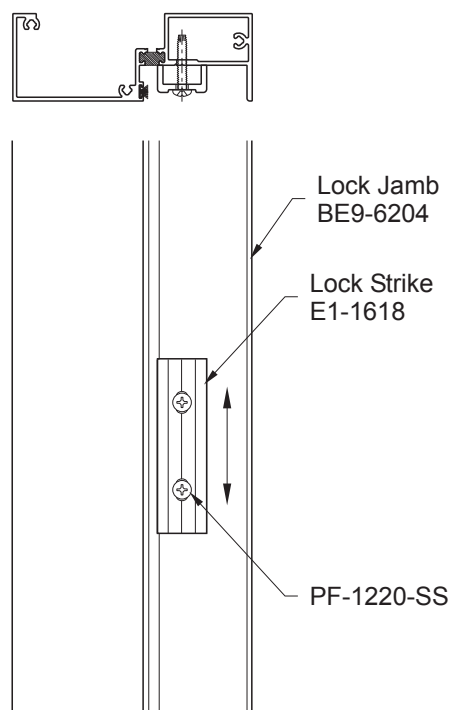


If the Lock Does Not Operate Properly, Adjust the Lock Strike

- Loosen the lock strike fasteners.
- Adjust the lock strike on the frame so that the lock engages correctly.
- Tighten the lock strike fasteners.

See **Detail 38**.

Detail 38



INSTALL DOOR PANELS

STEP 11 (OPTIONAL) ATTACH PULL HANDLES

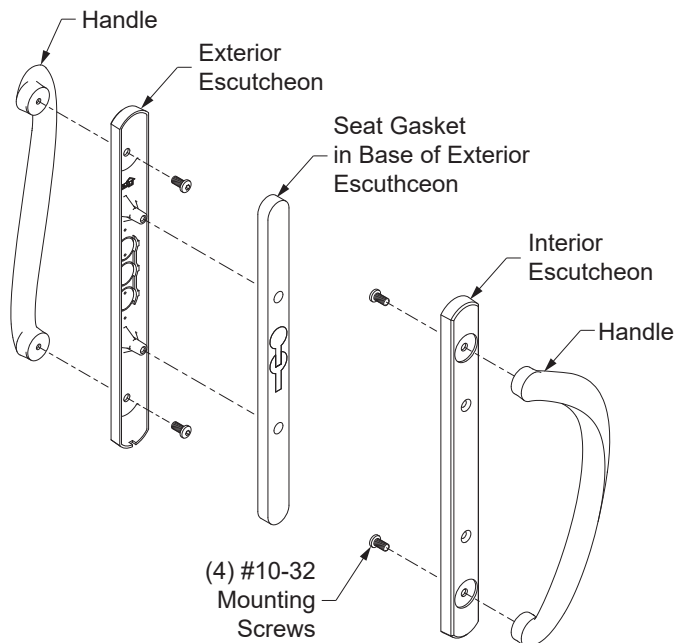
For E1-1638 Signature and E1-1639 Contemporary Pull Handle Assemblies:

-Fasten the escutcheon plates onto the door handles using the #10-32 x 3/8" mounting screws. See **Detail 39**.

Note: For the E1-1638 Signature handle, observe the proper orientation as shown in **Detail 39A**.

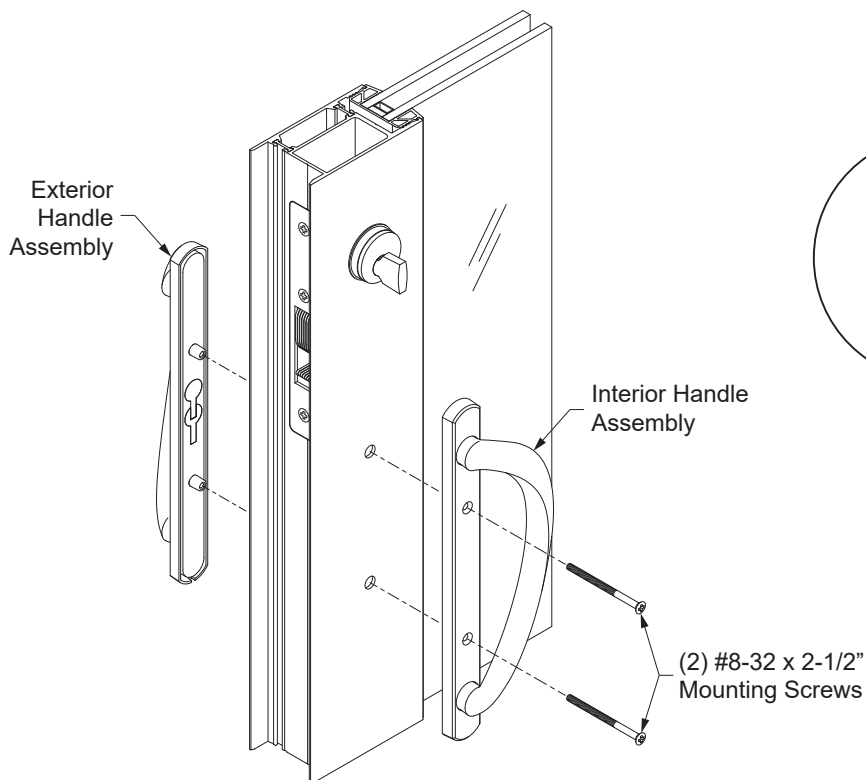
-Insert the gasket into the exterior escutcheon plate.

-Install the interior and exterior handle assemblies onto the lock stile using the #8-32 x 2-1/2" mounting screws. See **Detail 40**.



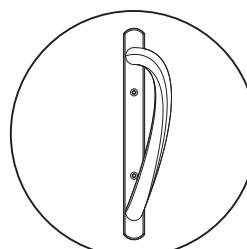
Detail 39

Signature Handle Shown,
Contemporary Similar

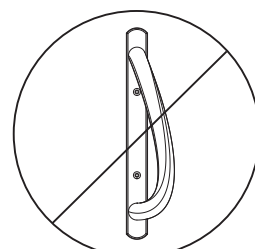


Detail 40

Signature Handle Shown,
Contemporary Similar



Correct



Incorrect

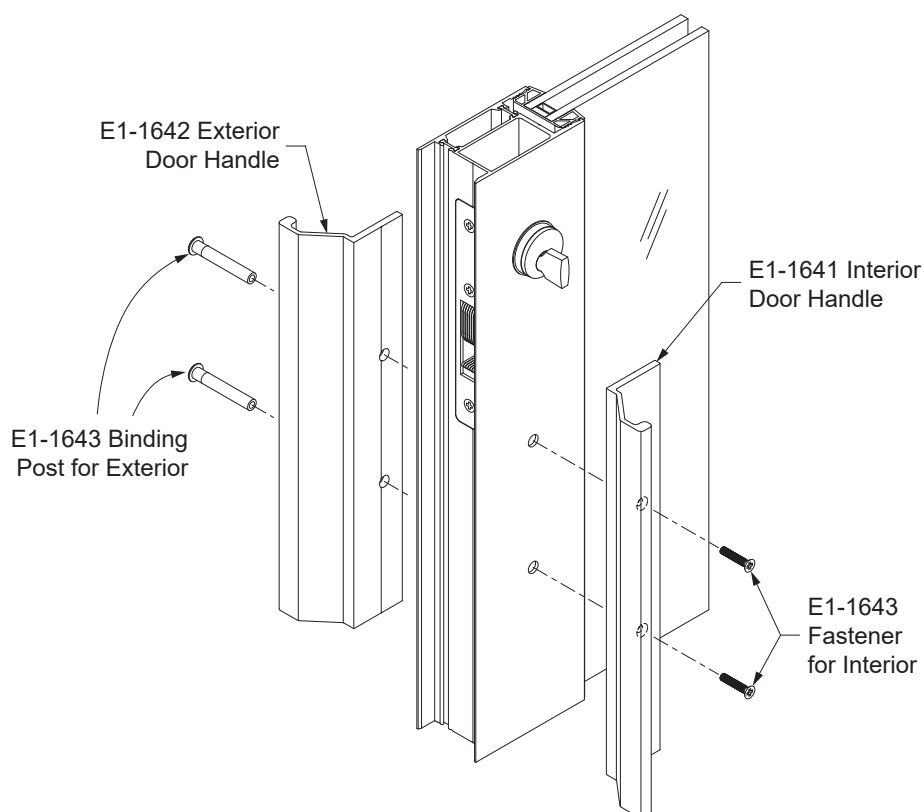
Detail 39A

Signature Handle Only

INSTALL DOOR PANELS**STEP 11 (OPTIONAL)
ATTACH PULL HANDLES****For E1-1640 Blade Style Pull Handle Assembly:**

Note that the E1-1641 interior door handle has the countersunk holes, while the E1-1642 exterior door handle has the larger clear holes for the binding posts.

-Insert the exterior binding post portions of the E1-1643 thru bolt into the E1-1642 exterior door handle. Insert the fastener portion of the binding post bolt into the E1-1641, and fasten the handles onto the lock stile as shown in **Detail 41**.

**Detail 41**

INSTALL VERTICAL SCREEN TRACKS

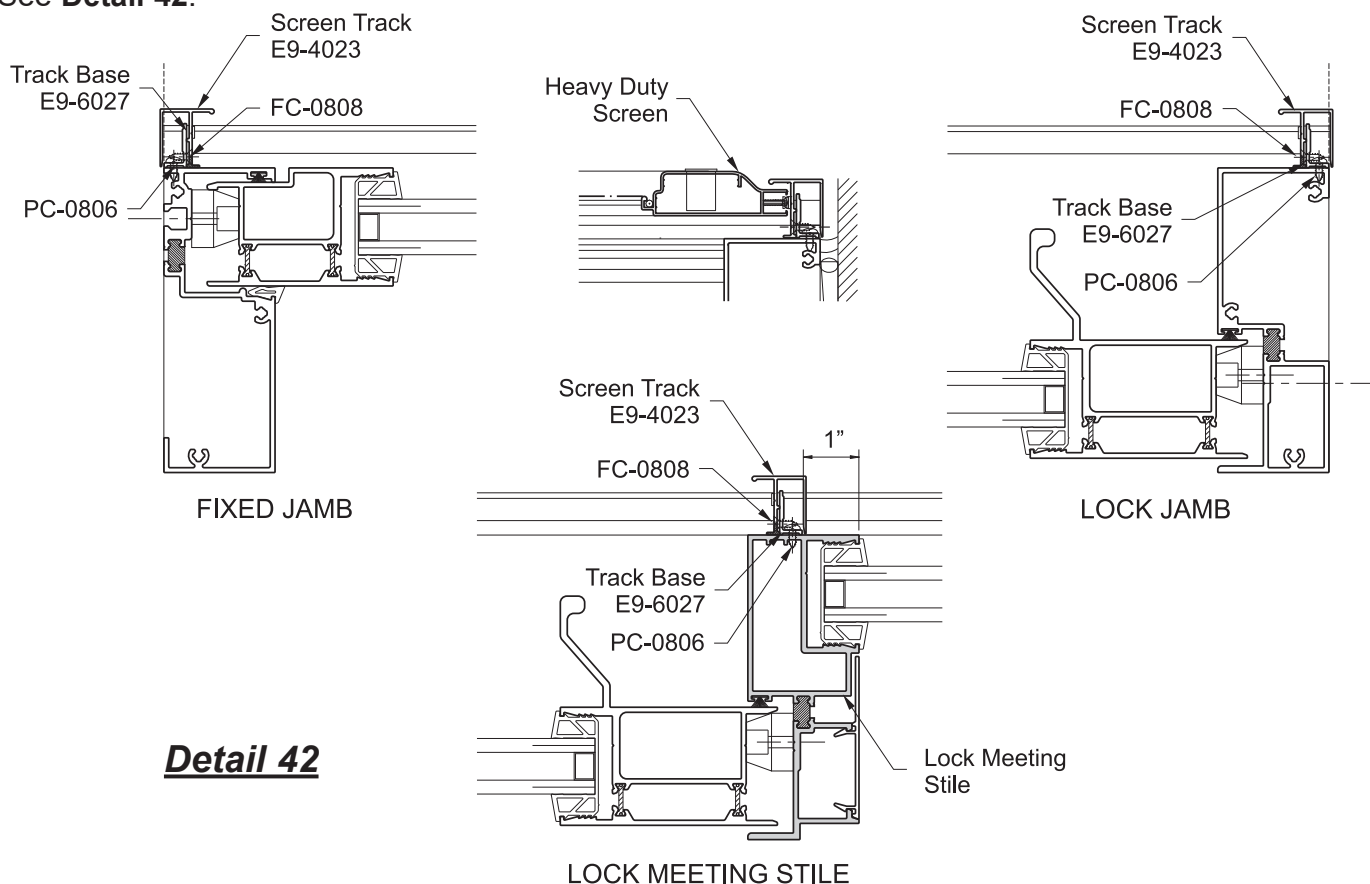
STEP 12 (OPTIONAL)

INSTALL VERTICAL SCREEN TRACKS

Head & sill screen tracks are integral to the YSD 600 TH sliding door frame. Vertical screen tracks consist of two extrusions: a track base (E9-4023) and a track (E9-6027). For OX/XO frames install the screen tracks at the fixed and lock jambs. For OXO frames install the screen tracks at the fixed jamb and lock meeting stile. For OXXO frames install the screen tracks at both fixed jambs.

- To install screen tracks at jambs, position the track base on the jamb with the short leg end flush with the edge of the jamb.
- To install screen tracks at the Lock Meeting Stiles (OXO), position the track base on the jamb with the short leg end 1" from the glass edge of the Lock Meeting Stile. Make sure the track base is straight and plumb.
- Temporarily secure the track base and transfer the pre-drilled hole locations on it to the jamb.
- Remove the track base and drill 0.141" dia. (#28 bit) holes at each location.
- Attach the track base to the jamb at each hole location with PC-0806 fasteners.
- Place the screen track over the track base and align the pre-drilled holes on the screen track with the ones on the long leg of the track base.
- Fasten the screen track to the track base with FC-0808 fasteners.

See **Detail 42**.



Detail 42

CALCULATING GLASS SIZES

CONFIGURATION	GLASS WIDTH
OX, XO	FW/2 - 4 7/8"
XO-OX	FW/4 - 4 9/16"
O-OX, XO-O	FW/3 - 5 3/16"
O-O-OX, XO-O-O	FW/4 - 5 5/16"
OX/O, O/XO	FW/3 - 4 1/4"
OX/O-O, O-OX/O O-O/XO, O/XO-O	FW/4 - 4 5/8"
OXXO	FW/4 - 4 1/8"

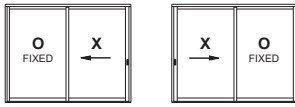
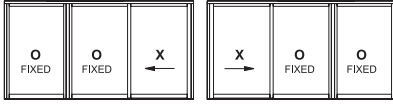
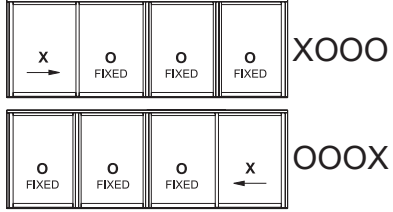
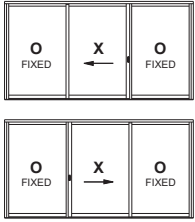
PANEL TYPE	GLASS HEIGHT
FIXED	FH - 7 3/4"
SLIDING	FH - 7 3/4"

Glass Bite = 5/8"

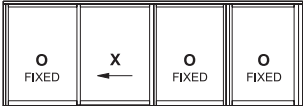
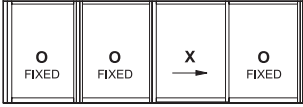
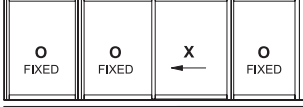
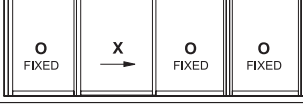
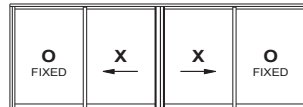
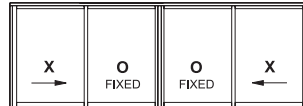
Notes: Wet glazing requires 1-3/16" glass thickness.

For framing width details per configuration,
see the **YSD 600 T/TH Design Manual**.

SLIDING DOOR SIZE LIMITATIONS (NON-IMPACT)

CONFIGURATION		MAXIMUM FRAME SIZE* (AS TESTED)
 OX & XO	Without Reinforcing Design Load +75/-75 PSF (Low Sill Option Available)	10'-3" x 8'-0"
	Without Reinforcing Design Load +100/-100 PSF	8'-2" x 8'-0"
	With Reinforcing Design Load +120/-120 PSF	8'-2" x 8'-0"
	With Reinforcing Low Sill Option +90/-90 PSF (Low Sill Option Available)	8'-3" x 9'-0"
 OOX, XOO	Without Reinforcing Design Load +75/-75 PSF	15'-4 1/2" x 8'-0"
	With Reinforcing Design Load +90/-90 PSF	12'-2" x 9'-0"
 XOOO OOOX	Without Reinforcing Design Load +75/-75 PSF	20'-6" x 8'-0"
	With Reinforcing Design Load +90/-90 PSF	16'-2" x 9'-0"
 OXO	Without Reinforcing Design Load +75/-75 PSF	15'-4 1/2" x 8'-0"
	Without Reinforcing Low Sill Option +60/-60 PSF	
	Without Reinforcing Design Load +100/-100 PSF	12'-2 1/2" x 8'-0"
	With Reinforcing Design Load +120/-120 PSF	12'-2 1/2" x 8'-0"
	With Reinforcing Design Load +90/-90 PSF	12'-2 1/2" x 9'-0"
	With Reinforcing Low Sill Option +70/-70 PSF	

SLIDING DOOR SIZE LIMITATIONS (NON-IMPACT, Continued)

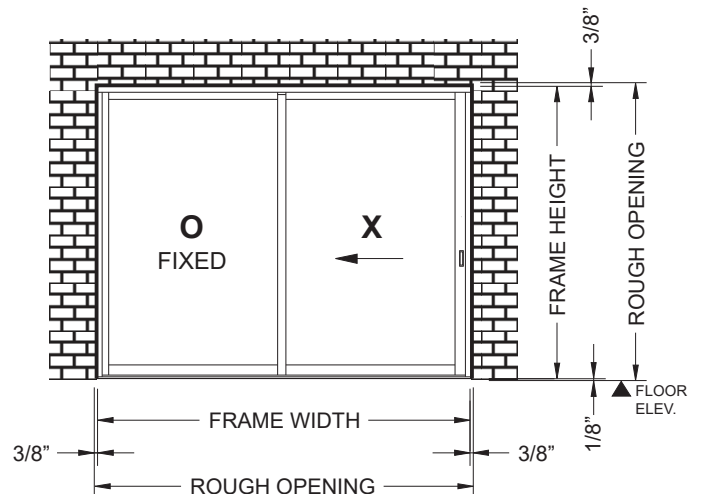
CONFIGURATION	MAXIMUM FRAME SIZE* (AS TESTED)
    OOXO & OXOO	Without Reinforcing Design Load +75/-75 PSF 20'-6" x 8'-0" With Reinforcing Design Load +90/-90 PSF 16'-3" x 9'-0"
 OXOX	Without Reinforcing Design Load +75/-75 PSF 20'-6" x 8'-0" Without Reinforcing Design Load +100/-100 PSF 16'-3" x 8'-0" With Reinforcing Design Load +120/-120 PSF 16'-3" x 8'-0" With Reinforcing Design Load +90/-90 PSF 16'-3" x 9'-0"
 XOOX	Without Reinforcing Design Load +75/-75 PSF 20'-6" x 8'-0" With Reinforcing Design Load +90/-90 PSF 16'-3" x 9'-0"

All doors with frame heights over 96" must be reviewed by YKK AP Engineering.

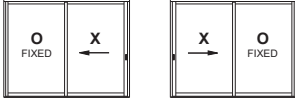
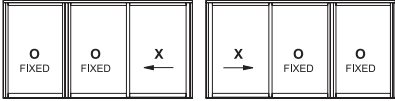
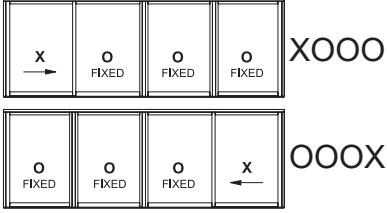
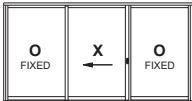
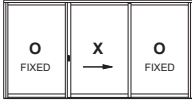
* If the height to width ratio exceeds 3:1, the sliding door must be reviewed by YKK AP engineering.

NOTE:

Frame width and height should allow 3/4" for width & 1/2" for height overall clearance between the door frame and rough opening. This allows for thermal expansion and ease of installation.



SLIDING DOOR SIZE LIMITATIONS (IMPACT)

CONFIGURATION	MAXIMUM FRAME SIZE* (AS TESTED)
 OX & XO Without Reinforcing Design Load +100/-100 PSF With Reinforcing Design Load +120/-120 PSF With Reinforcing Low Sill Option +90/-90 PSF	8'-2" x 8'-0" 8'-2" x 8'-0" 8'-3" x 9'-0"
 OOX, XOO With Reinforcing Design Load +90/-90 PSF	12'-2" x 9'-0"
 XOOO OOOX With Reinforcing Design Load +90/-90 PSF	16'-3" x 9'-0"
  OXO Without Reinforcing Design Load +100/-100 PSF With Reinforcing Low Sill Option +120/-120 PSF With Reinforcing Design Load +90/-90 PSF With Reinforcing Low Sill Option +70/-70 PSF	12'-2 1/2" x 8'-0" 12'-2 1/2" x 8'-0" 12'-2 1/2" x 9'-0"

SLIDING DOOR SIZE LIMITATIONS (IMPACT, Continued)

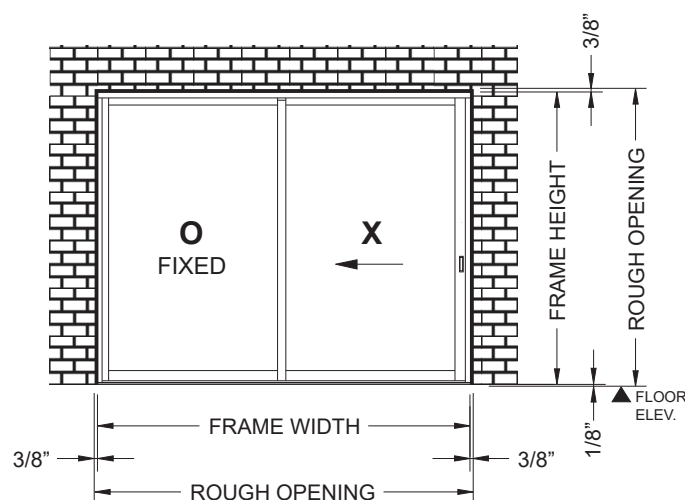
CONFIGURATION	MAXIMUM FRAME SIZE* (AS TESTED)
OOXO & OXOO With Reinforcing Design Load +90/-90 PSF	16'-3" x 9'-0"
Without Reinforcing Design Load +100/-100 PSF	16'-3" x 8'-0"
With Reinforcing Design Load +90/-90 PSF	16'-3" x 9'-0"
With Reinforcing Design Load +120/-120 PSF	16'-3" x 8'-0"
XOOX With Reinforcing Design Load +90/-90 PSF	16'-3" x 9'-0"

All doors with frame heights over 96" must be reviewed by YKK AP Engineering.

* If the height to width ratio exceeds 3:1, the sliding door must be reviewed by YKK AP engineering.

NOTE:

Frame width and height should allow 3/4" for width & 1/2" for height overall clearance between the door frame and rough opening. This allows for thermal expansion and ease of installation.





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