

INSTALLATION INSTRUCTIONS

SERIES 3000 SLIDING PATIO DOOR



Phone: (800) 262-5151 • Fax: (866) 262-3299
crlaurence.com • usalum.com • crl-arch.com

HANDLING, STORAGE, AND PROTECTION OF ALUMINUM

The following precautions are recommended to protect the material against damage. Following these precautions will help ensure early acceptance of your products and workmanship.

A. HANDLE CAREFULLY.

All aluminum materials at job site must be stored in a safe place, well removed from possible damage by other trades. Cardboard wrapped or paper interleaved materials must be kept dry.

B. CHECK ARRIVING MATERIALS.

Check quantity counts and keep records of where various materials are stored.

C. KEEP MATERIALS AWAY FROM WATER, MUD, AND SPRAY.

Prevent cement plaster or other materials from damaging the finish.

D. PROTECT THE MATERIALS AFTER ERECTION.

Protect erected frame with polyethylene or canvas splatter screen. Cement, plaster, terrazzo, other alkaline solutions, and acid based materials used to clean masonry are harmful to the finish. ***If any of these materials come in contact with the aluminum, immediately remove with water and mild soap.***

TABLE OF CONTENTS

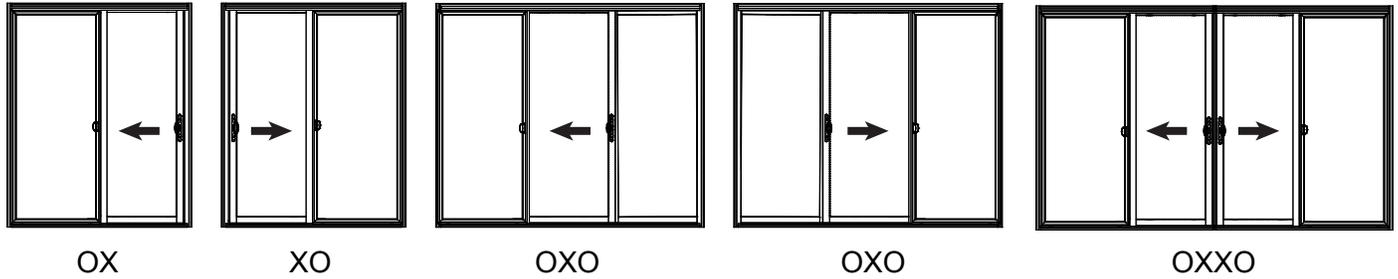
Handling, Storage, and Protection of Aluminum.....	2
General Installation Notes	3
Panel Configurations and Parts List.....	4
Extrusion Identification Key	5-9
Glass Size Chart.....	10
Door Frame Assembly	11
Door Panel Assembly and Glazing.....	12-13
Frame Installation	14
Vent Panel Installation	15
Fixed Panel Installation (Part 1)	16
Fixed Panel Installation (Part 2)	17
Fixed Panel Installation (Part 3)	18-19
Handle and Lock Installation	20
Latch and Strike Adjustment.....	21
Screen Installation.....	22
Bumper Installation.....	23
Optional Configurations - OXXO Installation (Part 1)	24
Optional Configurations - OXXO Installation (Part 2)	25
Optional Configurations - OXXO Screen Installation.....	26
Optional Configurations - OXO Installation (Part 1).....	27
Optional Configurations - OXO Installation (Part 2).....	28
OXXO Adapters	29
Installing the Stainless Steel Air Diffuser (Model 3060 only)	30-31
In Conclusion.....	32
Guide to Sealants.....	33

GENERAL INSTALLATION NOTES

RECOMMENDED GUIDELINES FOR ALL INSTALLATIONS

- 1. REVIEW CONTRACT DOCUMENTS.** Check shop drawings, installation instructions, architectural drawings, and shipping lists to become thoroughly familiar with the project. The shop drawings take precedence and include specific details for the project. Note any **field verified** notes on the shop drawings prior to installing. The installation instructions are of a general nature and cover most conditions.
- 2. INSTALLATION.** The installation location must be level and plumb before beginning. All materials are to be installed plumb, level, and true. Install operable doors preglazed only.
- 3. BENCH MARKS.** All work should start from bench marks and/or column lines as established by the architectural drawings and the general contractor with guaranteed accuracy. Working from these datum points and lines determine:
 - a) The plane of the wall in reference to offset lines provided on each floor.
 - b) The finish floor lines in reference to bench marks on the outer building columns.
 - c) Mullion spacing from both ends of masonry opening to prevent dimensional build-up of daylight opening.
- 4. FIELD WELDING.** All field welding must be adequately shielded to avoid any splatter on glass or aluminum. Results will be unsightly and/or structurally unsound. Advise general contractor and other trades accordingly. All field welds of steel anchors must receive touch-up paint (zinc chromate) to avoid rust.
- 5. SURROUNDING CONDITIONS.** Make certain that construction which will receive your materials is in accordance with the contract documents. If not, notify the general contractor in writing and resolve differences before proceeding with work.
- 6. ISOLATION OF ALUMINUM.** Aluminum to be placed in direct contact with uncured masonry or incompatible materials should be isolated with a heavy coat of zinc chromate or bituminous paint.
- 7. SEALANTS.** Sealants must be compatible with all materials with which they have contact, including other sealant surfaces. Consult with sealant manufacturer for recommendations relative to joint size, shelf life, compatibility, cleaning, priming, tooling, adhesion, etc. It is the responsibility of the **Glazing Contractor** to submit a statement from the sealant manufacturer indicating that glass and glazing materials have been tested for compatibility and adhesion with glazing sealants, and interpreting test results relative to material performance, including recommendations for primers and substrate preparation required to obtain adhesion. The chemical compatibility of all glazing materials and framing sealants with each other and with like materials used in glass fabrication must be established. This is required on every project.
- 8. FASTENING.** Within the body of these instructions "fastening" means any method of securing one part to another or to adjacent materials. Only those fasteners used within the system are specified in these instructions. Due to the varying perimeter conditions and performance requirements, perimeter and anchor fasteners are not specified in these instructions. For perimeter and anchor fasteners refer to the shop drawings or consult the fastener supplier.
- 9. BUILDING CODES.** Due to the diversity in state/provincial, local, and federal laws and codes that govern the design and application of architectural products, it is the responsibility of the individual architect, owner, and installer to assure that products selected for use on projects comply with all the applicable building codes and laws. U.S. Aluminum exercises no control over the use or application of its products, glazing materials, and operating hardware and assumes no responsibility thereof.
- 10. EXPANSION JOINTS.** Expansion joints and perimeter seals shown in these instructions and in the shop drawings are shown at normal size. Actual dimensions may vary due to perimeter conditions and/or differences in metal temperature between the time of fabrication and the time of installation. Gaps between expansion members should be based on temperature at time of installation.
- 11. WATER HOSE TEST.** As soon as a representative amount of the doors has been glazed (500 square feet or 46.5 m²) a water hose test should be conducted in accordance with AAMA 501.2 specifications to check the installation. On all jobs the hose test should be repeated every 500 square feet (46.5 m²) during the glazing operation.
- 12. COORDINATION WITH OTHER TRADES.** Coordinate with the general contractor any sequence with other trades which offset curtain wall installation (i.e. fire proofing, back-up walls, partitions, ceilings, mechanical ducts, converters, etc.).
- 13. CARE AND MAINTENANCE.** Final cleaning of exposed aluminum surfaces should be done in accordance with AAMA 609.1 for anodized aluminum and 610.1 for painted aluminum.

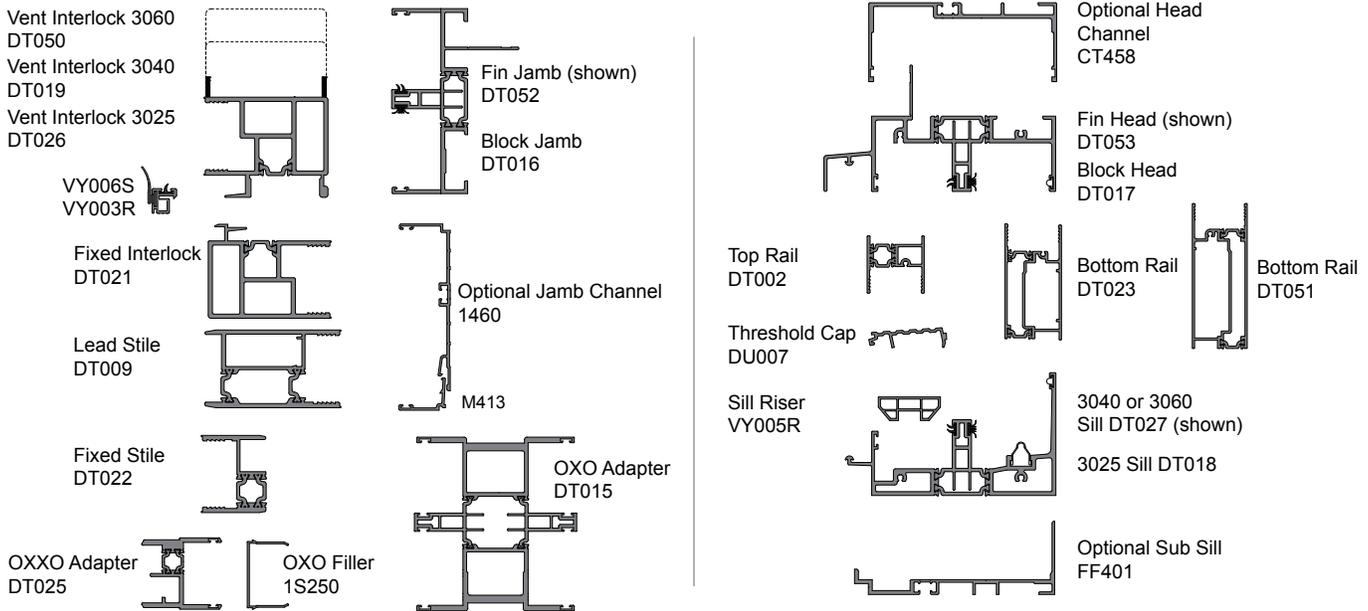
PANEL CONFIGURATIONS



PARTS LIST

VERTICAL MEMBERS

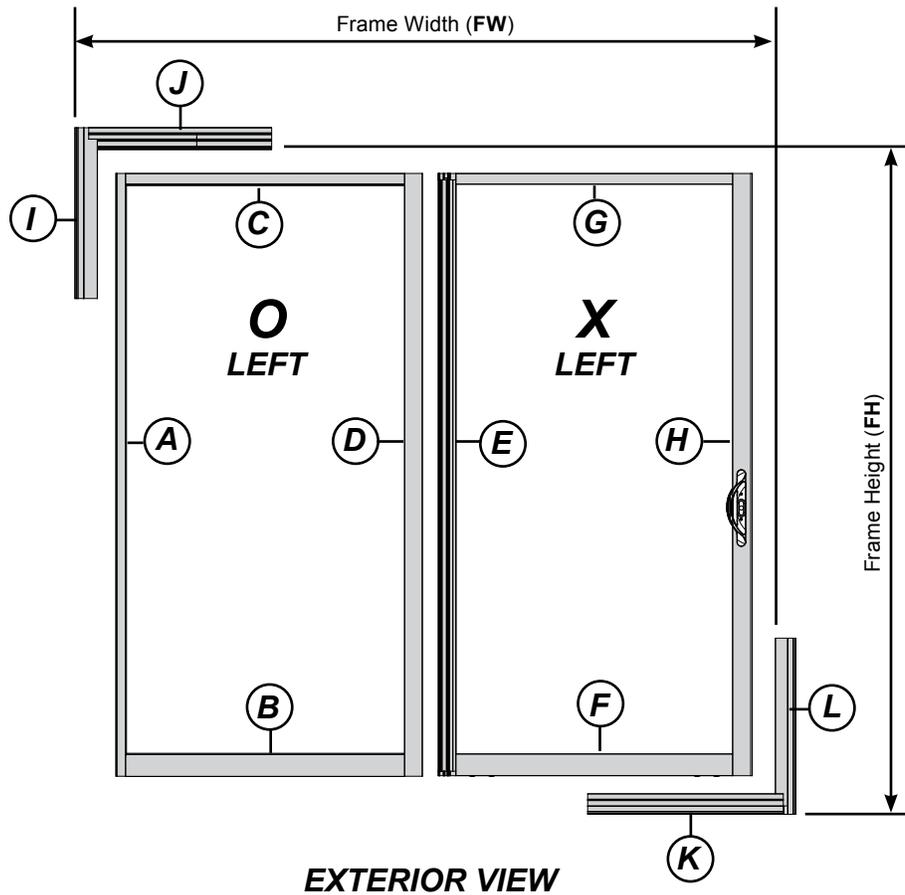
HORIZONTAL MEMBERS



Part No.	Description	Part No.	Description	Part No.	Description
1460	Optional Jamb Channel	DT009	Lead Stile - 3025, 3040, 3060	DT038	Fixed Interlock - 3025, 3040, 3060
1S250	OXO Snap-In Filler	DT015	OXO Adapter - 3025, 3040, 3060	DT051	Bottom Rail - 3040, 3060
B0H1003	3" Dia. Optional Tandem Roller	DT016	Block Jamb - 3025, 3040, 3060	DT052	Fin Jamb - 3025, 3040, 3060
B0H1005	2-1/4" Radius End Patio Door Plug	DT017	Block Head - 3025, 3040, 3060	DT053	Fin Head - 3025, 3040, 3060
B0H1006	3-1/4" Radius End Patio Door Plug	DT018	Sill - 3025, 3040, 3060	DU007	Threshold Cap
B0H1007	Round Patio Door Bumper	DT019	Vent Interlock - 3040	FF401	Optional Sub Sill
B0H1009	Rubber Vent Bumper Stop	DT021	Fixed Mullion - 3025, 3040, 3060	VY003R	Fixed Interlock Isolator
B0H1011*	Active Hardware Kit	DT022	Fixed Stile - 3025, 3040, 3060	VY004R	Vinyl Isolator
B0H1012	Inactive Hardware Kit	DT023	Bottom Rail - 3025	VY005R	Sill Riser
B0H1875SS	1-13/16" Dia. Standard Tandem Roller	DT025	OXXO Adapter	VY006S	Super Bug Strip
CT458	Optional Head Channel	DT027	Sill - 3040, 3060	HS3FPCLIP	Fixed Panel Clip
DS160	Door Stop	VY007RS	Screen Weather Seal	8X2PHPSMS	#8x2" Pan HD Philips SMS
B0HMH071	Bottom Screen Roller	DT043	Vent Interlock - 3025, 3040, 3060		
DT002	Top Rail - 3025, 3040, 3060	DT050	Vent Interlock - 3060		

* Add "K" after Finish Code, BL-Black, SN-Satin Nickel, WH-White if Keyed Cylinder is required.

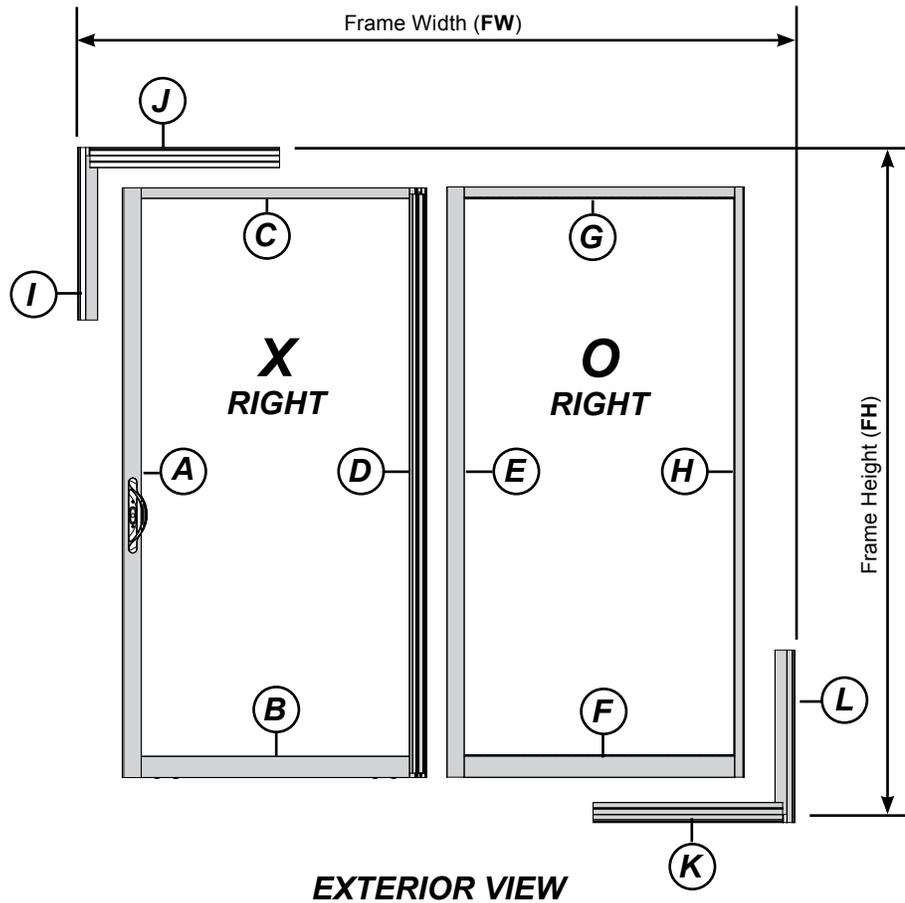
EXTRUSION IDENTIFICATION KEY



Your order has been carefully fabricated, inspected, and packaged to work order specifications. We have placed an Indicator Label on the inside or back side of each part before final packaging. Use the Identification Key (above) to organize and lay out each Series 3000 Sliding Patio Door System before proceeding with the assembly process.

EXTRUSION IDENTIFICATION				
Heading	Description	3025 Model:	3040 Model:	3060 Model:
A	O-Fixed Stile	DT022	DT022	DT022
B	O-Bottom Rail	DT023	DT051	DT051
C	O-Fixed Top Rail	DT002	DT002	DT002
D	O-Fixed Interlock	DT038	DT038	DT038
E	X-Vent Interlock	DT043	DT019	DT050
F	X-Bottom Rail	DT023	DT051	DT051
G	X-Top Rail	DT002	DT002	DT002
H	X-Lead Stile	DT009	DT009	DT009
I	Left Jamb	DT016-Block DT052-Fin	DT016-Block DT052-Fin	DT016-Block DT052-Fin
J	Frame Head	DT017-Block DT053-Fin	DT017-Block DT053-Fin	DT017-Block DT053-Fin
K	Frame Sill	DT018	DT018	DT018
L	Right Jamb	DT016-Block DT052-Fin	DT016-Block DT052-Fin	DT016-Block DT052-Fin

EXTRUSION IDENTIFICATION KEY

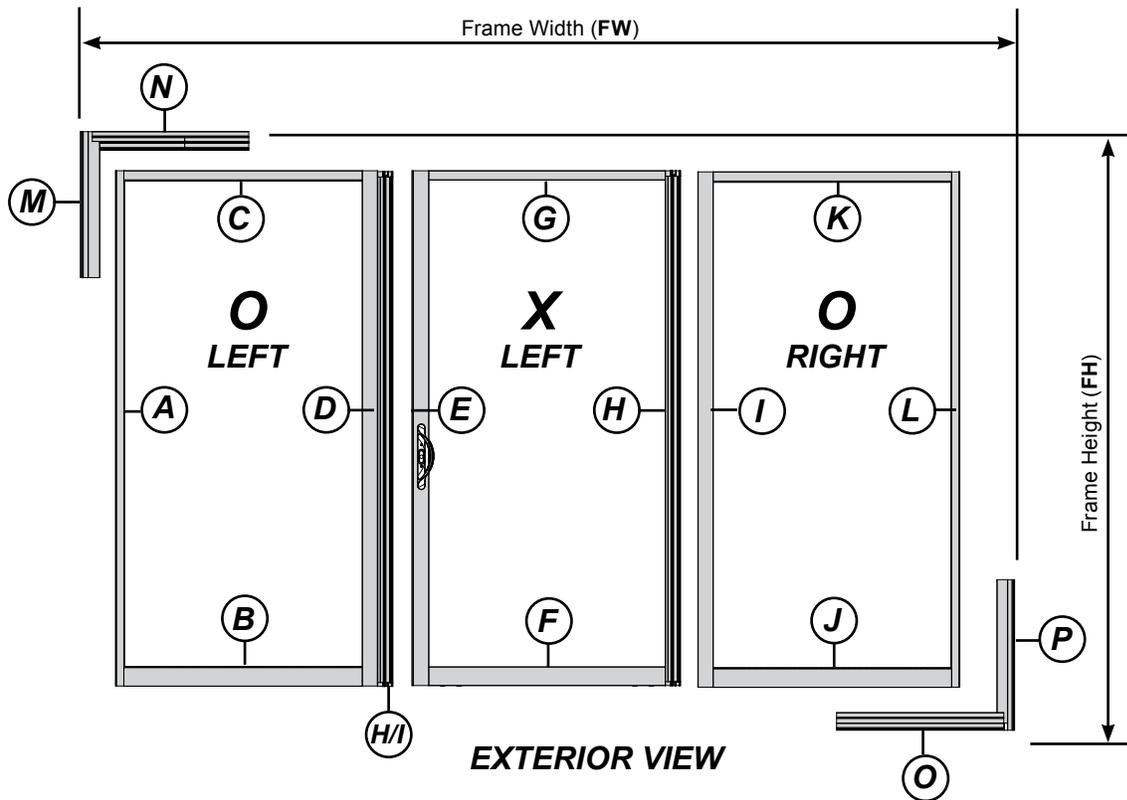


EXTERIOR VIEW

Your order has been carefully fabricated, inspected, and packaged to work order specifications. We have placed an Indicator Label on the inside or back side of each part before final packaging. Use the Identification Key (above) to organize and lay out each Series 3000 Sliding Patio Door System before proceeding with the assembly process.

EXTRUSION IDENTIFICATION				
Heading	Description	3025 Model:	3040 Model:	3060 Model:
A	X-Lead Stile	DT009	DT009	DT009
B	X-Bottom Rail	DT023	DT051	DT051
C	X- Top Rail	DT002	DT002	DT002
D	X-Vent Interlock	DT043	DT019	DT050
E	O-Fixed Interlock	DT038	DT038	DT038
F	O-Bottom Rail	DT023	DT051	DT051
G	O-Top Rail	DT002	DT002	DT002
H	O-Fixed Stile	DT022	DT022	DT022
I	Left Jamb	DT016-Block DT052-Fin	DT016-Block DT052-Fin	DT016-Block DT052-Fin
J	Frame Head	DT017-Block DT053-Fin	DT017-Block DT053-Fin	DT017-Block DT053-Fin
K	Frame Sill	DT018	DT018	DT018
L	Right Jamb	DT016-Block DT052-Fin	DT016-Block DT052-Fin	DT016-Block DT052-Fin

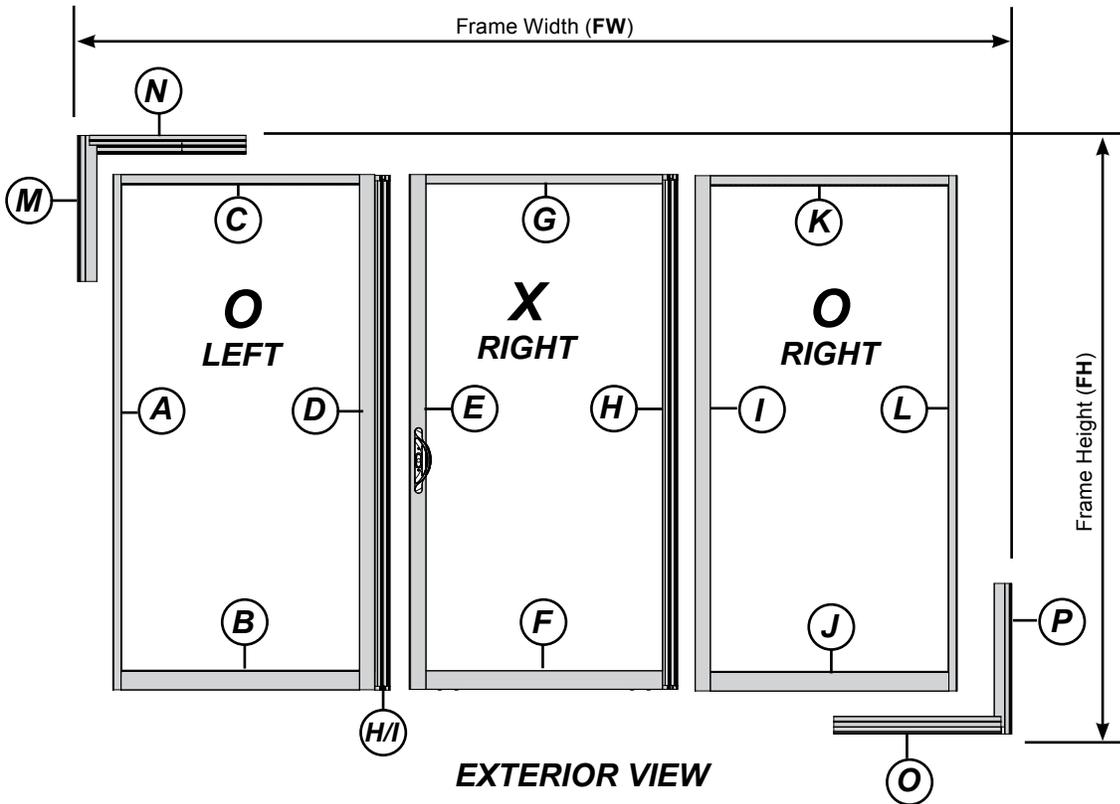
EXTRUSION IDENTIFICATION KEY (Continued)



Your order has been carefully fabricated, inspected, and packaged to work order specifications. We have placed an Indicator Label on the inside or back side of each part before final packaging. Use the Identification Key (above) to organize and lay out each Series 3000 Sliding Patio Door System before proceeding with the assembly process.

EXTRUSION IDENTIFICATION				
Heading	Description	3025 Model:	3040 Model:	3060 Model:
A	O-Left Fixed Stile	DT022	DT022	DT022
B	O-Left Bottom Rail	DT023	DT051	DT051
C	O-Left Top Rail	DT002	DT002	DT002
D	O-Left Fixed Interlock	DT038	DT038	DT038
E	X-Vent Interlock	DT043	DT019	DT050
F	X-Bottom Rail	DT023	DT051	DT051
G	X-Top Rail	DT002	DT002	DT002
H	X-Lead Stile	DT009	DT009	DT009
H/I	XO-Adaptor	DT015	DT015	DT015
I	O-Right Fixed Stile	DT022	DT022	DT022
J	O-Right Bottom Rail	DT023	DT051	DT051
K	O-Right Top Rail	DT002	DT002	DT002
L	O-Right Fixed Stile	DT022	DT022	DT022
M	Left Jamb	DT016-Block DT052-Fin	DT016-Block DT052-Fin	DT016-Block DT052-Fin
N	Head Frame	DT017-Block DT053-Fin	DT017-Block DT053-Fin	DT017-Block DT053-Fin
O	Sill	DT018	DT018	DT018
P	Right Jamb	DT016-Block DT053-Fin	DT016-Block DT053-Fin	DT016-Block DT053-Fin

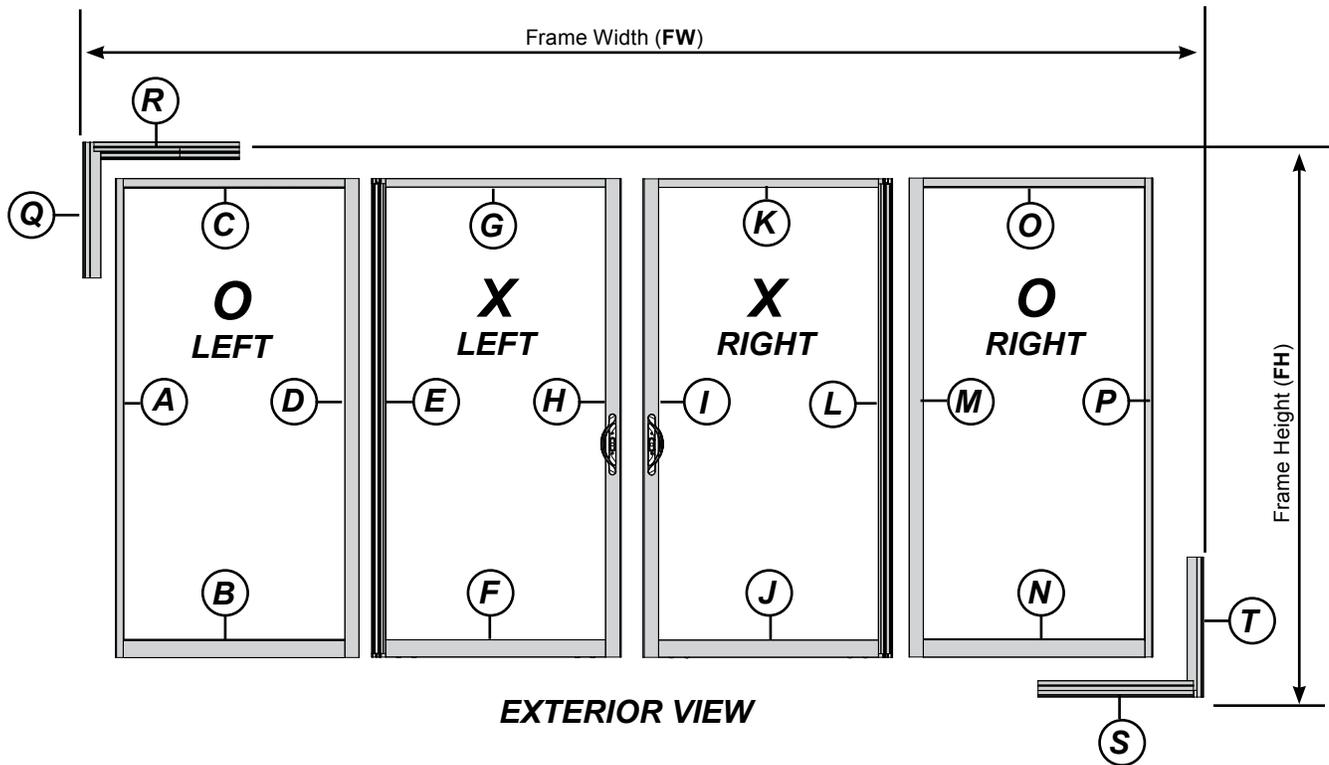
EXTRUSION IDENTIFICATION KEY (Continued)



Your order has been carefully fabricated, inspected, and packaged to work order specifications. We have placed an Indicator Label on the inside or back side of each part before final packaging. Use the Identification Key (above) to organize and lay out each Series 3000 Sliding Patio Door System before proceeding with the assembly process.

EXTRUSION IDENTIFICATION				
Heading	Description	3025 Model:	3040 Model:	3060 Model:
A	O-Left Fixed Stile	DT022	DT022	DT022
B	O-Left Bottom Rail	DT023	DT051	DT051
C	O-Left Top Rail	DT002	DT002	DT002
D	O-Left Fixed Interlock	DT038	DT038	DT038
H/I	XO-Adaptor	DT015	DT015	DT015
E	X-Lead Stile	DT009	DT009	DT009
F	X-Bottom Rail	DT023	DT051	DT051
G	X-Top Rail	DT002	DT002	DT002
H	X-Vent Interlock	DT043	DT019	DT050
I	O-Right Fixed Interlock	DT022	DT022	DT022
J	O-Right Bottom Rail	DT023	DT051	DT051
K	O-Right Top Rail	DT002	DT002	DT002
L	O-Right Fixed Stile	DT022	DT022	DT022
M	Left Jamb	DT016-Block DT052-Fin	DT016-Block DT052-Fin	DT016-Block DT052-Fin
N	Head Frame	DT017-Block DT053-Fin	DT017-Block DT053-Fin	DT017-Block DT053-Fin
O	Sill	DT018	DT018	DT018
P	Right Jamb	DT016-Block DT053-Fin	DT016	DT052

EXTRUSION IDENTIFICATION KEY (Continued)



Your order has been carefully fabricated, inspected, and packaged to work order specifications. We have placed an Indicator Label on the inside or back side of each part before final packaging. Use the Identification Key (above) to organize and lay out each Series 3000 Sliding Patio Door System before proceeding with the assembly process.

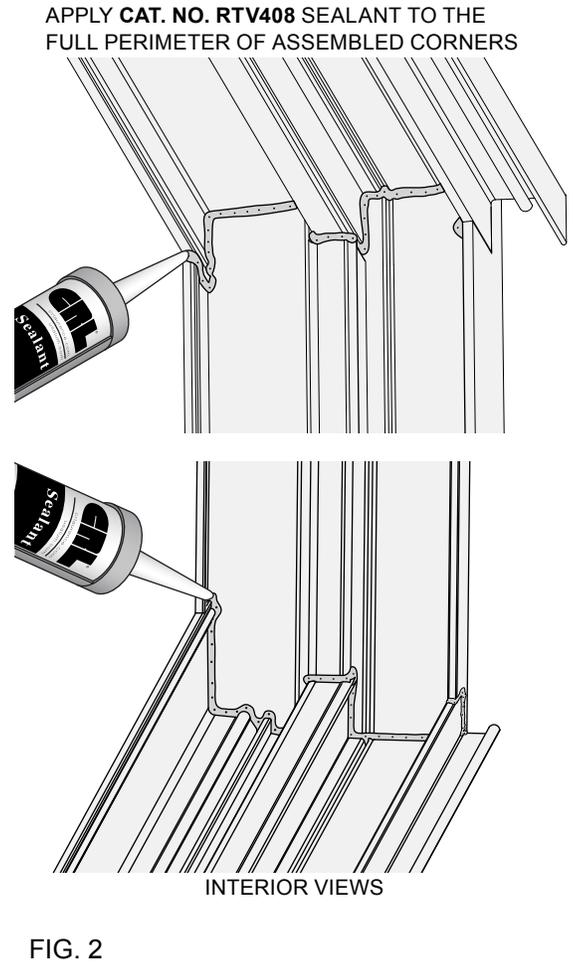
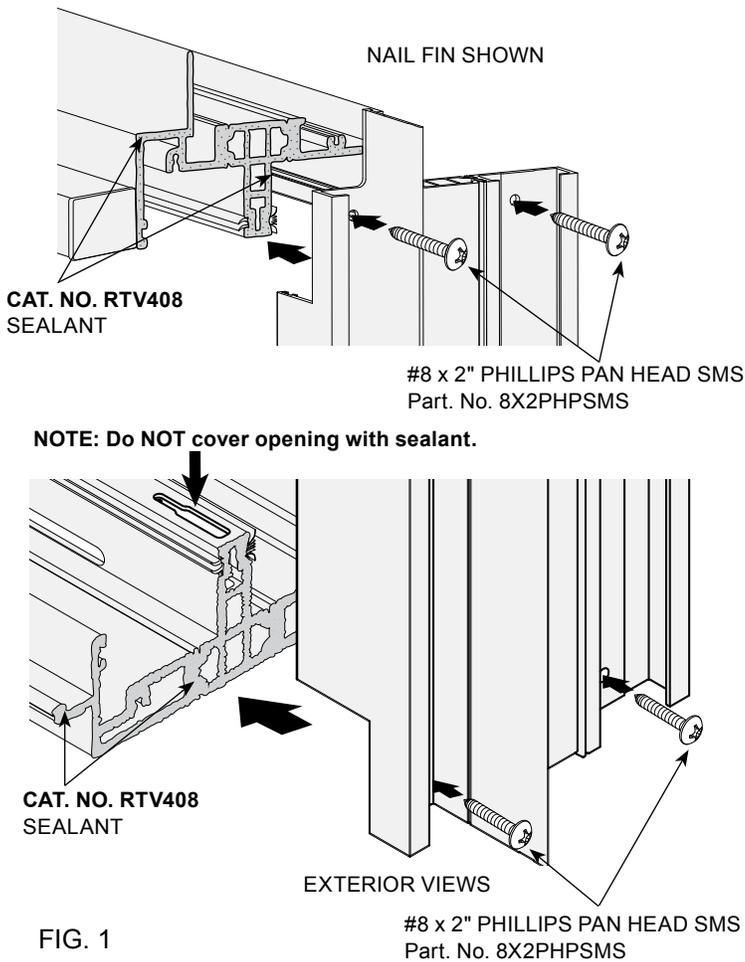
EXTRUSION IDENTIFICATION		
Heading	Description	3025 Model:
A	O-Left Fixed Stile	DT022
B	O-Left Bottom Rail	DT023
C	O-Left Top Rail	DT002
D	O-Left Fixed Interlock	DT038
E	X-Left Vent Interlock	DT043
F	X-Left Bottom Rail	DT023
G	X-Left Top Rail	DT002
H	X-Left Lead Stile	DT009
I	X-Right Lead Stile	DT009
J	X-Right Bottom Rail	DT051
K	X-Right Top Rail	DT002
L	X-Right Vent Interlock	DT043
M	O-Right Vent Interlock	DT038
N	O-Right Bottom Rail	DT051
O	O-Right Top Rail	DT002
P	O- Fixed Stile	DT022
Q	Left Jamb	DT016-Block DT052-Fin
R	Head Frame	DT017-Block DT053-Fin
S	Sill	DT018
T	Right Jamb	DT016-Block DT053-Fin

GLASS SIZE CHART

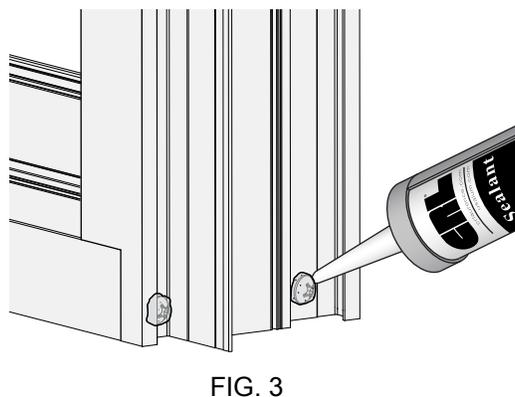
		LC25	CW40	CW60
XO	FRAME WIDTH	$\frac{FW - 6-1/2''}{2}$	$\frac{FW - 6-1/2''}{2}$	$\frac{FW - 6-1/2''}{2}$
XO	FRAME HEIGHT	FH - 6-1/2" STD (3-7/16" Bottom Rail) $\frac{FH - 7-1/2''}{(4-7/16'' \text{ Bottom Rail})}$	FH - 7-1/2" (4-7/16" Bottom Rail)	FH - 7-1/2" (4-7/16" Bottom Rail)
OX	FRAME WIDTH	$\frac{FW - 6-1/2''}{2}$	$\frac{FW - 6-1/2''}{2}$	$\frac{FW - 6-1/2''}{2}$
OX	FRAME HEIGHT	FH - 6-1/2" STD (3-7/16" Bottom Rail) $\frac{FH - 7-1/2''}{(4-7/16'' \text{ Bottom Rail})}$	FH - 7-1/2" (4-7/16" Bottom Rail)	FH - 7-1/2" (4-7/16" Bottom Rail)
OXO	FRAME WIDTH	$\frac{FW - 9-7/8''}{3}$	$\frac{FW - 9-7/8''}{3}$	$\frac{FW - 9-7/8''}{3}$
OXO	FRAME HEIGHT	FH - 6-1/2" STD (3-7/16" Bottom Rail) $\frac{FH - 7-1/2''}{(4-7/16'' \text{ Bottom Rail})}$	FH - 7-1/2" (4-7/16" Bottom Rail)	FH - 7-1/2" (4-7/16" Bottom Rail)
OXXO	FRAME WIDTH	$\frac{FW - 11-7/8''}{4}$	N/A	N/A
OXXO	FRAME HEIGHT	FH - 6-1/2" STD (3-7/16" Bottom Rail) $\frac{FH - 7-1/2''}{(4-7/16'' \text{ Bottom Rail})}$	N/A	N/A

DOOR FRAME ASSEMBLY

1. Trim excess weatherstrip length flush with ends of cut members.
2. Apply **Cat. No. RTV408** sealant to ends of head, sill, and all fin joints before assembly. (FIG. 1)
3. Assemble the frame using Part. No. 8X2PHPSMS #8 x 2" Phillips Pan Head SMS screws. (FIG. 1)

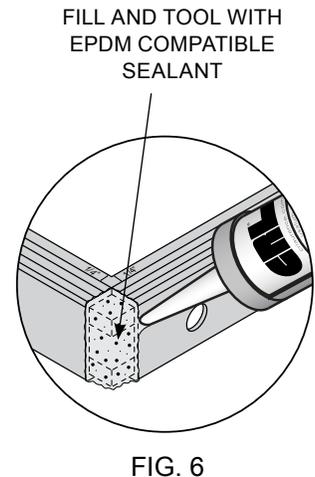
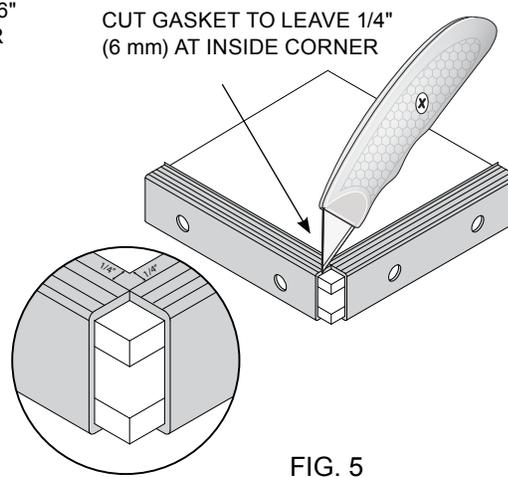
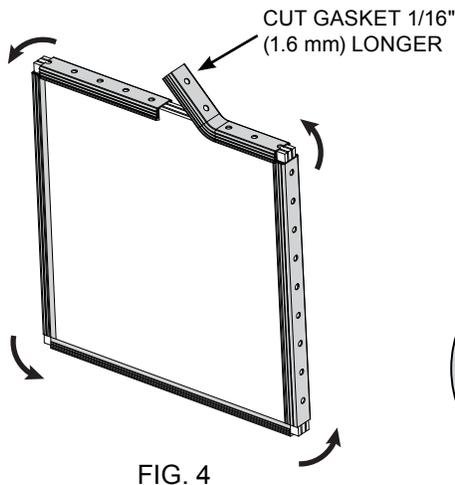


4. Apply **Cat. No. RTV408** sealant to assembled corners. (FIG. 2)
5. Seal over heads of screws using **Cat. No. RTV408** or **Cat. No. 33S** sealant. (FIG. 3)

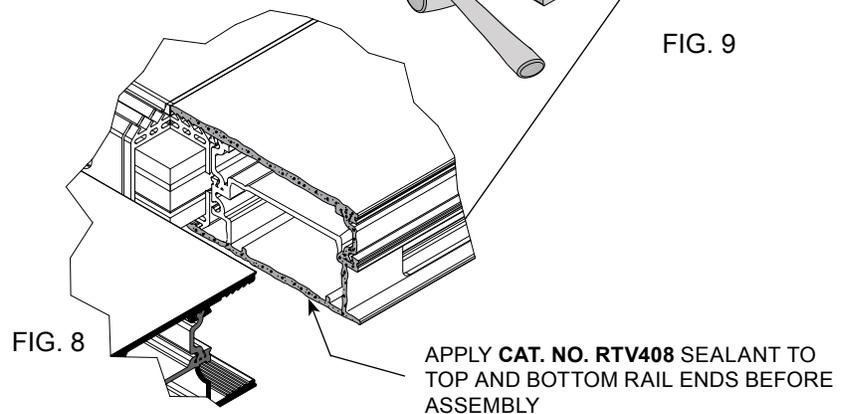
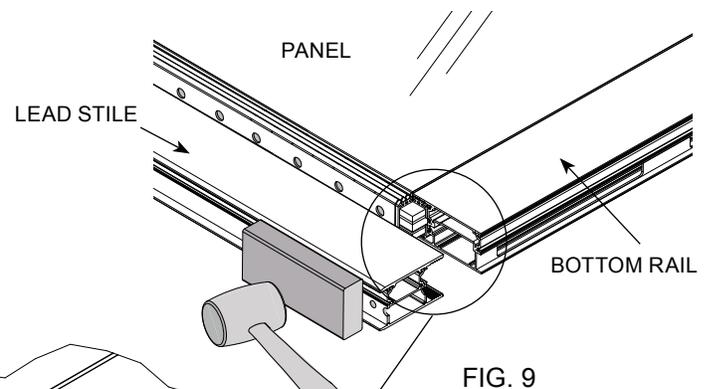
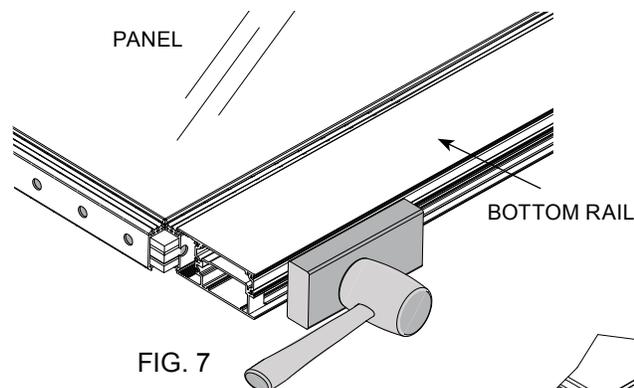


DOOR PANEL ASSEMBLY AND GLAZING

1. Starting at the top center, wrap the glazing gasket around the perimeter of the glass. (FIG. 4)
Cut partially through the gasket at the glass corners as shown. (FIG. 5)
2. When joining the ends of the glazing gasket, cut glazing gasket 1/16" (1.6 mm) longer for each side of glass panel to allow for shrinkage. (FIG. 4)
3. Fill and tool corners with EPDM compatible sealant. (FIG. 6)



4. **Install the top rail first**, the bottom rail second, and then the stiles.
5. Using a wood block and Cat. No. ST57532 CRL Soft-Face Power Hitter Mallet, work the top rail onto the glass and gaskets until it is fully seated. (FIG. 7)



6. **Apply Cat. No. RTV408 sealant** to the ends of the bottom rail. (FIG. 8)
7. Install the door stile and interlock. (FIG. 9)
9. Apply **Cat. No. RTV408 sealant** to both ends of the top rail and install it. Tool excess sealant.

DOOR PANEL ASSEMBLY AND GLAZING (Continued)

10. Secure all corners with fasteners shown. (FIG. 10)

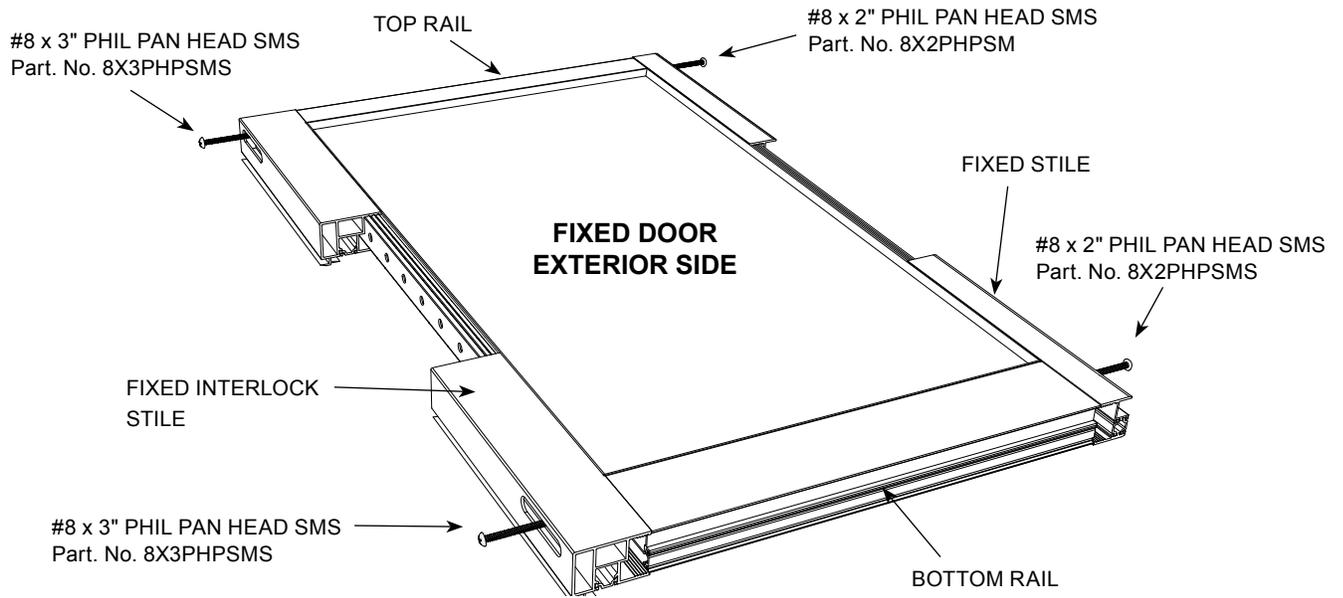


FIG. 10

11. Install the bottom track rollers with (2) 1/4"-20 x 2-1/4" PH SMS and (2) 1/4"-20 x 1-3/4" PH SMS side fasteners included. (FIG. 11)

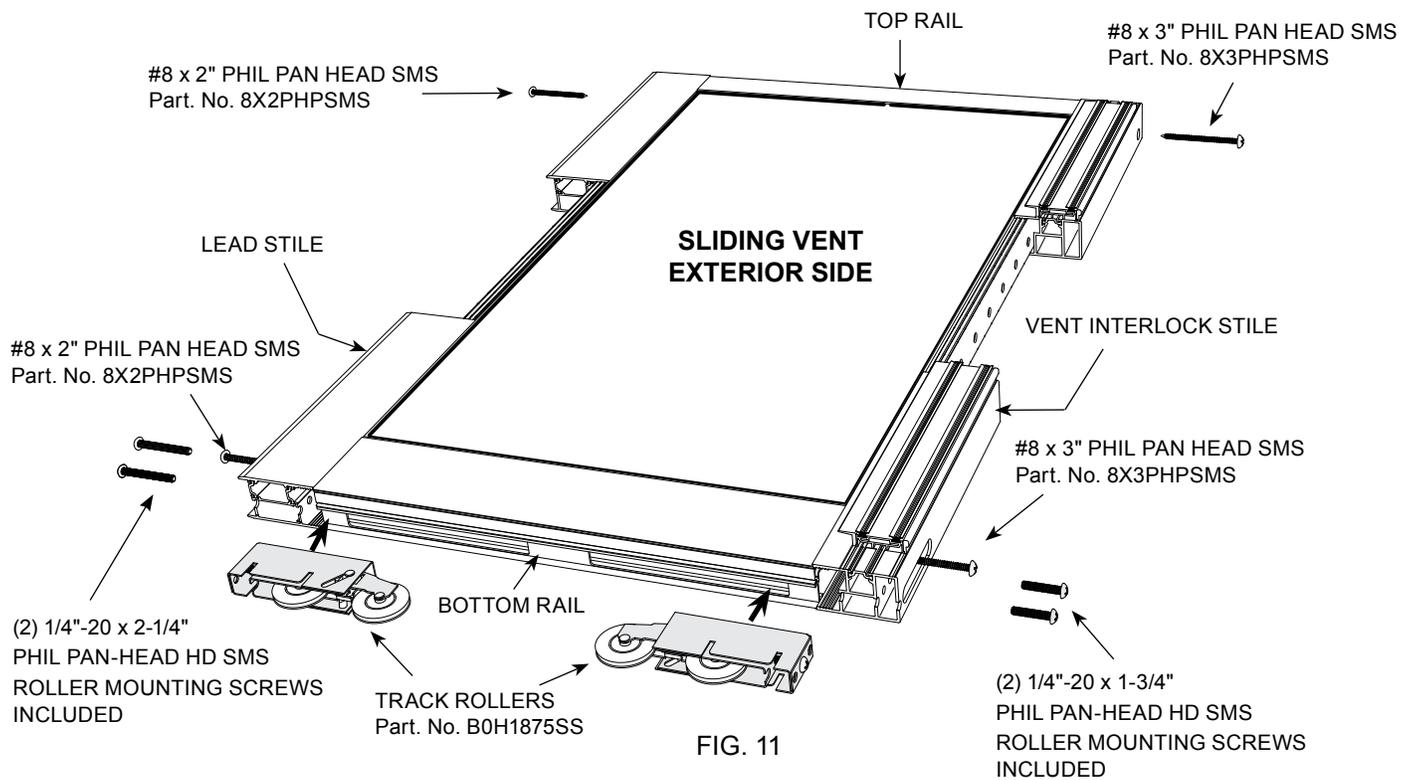


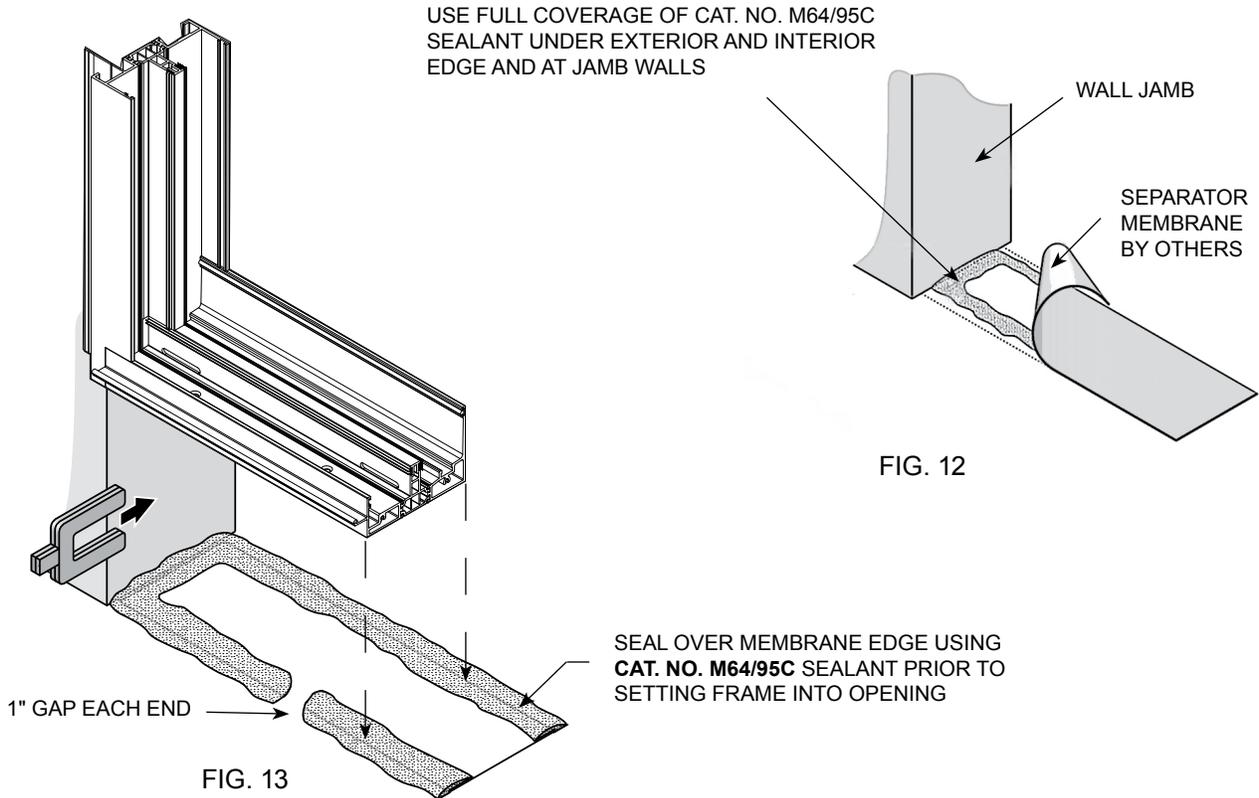
FIG. 11

12. Complete the glazing and assembly of all sliding and fixed vents. Adjust rollers to their fully retracted position before installing doors.

FRAME INSTALLATION

IMPORTANT NOTE: The frame sill must be mounted to a flat and level surface to try to avoid the use of shims.

1. Set a separator membrane in a bed of fresh **Cat. No. M64 or Cat. No. 95C** sealant the full length of the frame threshold. (FIG. 12)



2. Add a second bed of **Cat. No. M64 or Cat. No. 95C** sealant to the top of the membrane leaving a 1" (25 mm) gap approximately 6" (152 mm) from each end. (FIG. 13)
3. Place the assembled frame in the opening, plumb and true. Measure installed frame diagonally to ensure it is square. (FIG. 14)
4. Shim head and jambs as required. Secure the frame to the opening with fasteners supplied by others using the prefabbed holes in the head and jamb. Seal over all screw heads at sill using **Cat. No. 33S** sealant.

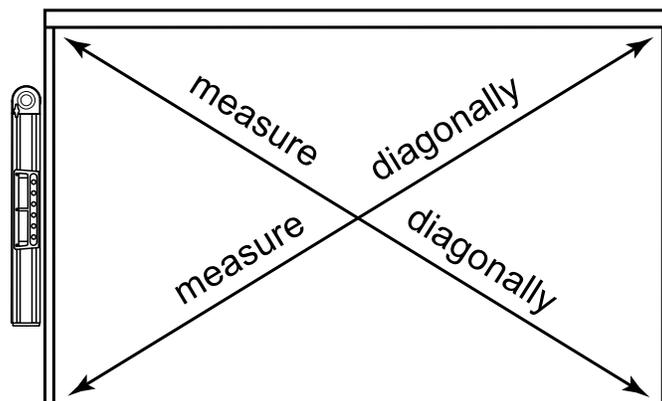


FIG. 14

VENT PANEL INSTALLATION

1. Install the sliding vent panel from the exterior before the installation of the **fixed panel**.
2. With the rollers in their retracted position, lift and tilt the vent panel and insert it into the interior side of the head. (FIG. 15)

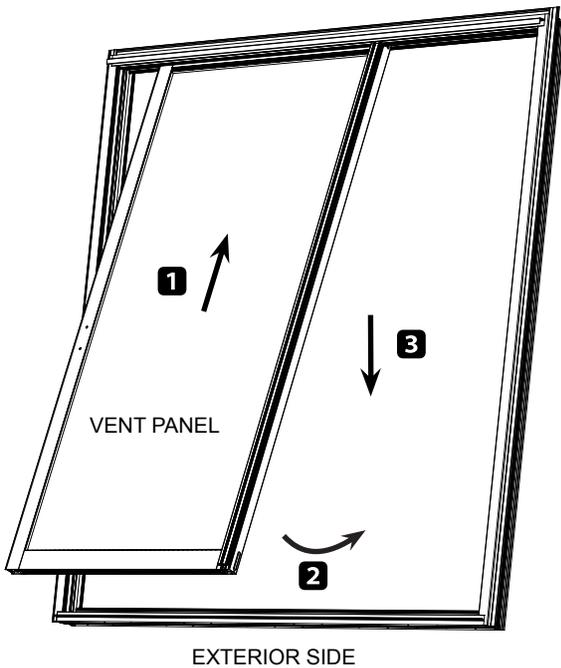


FIG. 15

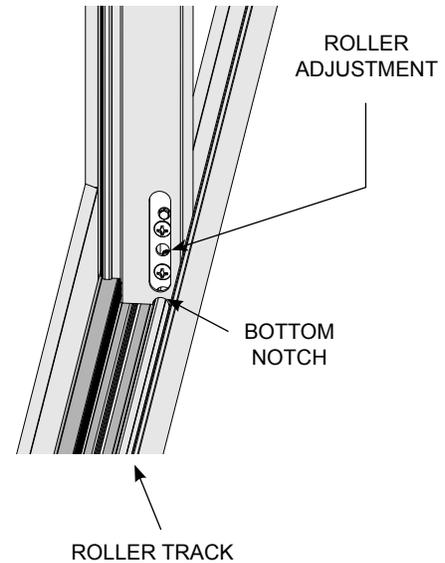


FIG. 16

3. Lift the panel and swing the bottom until it rests on the roller track while centering the bottom notch. (FIG. 16)
4. Adjust the bottom rollers until the vent panel is plumb with the frame and rolls smoothly.
5. Install the **Round Patio Door Bumper**. (FIG. 17)
6. Install the 3-1/4" Radius End Patio Door Bumper. (FIG. 18)

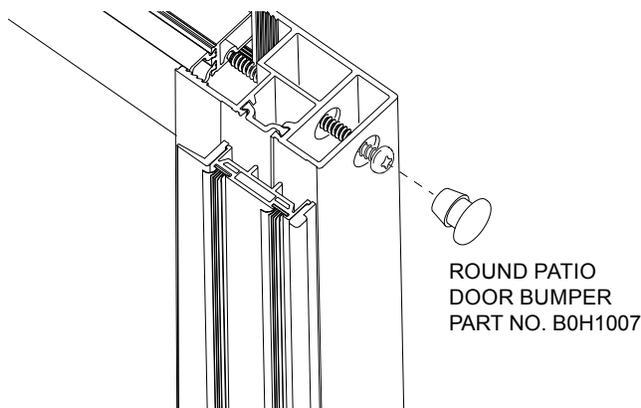


FIG. 17

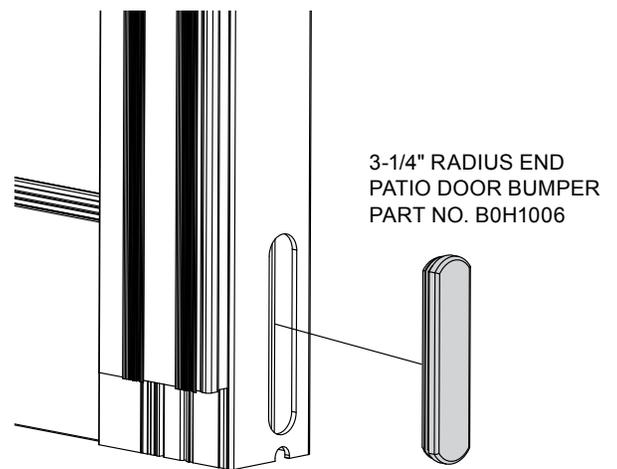


FIG. 18

FIXED PANEL INSTALLATION (Part 1)

1. Install the sill riser strip into the sill before the fixed panel. (FIG. 19)
2. Attach two Part No. HS3FPCLIP11 L-shaped anchor clips to the fixed interlock. Insert and temporarily tape the fixed panel clips in place on the outside top and bottom of the fixed interlock. (FIG. 20)

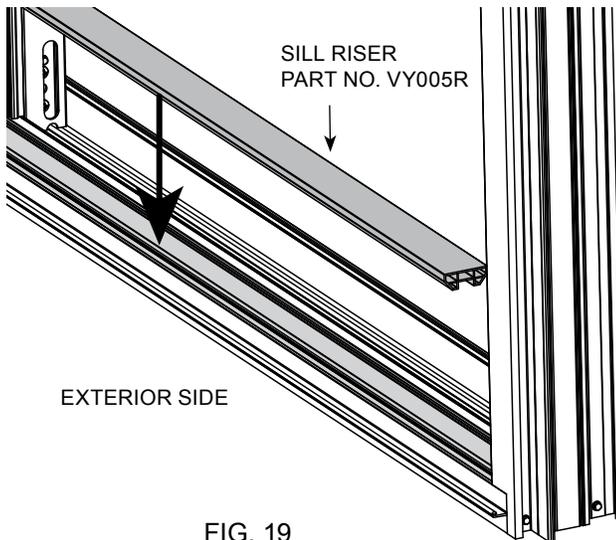


FIG. 19

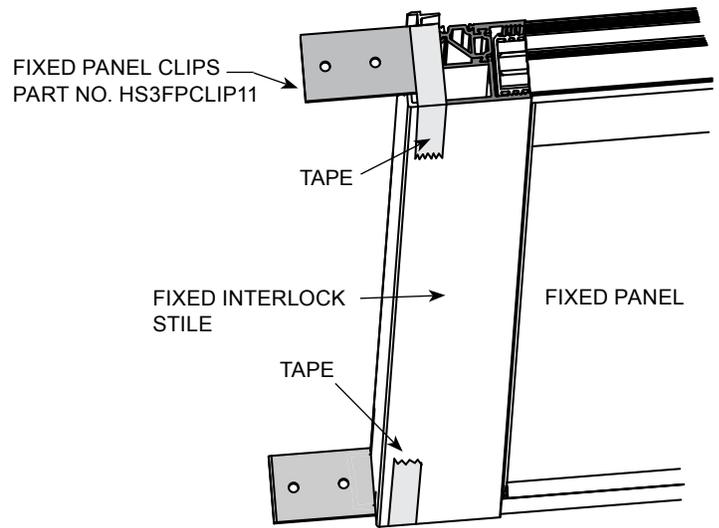


FIG. 20

3. From the exterior, tilt the fixed panel and insert into the top track. Swing bottom of panel in and set it in place on top of the sill riser. (FIG. 21)
4. Slide the fixed panel over and into the side jamb.
5. Fasten the top and bottom fixed panel clips to the fixed interlock stile of the fixed panel with Cat No. ST268 #12 x 3/4" Hex Washer HD SMS and then to the head and sill frame members. (FIG. 22)
6. Remove tape from fixed panel clips. Apply **Cat. No. 33S** sealant over bottom clip screw heads. Seal all screw penetrations in the bottom track during assembly. (FIG. 23)

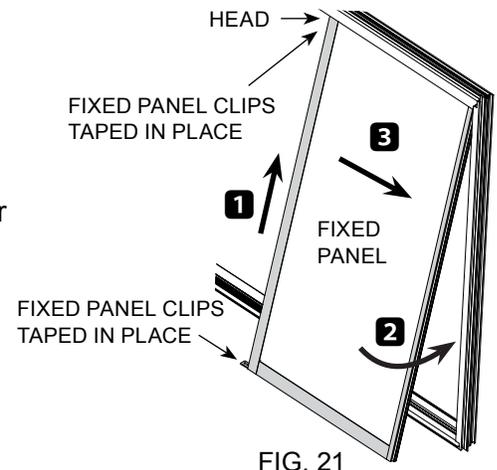


FIG. 21

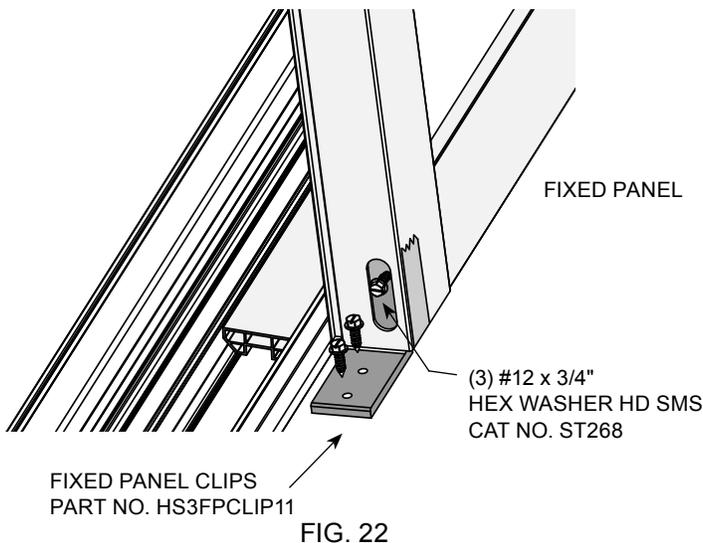


FIG. 22

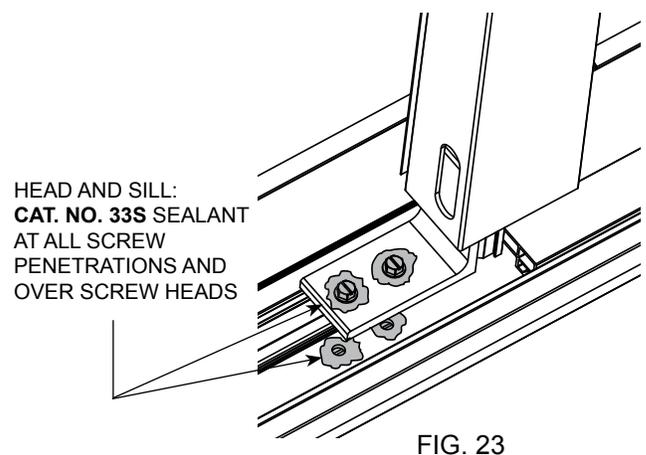


FIG. 23

FIXED PANEL INSTALLATION (Part 2)

1. Install the threshold cap into the sill between the fixed panel and the lock jamb. (FIG. 24)
2. To install the threshold cap, first insert Tab A into the center leg of the sill and snap Tab B into the exterior leg of the sill. (FIG. 25)

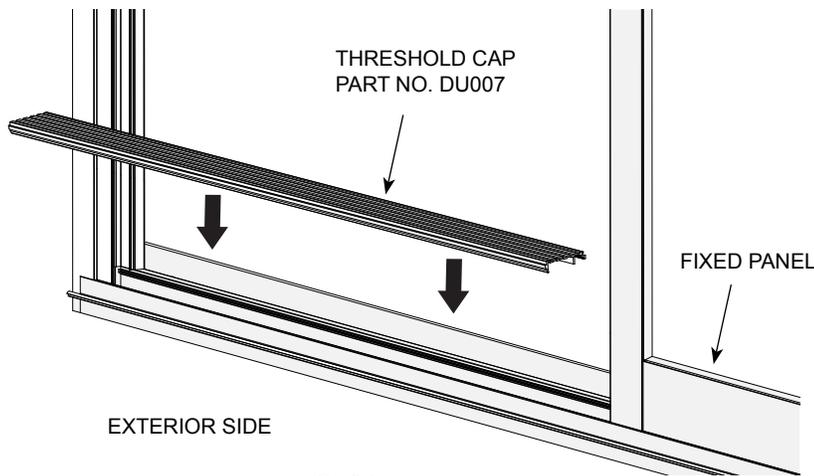


FIG. 24

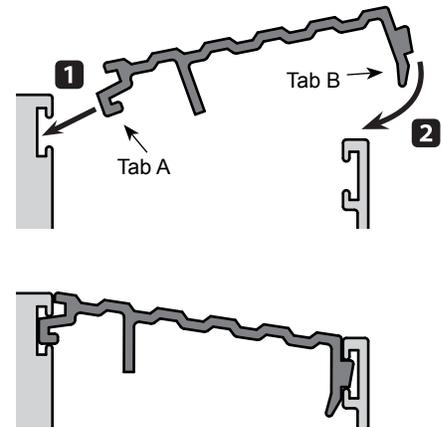


FIG. 25

3. Apply **Cat. No. RTV408** or **Cat. No. 33S** sealant around the perimeter of the threshold cap. (FIG. 26)

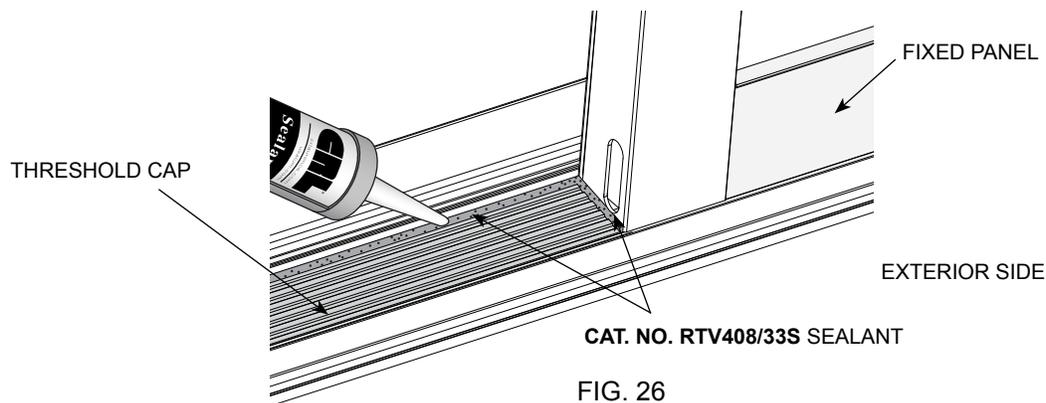


FIG. 26

4. Seal the interior side of the fixed panel to the frame using **Cat. No. RTV408** or **Cat. No. 33S** sealant. Run a continuous bead of sealant at the sill, jamb, and head. (FIG. 27)

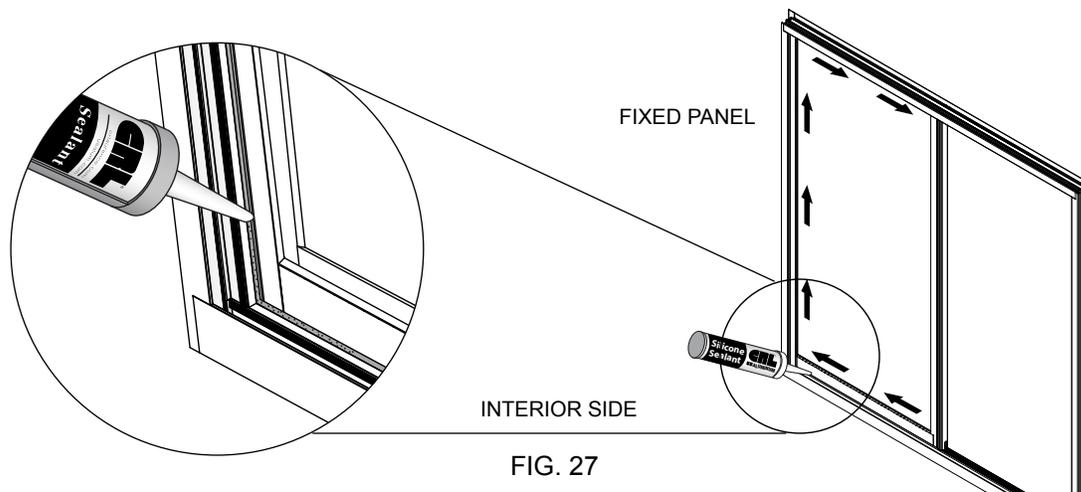
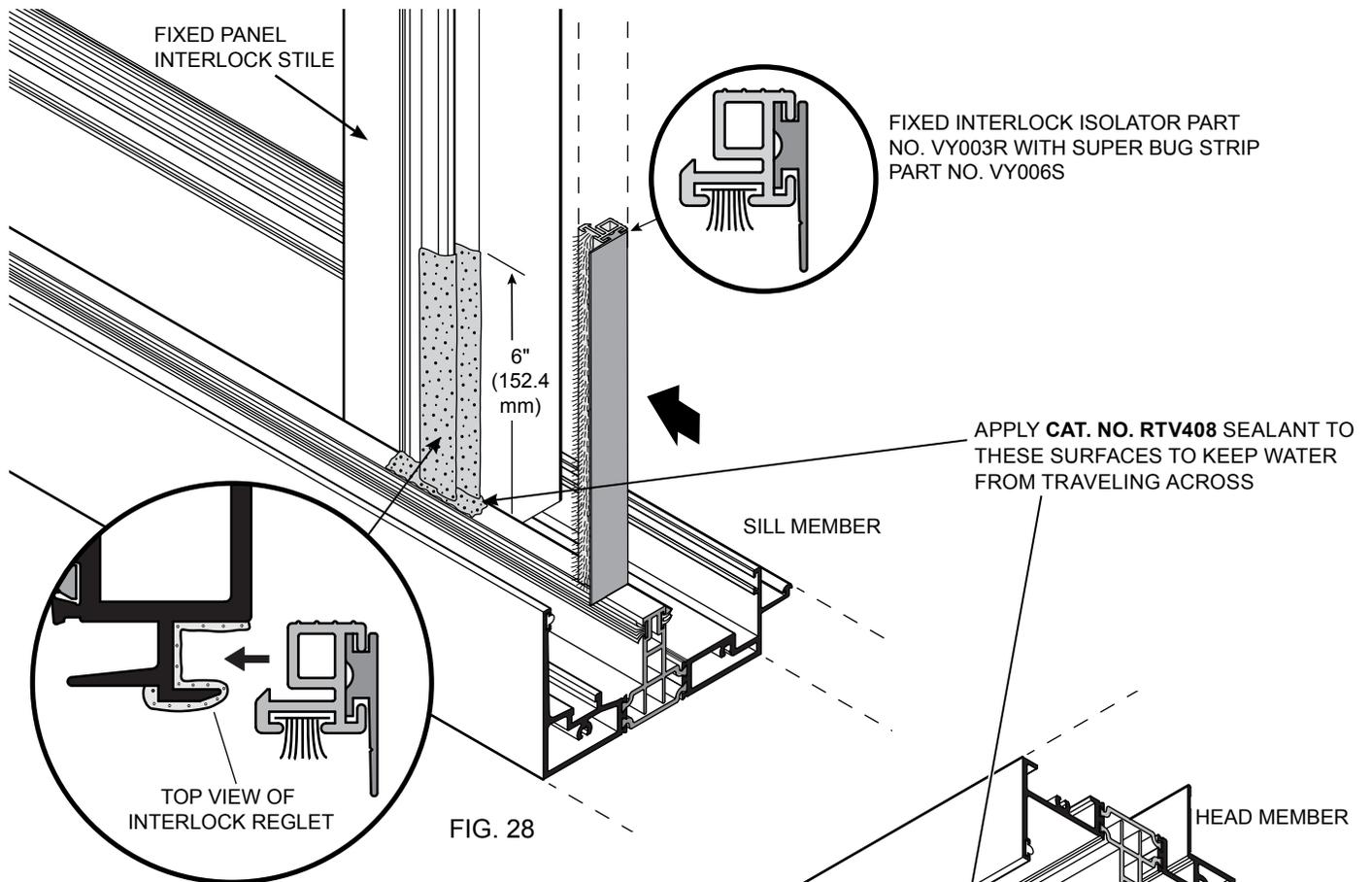


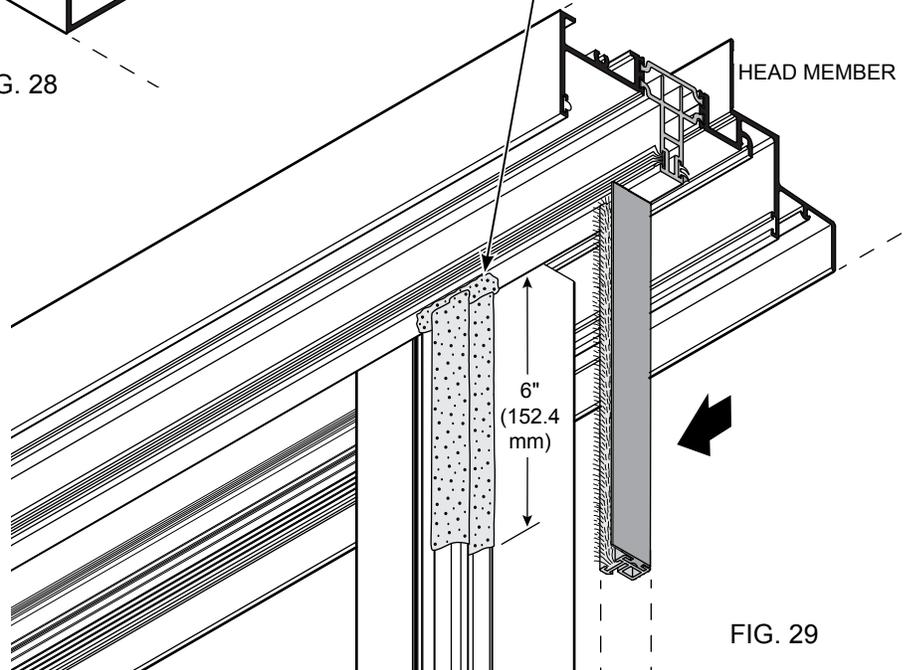
FIG. 27

FIXED PANEL INSTALLATION (Part 3)

1. The Part No. VY006S Super Bug Strip is attached to the fixed interlock isolator and snaps into the U-channel reglet on the interior side of the fixed interlock stile. (FIG. 28)



APPLY A 6" (152.4 MM) LONG BEAD OF SEALANT INTO THE REGLET AT THE TOP AND BOTTOM OF THE INTERLOCK. COAT CONTACT AREAS OF THE REGLET WITH SEALANT



2. Measure the panel between the head and sill D.L.O. and cut the isolator and super bug strip 1/4" (6.4 mm) longer. (FIG. 29)
3. Apply a 6" (152.4 mm) bead of **Cat. No. RTV408** sealant into the top and bottom of the fixed interlock reglet. Also coat the surrounding surface of the reglet with sealant, where the isolator will come in contact.

FIXED PANEL INSTALLATION (Part 3) Continued

- Beginning at the sill, push the isolator and Super Bug Strip Part No. VY006S into the **Cat. No. RTV408** sealant and snap into the fixed interlock. Move up to the head section and snap the isolator into place. Continue working the isolator into the mid section of the panel, compressing the isolator firmly between the head and sill. (FIG. 30)
- Trim the Super Bug Strip to match the contour of the vent panel's top and bottom rail. Ensure the super bug strip is embedded into the sealant at the head and sill. (FIG. 31) Apply a little extra sealant around the isolator/bug strip at the head and sill to keep water from traveling around it. (FIG. 31)

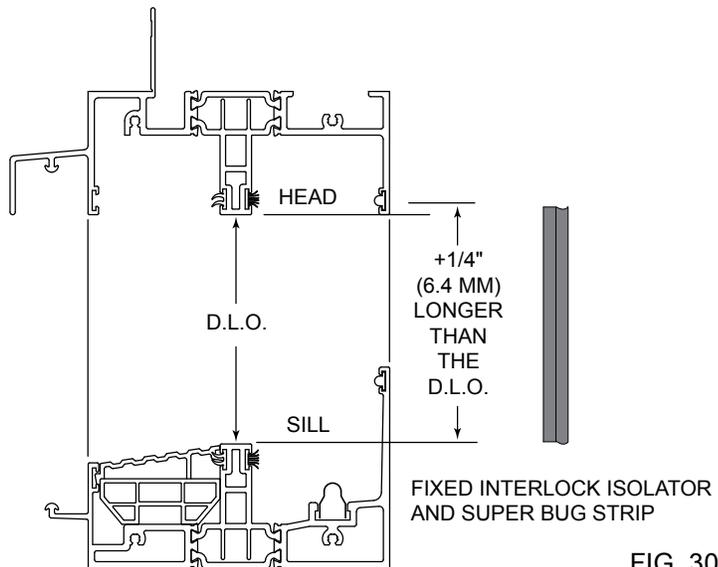
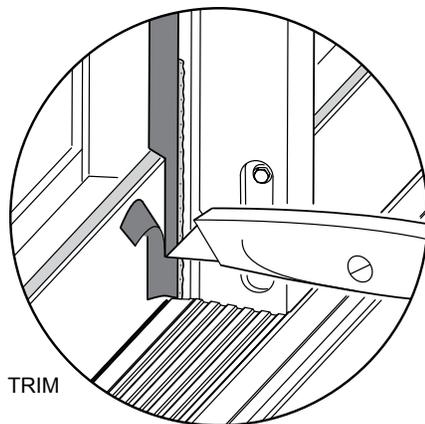
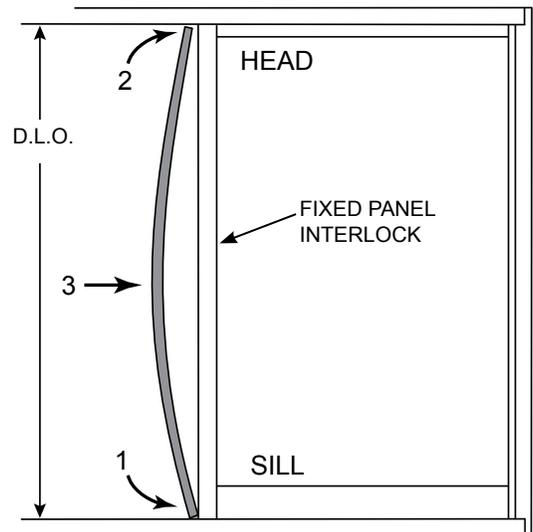
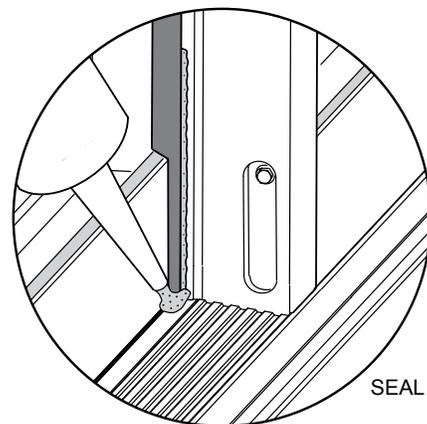


FIG. 30



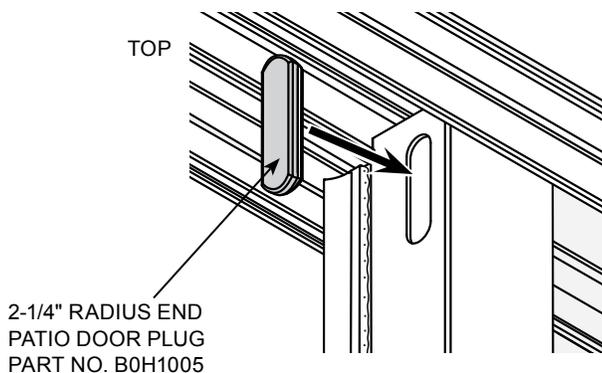
TRIM



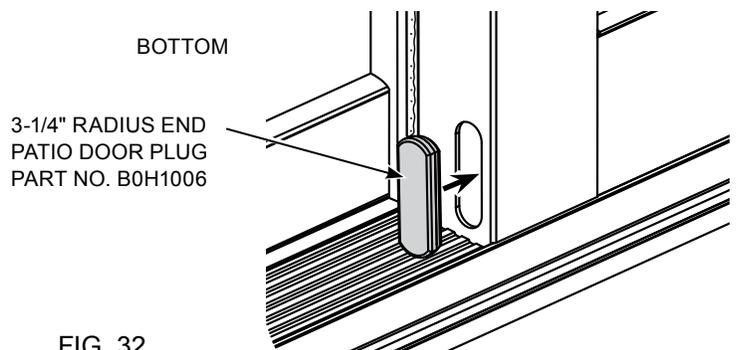
SEAL

FIG. 31

- Insert both top and bottom Radius End Patio Door Bumpers into the fixed interlocking stile. (FIG. 32)



2-1/4" RADIUS END PATIO DOOR PLUG PART NO. B0H1005



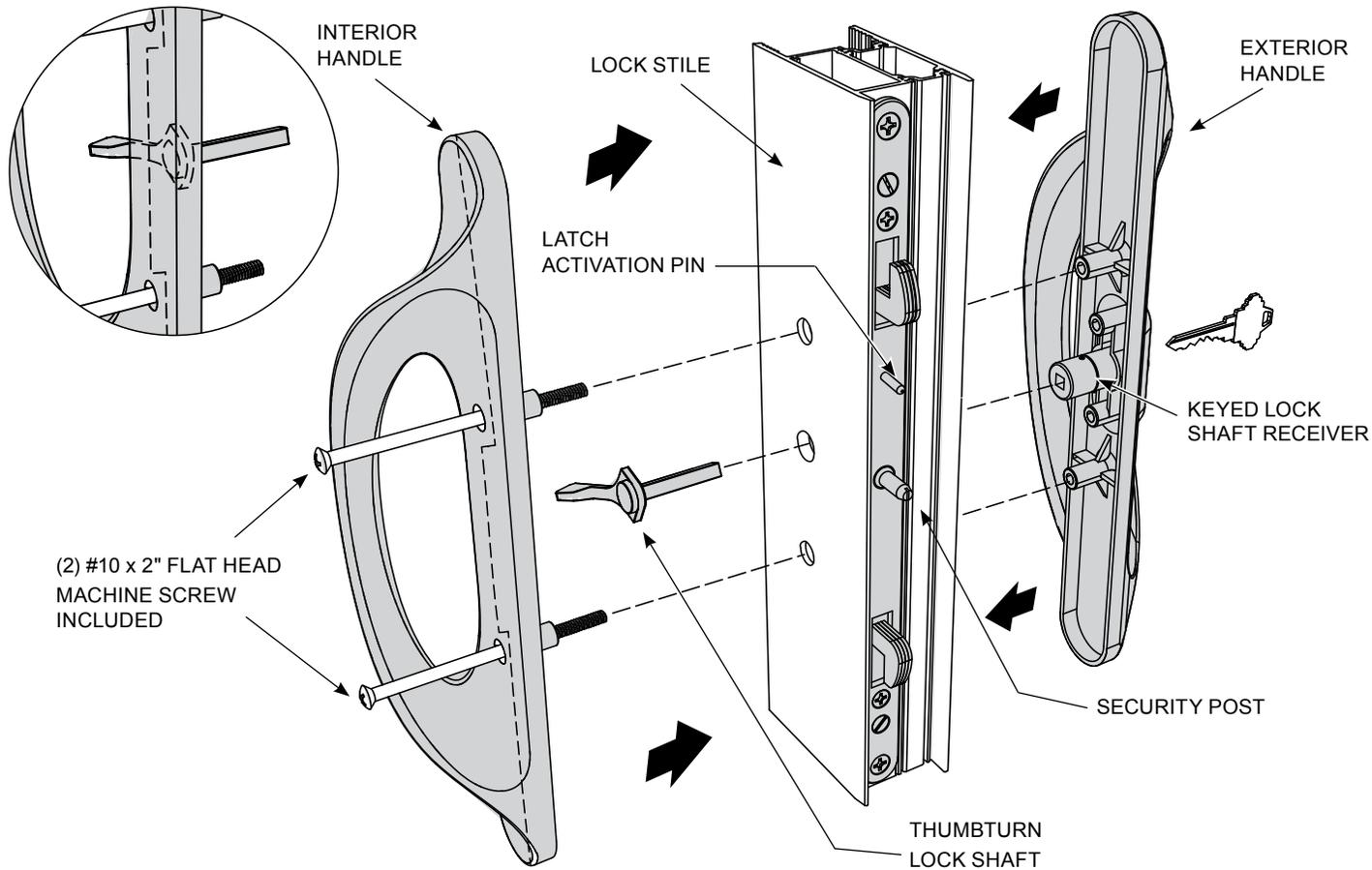
3-1/4" RADIUS END PATIO DOOR PLUG PART NO. B0H1006

FIG. 32

HANDLE AND LOCK INSTALLATION

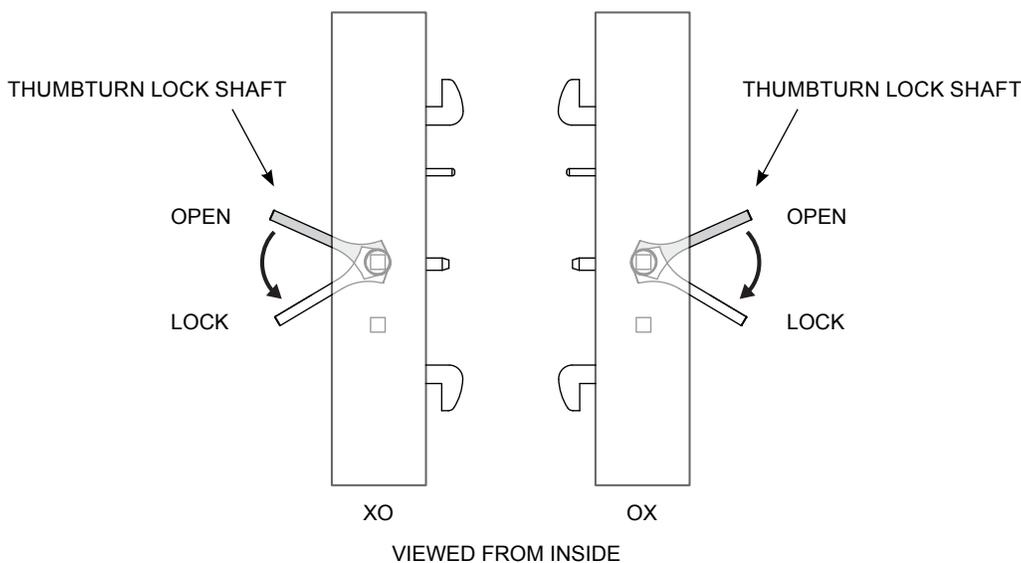
Install the door handle as illustrated below. Starting with the exterior side, align the exterior handle to the holes, insert the thumbturn lock shaft through the door stile, and press into the keyed lock shaft receiver. Hold in place while attaching the interior handle. (FIG. 33)

NOTE: Thumbturn lock shaft does not go through handle.



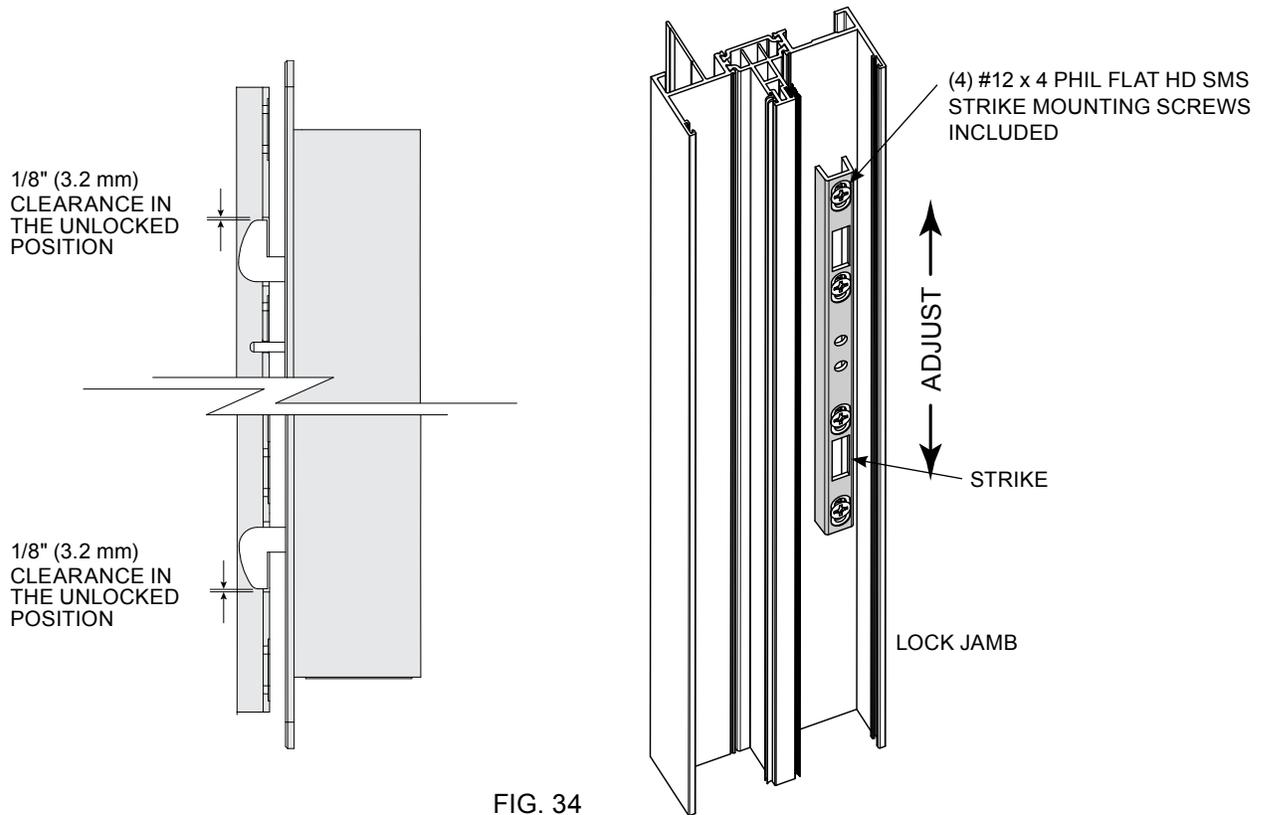
ACTIVE HARDWARE KIT PART NO. B0H1011

FIG. 33

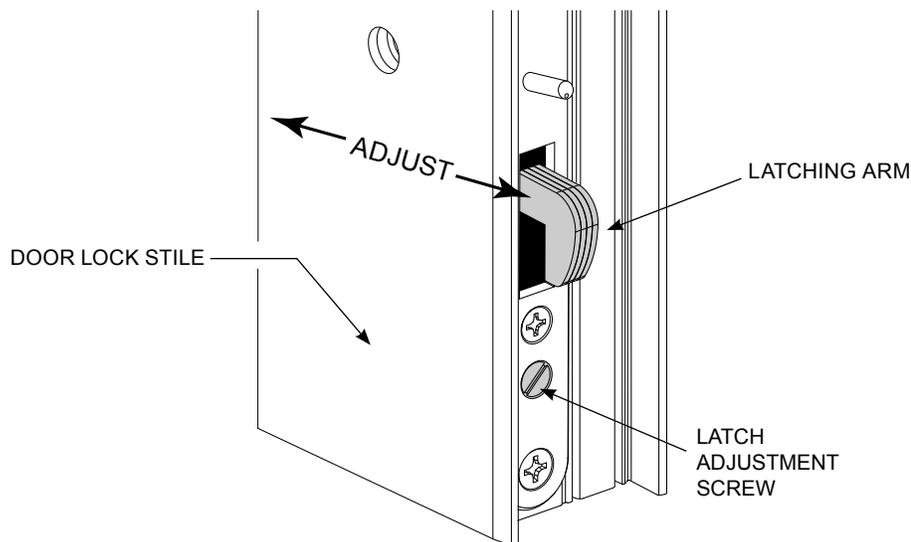


LATCH AND STRIKE ADJUSTMENT

1. Install the strike with (4) #12 x 4" Phil Flat HD SMS.



2. Adjust the strike up to 1/4" (6 mm) vertically to compensate for any misalignment. Loosen the (4) flat head screws enough to allow you to tap the strike up or down. Tighten the screws securely when complete. (FIG. 34)
3. Use the latch adjusting screws to independently adjust the latching arms in or out. With the door closed and latched, slide the door back-and-forth. Adjust the latching arms to allow for 1/16" (2 mm) of travel (FIG. 35)



SCREEN INSTALLATION

1. From the exterior, tilt the screen and insert into the top track. Rotate to vertical and set it in place. (FIG. 36)
2. Starting at the bottom, adjust Part No. B0HMH071 bottom screen rollers so the screen rolls freely and the frame is parallel with the jamb. (FIG. 37) Then repeat with the top rollers.

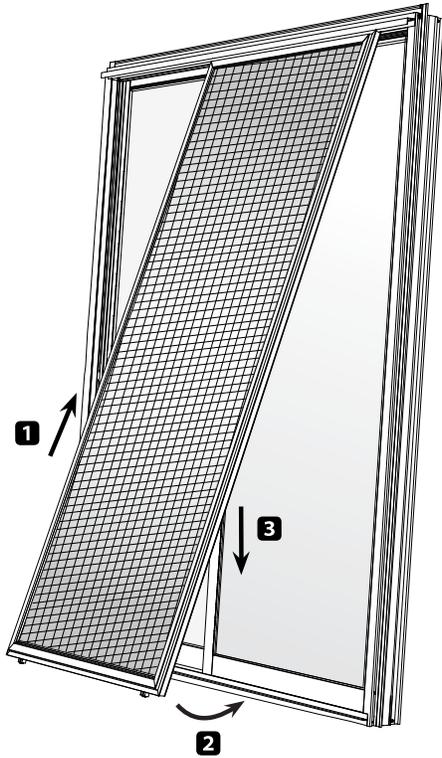
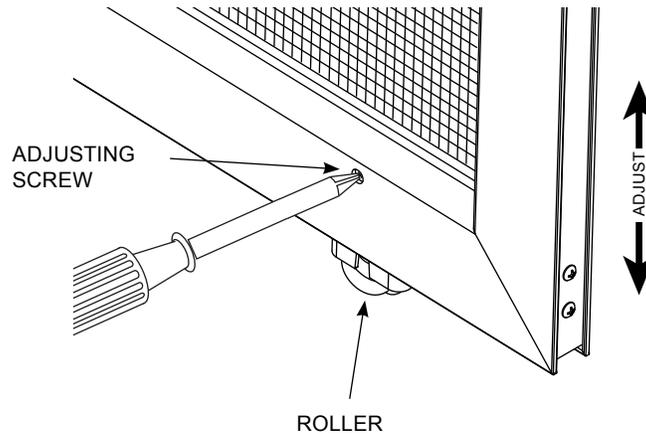


FIG. 36



USE PHILLIPS SCREWDRIVER TO TURN ADJUSTMENT SCREW COUNTER-CLOCKWISE TO RETRACT ROLLER. TURN CLOCKWISE TO EXTEND ROLLER. REPEAT ON TOP ROLLERS.

FIG. 37

3. Position lock strike so screen catch moves freely. (FIG. 38)
4. Install Lock Strike with (2) #8 x 1/2" Hex Washer HD SMS fasteners. (FIG. 39)

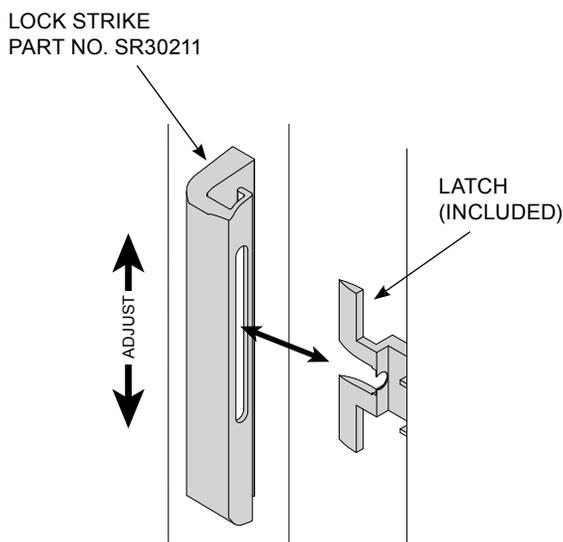


FIG. 38

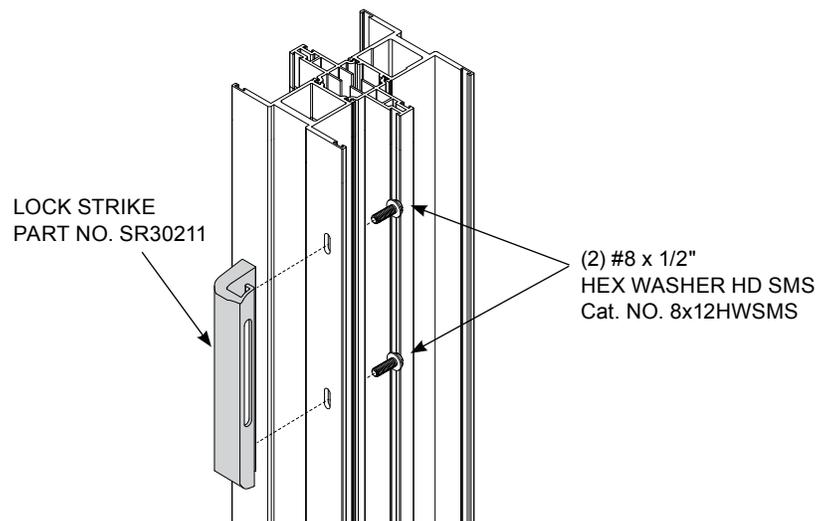


FIG. 39

BUMPER INSTALLATION

You can slide the fixed bumper over to ensure more clearance between the door and the fixed interlock.

1. Insert Bumper Stop Bracket into the head channel touching the jamb. (FIG. 40)
2. Inspect for any corner sealant damage and repair.
3. Apply **Cat. No. M64** or **Cat. No. 95C** sealant to interior and exterior of the frame perimeter.

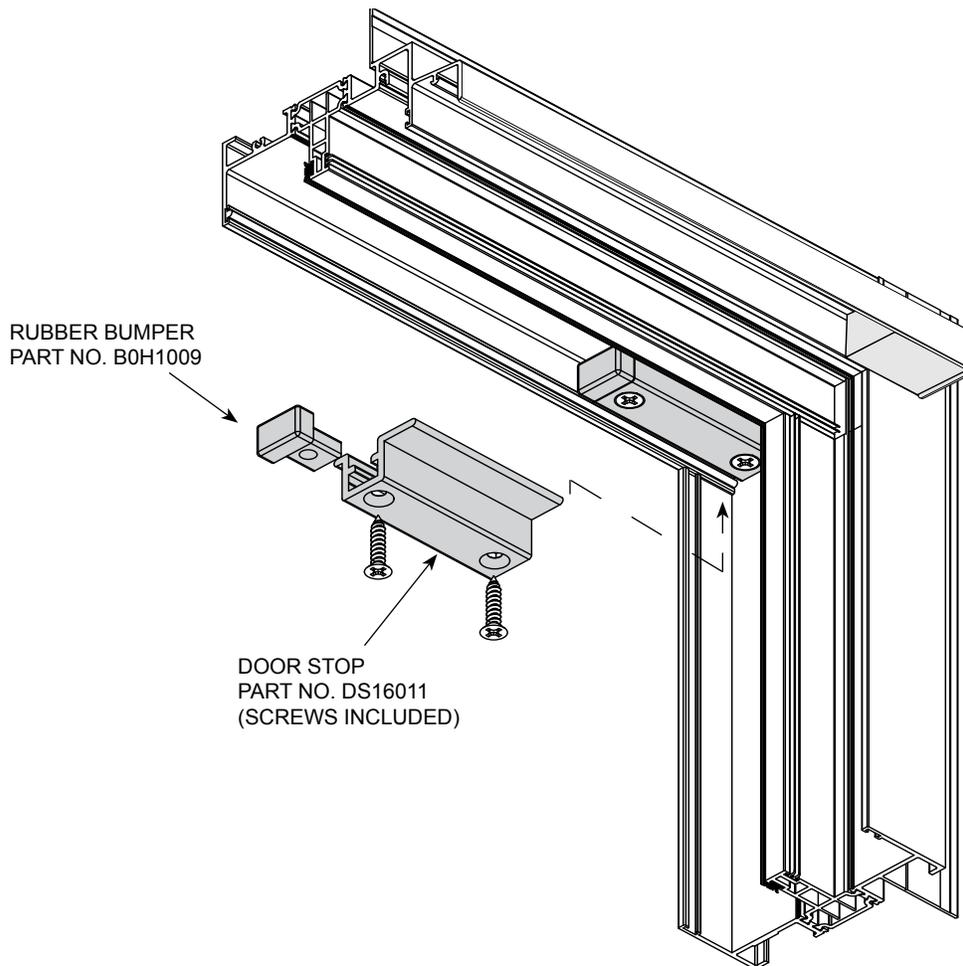


FIG. 40

OPTIONAL CONFIGURATIONS - OXXO INSTALLATION (PART 1)

1. Install both vents from the exterior side. (FIG. 41)
2. Adjust rollers on both doors until frames are level and flush, and roll freely. (FIG. 42)

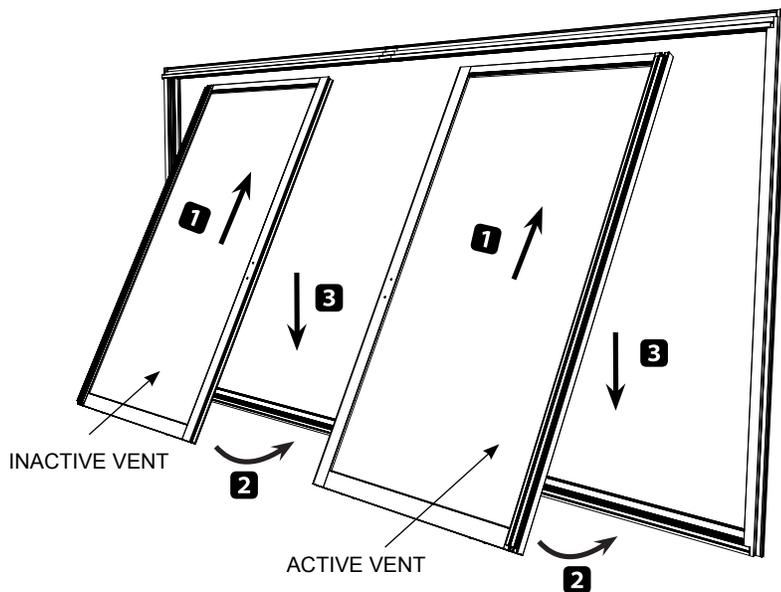


FIG. 41

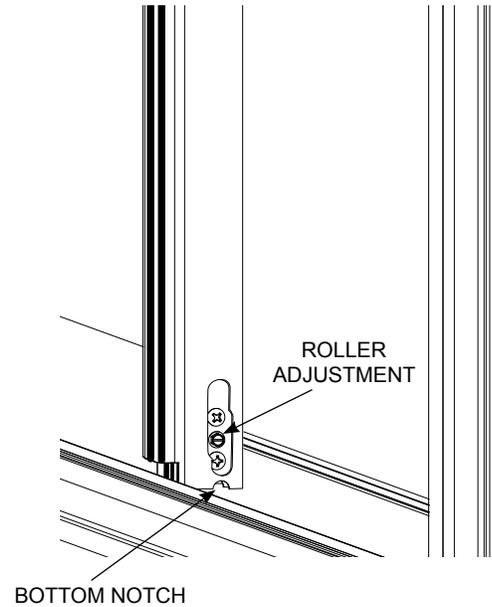


FIG. 42

3. Install DT02511 OXXO Adapter (FIG. 55) to the inactive vent panel. Dry fit the adapter on the panel first. Close both panels and check the spacing and alignment. (FIG. 43) Maintain an equal gap at the top and bottom. (FIG. 44)

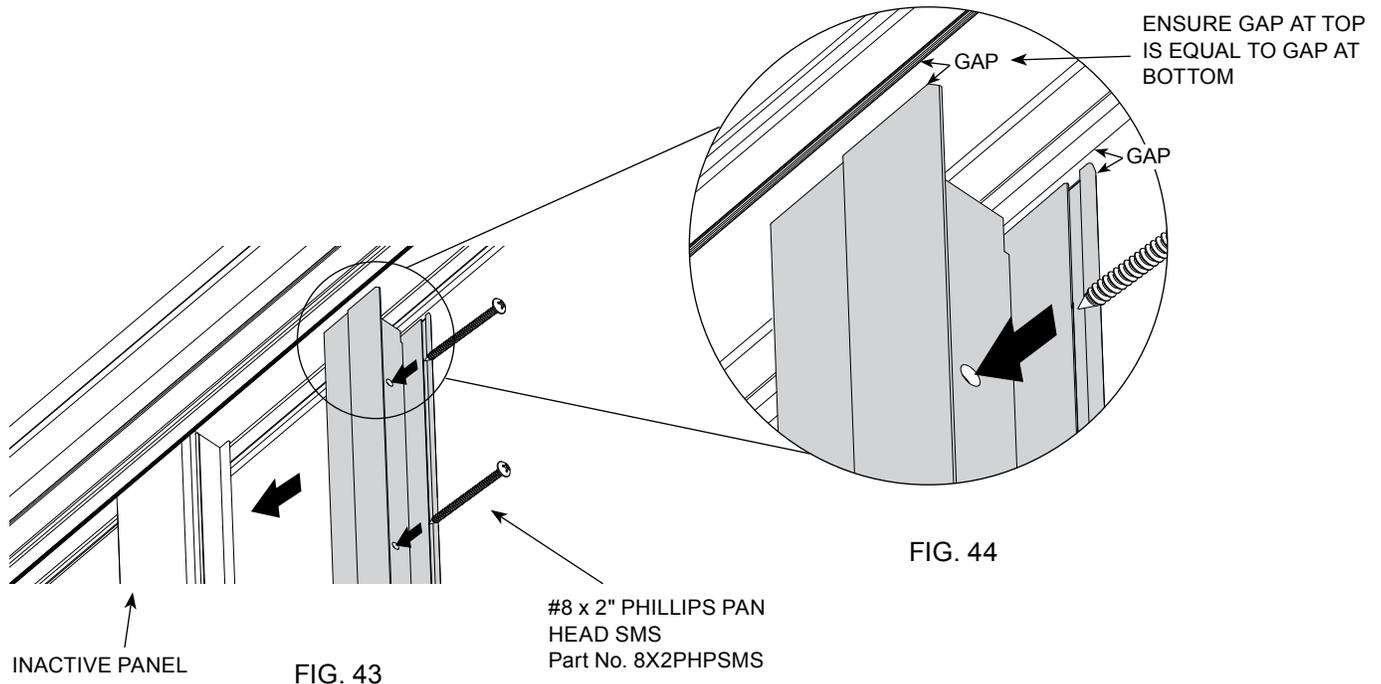


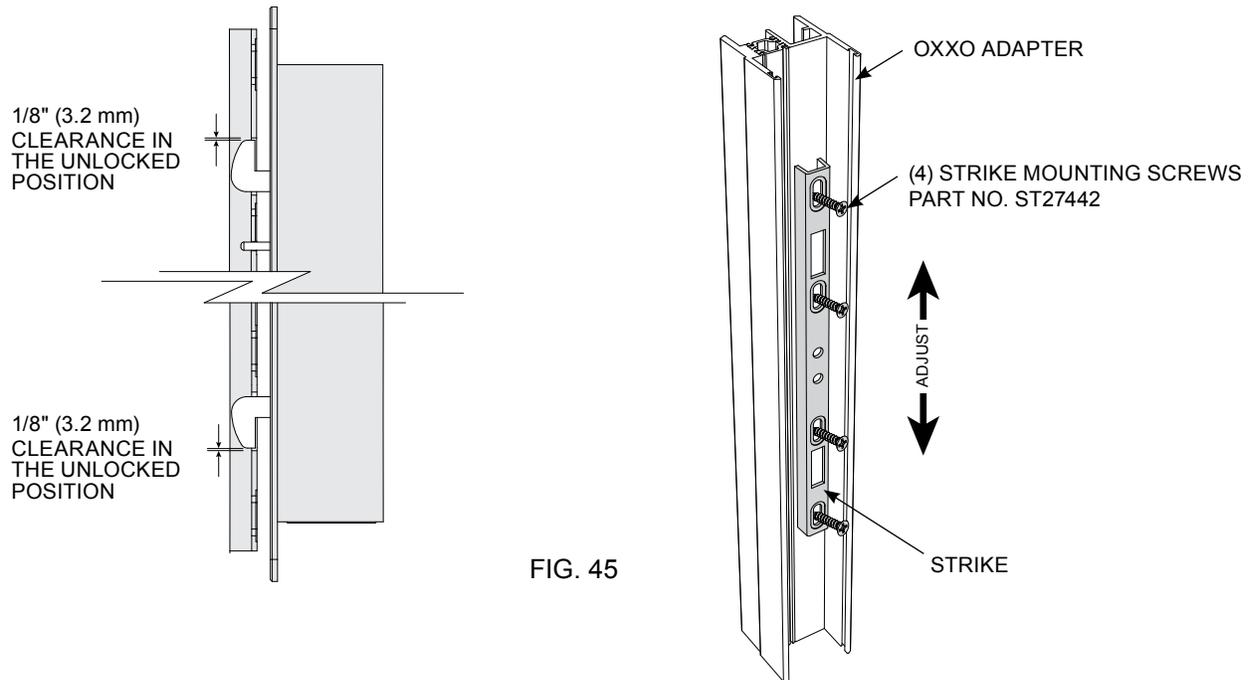
FIG. 43

FIG. 44

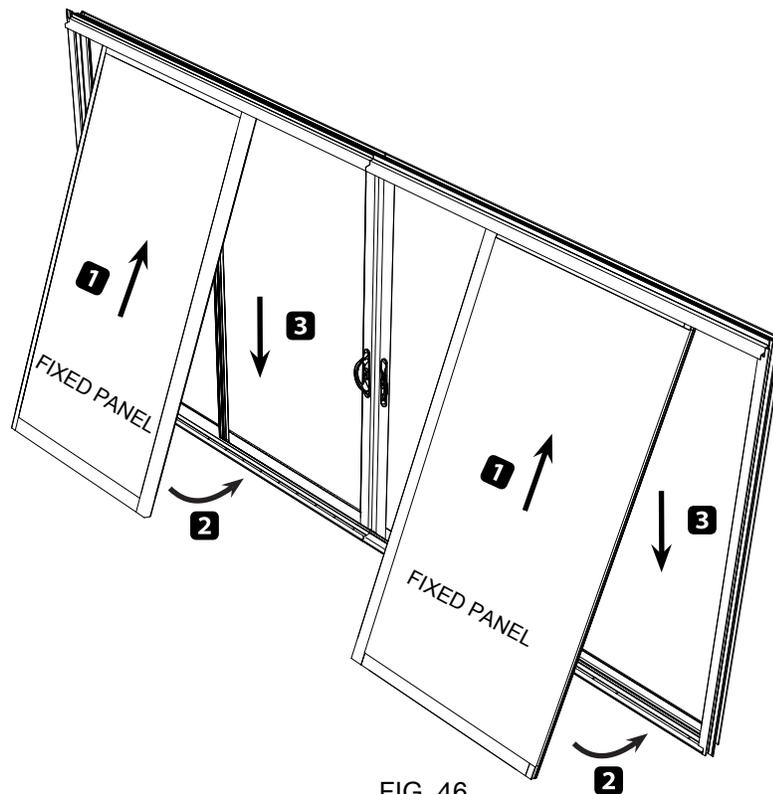
#8 x 2" PHILLIPS PAN
HEAD SMS
Part No. 8X2PHPSMS

OPTIONAL CONFIGURATIONS - OXXO INSTALLATION (PART 2)

4. Install strike to the OXXO adapter on the inactive panel. (FIG. 45)



5. Install both fixed panels from the exterior. (FIG. 46)
6. Refer to the Fixed Panel Installation instructions. Seal as instructed. Continue with Handle and Lock Installation and Latch and Strike Adjustment.
7. Install threshold cap and seal as shown in FIG. 24 and FIG. 25.



OPTIONAL CONFIGURATIONS - OXXO SCREEN INSTALLATION

1. Install both screens from the exterior side. (FIG. 47)

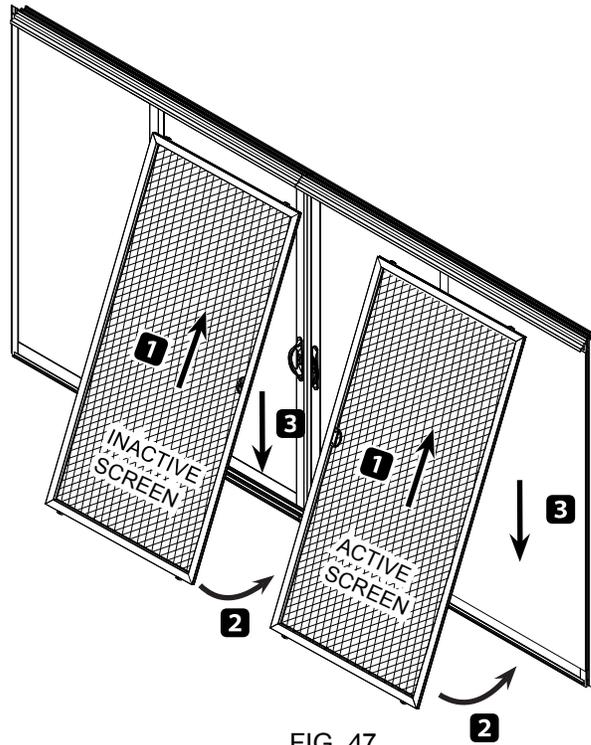


FIG. 47

2. Refer to the instructions to adjust top and bottom screen rollers. (FIG. 37)
3. Install OXXO screen lock strike on the inactive panel. Position so screen catch moves freely. (FIG. 48)

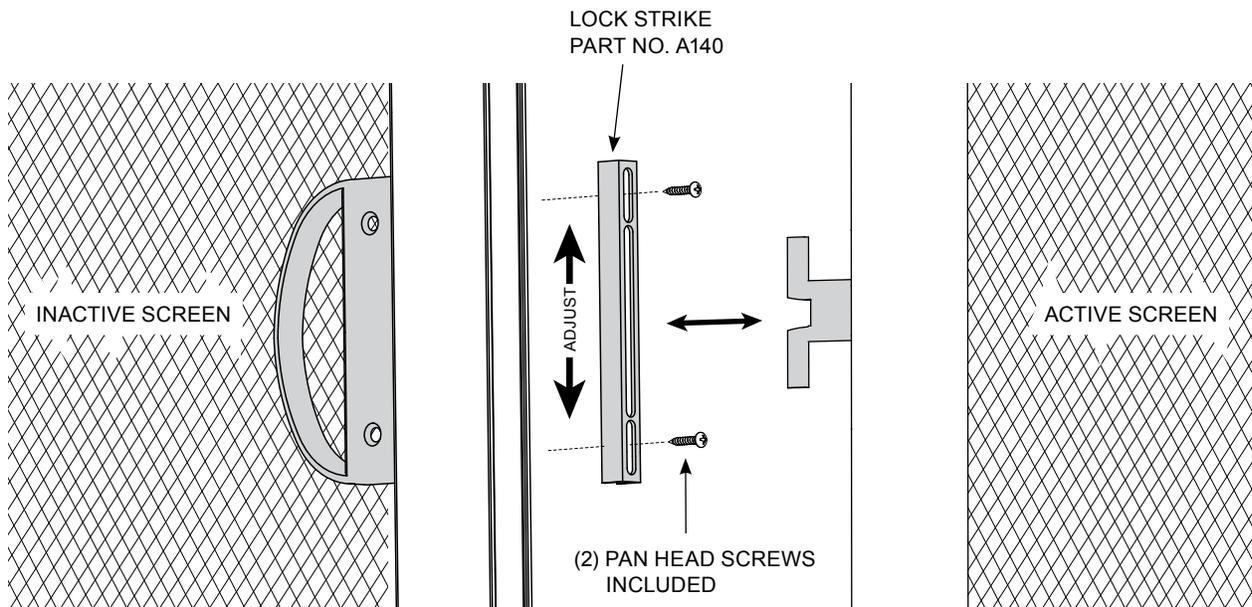


FIG. 48

4. Refer to instructions to install bumper. (FIG. 40)

OPTIONAL CONFIGURATIONS - OXO INSTALLATION (PART 1)

1. Tip active vent into far interior track. Install from the exterior side. (FIG. 49)
2. Adjust rollers on door until frame is level and flush, and rolls freely.

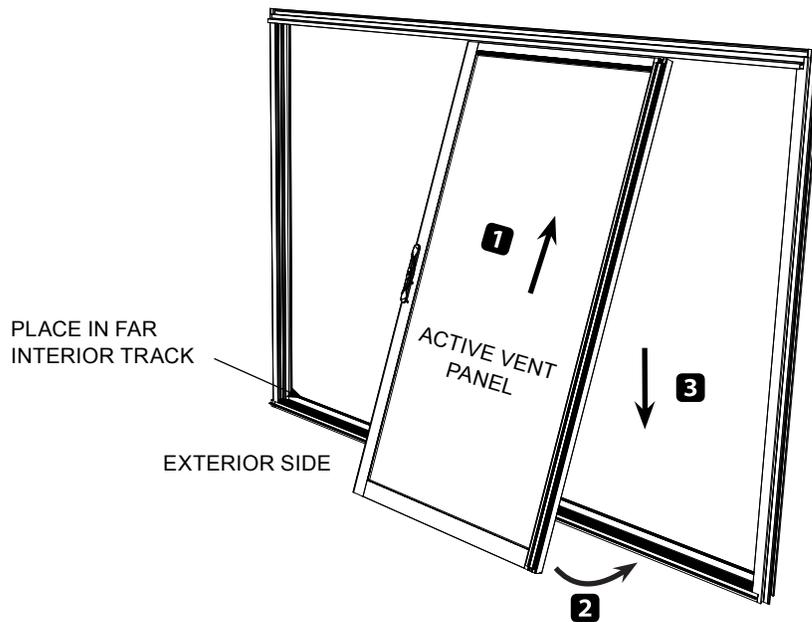


FIG. 49

3. Install the fixed panels on either side of the active vent. Slide the fixed panels to each end of the frame. Steps 1 and 2. (FIG. 50)
4. Place Part No. DT01511 OXO adapter on sill and slide tight to fixed panel. Step 3. (FIG. 50)

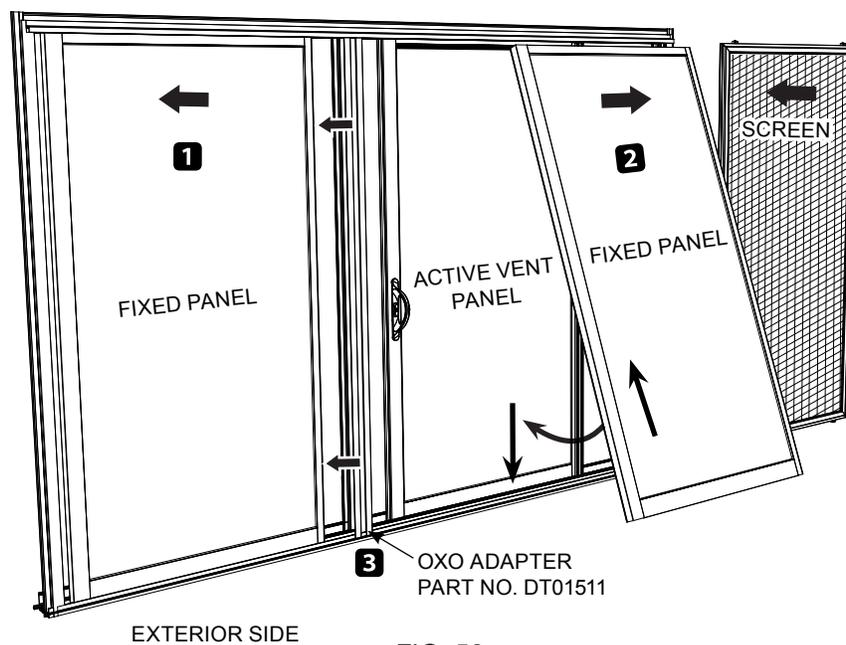


FIG. 50

OPTIONAL CONFIGURATIONS - OXO INSTALLATION (PART 2)

5. Install clips at top and bottom of OXO adapter. (FIG. 51).
Refer to FIG. 20 for clip attachment method.

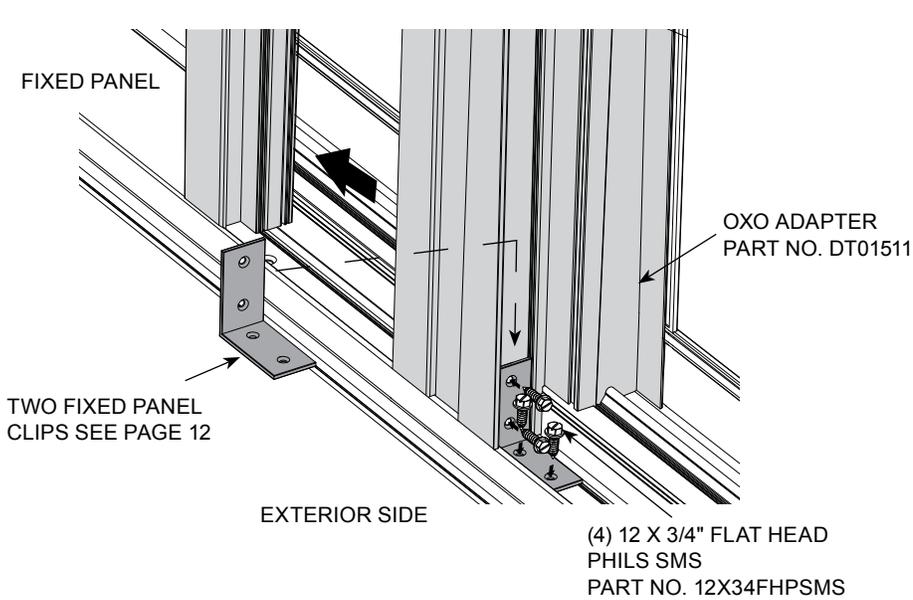


FIG. 51

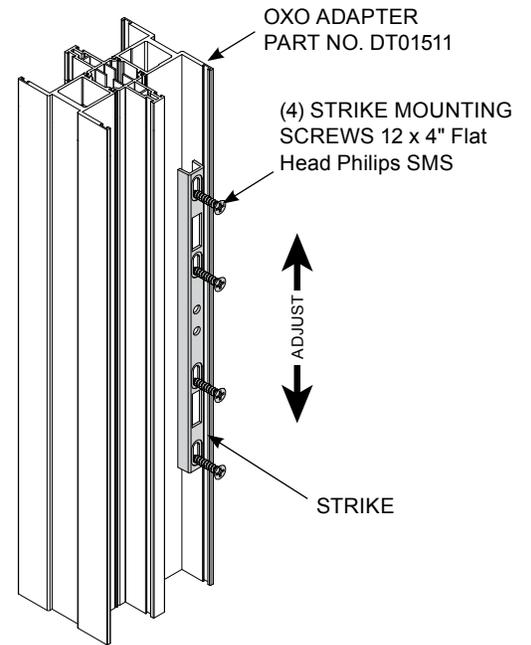


FIG. 52

6. Install strike to the OXO adapter. (FIG. 52)
7. Refer to the Fixed Panel Installation instructions. Seal as instructed. Continue with Handle and Lock Installation and Latch and Strike Adjustment.
8. Install screen door. Refer to FIG. 55 for screen adapter.
9. Position lock strike so screen catch moves freely and secure with (2) Part No. 8x12HWSMS 8 x 1/2" Hex Washer Head SMS fasteners.
10. Install threshold cap and seal as shown in FIG. 25.
11. Snap in the OXO filler Part No. 1S25011 shown in FIG. 56.

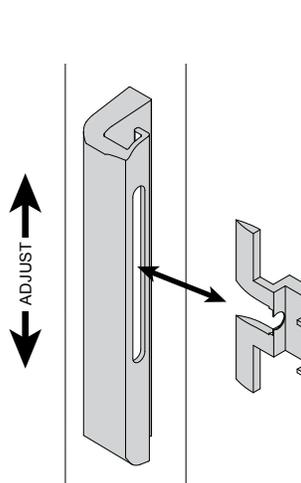


FIG. 53

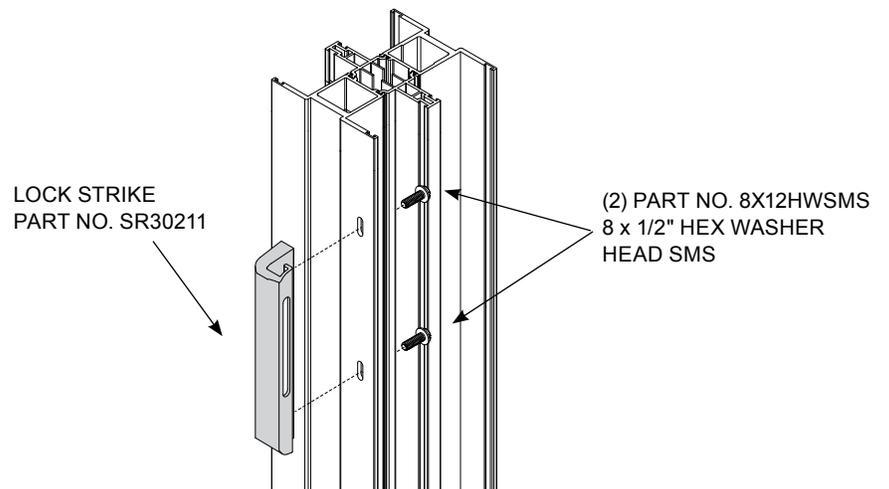


FIG. 54

OXXO ADAPTERS

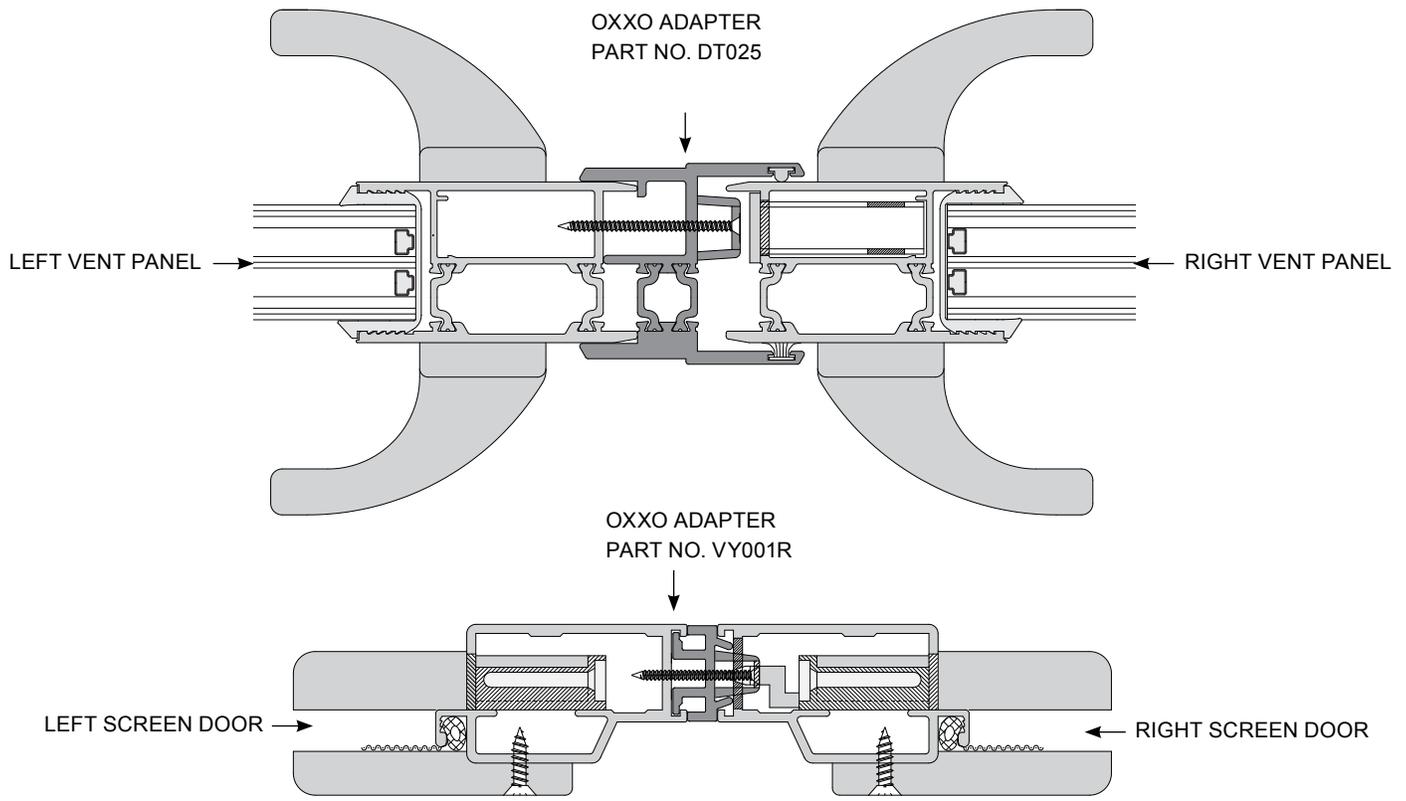


FIG. 55

OXXO ADAPTERS

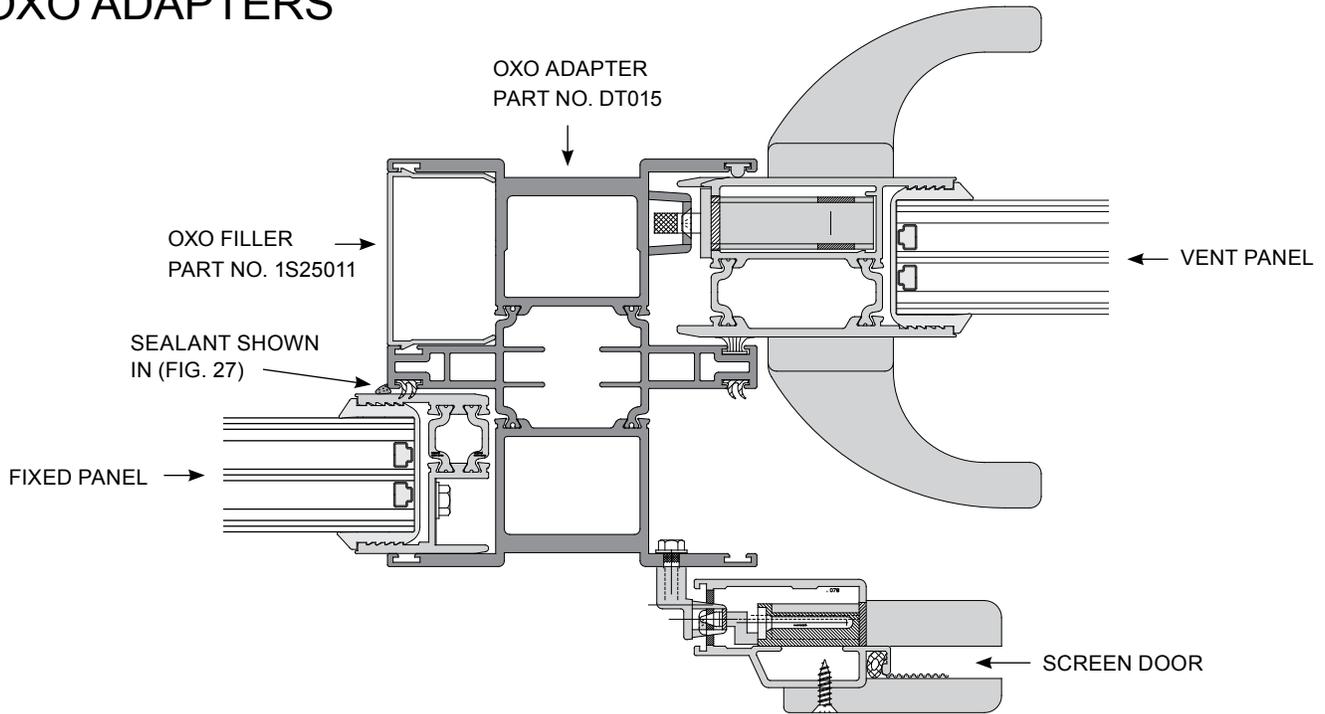


FIG. 56

INSTALLING THE STAINLESS STEEL AIR DIFFUSER (Model 3060 Only)

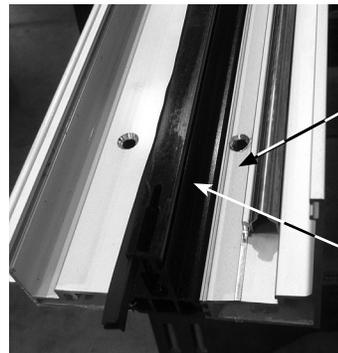
The stainless air diffuser must be installed after the frame is mounted to the opening and all screw heads sealed. It is mounted to the fixed-interior side of the sill adjacent to the roller track. The purpose of the device is to slow the air movement through the weep holes and therefore must be sealed properly to the frame.

1. Locate and clean the diffuser to remove any packing debris that might block the breather holes.



2. Clean the interior-fixed side channel of the bottom track to remove any debris and oil residue.

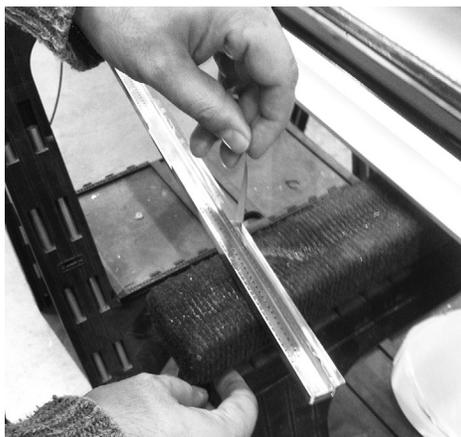
Bottom frame member shown unassembled for clarity. However, the Diffuser installation Must Be Done after the Frame is Assembled and installed into the opening.



The Mounting Tape of the diffuser must adhere to this Predrilled Channel so make sure it is free of all Oils.

The Interior Facing Surface of the Divider Riser must also be Clean and Free of any Oils. The Weep Holes are located on this surface.

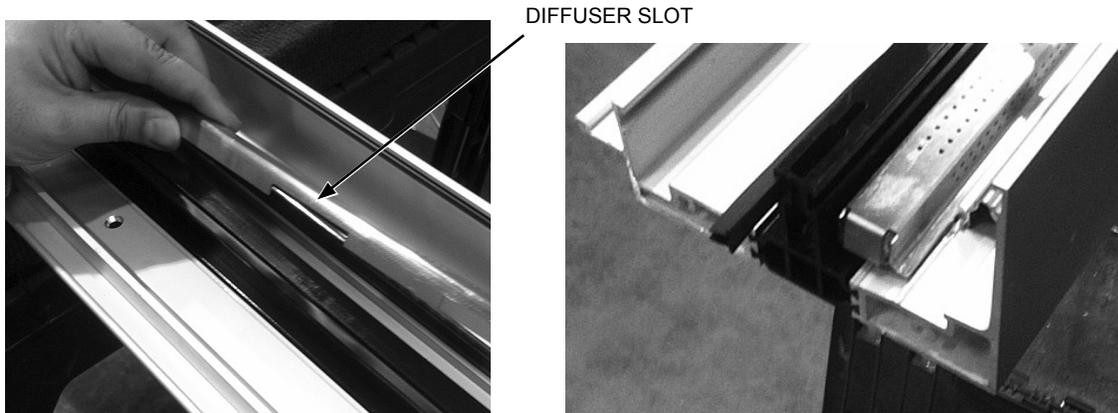
3. Mark the first two weep holes on the interior-fixed side of the bottom sill. Remove the VSB tape from the diffuser.



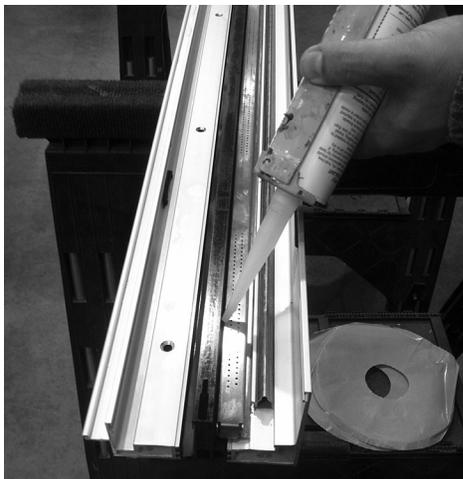
NOTE: All of the illustrations in this manual show the frame sill unmounted for clarity. Under actual conditions, the frame should be mounted and the screw heads sealed prior to installing the diffuser. The doors will be installed after the diffuser is in place.

INSTALLING THE STAINLESS STEEL AIR DIFFUSER (Continued)

4. Position the diffuser slots over the weep holes in the sill and press into place.



5. Silicone the diffuser to the divider riser along the exposed surface from end-to-end. Be careful not to block the breather holes with sealant.



This Concludes the Installation Manual for your product. We hope that this guide has been helpful. Should you need further assistance, our knowledgeable Technical Sales Department is available at no charge during regular business hours. Please have your Order Number ready before calling.



"WE'RE HERE TO HELP"
TECHNICAL SALES
1-323-588-1281

Or Visit our Websites at:
www.crlaurence.com or
www.usalum.com

Glass and Glazing AssistanceExt: 15275

Tools, Hardware, Sealants, Safety Gear, U.V., and Equipment

Architectural HardwareExt: 17700

Entrances and Storefronts, Balanced, Stacking, and Sliding Doors

Architectural and Ornamental MetalsExt: 17700

Formed Sheet Metal, Awnings, Columns, and Wall Panels

Shower DoorsExt: 17740

Hinges, Handles, Enclosures, Grab Bars, and Partitions

Transaction and HospitalityExt: 17760

Bullet Resistant, Drive Thru, Sneeze Guards, and Speak Thrus

Door and Window Control HardwareExt: 17520

Jackson Overhead Concealed Closers, Surface Closures, Locks

Blumcraft Architectural MetalsExt: 17700

Tempered Glass Doors, Panic Hardware, Glass Gates, and Baffles

U.S. AluminumExt: 15305

Storefronts, Entrances, Curtain Walls, Window Walls, and Partitions

Architectural RailingsExt: 17730

Cap, Hand, Post, Wind Screen, Base Shoe, and TaperLoc

AutomotiveExt: 17780

Automotive Glazing Supplies, Truck Sliders, and RV Windows

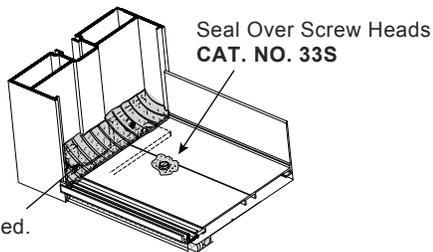
CAL GUIDE TO SEALANTS US ALUMINUM

NOTE: All sealants must be tooled to ensure proper adhesion.

WATERPROOFING

- **33S ACETIC CURE SILICONE**

Sill to Subsill, End Dams, Screw Heads, and Threshold to Door Frame Sealing.

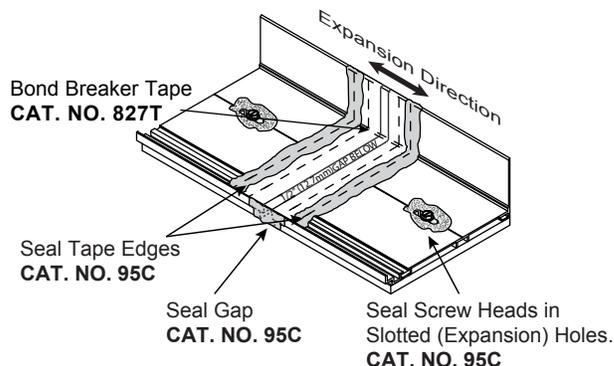


NOTE: Not for use near insulating glass units with butyl sealant.

EXPANSION

- **95C SILICONE BUILDING SEALANT**

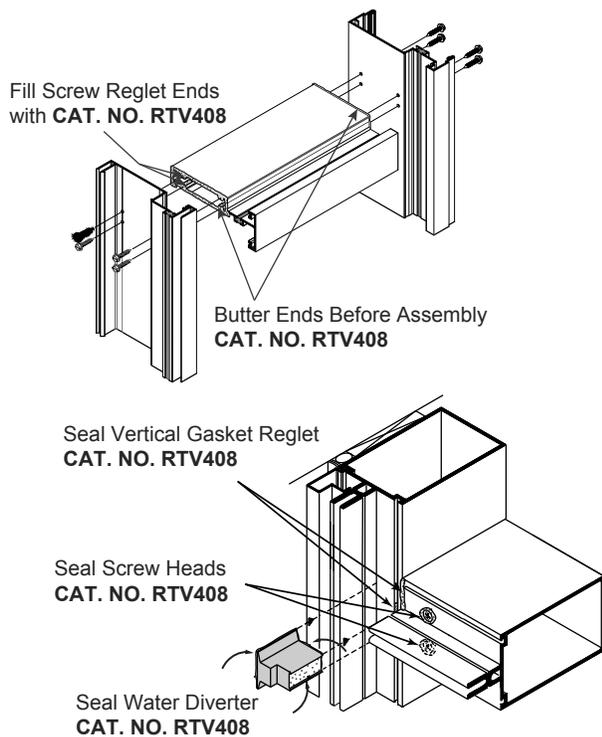
Expansion Joints.



JOINT ADHESIVE

- **RTV408 NEUTRAL CURE SILICONE**

Small Joints, End Joints and Buttered Surfaces, Water Diverters, End Dams, and Reglet Fills.

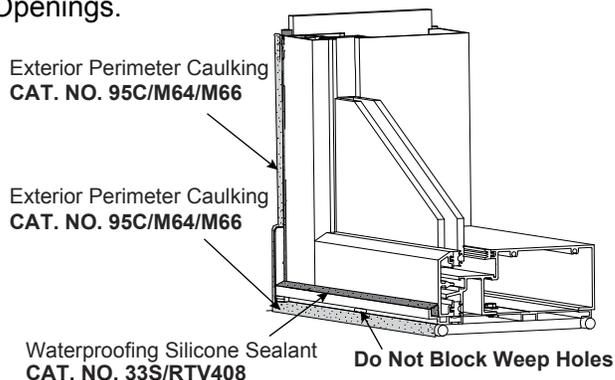


NOTE: I.G. butyl contact OK.

PERIMETER

- **95C SILICONE BUILDING SEALANT (Preferred)**
- **M64 (SMOOTH) MODIFIED POLYURETHANE**
- **M66 (TEXTURED) MODIFIED POLYURETHANE**

Perimeter Seals, Expansion Joints, Sill and Threshold Beds, Concrete, Wood, and Steel Openings.



STRUCTURAL

- **ALL STRUCTURAL SEALANTS REQUIRE TESTING AND APPROVAL.**

Glass-to-Glass or Glass-to-Metal