INSTALLATION INSTRUCTIONS

ES-4000

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APRIL 07 -2022

ESWINDOWS

www.eswindows.com

HSEQ REGULATIONS

Read all instructions carefully before attempting this procedure. If you have any questions about your ability to complete this procedure, contact ESWINDOWS for further direction.

If swing stages are required for installation, the HSEQ inspector must approve the permissions.

- Wear the necessary personal protective equipment for product installation.
- Take safety precautions when performing the activity.
- Please follow the steps and make sure you have appropriate personal protective equipment and follow the rules established by the guidance for working at height, if required to do so.

IMPORTANT:

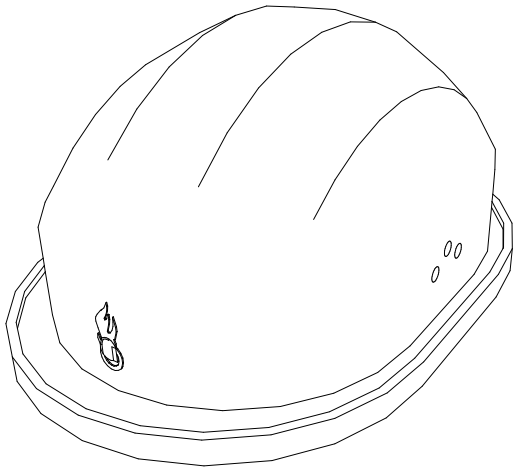
Contractors must have and execute an adequate QA/QC policy to guarantee the product installation is within industry standards and ESW guidelines. Once the product is received in acceptance by the contractor, any damage or installation problems are no longer responsibility of ESWINDOWS.

INTRODUCTION

ES-4000, a sliding door system.

This guide illustrates step by step how to install the system properly.

Prior to installation process check that all parts and materials are in right conditions, verify that the quantities and descriptions match production drawings.



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INSTALLATION INSTRUCTIONS

TOOLS AND SUPPLIES REQUIRED FOR INSTALLATION.....Page. 2

PARTS REQUIRED FOR INSTALLATION.....Page. 3-4

INSTALLATION

STEP 1
INSPECTION AND VERIFICATION.....Page. 5

STEP 2
FRAME ASSEMBLY.....Page. 6-8

STEP 3
INSTALL FRAME.....Page. 9-13

STEP 4
INSTALL PANEL.....Page. 14-16

STEP 5
INSTALL ACCESSORIES.....Page. 17-22

STEP 6
SEAL PERIMETER.....Page. 23

REVIEW

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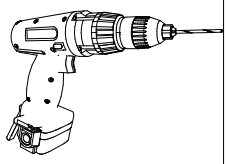
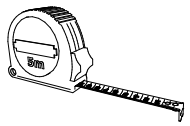
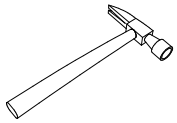
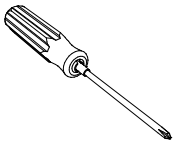
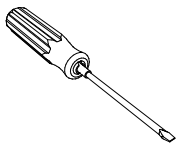
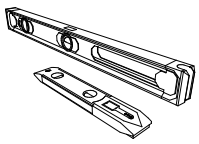
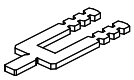
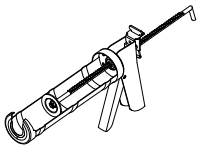
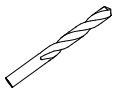
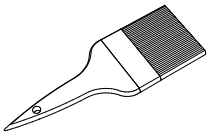
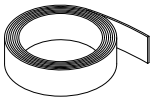
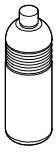
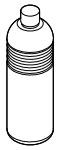
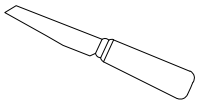
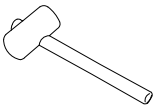
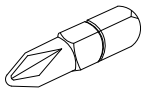
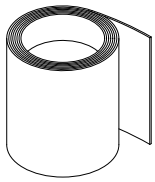
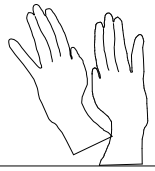
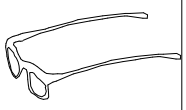
TOOLS AND SUPPLIES FOR INSTALLATION

Detail	Description
	Drill
	Meassure tape
	Hammer
	Phillips screwdriver
	Slot screwdriver
	Level
	Plastic shims

Detail	Description
	Plumb
	Thread
	Industrial Silicone gun
	Bits for concrete
	Brush
	Masking tape
	Isopropyl alcohol

Detail	Description
	Thinner
	Knife
	Mallet
	Point
	Clean rag
	Safety gloves
	Safety glasses

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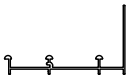
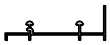
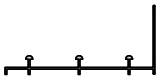
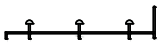
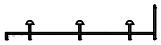
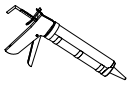
PARTS REQUIRED FOR INSTALLATION		
PART	DETAIL	DESCRIPTION
EXTRUSIONS		
ES–4001		FRAME HEAD
ES–4002		FRAME SILL
ES–4001V		FRAME HEAD
ES–4002M		FRAME SILL LOW RISE
ES–4002V		FRAME SILL LOW RISE
ES–4019		FRAME HEAD
ES–4020		FRAME SILL
ES–4020M		FRAME SILL
ES–4020V		FRAME SILL LOW RISE 3 TRACKS
ES–4021		FRAME JAMB
ES–4030		HEAD RECEPTOR
ES–4000–034		HEAD
ES–4000–035		SILL
ES–4000–036		JAMB
ES–4000–037		HEAD SIN SCREEN

PARTS REQUIRED FOR ISTALLATION		
PART	DETAIL	DESCRIPTION
EXTRUSIONS		
ES–4017		FIXED PANEL CLIP
ES–4020A		FIXED PANEL CLIP
ES–4000–028		RISER
ES–4000–038		SILL SIN SCREEN
ES–4000–039		HEAD FOR 3 TRACKS
ES–4000–040		SILL FOR 3 TRACKS
ES–4000–041		JAMB FOR 3 TRACKS
ES–6011		COVER
D.C 791 OR EQUAL		WEATHERPROOFING SEALANT

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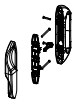
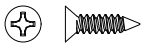
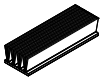
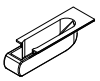
PARTS REQUIRED FOR INSTALLATION

PART	DETAIL	DESCRIPTION
PS01–0014		INVOLUTE SET TWO POINT HANDLE
191054		INTERIOR HANDLE P/N
PS–4010		RETAINER CLIP
191013		EXTERIOR PULL LOCKING
PS01–0100		INTUITION HANDLE KIT (OPTIONAL)
6844,1		BUMPER MASTER
SGD–1600		BUMPER
GTT–26/13–02A		DOUBLE ROLLER

191036		SBML STRIKE SS
#10X3/4" F.H. S.M.S.		SCREW FOR BUMPER
#10X1/2" F.H. S.M.S		SCREW FOR RETAINER CLIP
#8 x 1/2" F.H.		FOR STRIKE PLATE
#10 x 1" P.H. ST/ST		SCREW FOR ASSEMBLY FRAME AND DUMMY MOUNTING PLATE
P6304AFK.		ADHESIVE PILE 4"
P3802AFK.		ADHESIVE PILE 3"
JAMB COVER		PLASTIC JAMB COVER FOR STRIKER
SET–008 ES–4000–B01 E		FIXED PANEL SUPPORT

! Check the technical manuals and guides by sealant manufacturers to apply silicone correctly.

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STEP 1

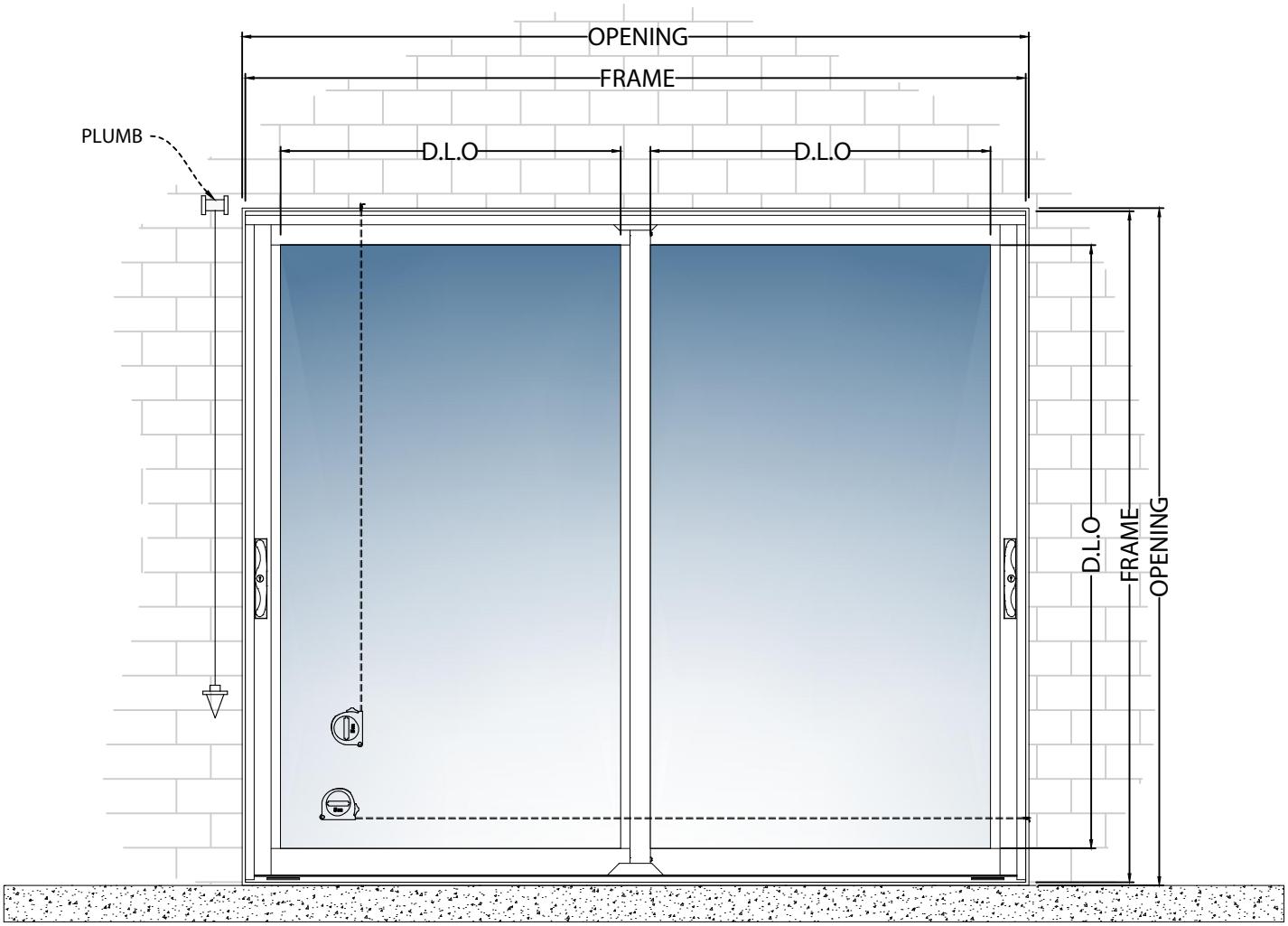
INSPECTION AND VERIFICATION:

1.1 The rough opening should be checked for the correct size as determined by dimensions listed in the architectural specifications and the shop drawings. Measure rough opening in several places to determine variations.

1.2 Check all the material upon arrival for quantity and damage.

1.3 Remove any debris that interferes with the proper installation of the unit.

1.4 If you have any irregularities notify ES WINDOWS.



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STEP 2

FRAME ASSEMBLY:

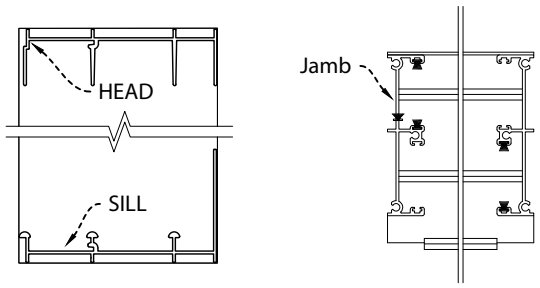
2.1. Clean the frame surfaces to be in contact with sealant.

2.2. Locate the jambs, sill and head as shown in the detail.

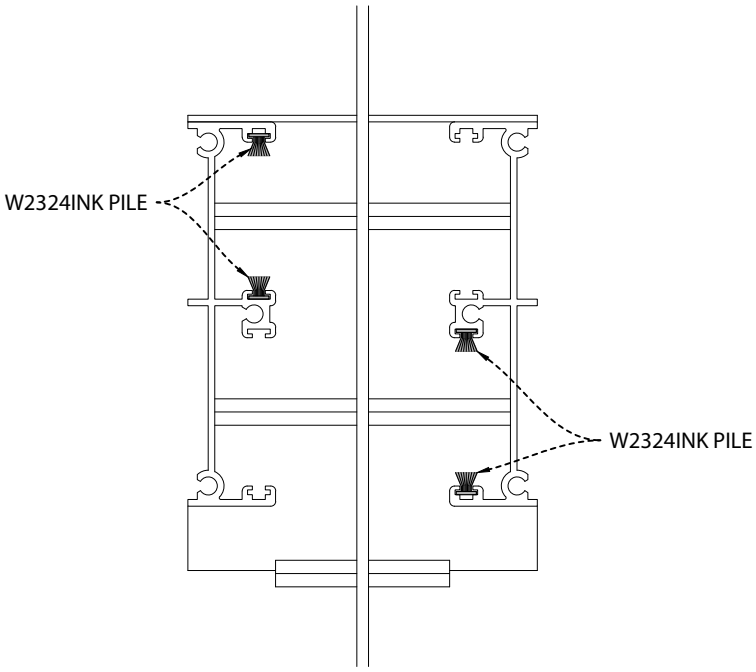
2.3. Apply weatherproofing sealant (Dowsil 791 or equal) to the head and sill ends as shown in detail 2.3.

2.4. Verify that piles are installed in the jambs.

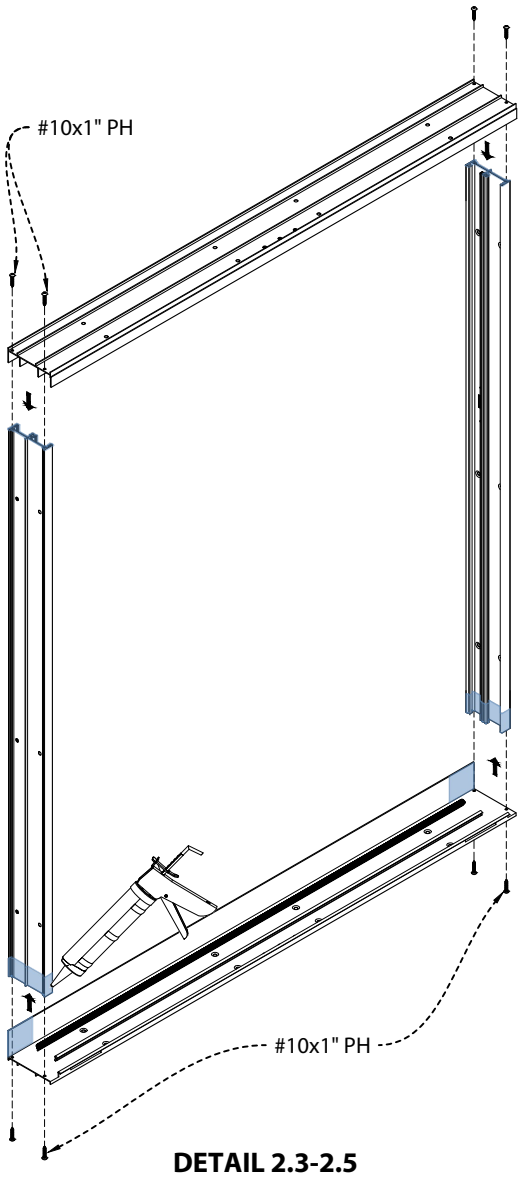
2.5. Assemble the frame using #10 x 1" PH.



DETAIL 2.2



DETAIL 2.4



DETAIL 2.3-2.5

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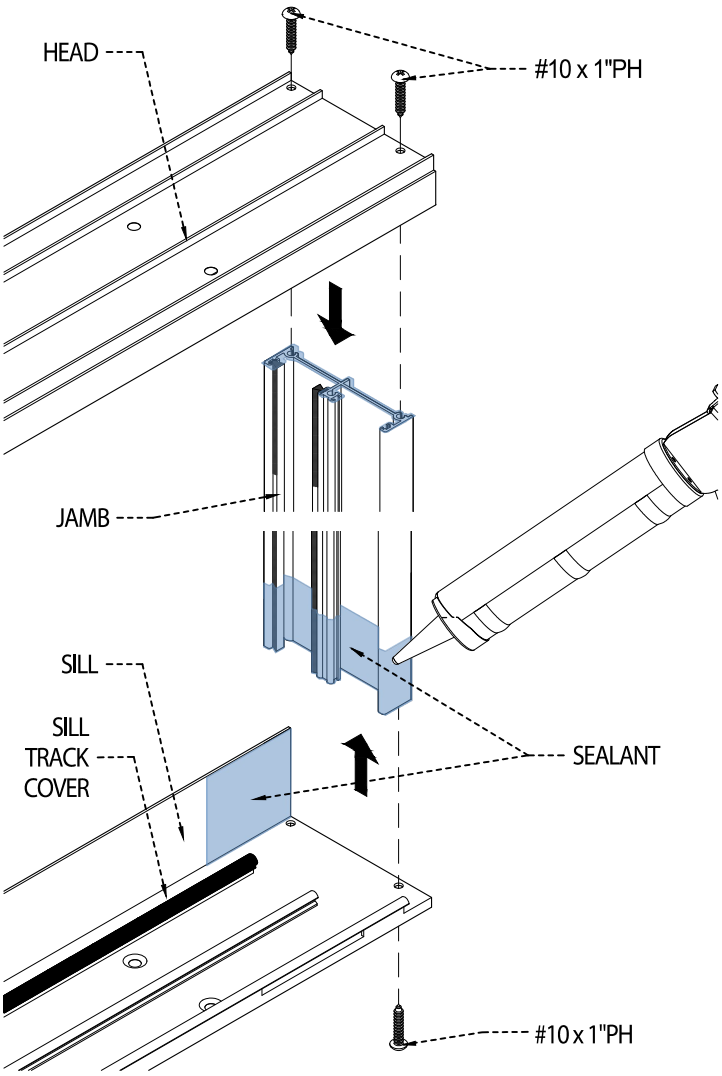
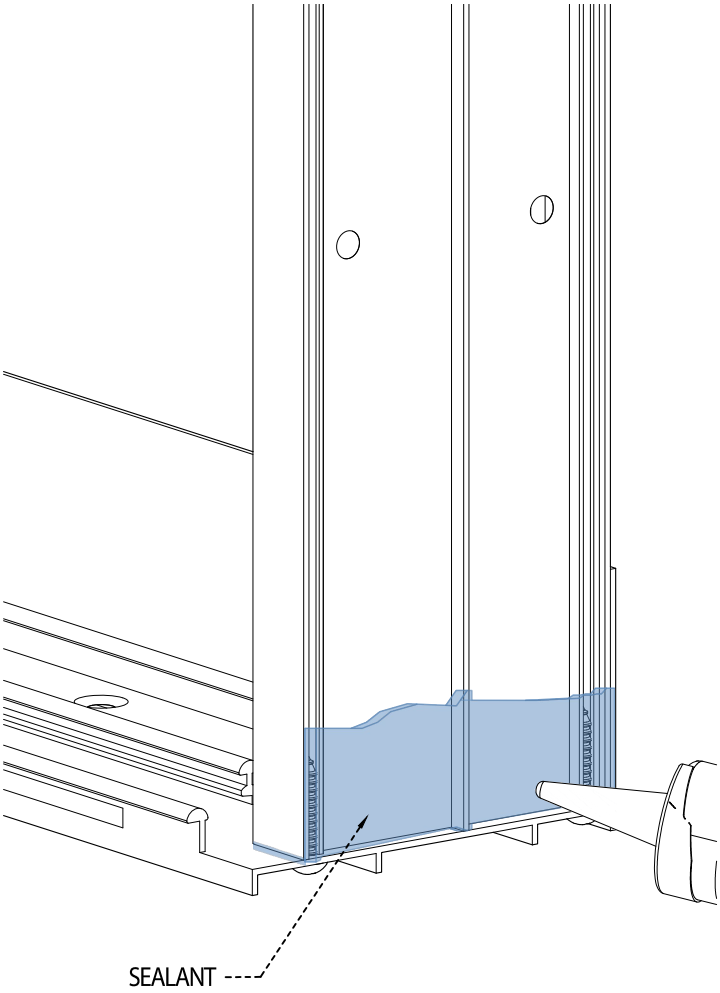
2.6 Apply sealant at the head of screws and to the joint between the sill and the jamb.





DETAIL 2.6

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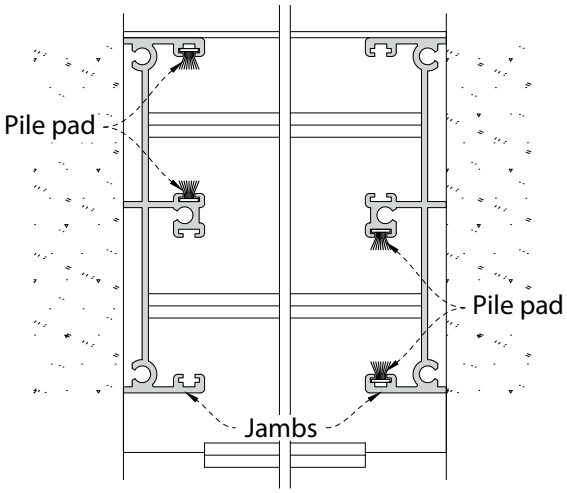
CORNER FRAME ASSEMBLY:

2.7. Identify the profiles, head and sill that include factory assembled fixing corner brackets.

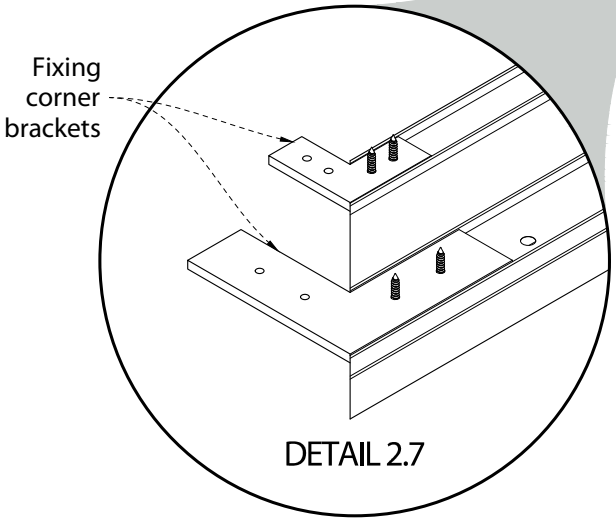
2.8. Verify the orientation and location of the jambs on the shop drawings, make sure to identify the jamb with the keepers perforations before installation.

2.9. Clean all aluminum surfaces that will make contact with sealant, then apply silicone in contact areas between profiles.

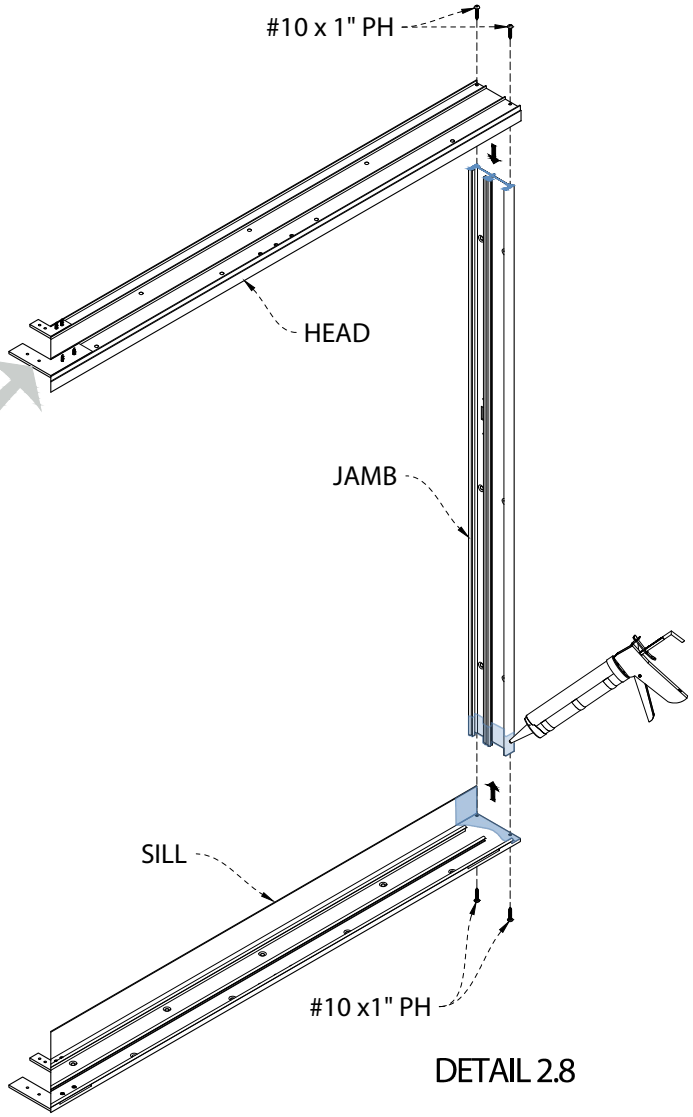
2.10. Place the profiles in C, as shown in details below. Verify that pile pads are installed on the jambs according to details before frame assembly.



DETAIL 2.10



DETAIL 2.7



DETAIL 2.8

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STEP 3

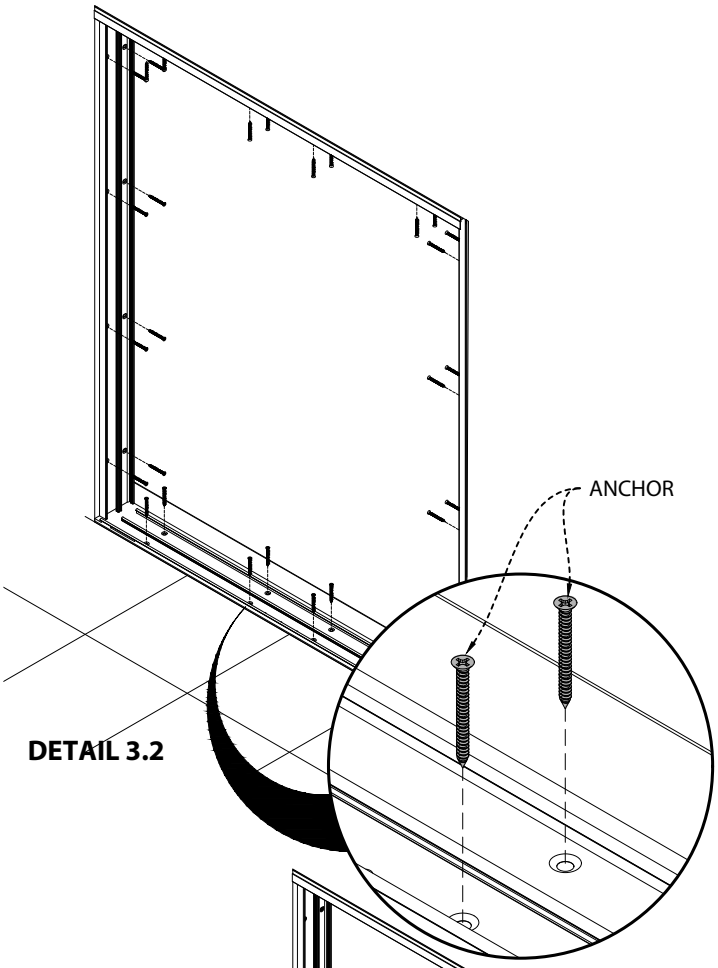
INSTALL FRAME:

3.1 Clean the opening and place the frame in it. Level the sill, head and jambs using the shims.

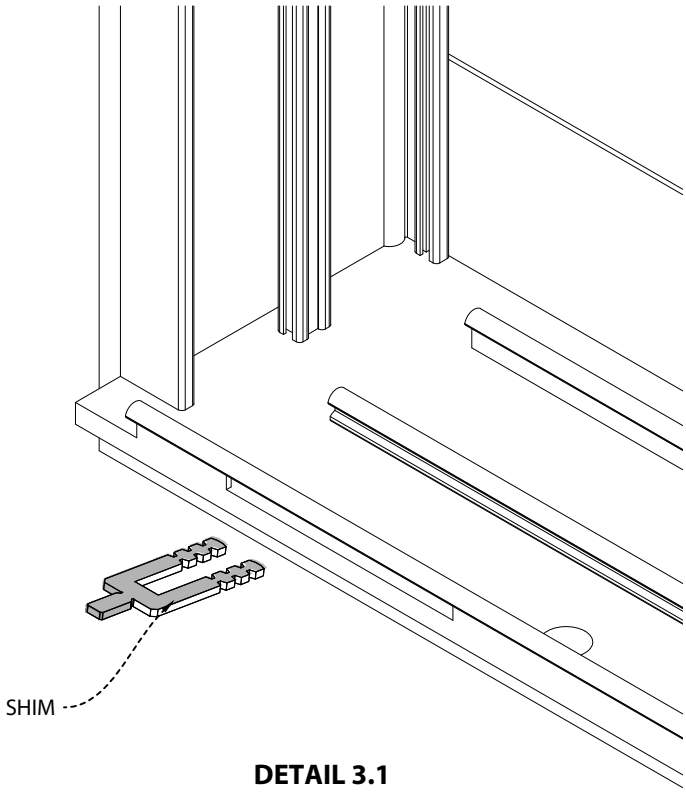
3.2 Use the frame holes as a guide to install anchor screws.

3.3 Verify architectural specifications in the shop drawings, for information about the spacing and type of the anchors.

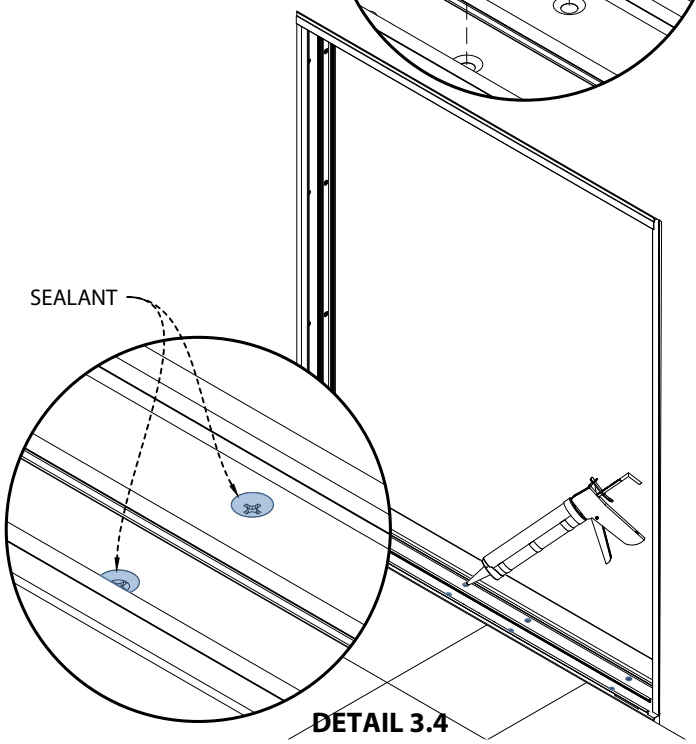
3.4 Apply sealant to the top of the sill and jamb anchors.



DETAIL 3.2



DETAIL 3.1



DETAIL 3.4

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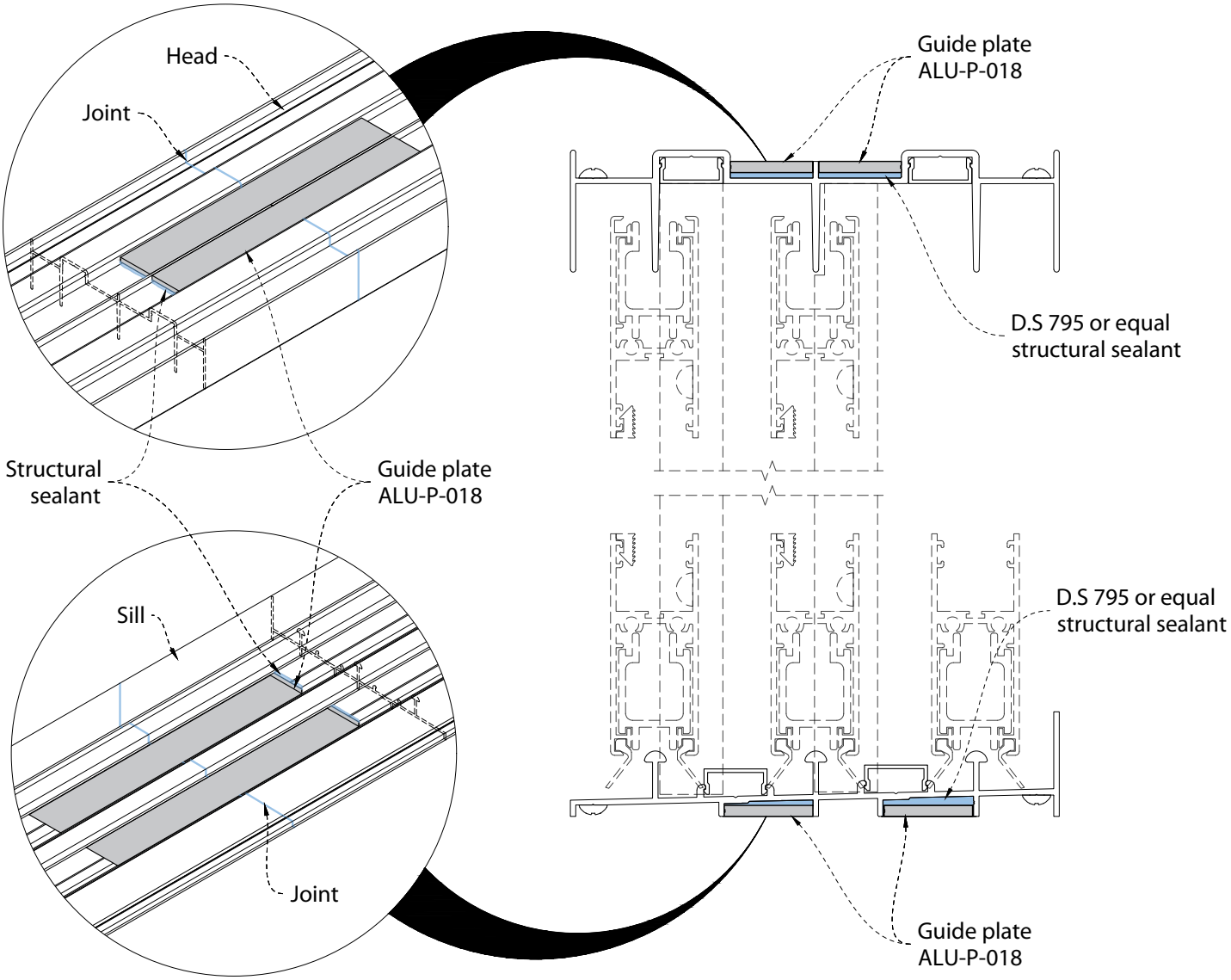
INTERRUPTED FRAME INSTALLATION:

For configurations that require an interrupted frame due to their size, it is necessary to install guide plates on the top of the head and on the bottom of the sill.

3.5. Apply weatherproofing sealant on the faces of the profiles that will be in contact and join them together.

3.6. Once the frame is prepared, apply structural silicone and install the ALU-P-018 guide plates in the joints on both the head and the sill. Identify the head plates before installing. These are 1.7mm narrower.



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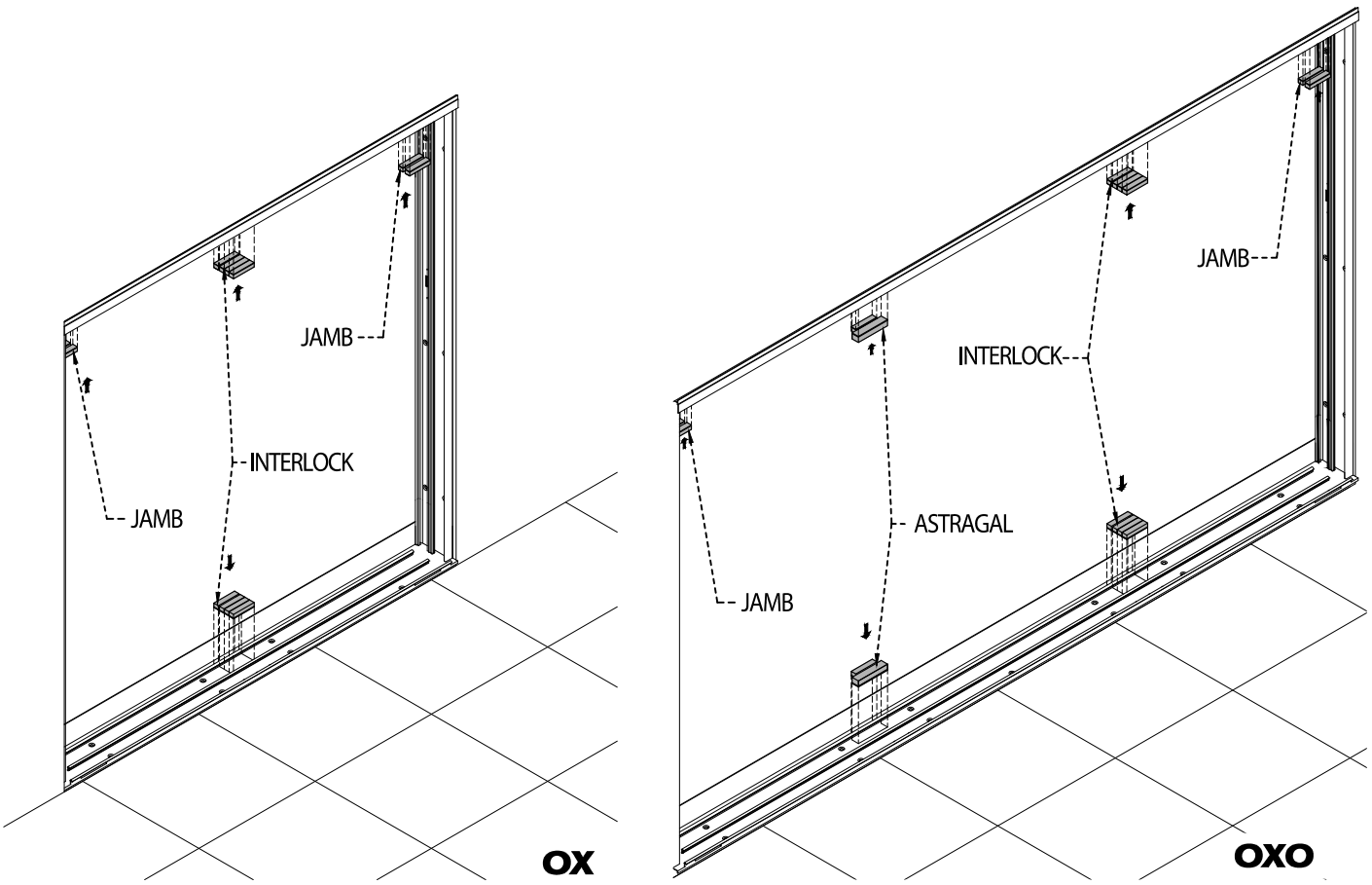
3.7. Verify the configuration of the door prior to installing the pile pads.



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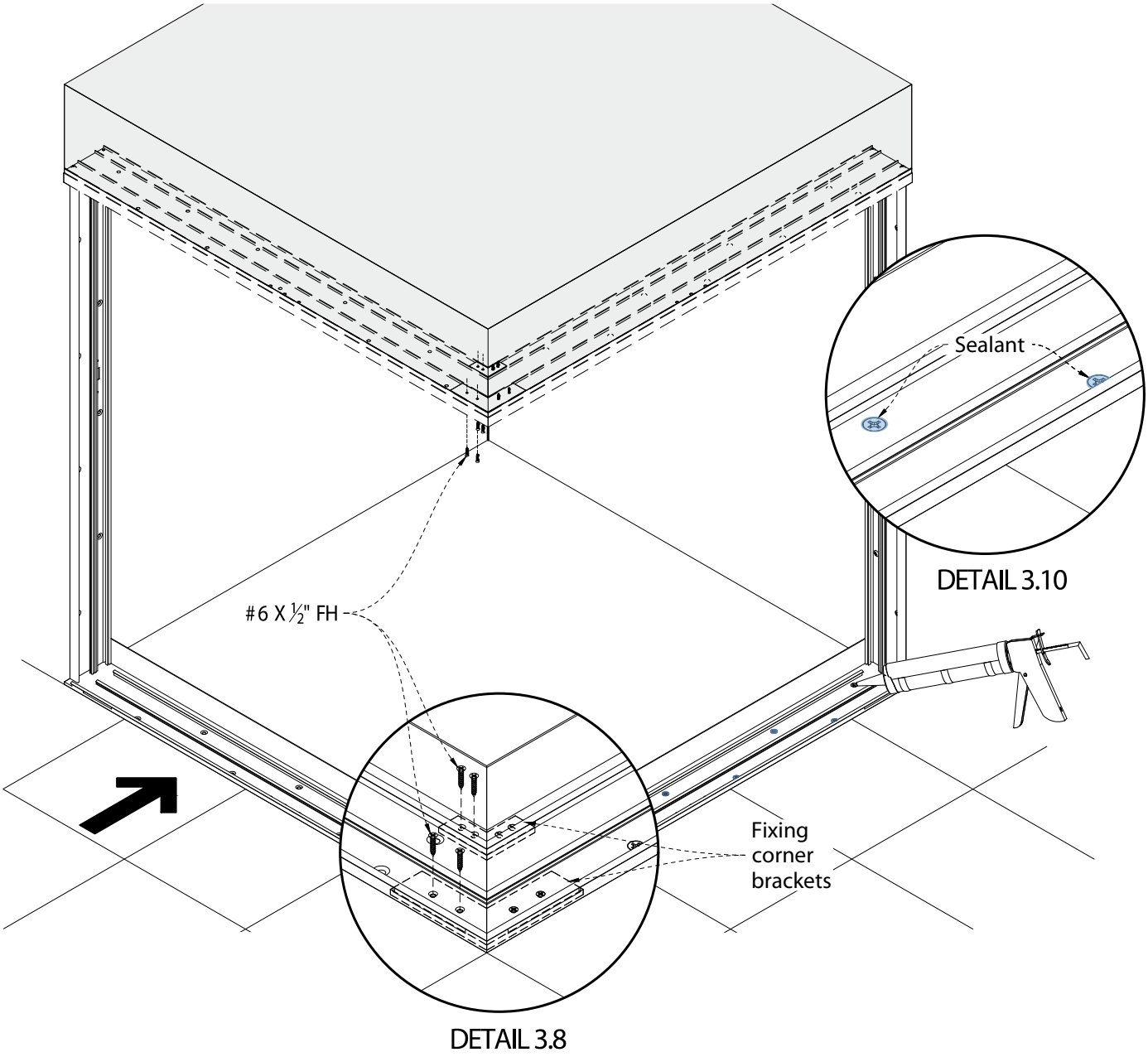
3.8. Install the "C" frame part without fixing brackets following the same steps used for the first part.

3.9. Before anchoring, align the perforations of the frame with the perforations of the corner bracket and secure with # 6 X 1/2 "FH screws, both in the upper and lower corner of the frame.

3.10. Apply silicone on the screw heads and clean any silicone excess on the frame joints.



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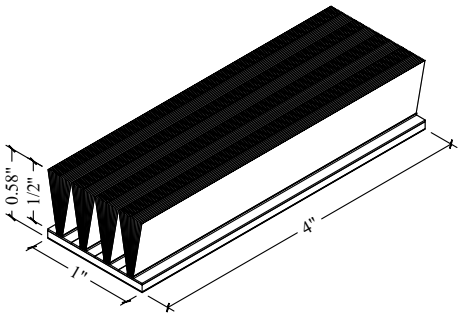
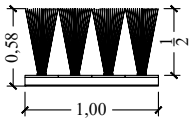
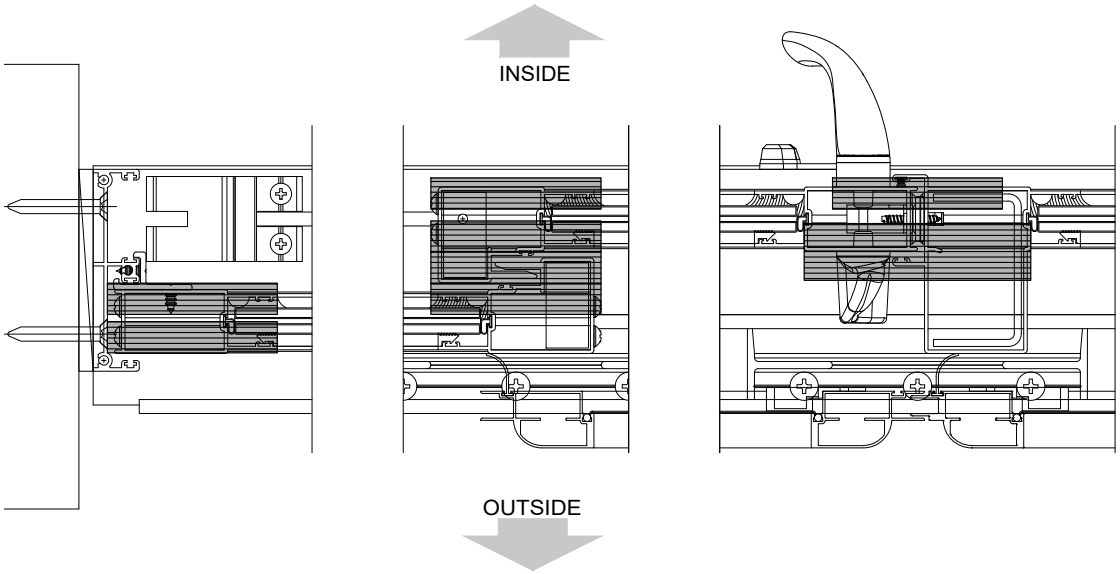
3.11. Install adhesive piles as shown in details.

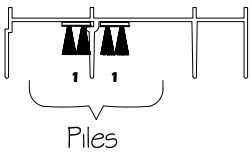


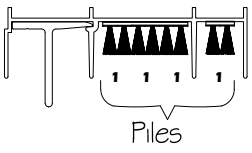


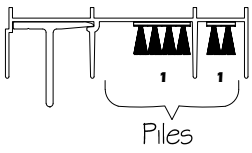
1

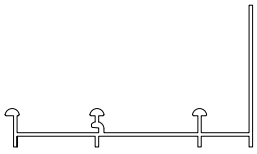
P 6304 AFK
4" x 1"



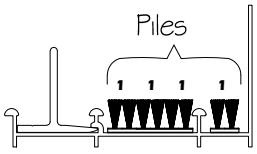




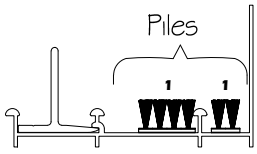




JAMB



INTERLOCK



ASTRAGAL

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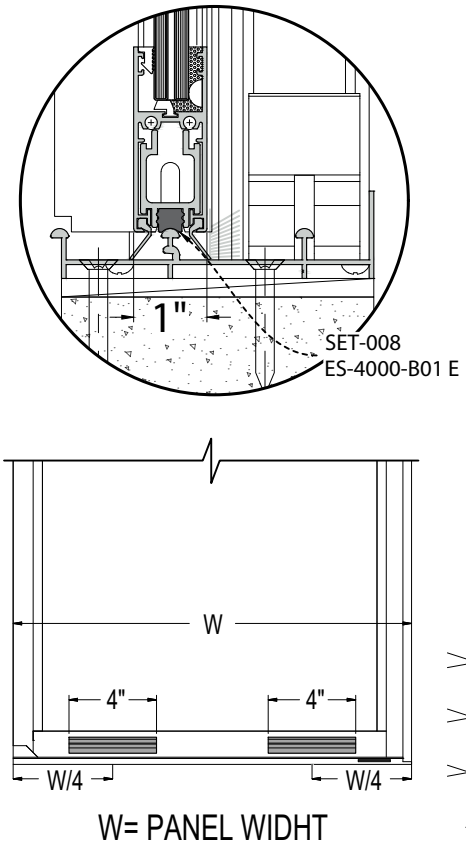
STEP 4

INSTALL PANEL:

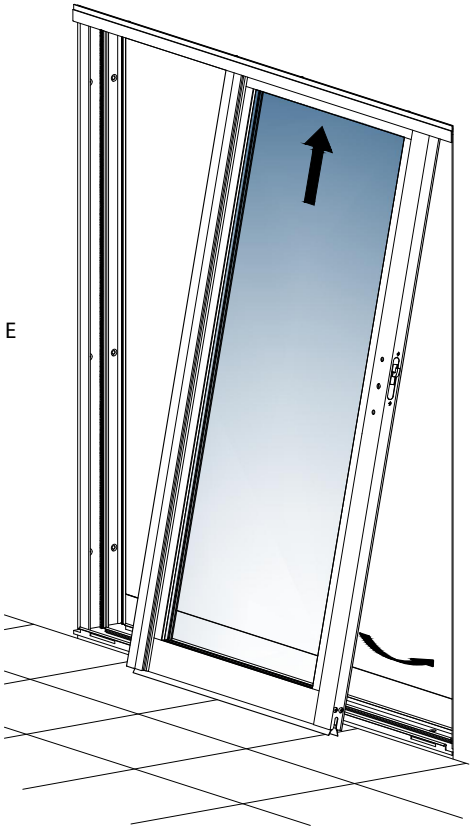
4.1. For the fixed panels install two 4" sections of the SET-008 ES-4000-B01 E gasket at the bottom of the panel as shown in the detail 4.1. Fix it in place with sealant.

4.2. Install the panels from the exterior side of the door. Begin with the panels that run on the inner rail, usually the sliding panels.

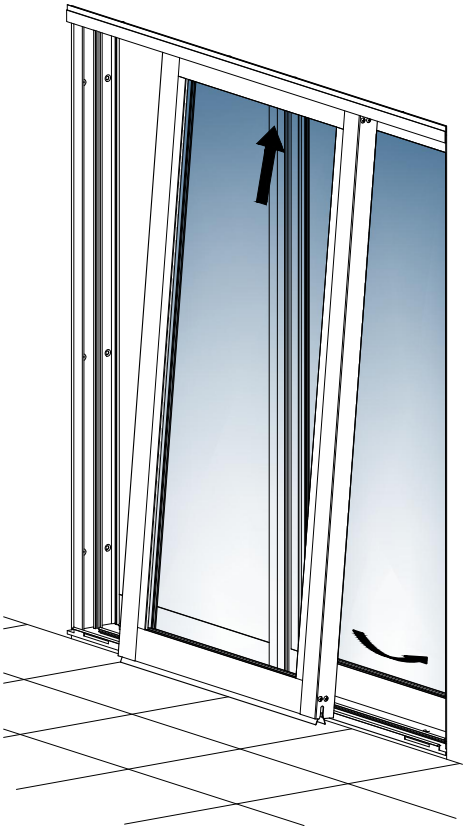
4.3. Proceed with the panels located on the outer rail.



DETAIL 4.1



DETAIL 4.2



DETAIL 4.3

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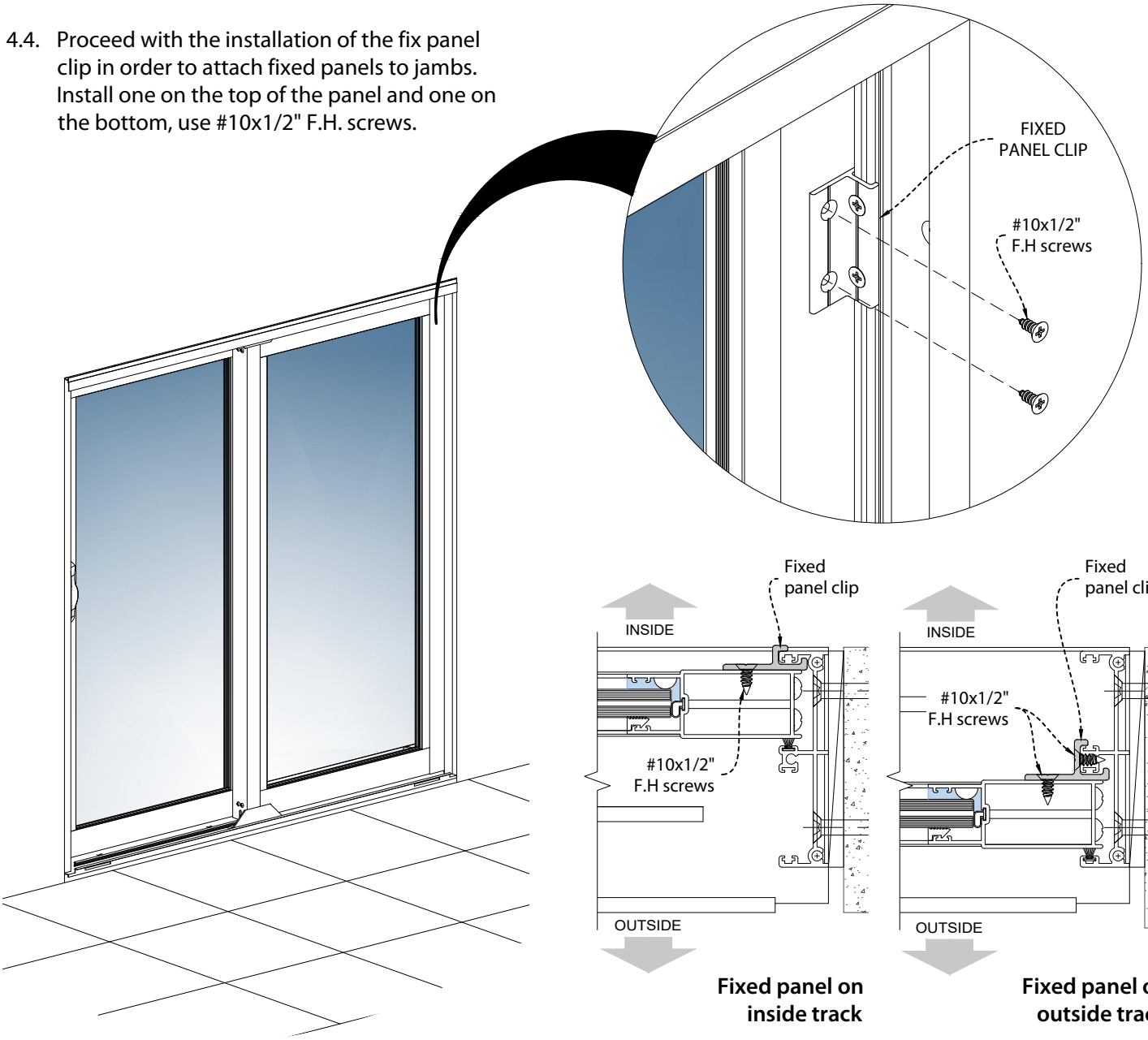
4.4. Proceed with the installation of the fix panel clip in order to attach fixed panels to jambs. Install one on the top of the panel and one on the bottom, use #10x1/2" F.H. screws.



Fixed panel on inside track

Fixed panel on outside track

Drill the jamb through the clip before installing. The position of the clips is according to customer preference and project requirements.

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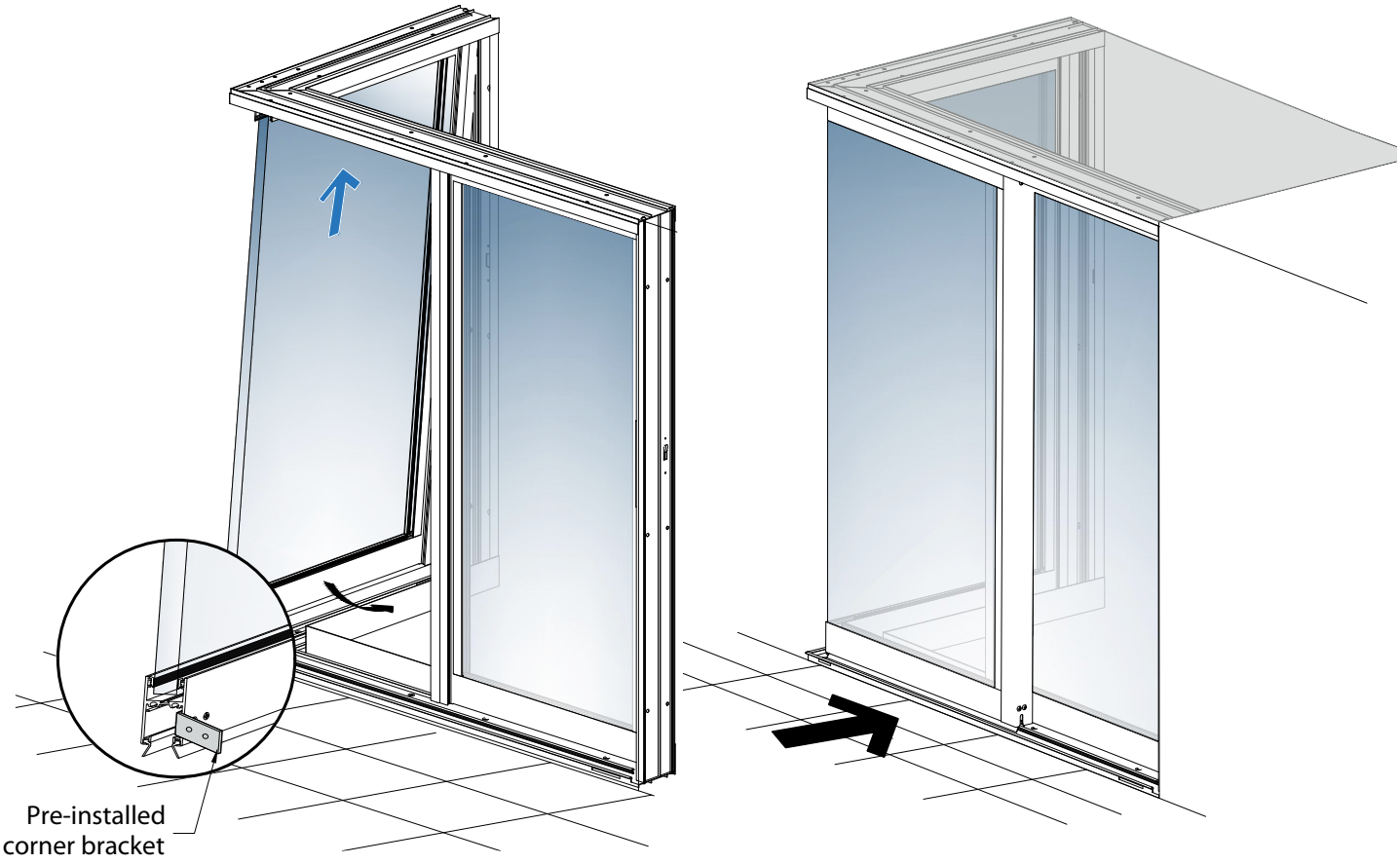
CORNER PANELS INSTALLATION:

4.5. After installing the sliding panel, proceed to install the panel with pre-installed brackets.

4.6. Place the panel without brackets in the same way.



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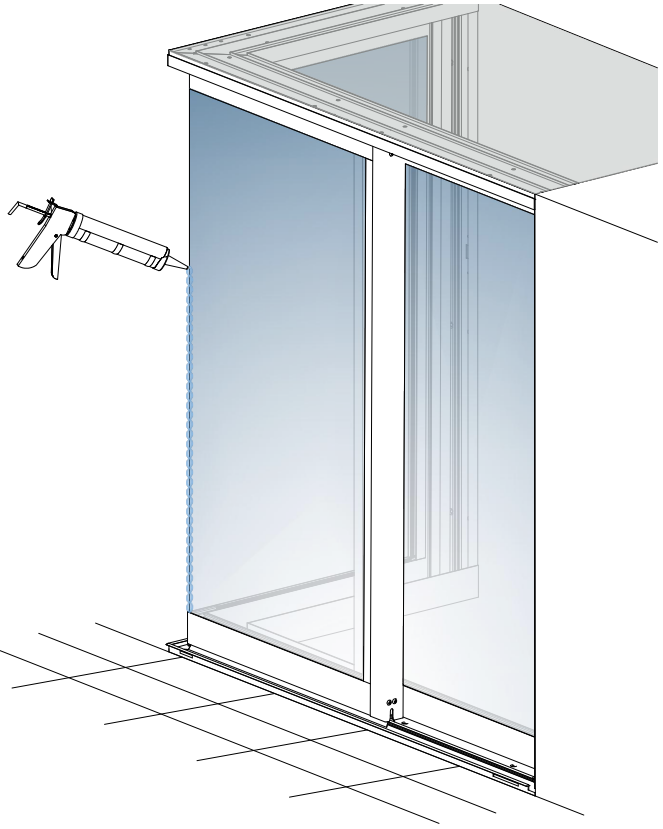
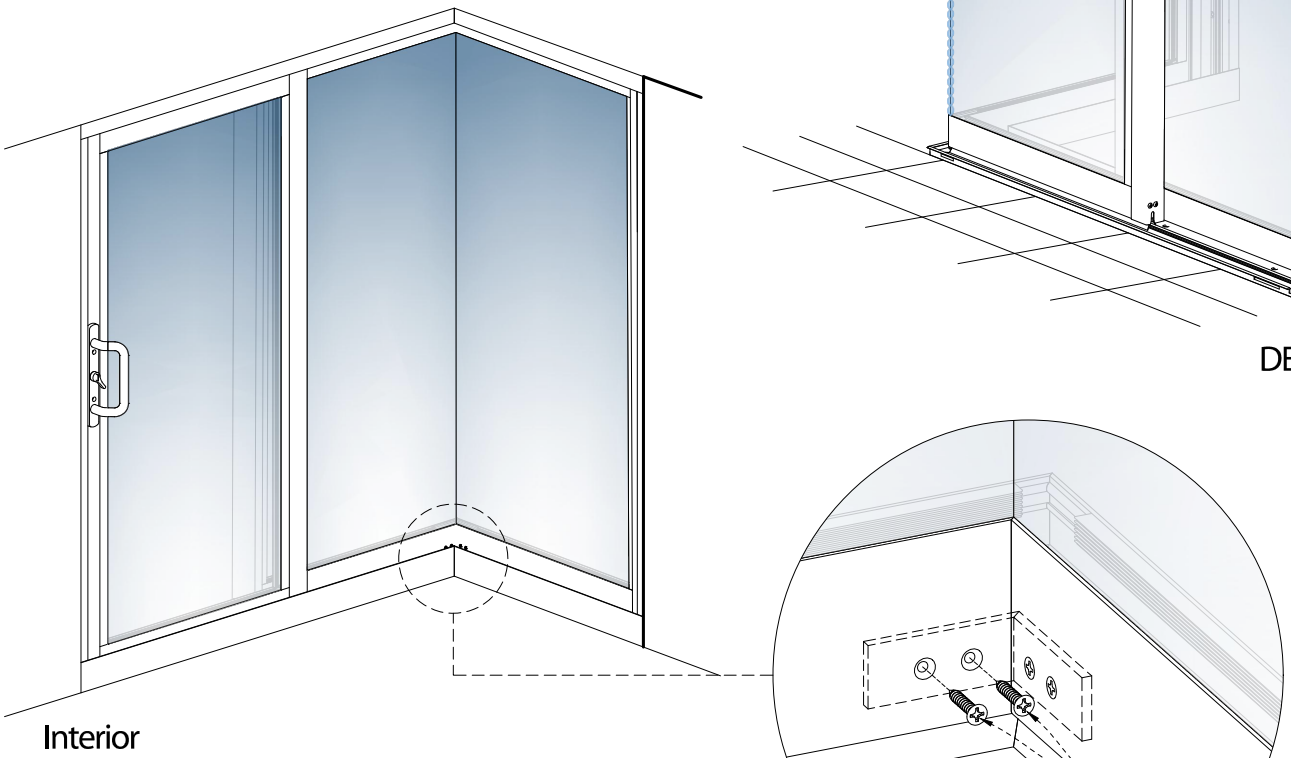
4.7. From the inside, fix the corner bracket with #6x1/2 "FH screw, on the upper and lower horizontal, as shown in detail.

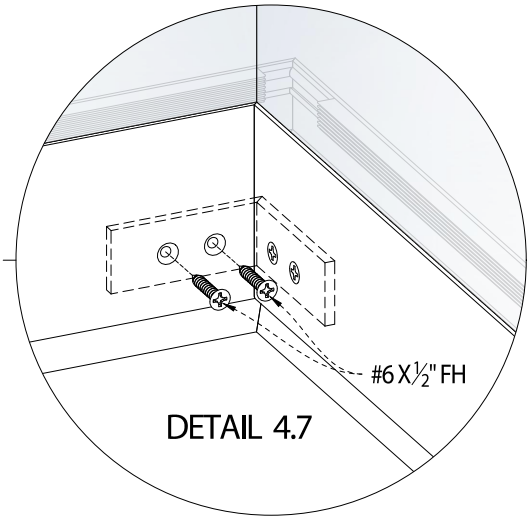
4.8. From the outside, apply weatherproofing sealant on the joints between glass and aluminum profiles.

If high sill is used (ES-4002), proceed to assemble the L corner panels before installing them in the frame, fixing them with the corner bracket as shown in step 4.7.



DETAIL 4.8





DETAIL 4.7

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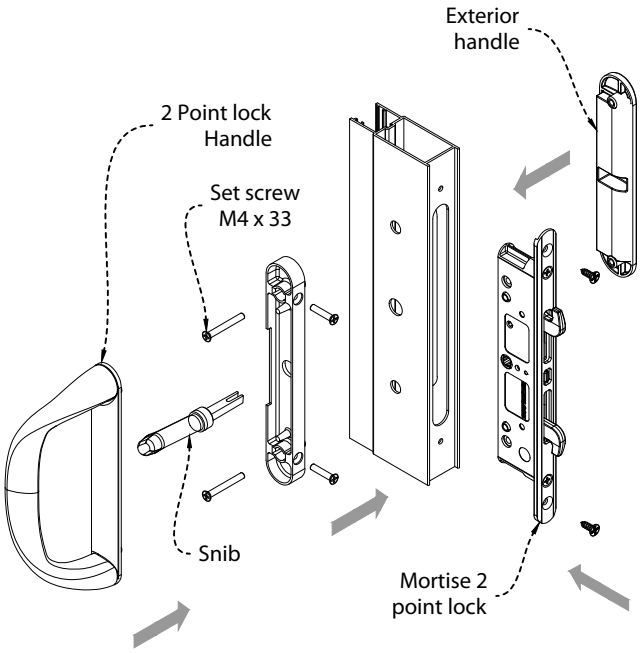
STEP 5

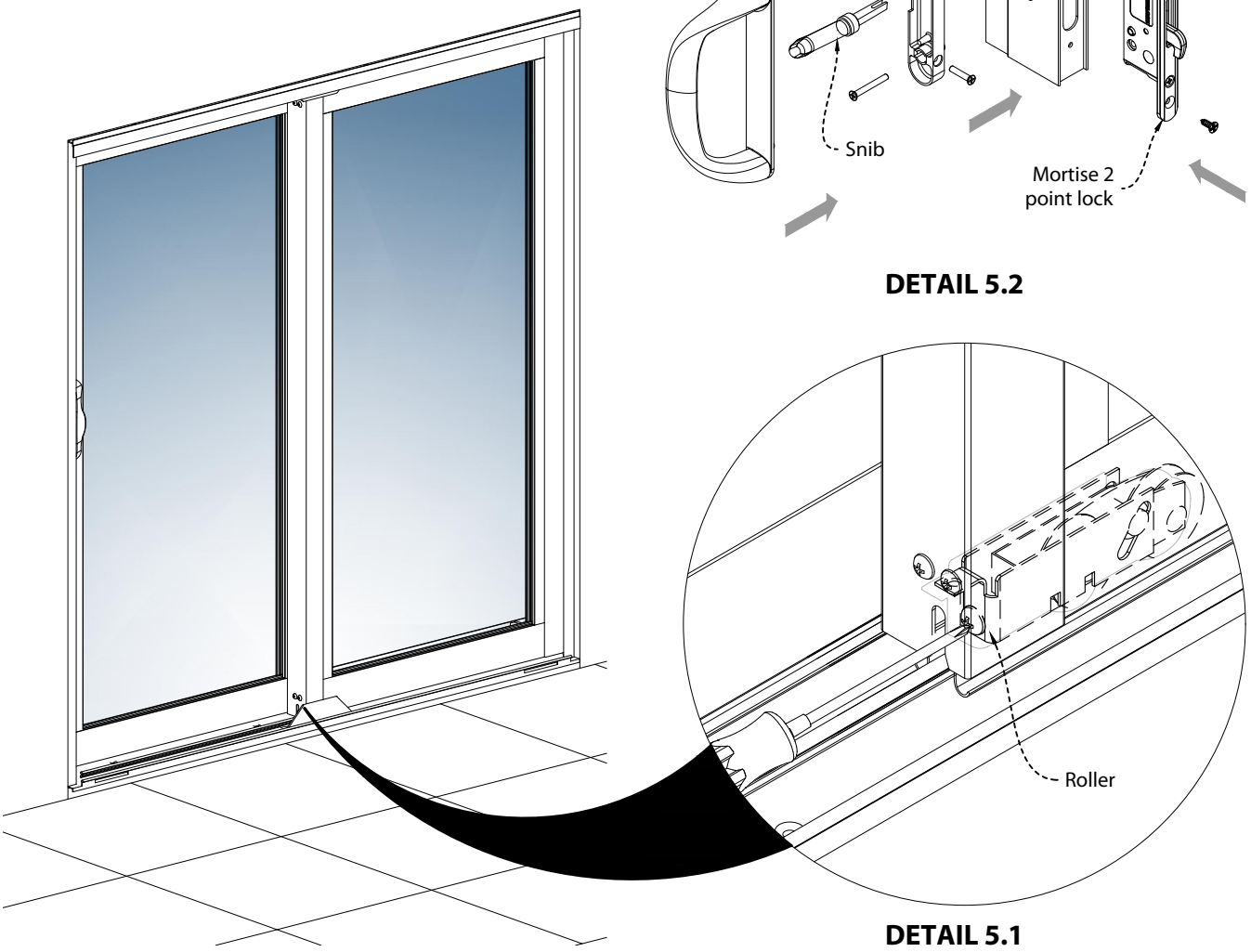
INSTALL ACCESSORIES:

5.1. Level sliding panel rollers. Lift the panel when leveling to prevent rollers damage.

5.2. Install handle as shown in detail 5.2.



DETAIL 5.2



DETAIL 5.1

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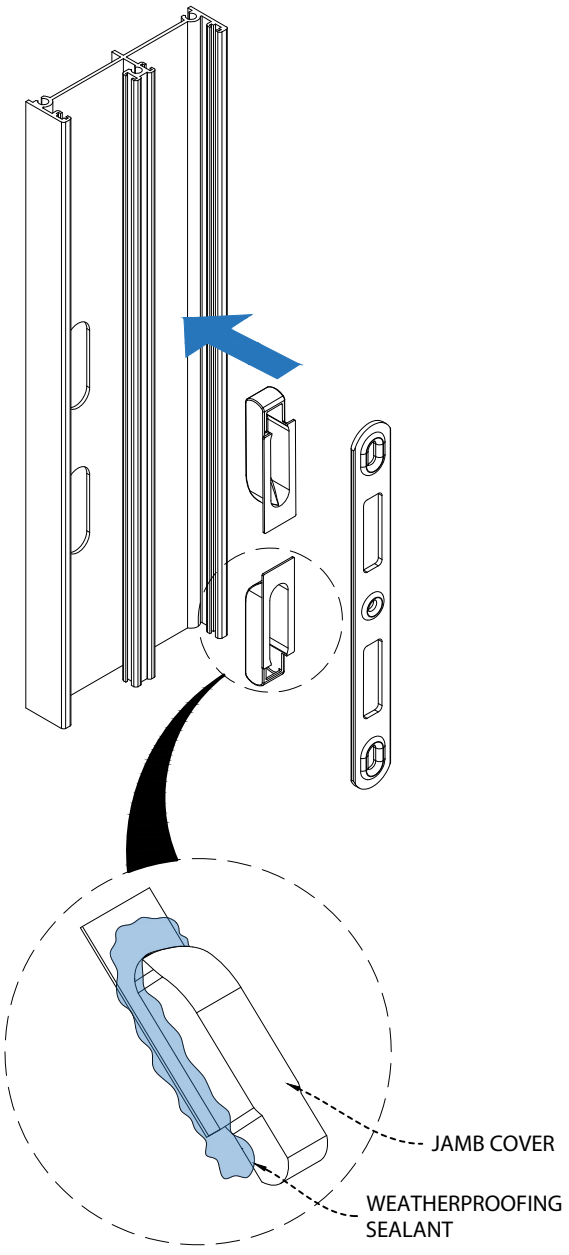
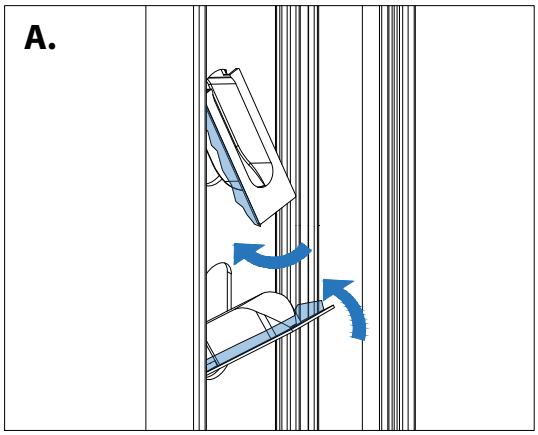
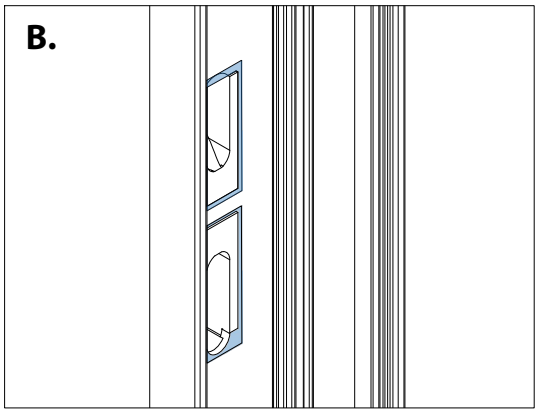
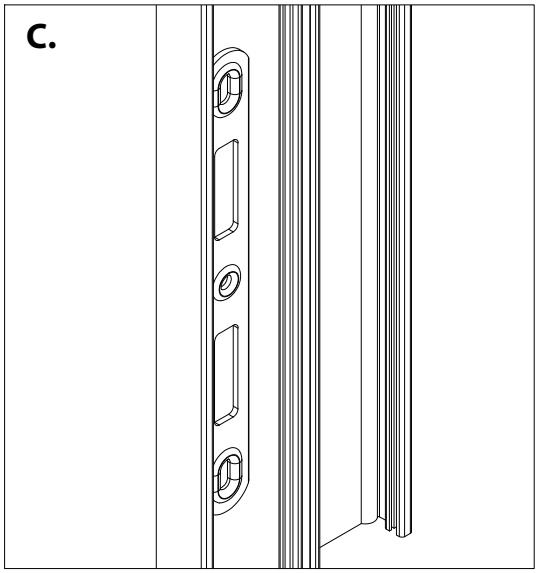
5.3. Before installing the jamb strike plate, install 2 jamb covers as shown in the detail below. Apply a bead of weather proofing sealant on the back of the covers and slide them on the holes (A) remove any silicone excess (B) and proceed to install the strike plate (C).









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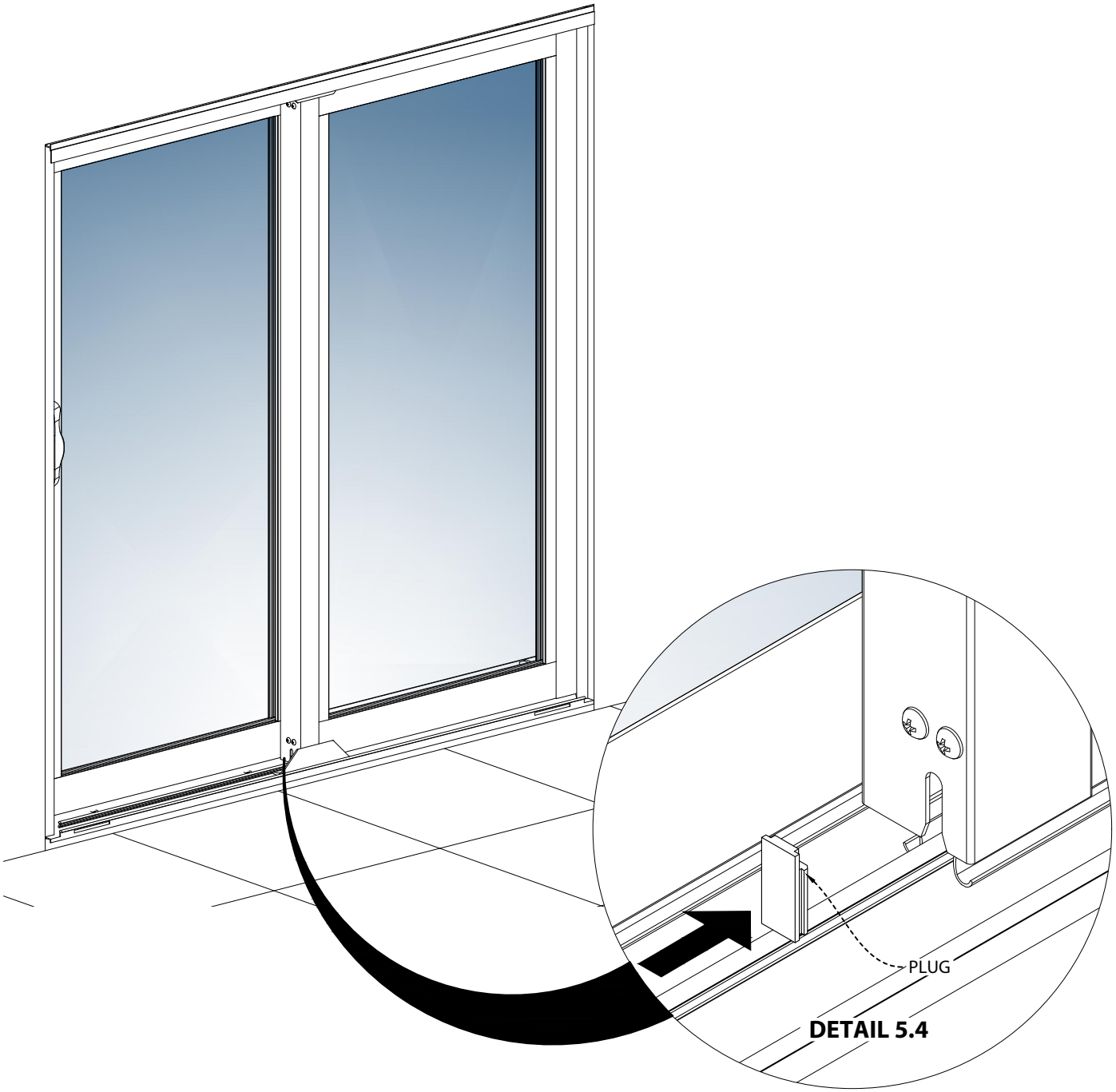
5.4. Install plug as shown in the detail below.



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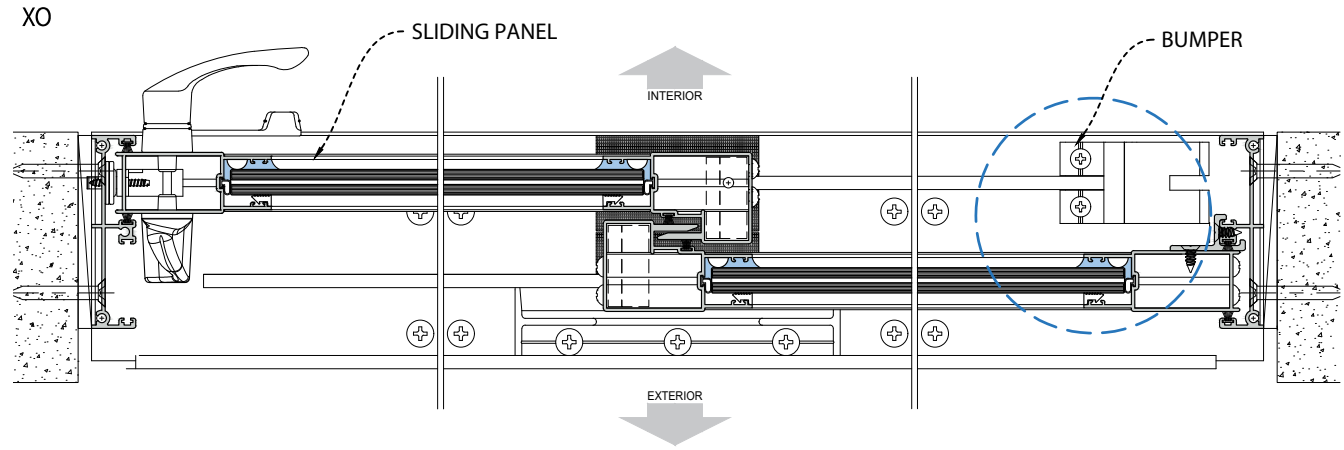
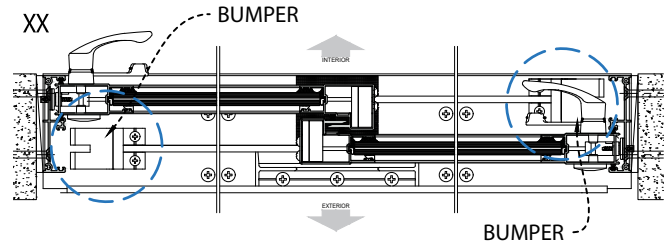
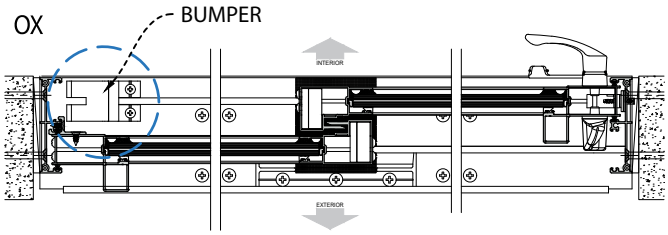
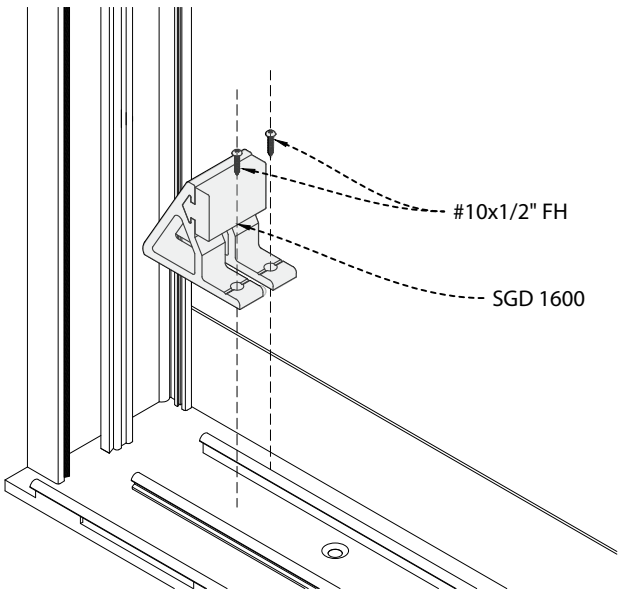
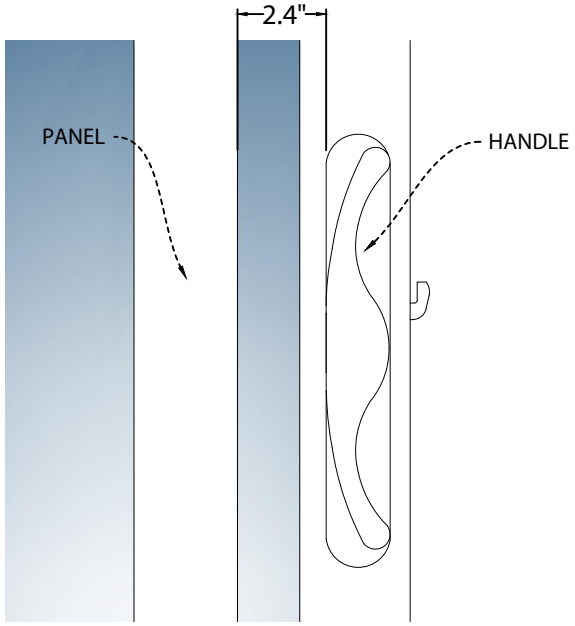
5.5. For SGD 1600 bumper installation: In order to avoid accidents and the damage of the handle locate bumpers at the head and sill on the opposite side of the sliding panel. Handle should be located 2.4" from the adjacent panel.











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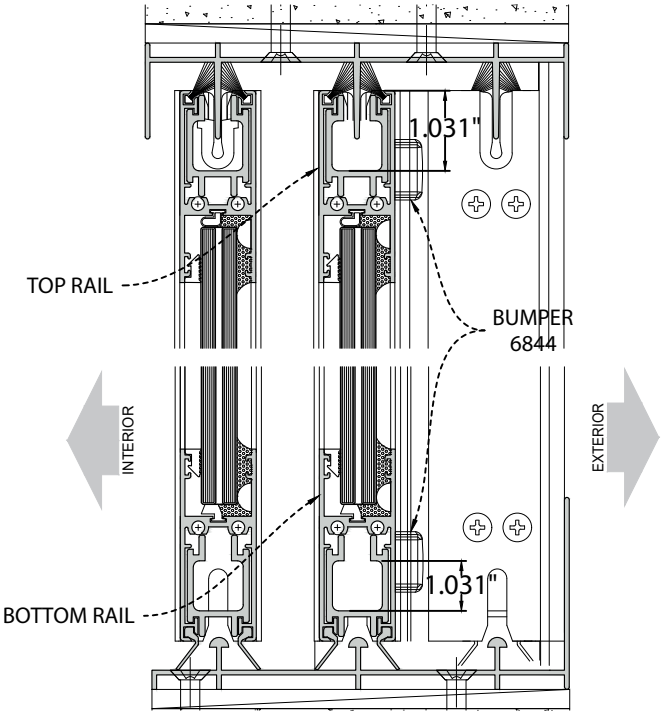
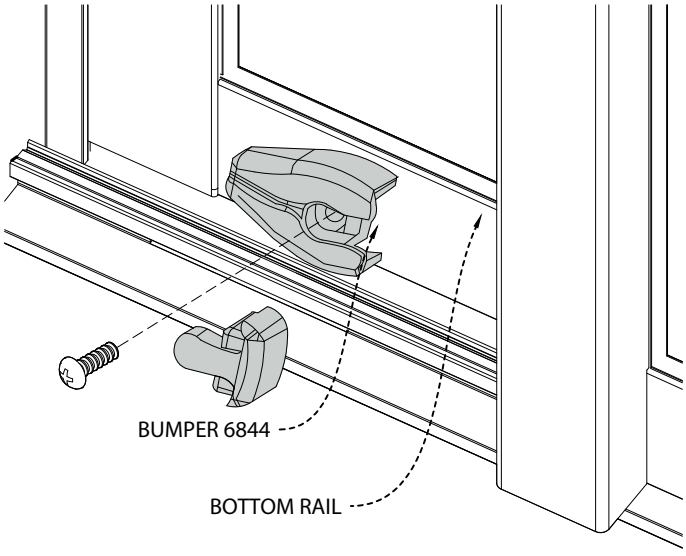
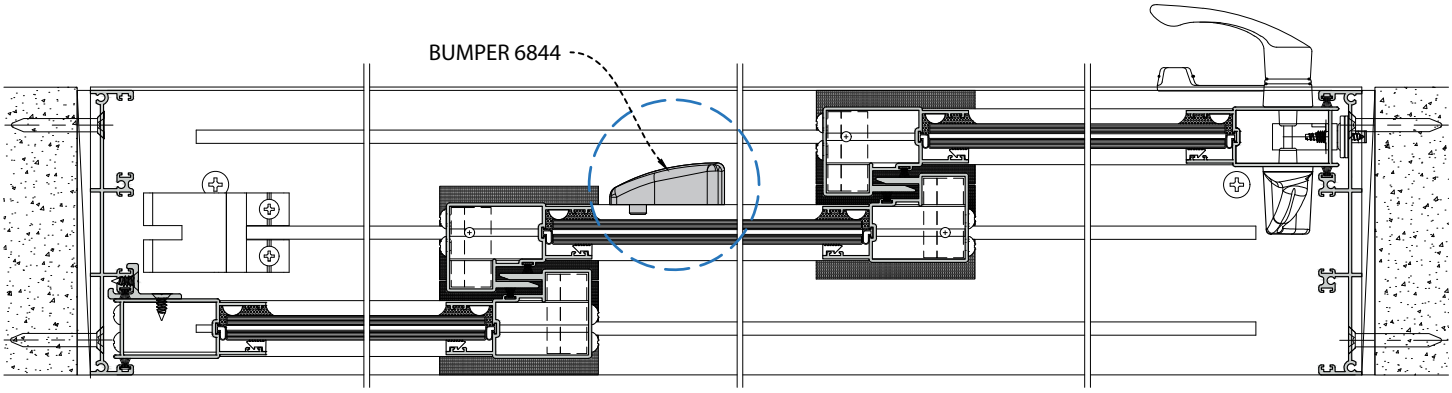
5.6. Master 6844 bumper installation: Locate the bumper on the top and bottom rail of the panel on the inside of the building.



For more information about the installation of the viper follow guide (G-DD-10)

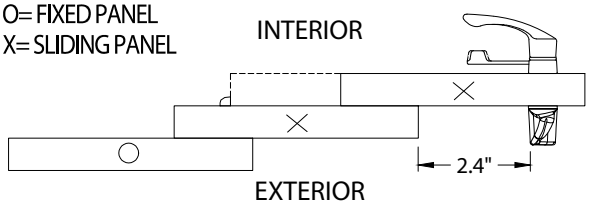




For sliding panels located on the inner rails of the frame locate bumper on the adjacent panel.

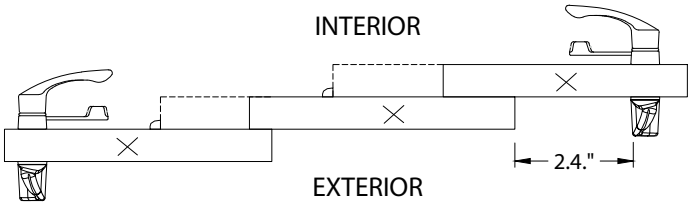
CONFIGURATION OXX 3 TRACK

O= FIXED PANEL
X= SLIDING PANEL



For sliding panels located on the exterior rail of the frame locate bumper on the sliding pane 2.4" from the handle.

CONFIGURATION XXX 3 TRACK
X= SLINDING PANEL



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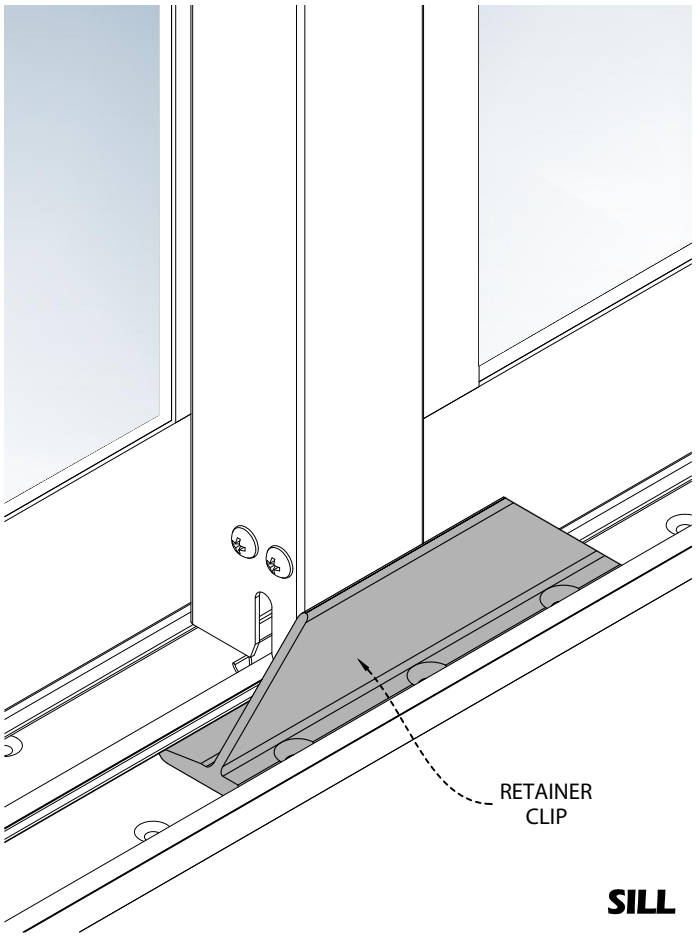
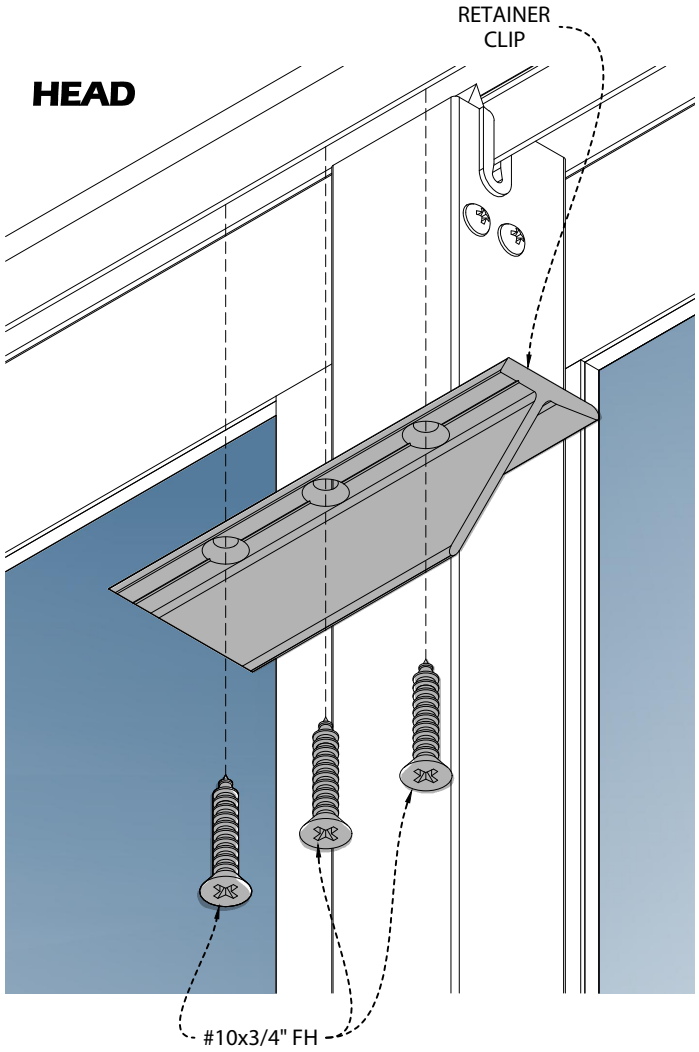
5.7. Place the retainer clip, fix using #10x3/4" FH screw. Seal the head screw.





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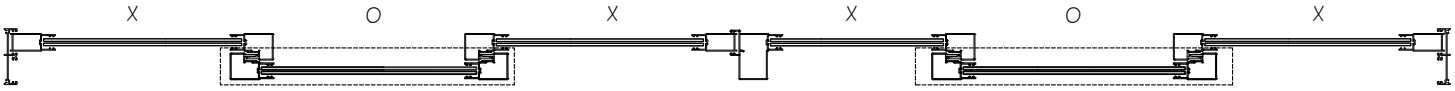
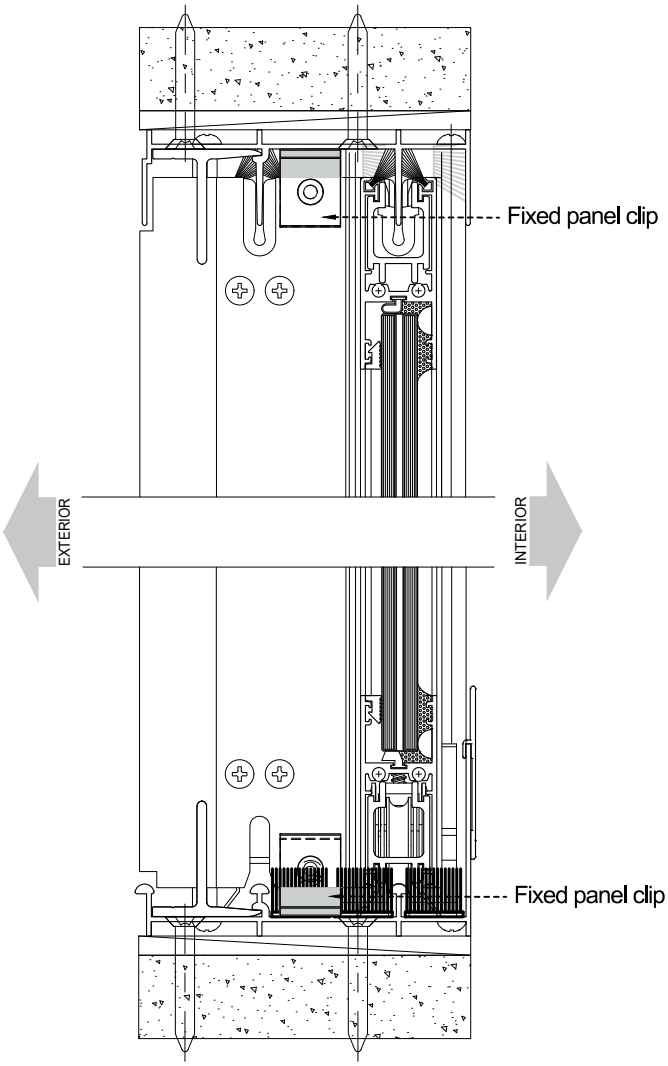
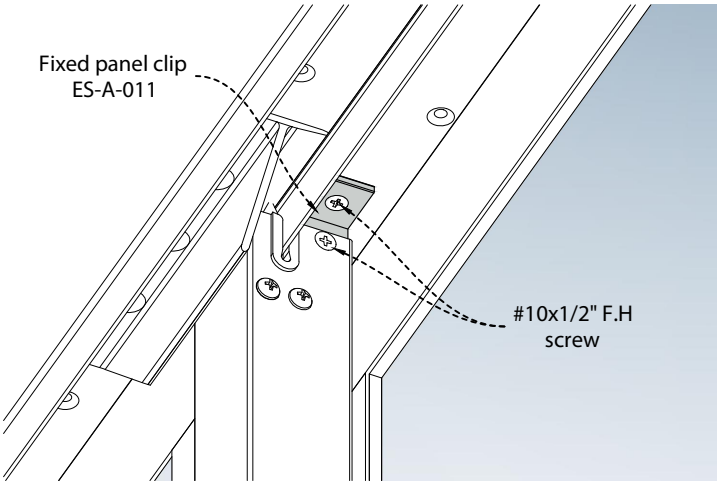
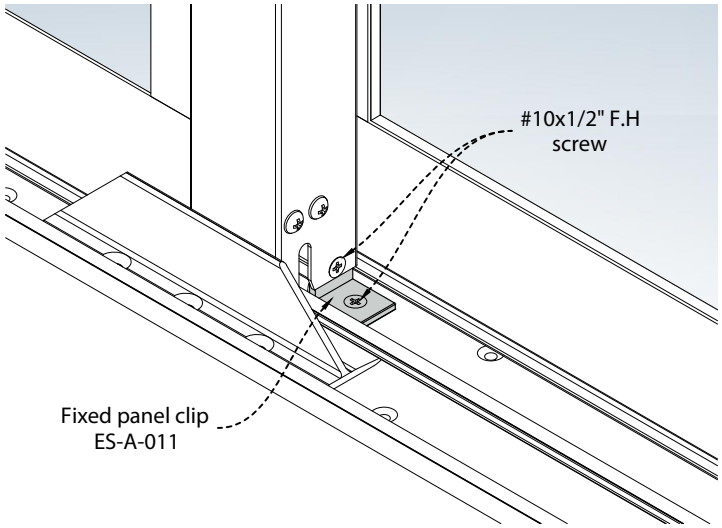
5.8. For configurations with intermediate fixed panels install angles to connect the interlock and the frame as shown in detail below.









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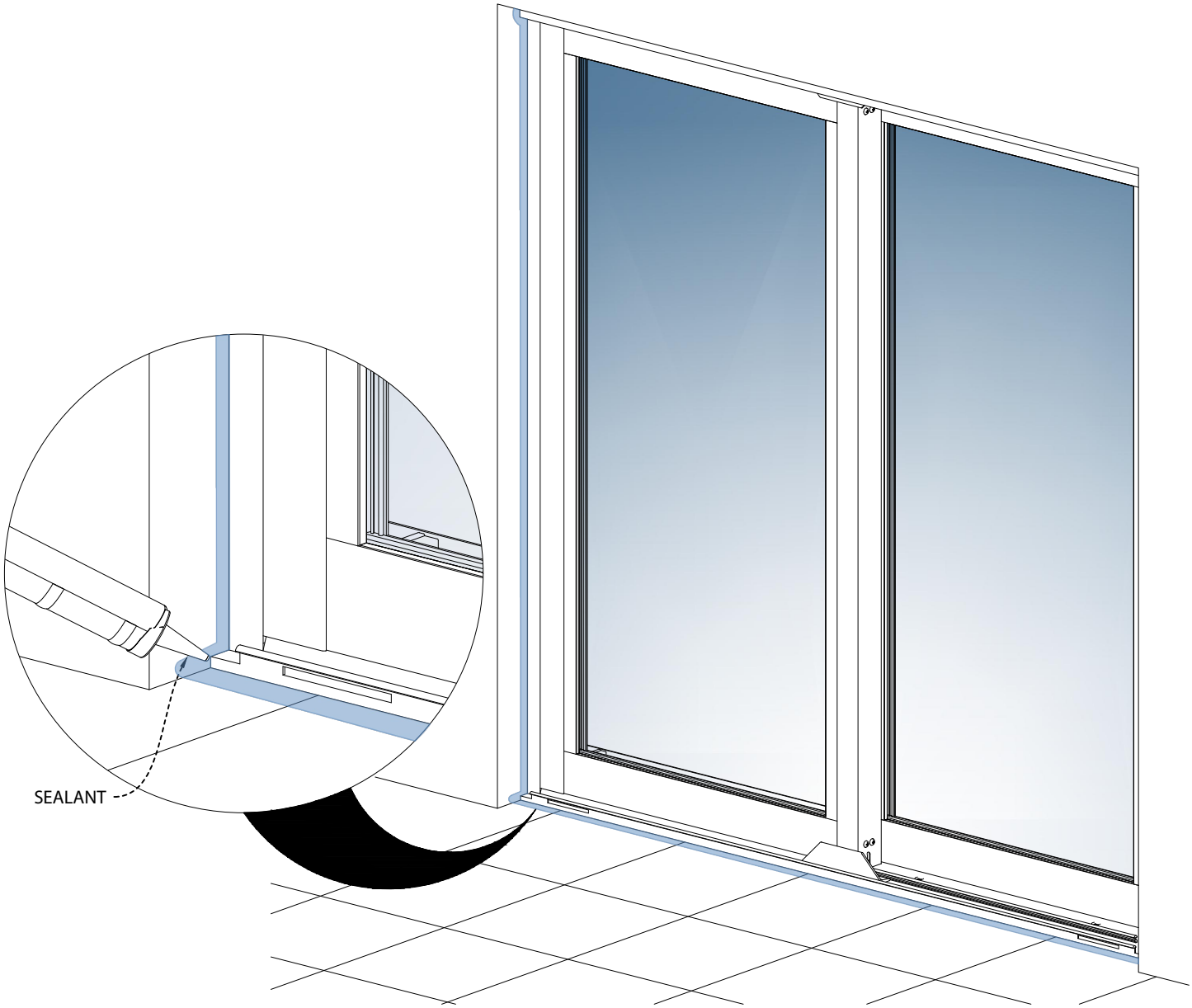
STEP 6

SEAL PERIMETER:

6.1. Apply sealant in all the perimeter of the frame.



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REVISION No.	DATE	DESCRIPTION	BY.	PAGE.
3	31-08-018	Installation of angles at intermediate fixed panels.	E.S	17
4	28-01-2019	Interlock and jamb pile pads updated. ES-8011A Gasket installation under fixed panels added.	D.L	10,11
5	25-11-2019	Installation of guide aluminum plates for interrupted frame added; Fixed panel clip location detail added	E.S	10, 18
6	15-12-2020	Sill pile pads at jambs updated.	E.S	11, 13
7	24-09-2021	Added detail for jamb covers installation	A.G	18
8	04-03-2022	Jamb cover detail updated	A.G	18
9	07-04-2022	Fixed panel spacer ES8011 was replaced by SET-008 ES-4000-B01 E; fixed panel clips installation order updated.	E.S	14, 15

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service@eswllc.com, PBX: (+1) 305 5074545

BY Daniel Lopez.

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