INSTALLATION INSTRUCTIONS

CLAD MULTI-SLIDE STACKING PLUS (C-MSSP)

SIERRA PACIFIC WINDOWS

INTRODUCTION

This document will provide the necessary steps in assembling and installing the Sierra Pacific Windows (SPW) Clad Multi-Slide Stacking Plus system.

NOTICE

Installation requirements may vary in particular locations and in other types of construction. Proper installation is essential and Sierra Pacific Windows recommends consultation with an AAMA Certified Installer, or other qualified, registered building professional before installation of any Sierra Pacific product. Proper installation of Sierra Pacific products is the responsibility of the installer. Sierra Pacific is not responsible for the design of, conditions in, or performance of building construction beyond the perimeters of the Sierra Pacific units, or for proper integration of the Sierra Pacific units with the weather-barrier systems of the building.

⚠ IMPORTANT NOTIFICATIONS

- **Please read these instructions in their entirety prior to beginning the installation process.** Failure to follow these instructions will void the warranty. Please contact Sierra Pacific Windows for any clarification.
- This installation procedure is specific to the Multi-Slide Stacking Plus Door with the drop-in sill. It is different than the multi-slide system with the "T" track sill and is **not** interchangeable.
- Sierra Pacific Windows (SPW) is not responsible for site measurements.
- **THE TOP AND SIDES OF EACH PANEL MUST BE SEALED TO PREVENT MOISTURE ABSORPTION**. SPW also recommends that all wood surfaces be finished prior to installation. Otherwise special care is needed in labeling components during the un-assembling process, thus allowing ease in the reassemble process.
- As with any installation procedure, confirm with the manufacturer of such building materials as sealants, flashings, foam and weather barriers that they are compatible with one another.

⚠ SAFETY PRECAUTIONS

- Always wear necessary protective gear such as safety glasses, gloves, ear plugs, clothing, etc.
- Be certain to do a pre-installation site inspection to ensure the work area is accessible and safe for performing installation of the door system.
- Use all power tools in accordance with manufacturers' instructions.
- **Door panels may be extremely heavy and awkward to handle**. It is recommended the SPW Multi-Slide Door system be installed with a minimum of two people.

TOOLS REQUIRED

- Framing square
- Level (Traditional and Laser)
- Tape measure
- Caulking gun
- Ladders
- Glass suction cups (2) – optional
- Drill/Driver
- Laser Level

MATERIALS NEEDED

- U-shaped, Non-compressible shims (supplied by others)
- 1/16”, 1/8” and 1/4” plastic shims (supplied by others)
- ½” and ¾” wood shims (supplied by others)
- Polyurethane black sealant such as SM-7108 (supplied by others)
- 3/8” backer rod (supplied by others)
- Rigid sill pan (supplied by others)
- Silicone Sealant Dow 1199 (supplied by SPW)

FASTENERS AND HARDWARE

A

#8 X 3” Flat Head SS fastener (used on lock strike)
Part # - FA51PHFH0SS

B

#8 X 2” Pan Head SS fastener (used on head track & side jambs)
Part # - FA32PHPH0ZP

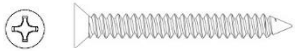
C

#8 X 1” Flat Head Black Fastener (stationary panel to jamb track)
Part # - FA54PHFH0BK

D

#8 X 5/8” Pan Head SS fastener (used on head track end caps)
Part # - FA58PHPH0SS

E

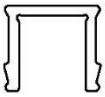


#7 X 1-1/2” Flat Head fastener (used on panel collector plates)
Part # - FA49PHFH0BK

Mohair pads
Part # - PM5012500000

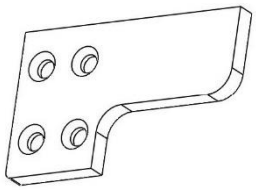
Head track end cap
(5 track shown)

2-1/4” Panel (1 track) – Part # 085073
2-1/4” Panel (5 track) – Part # 085074



Draining Sill Cover
Part # - CMS1194BA276

24” Cable Ties
Part # - HMS713K9120



Panel Collectors
Qty. 1-4 depending on # of intermediate panels
Part # HLSNSTPC2250

Left/Right Pair of Panel Collector Pads
Apply to panel collectors
Part # 083810

1 PRE-INSTALLATION INSPECTION

To ensure successful installation of your new Multi-Slide Stacking Plus Door, please review the following steps to complete a pre-installation inspection.

1.1 Ensure the area is accessible and safe for maneuvering.

1.2 **Verify correct rough opening measurements to the approved sales drawing from the factory.** The rough opening should be close enough that components can be installed with nominal shimming.

1.3 Ensure you have all necessary tools and adequate materials as noted on page 3 of this instruction.

1.4 Use adequate assistance when installing this door system. The door panels are heavy and may be awkward to handle. A minimum of two people is recommended for the install of this door system.

1.5 Always wear necessary protective gear such as safety glasses, gloves, hearing protections, clothes, etc.

2 INSTALL THE SILL ASSEMBLY

NOTE: A rigid sill pan is an integral component for the draining performance of the sill and **MUST** be incorporated in the installation of this sill assembly. It is the responsibility of the installer/contractor to verify compatibility of metals to eliminate the possibility of galvanic reaction.

2.1 Install a rigid sill pan (supplied by others) into the prepped opening (See Figure 1). Apply four 3/8" continuous beads of polyurethane sealant (supplied by others) across the width of the sill, approximately ½" – 1" in from the interior and exterior edges of the rough opening. The sealant should extend 6" up each side of the R.O. Set the sill pan in place and make sure that it is fully seated in the sealant

2.2 Dry fit the draining sill as shipped assembled from the factory. Determine the placement of the sill based on the rough opening conditions by dry fitting the sill into the rigid sill pan. It is important to note where the drain channels are located to determine proper sealant location as detailed in step 2.3. Determine any additional shimming that may be required. Non-compressible, rigid shims must be used with recommended 12" on center spacing. Shim as needed until the sill is level and square to the opening. **When the sill is in place, it is important to be sure the exterior weep path is not blocked or the system will not drain properly.**

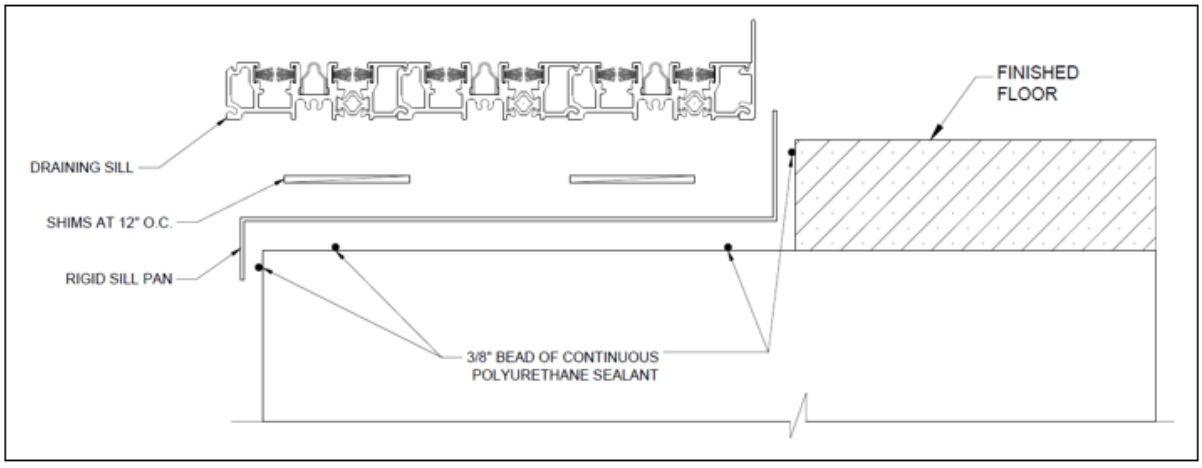


Figure 1

Required Sill Components
(Exploded View)

2.3 Once sill placement and drain channel locations have been confirmed and marked, remove the sill and apply a continuous 3/8” bead of polyurethane sealant to the interior back dam edge and side (ends) of the rigid sill pan, against the upturned legs. Apply a continuous 3/8” bead of polyurethane sealant, 2” on each side of each drain channel location, from the interior back dam bead to the exterior edge of the sill pan. Apply a discontinuous 3/8” bead of polyurethane sealant in a pattern (as shown) between the drain channel and end locations. Finally, apply a discontinuous 3/8” bead of polyurethane sealant to the exterior edge (See Figure 2). Place necessary U-shaped, non-compressible, rigid shims. Shims should be imbedded in sealant and placed 12” on center. **Be careful to not place any shims or sealant in the drainage paths.** Place the sill back into the rigid sill pan at the pre-determined location.

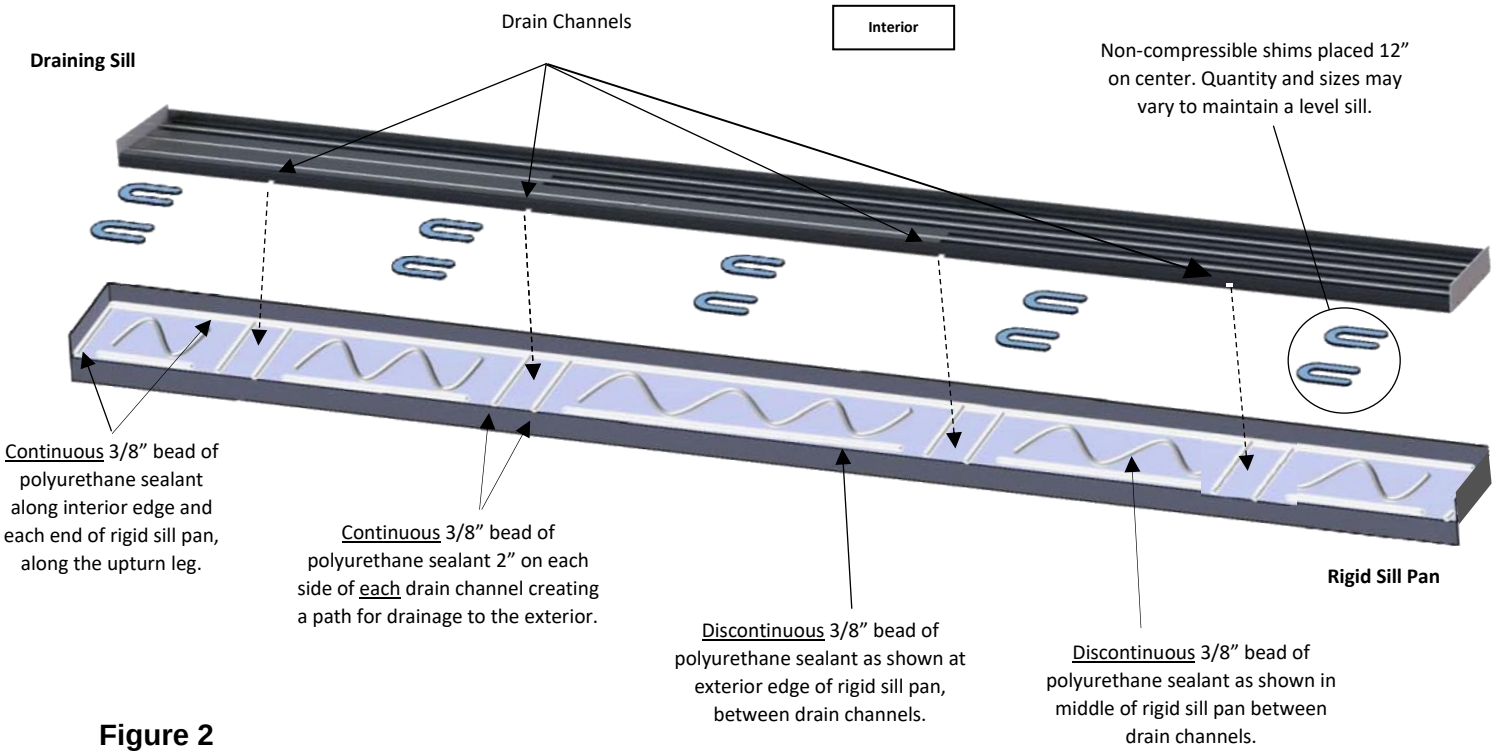
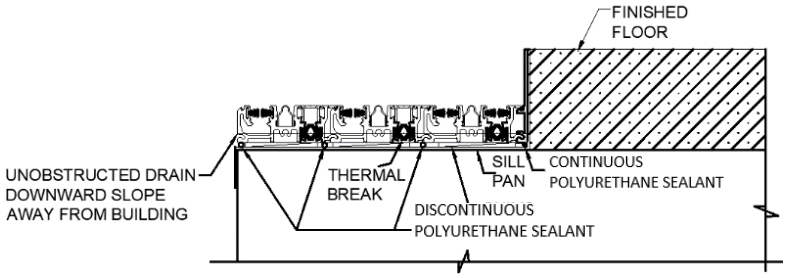


Figure 2

NOTE: Not applying polyurethane sealant as shown may impede water drainage. **It is very important not to block drain channels with sealant placement.** Take care when placing the sill onto the sill pan so as not to move the sealant and block any drainage paths.

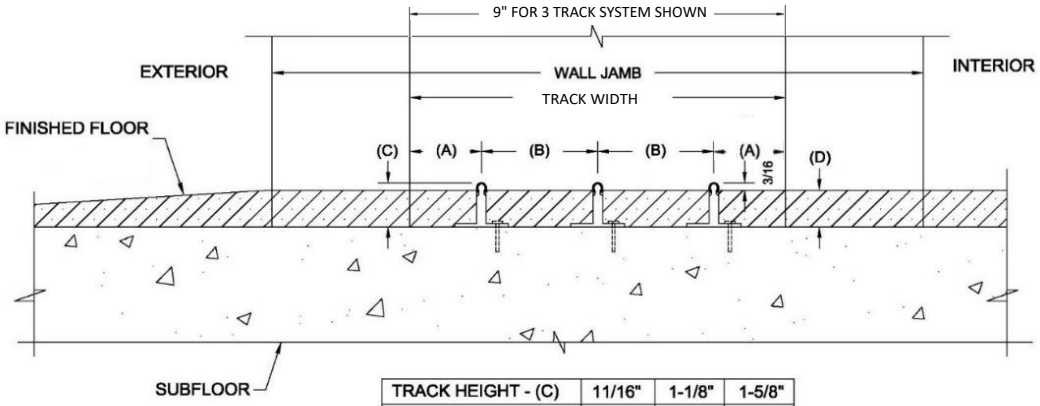
Installed Sill Section View



NOTE: It is important to reference and understand Figure 3 below, for required dimensions and placement of the T-tracks to the opening before proceeding with the installation of the T-tracks.

2.4 Install T-tracks starting from the exterior. Determine the placement of bottom of the T-tracks based on diagram in Figure 3. Measurement between centerlines (label B) of adjacent T-tracks is 3". T-tracks must be secured to subfloor using appropriate screws (not included) based on the material of subfloor in place.

	2-1/4" PANEL
(A)	1-1/2" from edge of side jamb track to center of sill track
(B)	3"



TRACK HEIGHT - (C)	11/16"	1-1/8"	1-5/8"
FINISHED FLOOR - (D)	1/2"	15/16"	1-7/16"

Figure 3

2.5 Sill tracks must be level and square to the opening. Align and shim as needed. Continue installing sill tracks to the interior based on dimensions provided in Figure 3. Use the plastic sill track spacer template (supplied by SPW) to ensure proper spacing of tracks (see Figure 4).

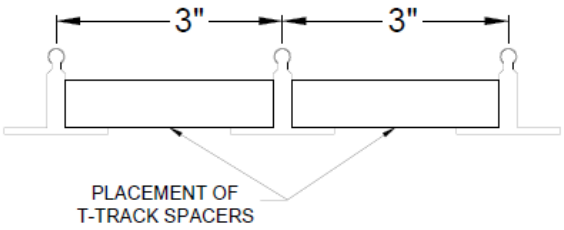


Figure 4

3 INSTALL THE HEAD TRACKS

NOTE: To assist in the placement of the head tracks it is recommended to use cable ties (supplied by SPW) to hold the tracks together (see Figure 5).

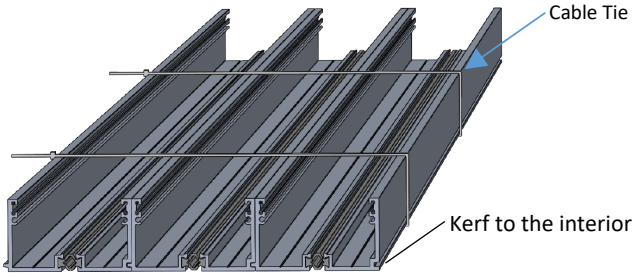


Figure 5

3.1 With the tracks held together with the cable ties, install the head track end cap using #8 x 5/8" pan head SS fasteners (D) (see Figure 6).

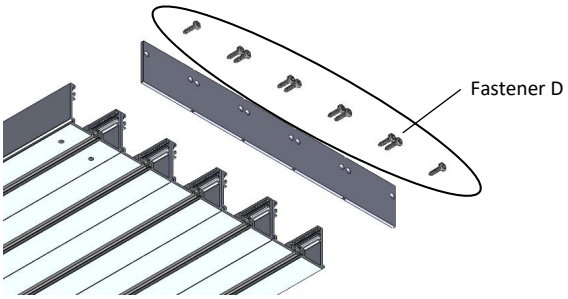


Figure 6

3.2 Install the head track with the kerf facing to the interior (see Figure 7).

3.3 Using a laser level, place head tracks so the centerline of the head track is centered over each sill track located in the sill assembly. This will ensure the panels are plumb when installed. The width or depth of the head track assembly and sill assembly are different. The outside edges of the head track assembly will not be plumb with the outside edges of the sill track assembly (see Figure 7).

3.4 Using a laser level, be sure the ends of the head tracks are plumb with the ends of the sill tracks. This will ensure the side jambs are installed plumb.

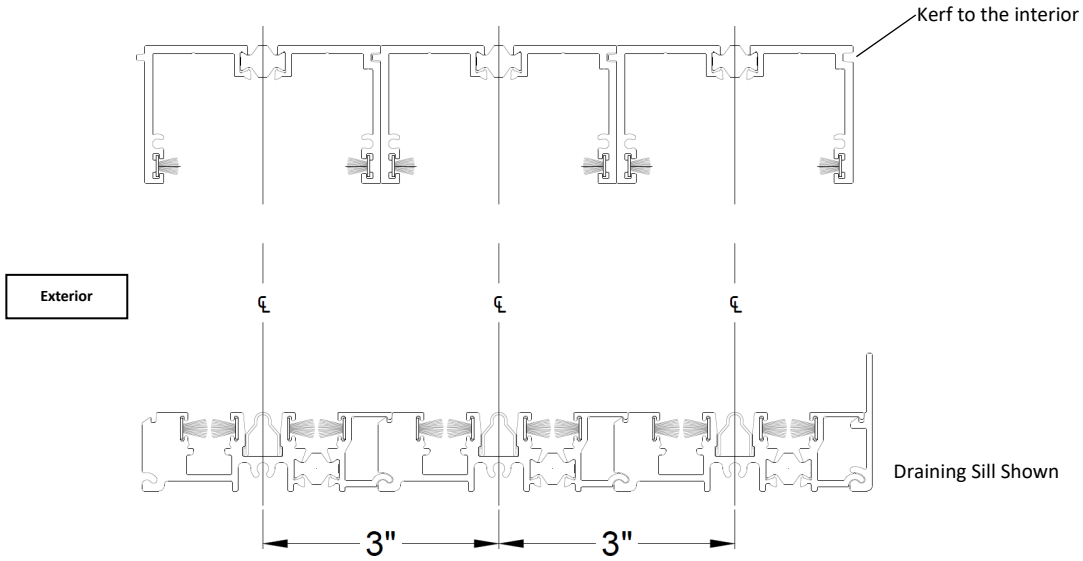


Figure 7

3.5 Using #8 x 2" pan head fasteners (B), screw the head track to the header through the pre-drilled screw holes. **It is IMPORTANT to shim the head tracks as needed (3/4" shim space) to maintain the system height dimensions shown on the drawing supplied with the door.** This will ensure the panels remain engaged in the head tracks during operation. The jamb track is supplied at the correct length and can be used as a guide (story pole) to make sure the height between sill tracks and head tracks is correct.

3.6 Continue installing remaining tracks, mounting them directly next to each other. Complete the installation by inserting backer rod into the cavity between the track and rough opening and sealing with polyurethane (see Figure 8).

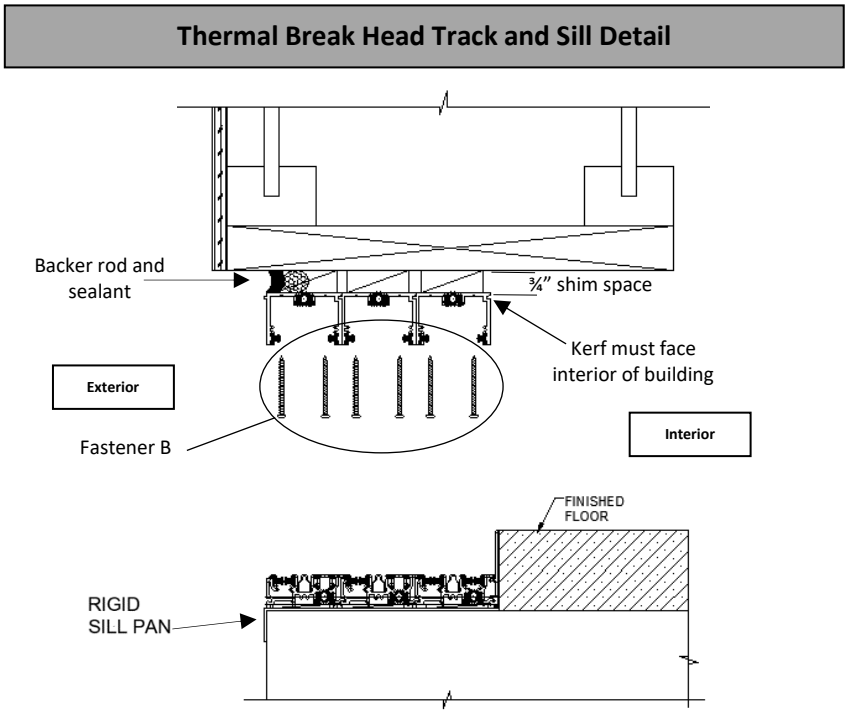


Figure 8

4 INSTALL THE SIDE JAMB TRACK

NOTE: The Multi-Slide Plus system may be ordered with thermally broken sill and side track (standard) only (see Figure 11) or with the side jamb option (head track covers, additional side jamb tracks with covers, interior wood side jamb piece, exterior clad trim pieces and interior wood trim pieces).(See Figure 12). The following steps apply to both options.

4.1 Align the side jamb tracks to the sill in similar fashion as the head tracks. (See Figure 7 on previous page). The locking side jamb track will be to the interior and the side jamb track holding the stationary panel will be to the exterior. The kerf on both the interior and exterior side jamb tracks should face to the interior of the building (see Figure 9). The side jamb tracks butt up against the head tracks and are placed directly on the draining sill. Side jamb tracks for t-track application align the slot at the bottom over the t-track. Side jamb tracks for t-tracks are cut short to allow for finished flooring below it.

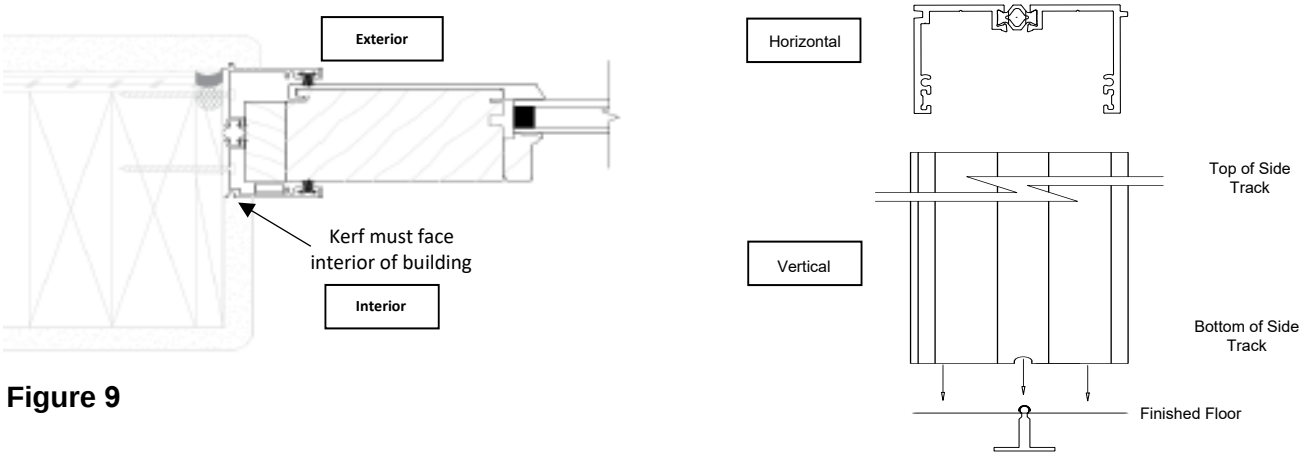


Figure 9

4.2 Prior to installing the interior side jamb tracks, apply a 3/8" bead of polyurethane sealant on the sill at the locations indicated for each of the exterior and interior side jamb tracks (see Figure 10).

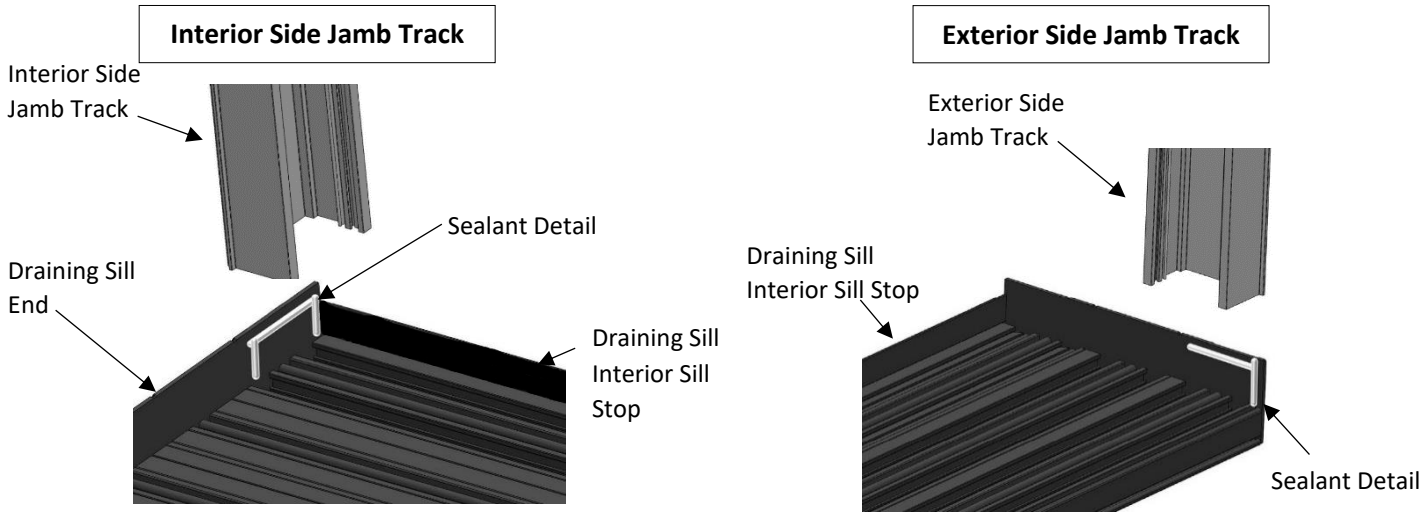


Figure 10

4.3 Using #8 x 2” pan head fasteners (B), secure side jambs to rough opening (R.O.) framing through the pre-drilled screw holes, shim as required for plumb (1/2" shims recommended). If R.O. Framing material is other than wood, appropriate fasteners will need to be supplied by others.

4.4 Once side jamb tracks are fastened into place, complete the install by inserting backer rod into the cavity between the track and rough opening and seal the joint with polyurethane (see Figure 11 for thermal break tracks; Figure 12 for side jamb option).

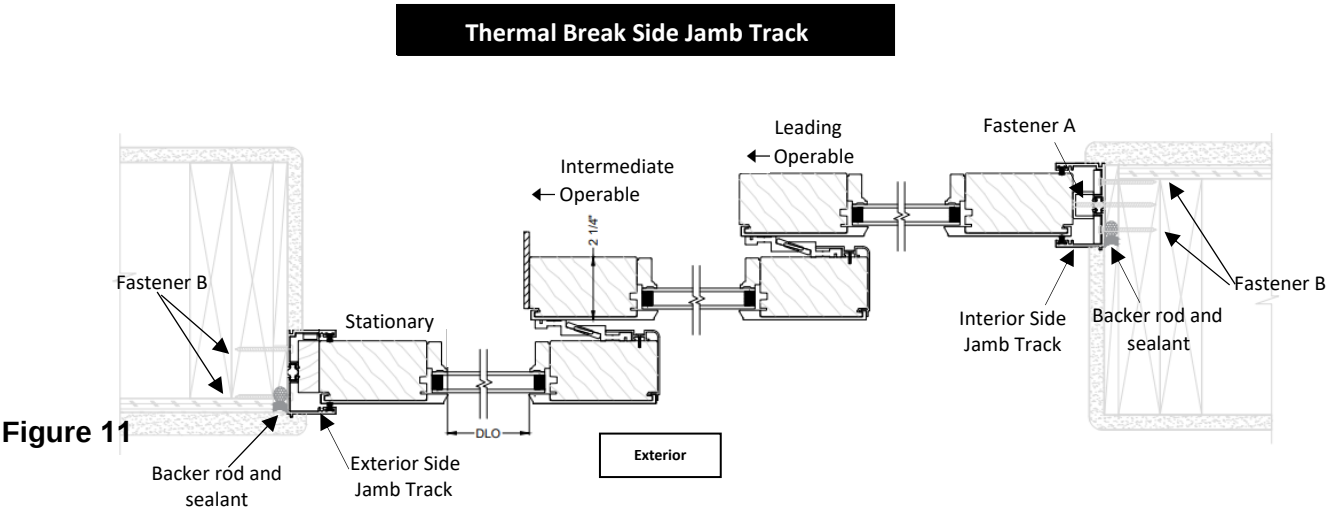


Figure 11

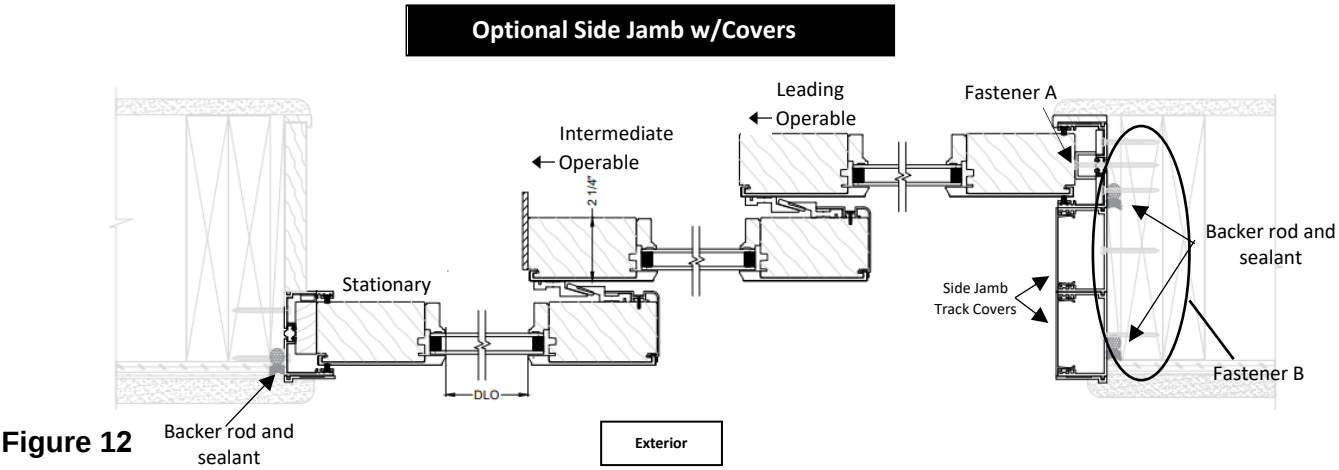


Figure 12

5 PREP AND INSTALL PANELS

NOTE: **Panels are numbered as viewed from the exterior, left to right (see Figure 13). Depending on operation, the exterior-most panel could be Panel 1 or Panel 3. The interior-most panel will always be the leading/locking panel when closed. Panel installation must ALWAYS begin with the interior most panel first, finishing with the exterior most panel.**

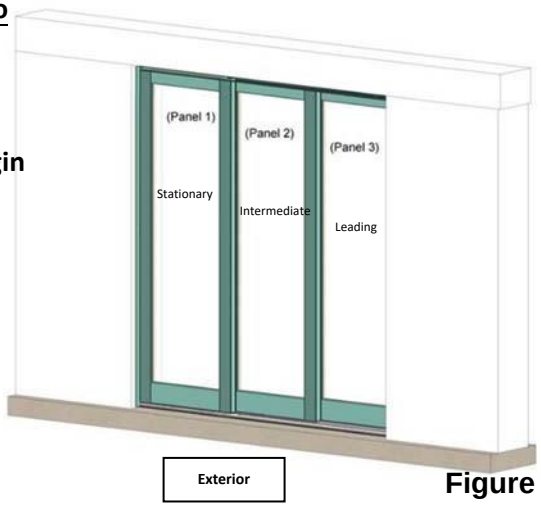


Figure 13

5.1 Remove packaging material, including bottom shipping blocks, from all panels (see Figure 14). On bi-parting configurations the shipping clip must be removed from the astragal. Apply the pile weatherstrip pads on the bottom of the panels, located on each end (see Figure 15).

Figure 14

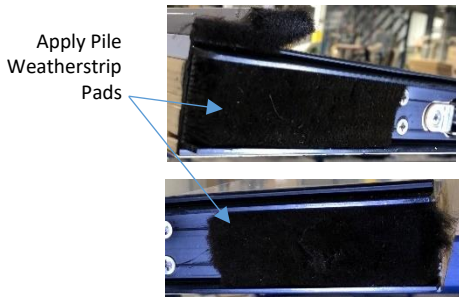


Figure 15

5.2 Beginning with interior-most panel, and from the exterior side of the door, install panel into head track first, then set bottom onto sill track. Make sure that the panel shoe at the bottom of panel aligns with the drain channels in the sill (see Figure 16).

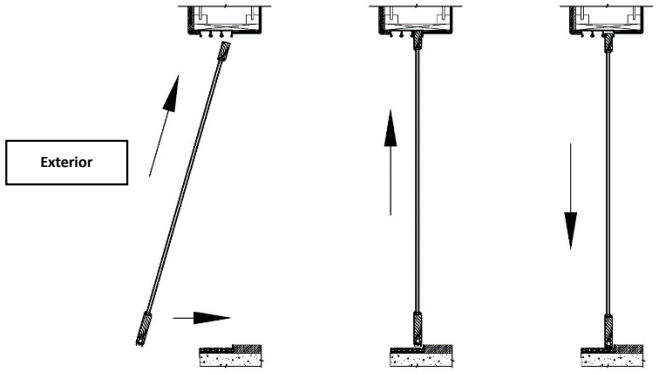
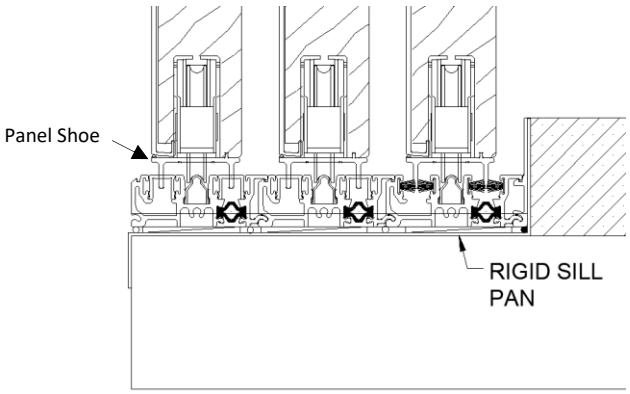


Figure 16



5.3 When installing the interior most panel, adjust the lock strike (which is applied to the side jamb track at the factory) to align with the panel hardware and secure it to the R.O. using #8 x 3" flat head SS fastener (A) (see Figure 11).

5.4 Continuing with the second panel, position the panel so it is centered over the tailing stile of the previously installed panel. This will ensure the panel is positioned so that the interlock will engage during operation.

5.5 Continue with installing remaining panels.

5.6 Complete panel installation with the exterior most panel (stationary) being installed last. Remove drain cover before installing the stationary panel. Insert stationary panel with spacer attached into the side jamb track. Using #8 x 1" flat head black fasteners (C) on interior, secure side track with filler strip to panel spacer on panel (see Figure 17). Once the stationary panel is set in place, install the 6" stationary panel drain covers. Prior to installing the 6" stationary panel drain cover, apply two beads of sealant the length of the bottom edge of each drain channel at the location where the drain cover is snapped into place (see Figure 18).

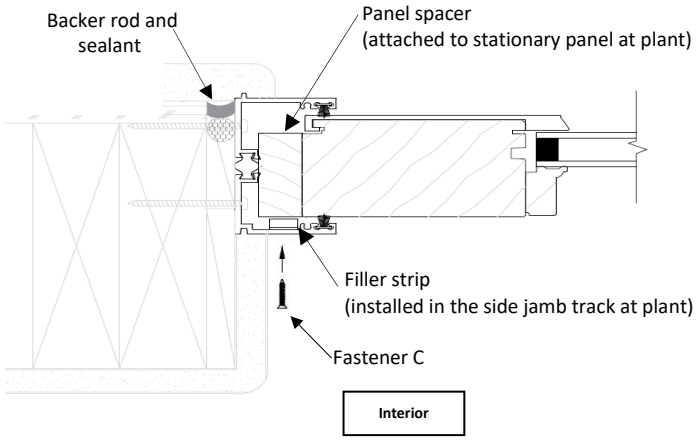


Figure 17

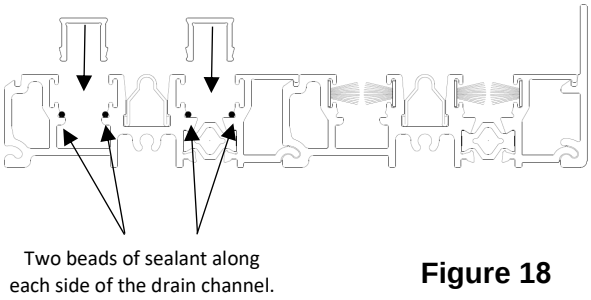


Figure 18

5.7 Install mohair pads into head track. Place pad directly above mohair pad (applied at factory) on top of the panel stiles when they are in the fully closed position (see Figure 19).

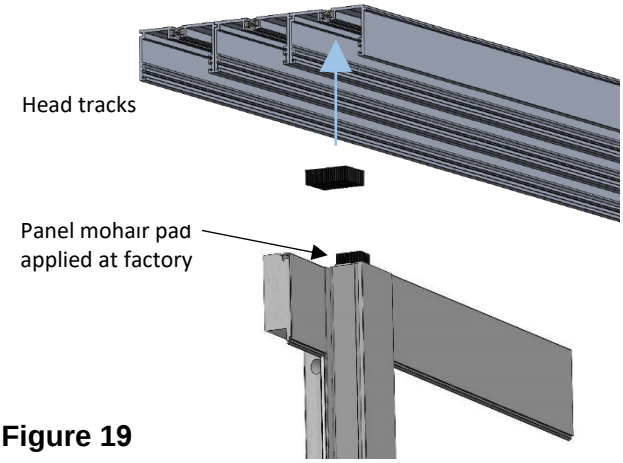
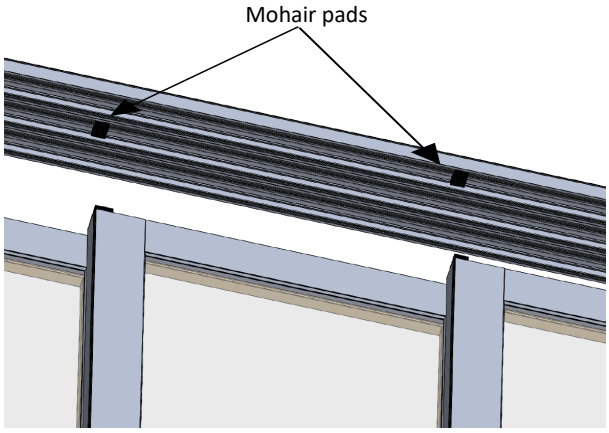


Figure 19



6 OPERATE AND ADJUST PANELS

6.1 Check panels for operation along the entire length of track. Check to ensure that the top of each panel is continuously supported in the track.

6.2 Close the panels so that the interlocks at the meeting stiles will fully engage (see Figure 20).

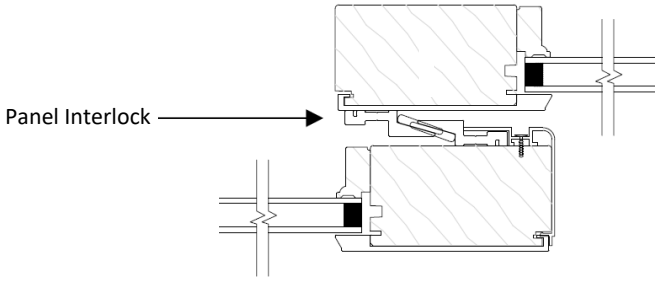


Figure 20

6.3 With all panels fully engaged at interlocks, the leading/locking panel should insert 5/8" into side jamb (see Figure 21). Check for alignment between the panel and side jamb to ensure equal reveal.

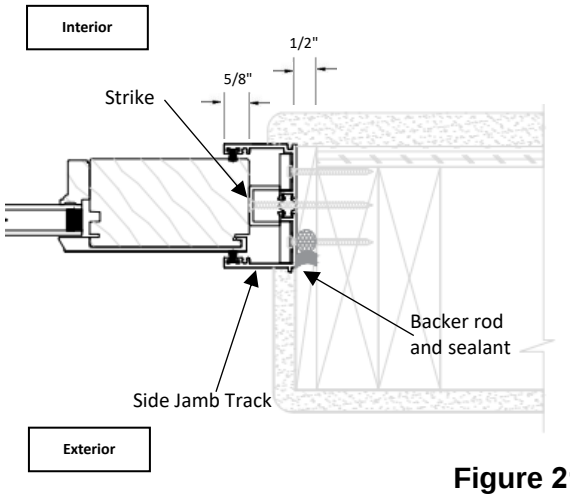


Figure 21

6.4 Apply the self-adhesive panel collector pads to both sides of the panel collector(s). Using #7 x 1-1/2" flat head fasteners (E) attach panel collector(s) to interior stile of panels in pre-drilled holes (see Figure 22). Top of panel collectors should be placed 1-3/4" from top of panel.

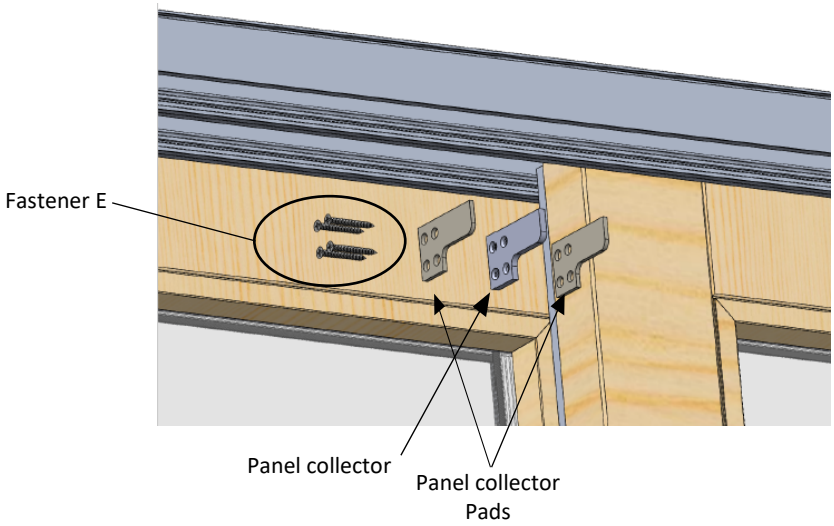


Figure 22

7 INSTALLING SIDE JAMB OPTION

NOTE: The side jamb option adds head track covers, additional exterior side jamb tracks with covers, interior wood side jamb piece, exterior clad trim pieces and interior wood trim pieces. Both side jamb track and head track covers are cut to length for the system and ready for installation. The track covers snap into the corresponding tracks. A rubber mallet may be used to firmly snap the covers into place.

7.1 Install the head track covers by snapping it into the head tracks and the exterior/interior trim pieces (see Figure 23).

7.2 Install the clad exterior side jamb track covers by snapping it into the side jamb tracks (see Figure 24).

7.3 Install the wood interior side jamb and the exterior/interior trim pieces (see Figure 25).

Clad exterior head (horizontal) and side (vertical) trim prices are shipped with extra length and need to be cut to size in the field. Clad exterior horizontal and vertical trim pieces are mitered at the top corners.

Wood interior trim pieces are shipped with extra length and need to be cut to size in the field. Head trim piece runs through horizontally and vertical side pieces butt up to the bottom of head trim.

Head Track Detail

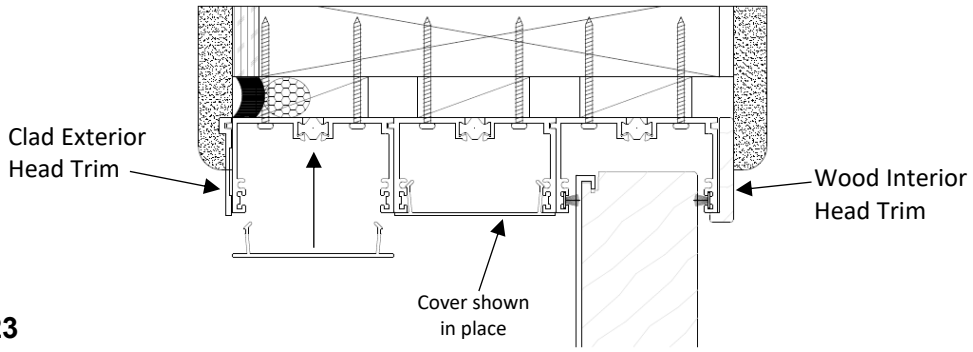


Figure 23

Side Jamb Option Details

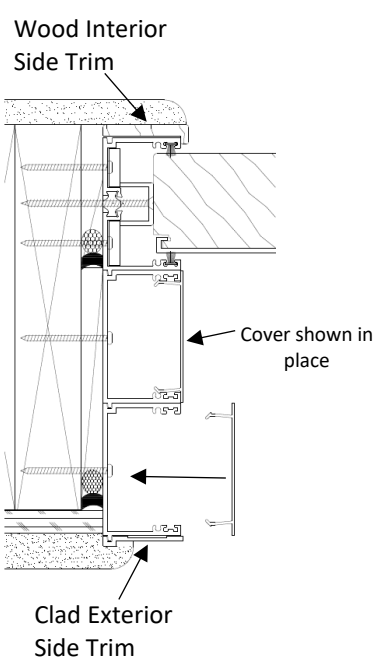


Figure 24

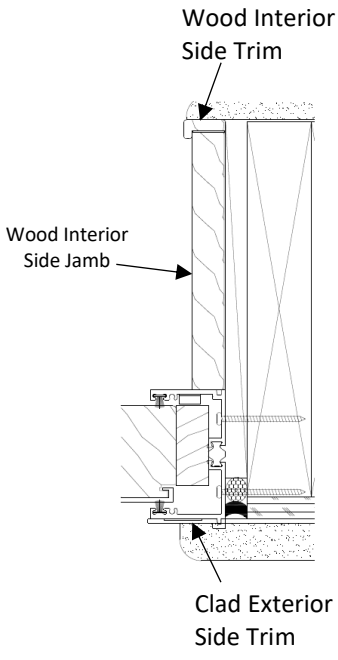


Figure 25

End of Instruction