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I. Care and Maintenance

This product is factory finished. Please handle with extreme care. Protect all exposed surfaces from contact with caustics, corrosives, solvents, abrasions, impacts, wet packing material etc. **FAILURE TO DO SO WILL NULLIFY THE WARRANTY.** Before **ANY CLEANING**, review the Care & Maintenance Instructions (go to www.fleetwoodusa.com for more information).

Contact the local dealer with any questions or concerns. Fleetwood strongly recommends that all products be cleaned after installation and totally protected from construction debris and equipment.

II. Tools / Materials, Sealant Requirements, & Anchor Instructions

Tools Required: Tape measure, Level, Shims, Screws, Screw Gun, #2 Phillips Bit, #3 Phillips Screw Driver, Power Drill, Sealant, Caulk Gun, Backer Rod, Utility Knife, Rubber/Plastic Mallet, Pliers, Wax.

Sealant Requirements

- The sealant referred to within this document for seals associated with the assembly of the product should conform to **AAMA 800**. It may be a sealant recommended and approved by the sealant manufacturer that is compatible with the framing, finish and surrounding materials.
- All sealant bead sizes must conform to the sealant manufacturers' size requirements.
- The Owner / General Contractor is responsible for identifying the need for any additional sealant to be applied by others. Such sealant shall be elastomeric material, with the framing, finish and surrounding materials.

Anchor Instructions

- Structural engineer to determine anchor quantity, size, and spacing for design load requirements.
- Proper material must be used between all dissimilar surfaces (i.e. block/concrete & aluminum).

III. Assembly and Installation

Note: Add tube wax lubricant to the ends of all fasteners to reduce the drive torque required for installation, apply a small amount of tube wax to the head of the fasteners to assist with installation.

It is essential that each Fleetwood product be assembled and glazed in accordance with AAMA standards and factory instructions. It is the installer's responsibility to ensure that each Fleetwood product is assembled, glazed and installed and completely sealed to ensure that the product is leak-free and operates correctly. **Installation of Fleetwood products must be in accordance with the standards set forth in ASTM E 2112.** If there are any questions regarding the installation of a Fleetwood product contact the factory customer service department.

IV. Glazing Assembly

1. Start attachment of glazing vinyl at top corner of the glass.
2. Cut glazing vinyl at corners as shown in Figure 1, Detail A.
3. At start/end point (seam), cut glazing vinyl 1/8" oversize to compensate for stretching.
4. Apply sealant to top portion of this seam.
5. Apply a bead of sealant that is compatible with the insulated glass seal to all four exterior corners as shown in Figure 1, Detail A.

Notes:

- a. The glass thickness, net width and height must be to size within $\pm 1/32"$.
- b. Failure to install according to these instructions nullifies all warranties related to this product.

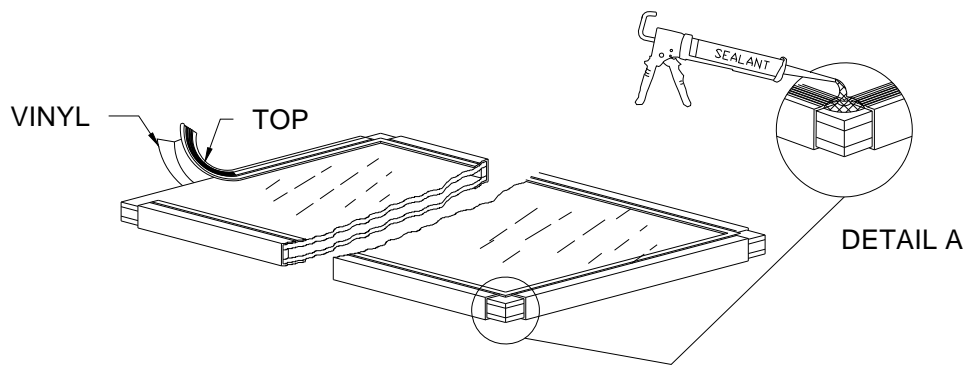


Figure 1:
Glazing Vinyl Application

V. Panel Assembly (If panels were ordered glazed, skip to section IV)

Note: Match door configuration and panel orientation with customer order. Configuration and orientation of panels shown in assembly instructions is for illustration purposes only.

Inside Panel ("X" Panel)

1. Adjust the roller assemblies (2 required per "X" panel) to the full up right position using the adjustment screw, Figure 2.
2. Center the top rail onto the glass. Using a rubber or dead blow mallet and block of wood, drive the rail onto the glass until the rail seats against the vinyl lip.
3. Repeat this procedure with the bottom rail; confirm the roller assemblies are installed into the rail.
4. Confirm Bottom Vinyl Sill Wipe is installed into the top groove of the bottom rail (See Figure 3). Leave at 3" long on both sides to install Bottom Vent Clips.

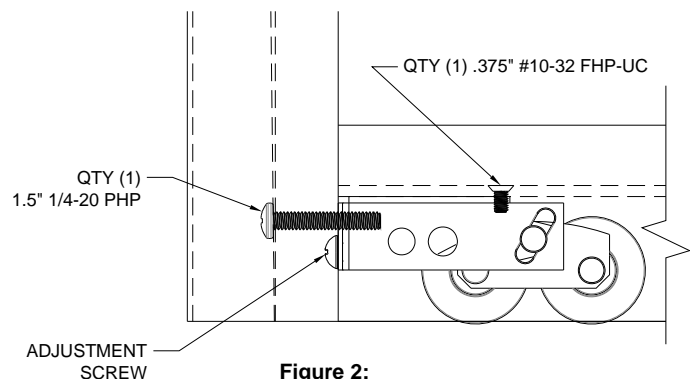


Figure 2:
Roller Adjustment Screw

Note: Prior to adjusting the roller on **ANY** door you **must** first remove the weight of the panel.

Note: Before installing lead stiles and interlocker to panels please check required orientation with customer order.

5. Position the interlocker stile, weather-strip facing up (on the right side for OX, left for XO) and drive it onto the glass.
6. Position the Lead Stile, latch activation hardware facing down, and drive it onto the glass.
7. Secure the stiles to the rails with (2) #10 PHP-A x 2" and (2) #1/4"-20 PHP-B x 2" screws.
8. Insert panel plugs into the stiles, as shown.

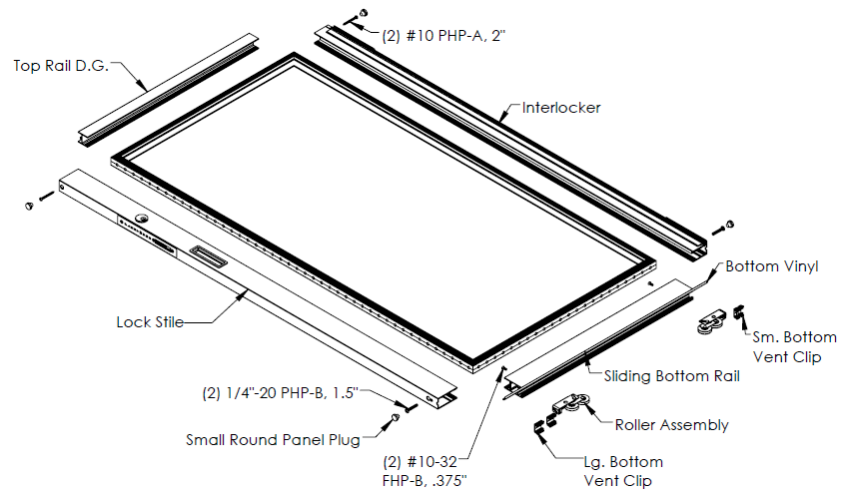


Figure 3:
"X" Panel assembly
(exterior)

Outside Panel ("O" Panel)

1. Center the top rail onto the glass. Using a rubber or dead blow mallet and a block of wood, drive the rail onto the glass until the rail seats against the vinyl lip. Repeat this procedure with the bottom rail, short leg facing up.

Note: Before installing interlocker stile to panel please check required orientation with customer order.

2. Position the fixed stile on the remaining side and drive it onto the glass.

Note: The left "O" Panel of an OXOL is assembled with two fixed stiles. The right "O" panel of an OXOR also has two fixed stiles.

3. Position the interlocker stile weather strip face down (on right side for OX, on left side for XO) and drive it onto the glass (Figure 4).
4. Secure the stiles to the rails with (4) #10 x 2" pan head screws.
5. Insert panel plugs into the stiles, as shown.

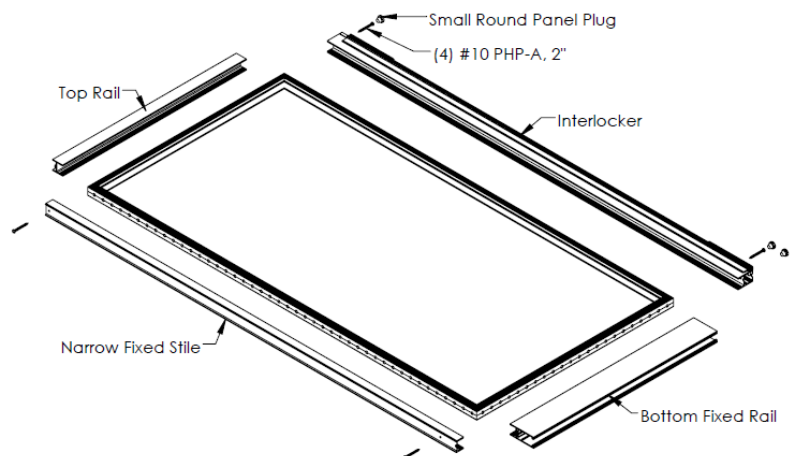


Figure 4:
"O" Panel assembly
(Interior)

VI. Frame Assembly

1. Add sealant to the upper corners of the jamb(s) and to the end of the head that is compatible to the entire assembly as shown in Figure 5, Detail A.
2. Attach the jamb(s) to the head using #10 x 3/4" long pan head screws, check to ensure the screws pass through jamb(s) and into the screw raceways in the head).
3. Attach the jamb(s) to the sill using #10 x 3/4" long pan head screws, check to ensure the screws pass through jamb(s) and into the screw raceways in the sill).
4. After frame has been assembled make sure ample sealant is forced in and around each contour at all four corners as shown in Figure 8, Detail B. Seal outside corners from underneath threshold as shown in Figure 5, Detail C.

Note: Due to the potential disruption during handling and installation, the installer is responsible for the integrity of all areas requiring sealant whether or not these frames were factory assembled.

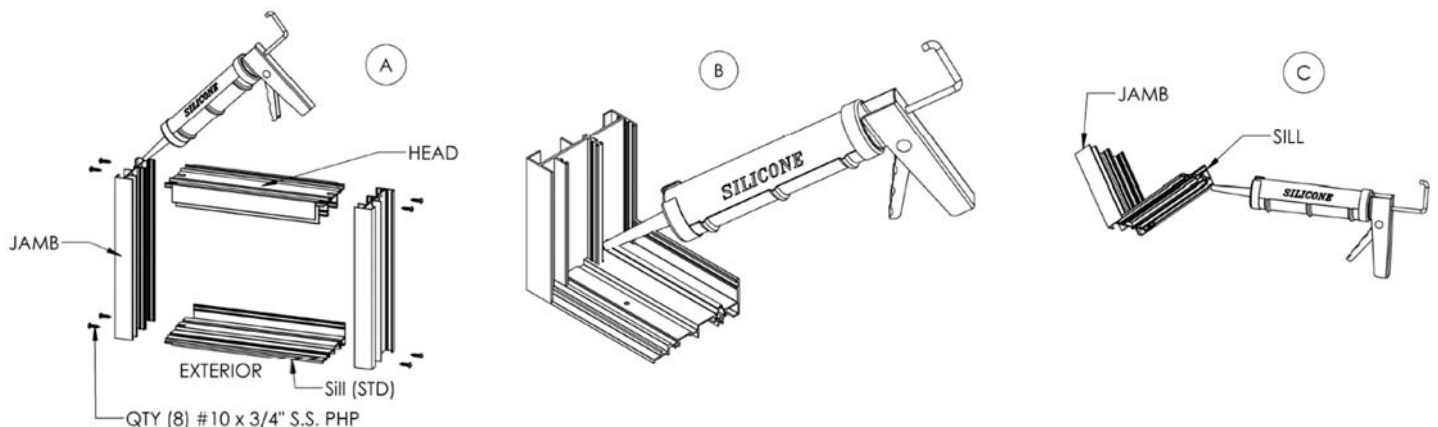


Figure 5:
Frame Joint Sealing

VII. Frame Opening Verification & Sill Pan Installation (Optional)

1. Frame Opening Verification

- Check the measurement of the opening and verify that the door will fit into the opening.

2. Pre-Fit and Leveling

- Place sill or pan into the opening and determine leveling that must be done prior to installation.
- Shim as necessary to stabilize the entire depth and length of the sill or pan. No unsupported width of more than 8" is allowed. (Shim with non-porous, non-absorbent, inorganic shims)
- If more than 1/8" shim height is required, it is recommended that pouring self-leveling "Rock Hard" (or equal) to achieve level and stable surface.

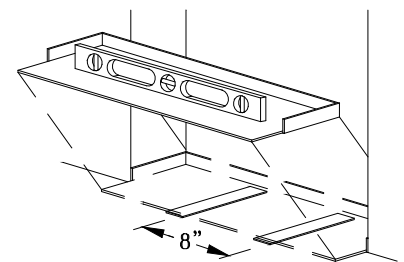


Figure 6:
Leveling Sillpan

3. Sealant Application (Optional Sill Pan)

- Apply sealant in all corners and seams of the sill pan (Figure 7).
- With bottom side of sill pan up, apply a 3/8" bead of compatible sealant 1/2" in from interior leg. Sealant bead to run across the bottom as well as up each vertical leg of the sill pan. Also apply sealant beads near the sides and across the front (Figure 9).
- Secure the sill pan to the floor with glue. Position sill pan as necessary to allow for proper installation of frame assembly (Figure 9).

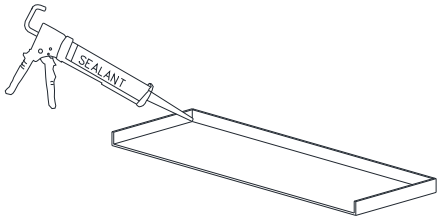


Figure 7:
Seal corners and seams

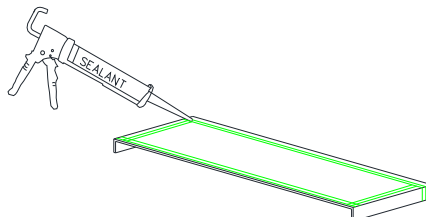


Figure 8:
Seal underside of Sillpan

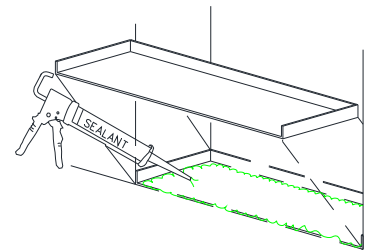


Figure 9:
Set Pan in full bed of sealant

VIII. Frame Installation

Note: For OXO configurations, do not anchor the Head until after the False Jamb is installed (refer to section VII)

1. Insert the door into the opening, setting the sill in a full bed of sealant (Figure 10).
2. Cross-measure and adjust as necessary to achieve a plumb square and level condition, as well as an even reveal around the framed opening. Shim with non-porous, non-absorbent, inorganic shims where needed. Seal all fastener heads with compatible sealant. (Do not drill holes through Sill!)
3. For Nail Fin Frames: Recommended anchoring; #8 x 1.5" PHP S.S, (not by Fleetwood) 3" from the ends, 12" on center. **Check local building code for anchor requirements.**
4. For Block Frame: Attach frame to structure as shown below. **Size and location of fasteners per local code.** Frame installation anchors furnished by installer, not by Fleetwood. Stainless steel screws are recommended.

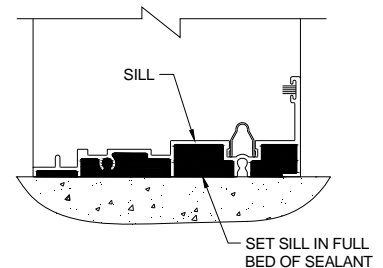


Figure 10:
Seal Sill to Subfloor

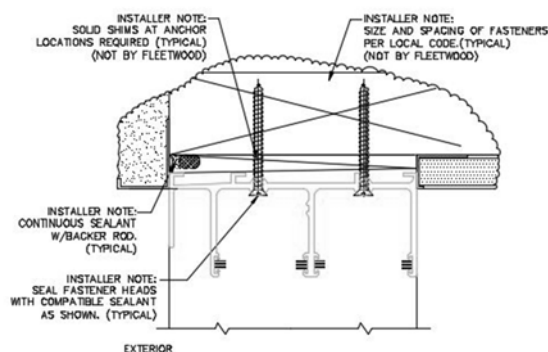


Figure 11:
Block Frame: Head anchoring

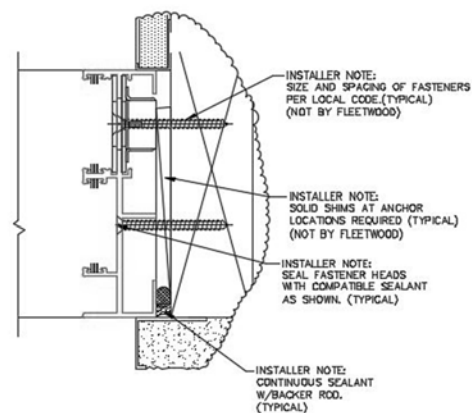


Figure 12:
Block Frame: Jamb anchoring

IX. Panel Installation

Note: Check customer order for proper panel configuration and orientation.

“X” Panel

1. From the outside, with the weather-strip facing outside, insert the “X” panel into the inside channel of the head. Push up and swing the bottom of the panel in and down onto the sill. Ensure the rollers are correctly seated on the stainless steel track (Figure 13).
2. Adjust rollers so that the bottom vent vinyl firmly contacts sill. Do not allow vinyl to curl.
3. Adjust latch to lock tightly & securely.

Note: Lift the weight of the panel off the rollers when adjusting.

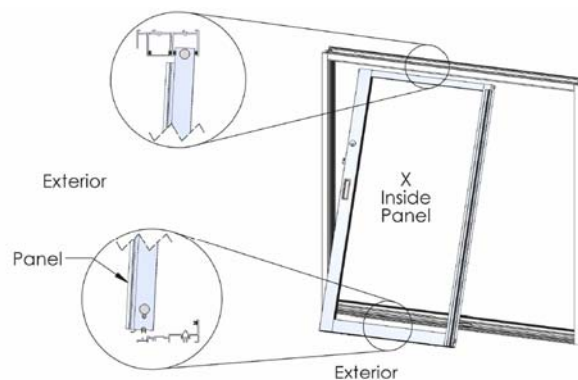


Figure 13:
 “X” Panel Installation

“O” Panel

4. Insert the fixed panel (weather-strip facing inside) into the center channel of the head, as far to the sliding side of the frame as possible. Push up and swing the bottom of the panel in and down so that the bottom rail rests in the grooves of the sill (Figure 14).
5. Slide the fixed panel as far as possible into the fixed jamb over the sill block. Do not remove the block.
6. If the bottom rail legs are not resting at the bottom of the groove, tap the rail into the groove with a hammer and a block of wood.

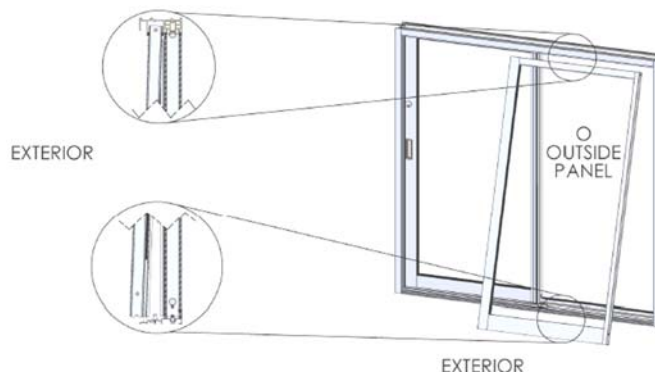


Figure 14:
 “O” Panel Installation

Securing "O" Panel

7. Remove the bottom panel plug. Insert (1) #10 x 3" pan head screw through the fixed interlock stile and into the sill block (Figure15). Reinstall the panel plug.
8. Trim Panel plug as shown (Figure 16).
9. Insert modified plug into interlocker and install Head Closer (Figures 17 & 18).

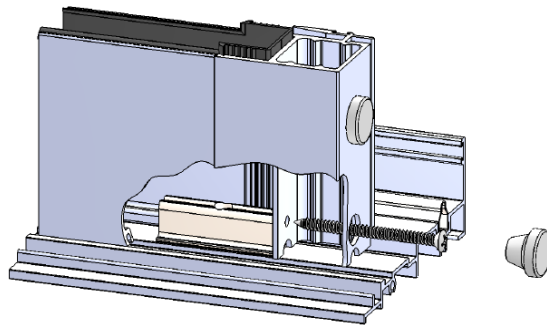


Figure 15:
 Anchor Panel to Sill Block

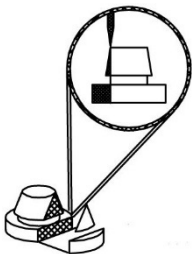


Figure 16:
 Trim top Panel Plug

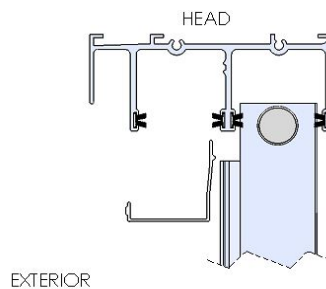


Figure 17:
 Head Closer Installation

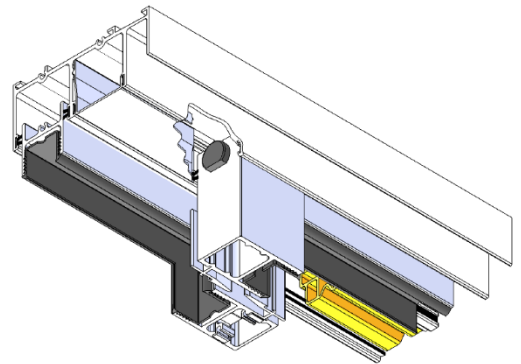


Figure 18:
 Top Panel Plug and Head Closer installed

Head Bumper and Security Screw

10. Install rubber bumper into head of sliding panel track.
11. Install (1) #8 x 3/4" PHP TEK security screw into the predrilled hole in the mohair channel (below the glass line), near to the bottom of the fixed jamb (Figure 19).

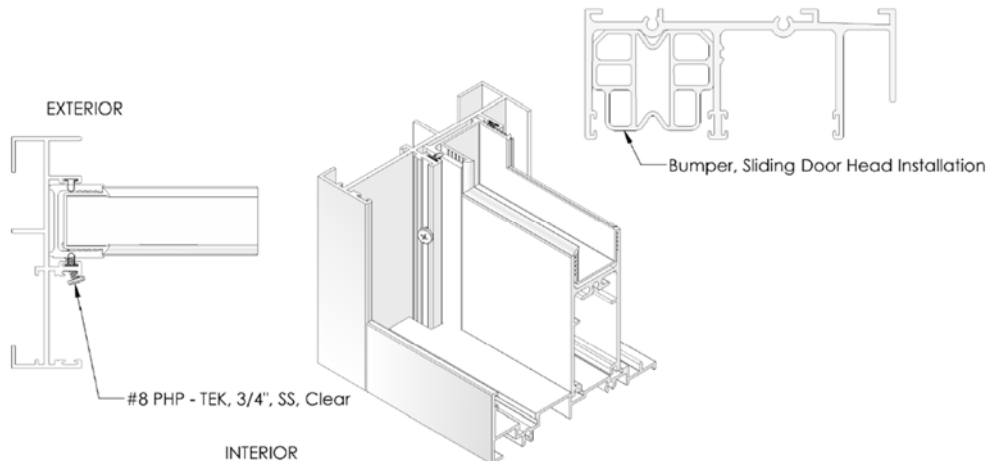


Figure 19:
Security Screw and Head Bumper installation

X. OXO Panel Installation

1. Assemble and install the frame (Section IV). From outside, with the weather-strip facing outside, insert the "X" panel into the inside channel of the head, push up and swing the bottom of the panel in and down onto the sill. Insert the right side fixed panel and slide the "X" panel to the right side fixed jamb. Insert the left side fixed panel without interlocker (Figure 20). **Leave the head unanchored until the false jamb has been installed and set into position.**
2. Slide the left side fixed panel into the left side fixed jamb as far as possible. Install the false jamb at an angle until it rests against the left side fixed panel. Using a wood block and hammer, set the false jamb firmly into its place against the fixed panel (Figure 21).

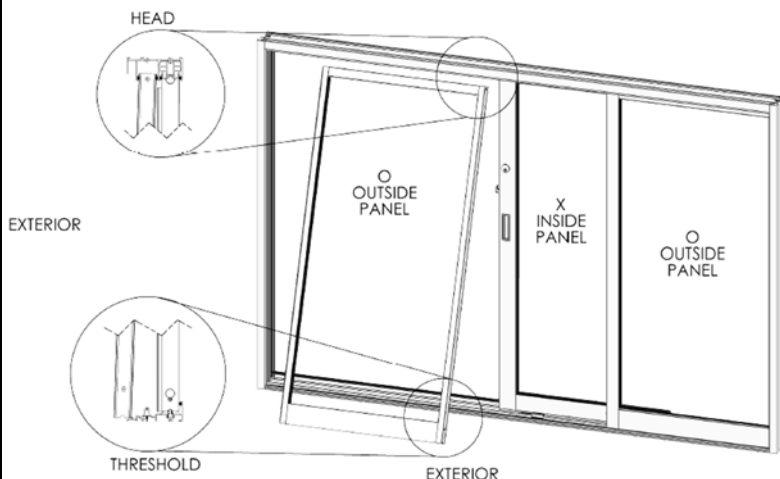


Figure 20:
Fixed Panel

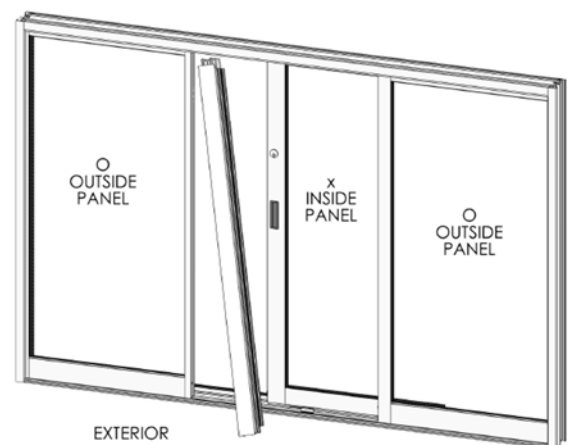


Figure 21:
False Jamb

3. Anchor False Jamb to the Frame and Structure

- Attach the false jamb to the sill block using a #10 PHP-A, 3" screw (Figure 22).
- Attach the "L" Bracket to the top of the False Jamb using (2) #8 x 3/4" PHP TEK screws.
- Attach the "L" Bracket through the Head of the Frame, into the Header using the appropriate size screw required by local code (not by Fleetwood) (Figure 23).
- From the inside attach the bottom of the "O" panel to the False Jamb using a #8 x 3/4" PHP TEK screw (Figure 24).

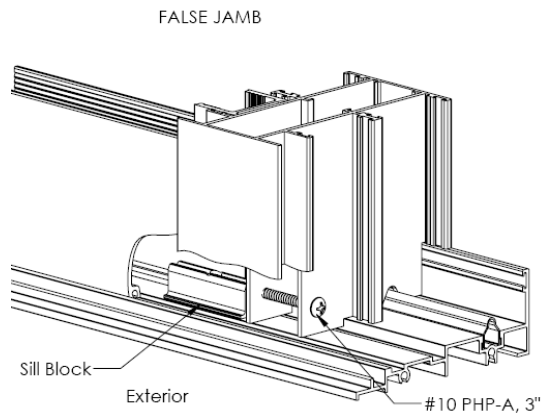


Figure 22:
Sill Block at False Jamb

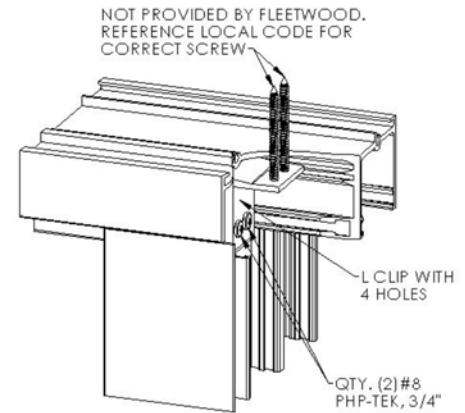


Figure 23:
"L" Bracket at False Jamb / Frame Head

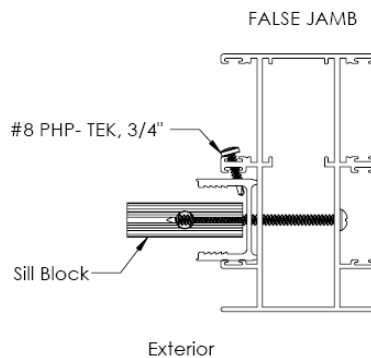


Figure 24:
Security screw at fixed panel and False Jamb

4. Install the head closer between the false jamb and the right side fixed panel (Figure 25).

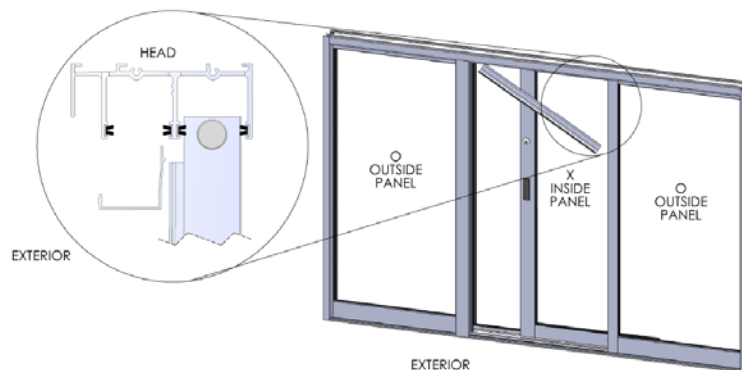


Figure 25:
Head Closer

XI. Screen

1. Insert the screen into the outside channel of the head. Push up and swing the bottom of the screen in and down onto the outside track (Figure 26).
2. Adjust the bottom rollers to align the screen with the jamb, and then adjust the top rollers for "Anti-lift".

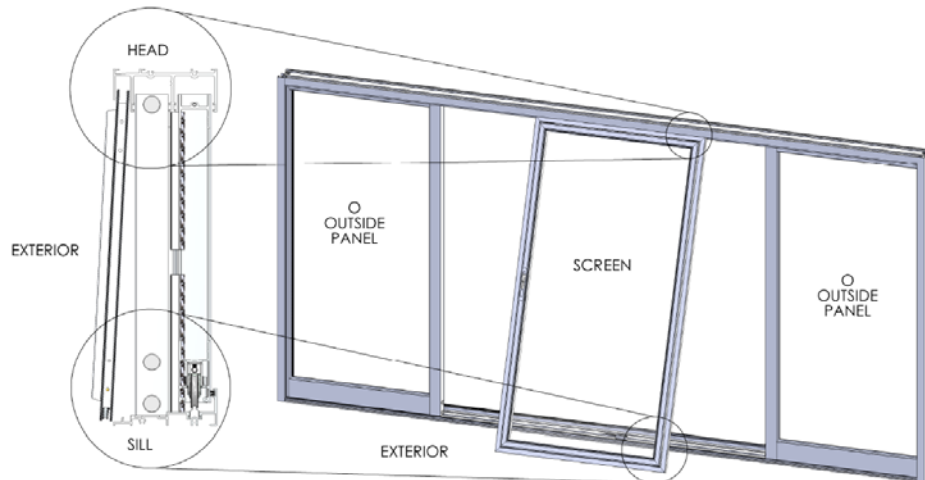


Figure 26:
 Screen Installation

XII. Air Barrier (Optional)

1. Slide the air barriers (optional) in all fixed interlocks into position. At the head slide the air barrier up until it butts with the center mohair pocket, as shown in Figure 27. At the sill slide the air barrier down until it sits on the sill, as shown.

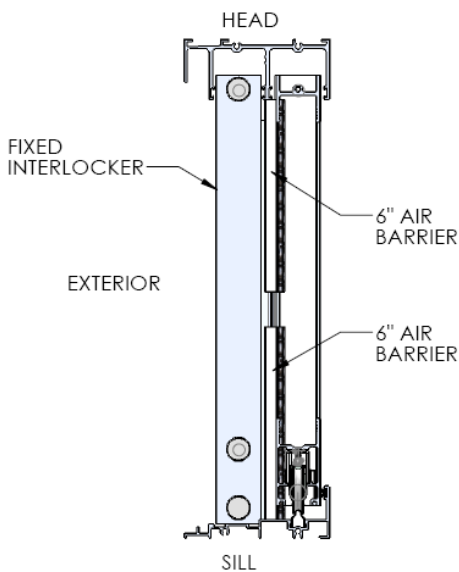


Figure 27:
 Optional Air Barrier

XIII. Sill Track Installation

1. Using a pair of pliers, slightly squeeze one end of the track to create a tapered edge (Figure 28).
2. Push tapered edge of track into the sill (Figure 29).
3. Using a rubber mallet, tap the track into the sill (Figure 30).

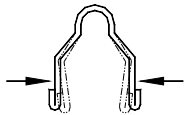


Figure 28:
Squeeze track

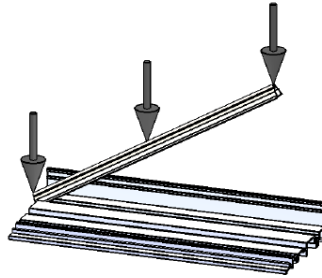


Figure 29:
Sill Track Installation

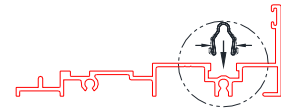


Figure 30:
Track (Typical)

XIV. Sill Track Removal

1. Using a pair of pliers, slightly squeeze the track together at one end and pull up (Figure 31).
2. Using a screwdriver, slowly pry the track out of the sill. Although you can reinsert the track, we recommend a new track be installed for optimal performance of sliding door.

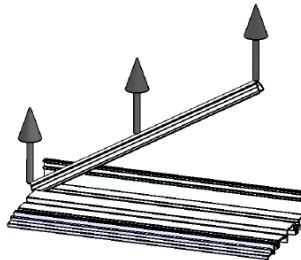


Figure 31:
Sill Track Removal

XV. Flashing after Installation

The flashing paper referred to in this document is Moistop or other code compliant flashing material that conforms to **Federal Specification UU-B-790a, Type 1, Grade A, Style 4**. The strips of flashing paper are to be no less than 9 inches wide (or wider as required by local codes). Flashing paper must be applied with galvanized nails or corrosion resistant staples. Flashing paper shall be applied in a weatherboard fashion around the full perimeter of the framed opening.

1. Once satisfied that the frame is water tight, and immediately prior to application of the flashing paper at the head and jambs, apply a continuous bead of sealant to the exposed mounting flange (nail-fin) at the top (head) and sides (jambs) of the installed frame. Also, apply sealant at corners of the frame, the full length of the seams where the nail fin flashing is mounted.
2. At each jamb, embed the flashing paper into the sealant onto mounting flange and fasten into place. The flashing paper should be cut sufficiently long enough to extend at least 3 in. past the weep-screed or diado flashing and at least 6 inches above the head of the window (Figure 32).
3. Finally, at the head, embed the flashing into the sealant on the mounting flange and fasten into place. The flashing paper should be cut sufficiently long enough to extend past the flashing paper at each jamb by at least 3 in (Figure 33).
4. Weather resistant building paper should be applied in a weatherboard fashion to complete the installation (Figure 34).

Note: Where weather resistant building paper, insulating board, or other materials by other trades may constitute the primary weather barrier behind the exterior wall finish (i.e. stucco, masonry, siding, etc.), the owner / General Contractor are responsible to ensure that the weather barrier is continuous by effectively sealing the material to the window frame.

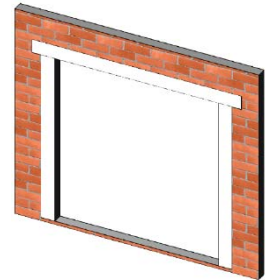


Figure 32:
Jamb flashing

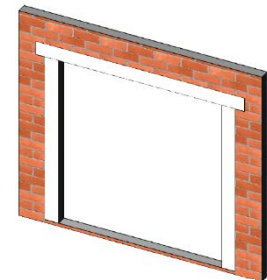


Figure 33:
Head Flashing

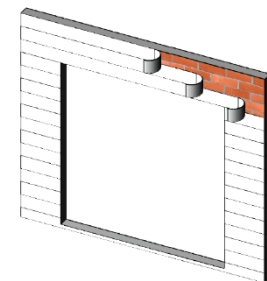


Figure 34:
Building Flashing