FLEETWOOD WINDOWS & DOORS

SERIES 3000
INSTALLTION INSTRUCTIONS

Table of Contents

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 the top corner of the glass.
2. Cut glazing vinyl at all four 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 Detail “A”.

Notes:

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

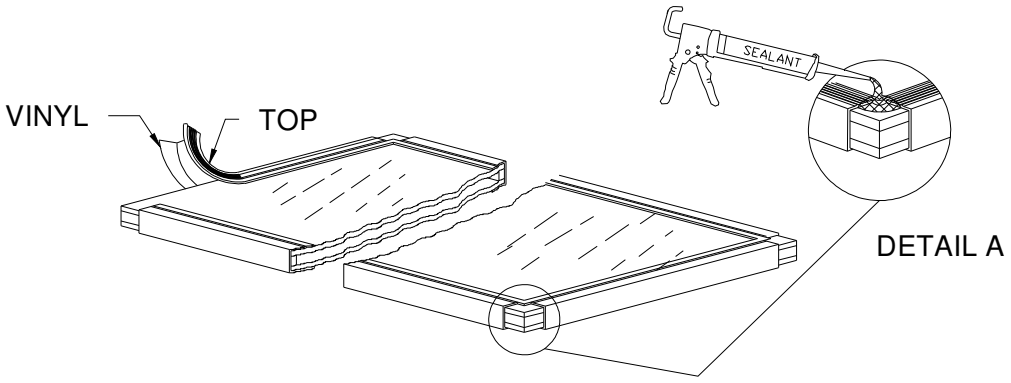


Figure 1:
Glazing Vinyl Application

V. Panel Assembly

Note: Match door configuration and panel orientation with customer order. Configuration and orientation of panels shown in assembly instruction 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 mallet, drive the rail onto the glass until the rail seats against the vinyl lip. Repeat this procedure with the bottom rail.
3. Confirm Bottom Vinyl Sill Wipe is installed into the top groove of the bottom rail and crimped into the vinyl clip (See Figure 3). Leave at 3-7/8” long on the lock stile and 2” on the interlocker side.

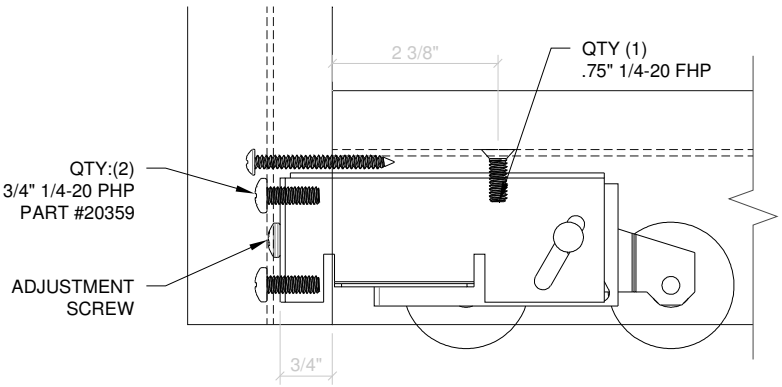


Figure 2:
Roller Adjustment

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.

4. Position the interlocker stile, weather-strip facing up (on the right side for OX, left for XO) and drive it on the glass.
5. Position the Lead stile, latch activation hardware facing down, and drive it onto the glass (Figure 3).
6. Secure the stiles to the rails with four (4) #10 PHP-A x 2” and four (4) 1/4"-20 PHP-B x 1/2".
7. Insert the vinyl clip into the stiles.
8. Place panel plugs into the stiles, as shown.

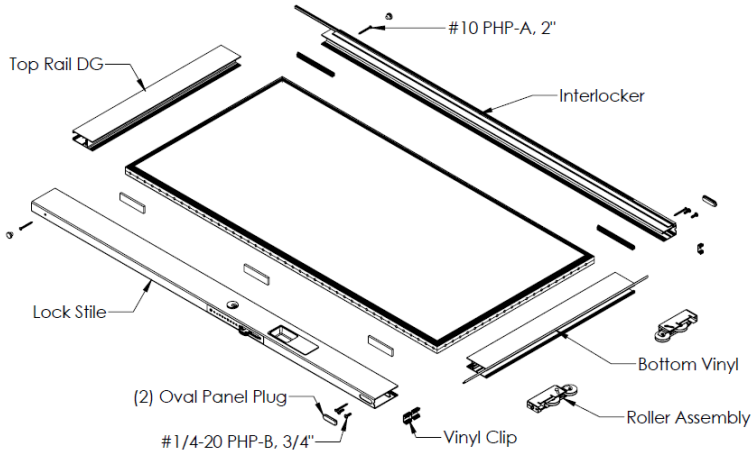


Figure 3:
“X” Panel assembly
(exterior)

Outside Panel (“O” Panel)

1. Center the top rail onto the glass. Using a rubber mallet, drive the rail onto the glass until the rail seats against the vinyl lip. Repeat this procedure with the bottom rail, short leg face 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.
4. Secure the stiles to the rails with (4) #10 x 2” pan head screws (Figure 4).
5. Insert vinyl plugs at top and bottom of the stiles.

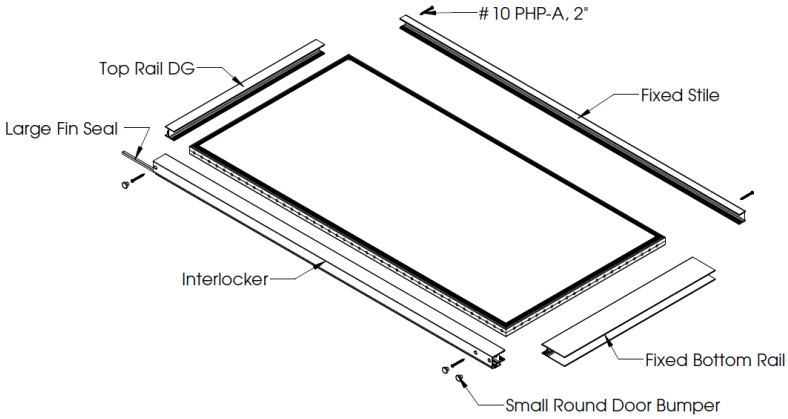


Figure 4:
“O” Panel assembly
(interior)

VI. Frame Opening Verification & Sill Pan Installation

1. **Frame Opening Verification**
   - Check the measurements of the opening and verify that the door will fit into the opening. Measure all four sides of the opening to make sure there is a clearance of 1/2" in width and 1/4" in height.
   - Remove the door(s) from the packaging and lay it in front of the opening. Check width and height dimensions.
   - Verify the opening is plumb and level.

2. **Pre-Fit 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 supported width of more than 8” is allowed (Figure 6). 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.

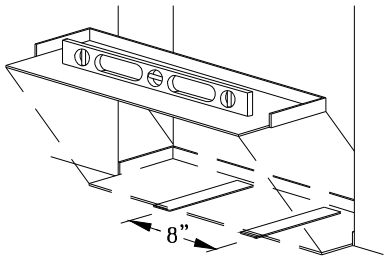


Figure 6:
Leveling Sillpan

3. **Flash the Opening**
   - Once the opening has been confirmed, flashing of the opening is required prior to Frame installation. Paper and/or liquid flashing methods are acceptable (see AAMA 711/714 for material requirements).
   - Check local Building codes for any additional flashing requirements.

Paper Flashing

- At each Jamb the flashing paper should be cut at least 3” past the weep-screed or diado flashing and at least 6” above the head of the door. The flashing must wrap around the jamb and at least 3” back into the opening.
- At the Head run the flashing paper long enough to extend at least 3” past the jamb flashing and wrap around the Header at least 3” into the opening.

Liquid Flashing

- Follow the liquid flashing manufacturer instructions.

4. **Sealant Application (Optional Sill Pan)**
   - Apply sealant in all corners and seams of the sill pan (Figure 7).
   - With bottom side of sill 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 8).
   - Secure the sill pan to the floor with glue. Position sill pan as necessary to allow for proper installation of frame assembly (Figure 9).

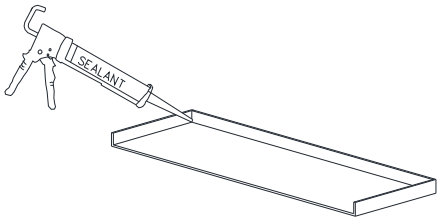


Figure 7:
Seal corners and seams

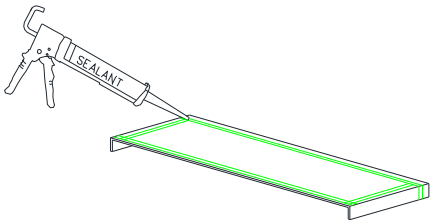


Figure 8:
Seal underside of Sillpan

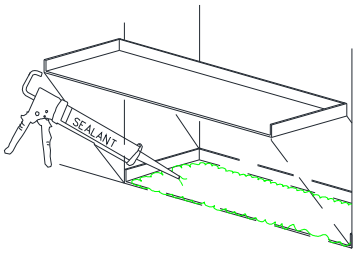


Figure 9:
Set Pan in full bed of sealant

VII. 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, checking that 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, checking that 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 B. Seal outside corners from underneath threshold as shown in Figure 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.

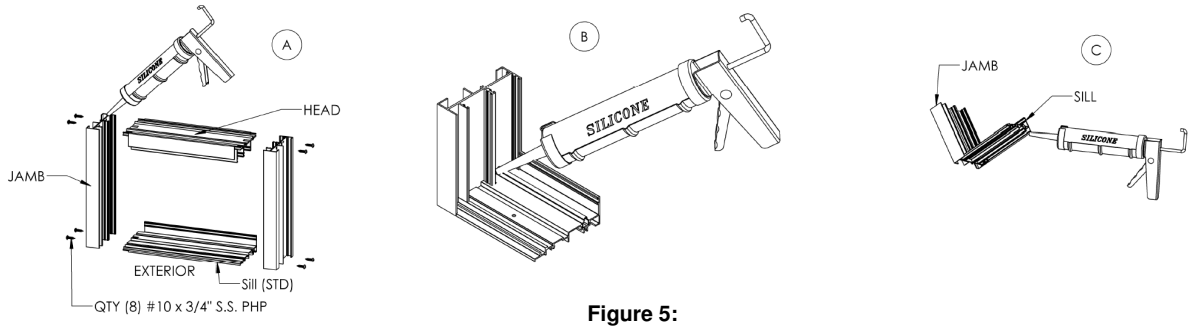


Figure 5:
Frame Joint Sealing

VIII. Frame Installation

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

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

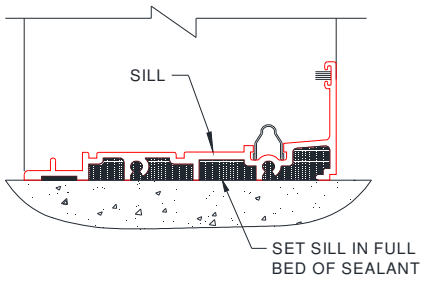


Figure 10:
Seal Sill to Subfloor

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 codes for anchor requirements.**

Block Frame:
Attach frame to structure as shown below. **Size and location of fasteners to be per local code**. Frame installation anchors furnished by installer, not by Fleetwood. Stainless steel screws are recommended.

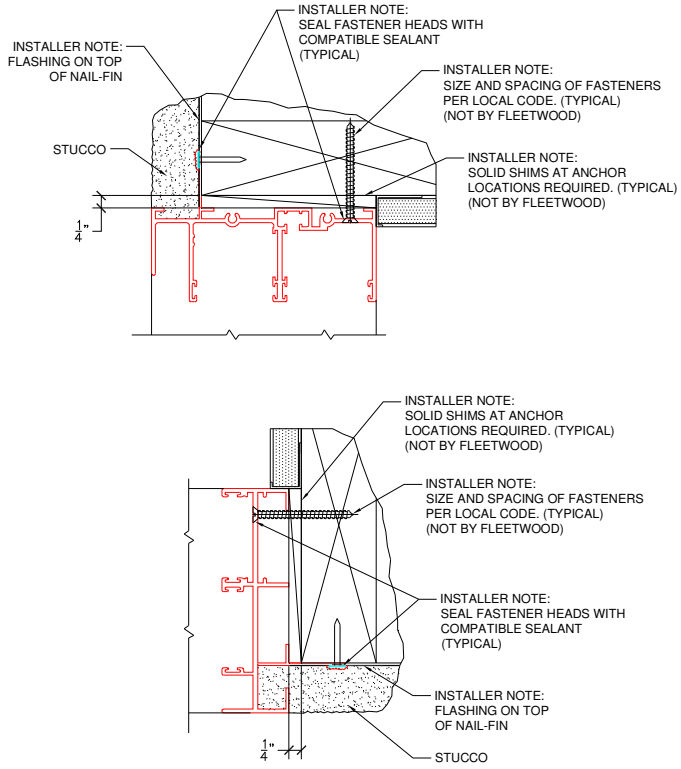


Figure 11:
Nail-fin Anchoring

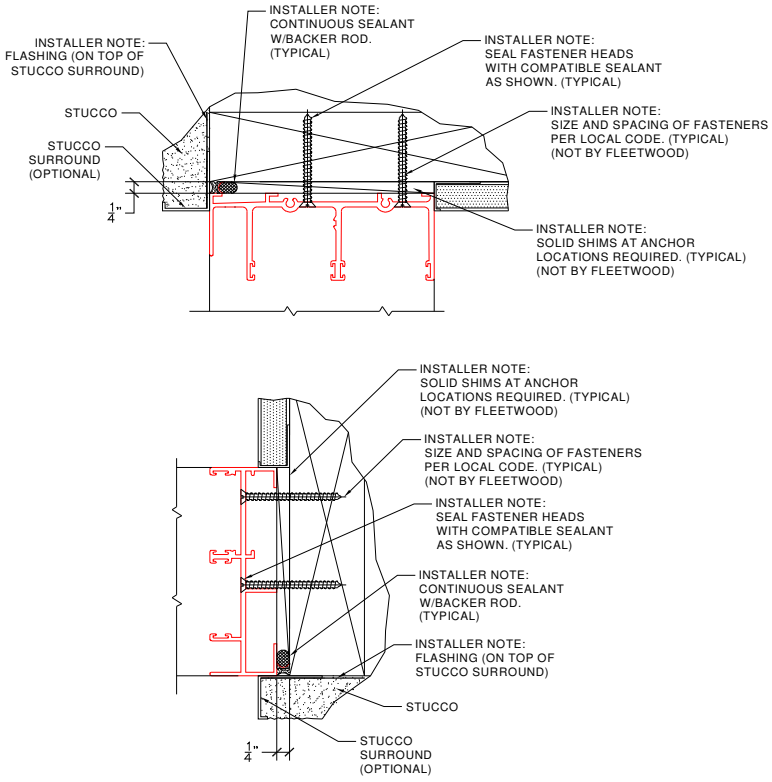


Figure 12:
Block Frame Anchoring

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 bottom vent vinyl firmly contacts sill. (Do not allow vinyl to curl)
3. Adjust latch to lock tightly & securely.

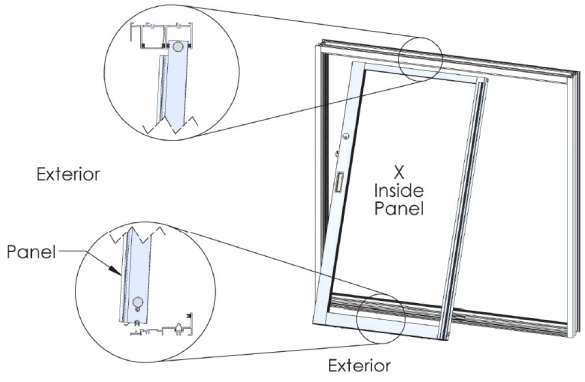


Figure 13:
"X" Panel Installation

"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 groove of the sill (Figure 14).
5. Lift and slide the fixed panel as far as possible into the fixed jamb over the sill block. Do not remove 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.

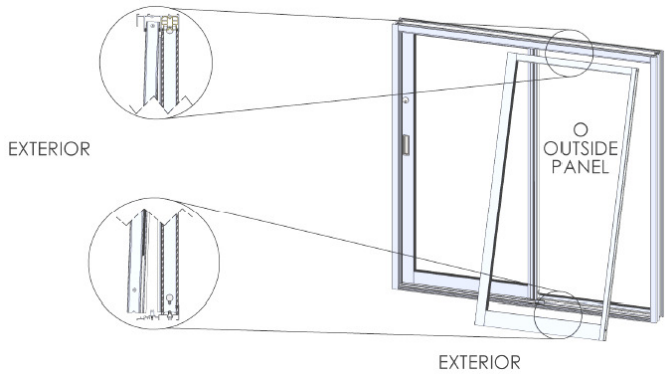


Figure 14:
"O" Panel Installation

Securing "O" Panel

7. Remove the bottom plug button. Insert one (1) #10 x2-1/2" pan head screw through the fixed interlock stile and into the sill block, as shown in Figure 15.
8. Trim plug button (Figure 16).
9. Insert modified plug into interlocker and install Head Closer (Figure 17 & 18).

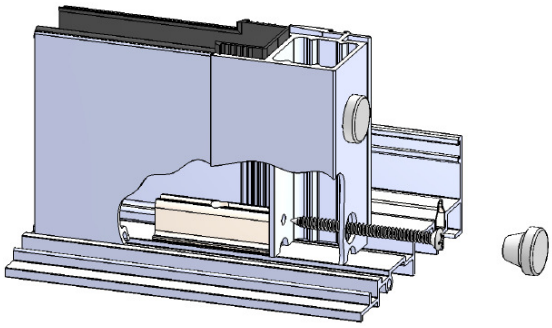


Figure 15:
Anchor Panel to Sill Block

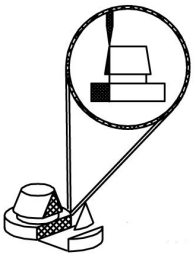


Figure 16:
Trim top Panel Plug

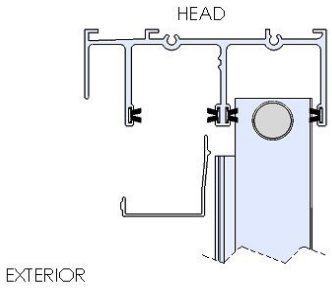


Figure 17:
Head Closer Installation

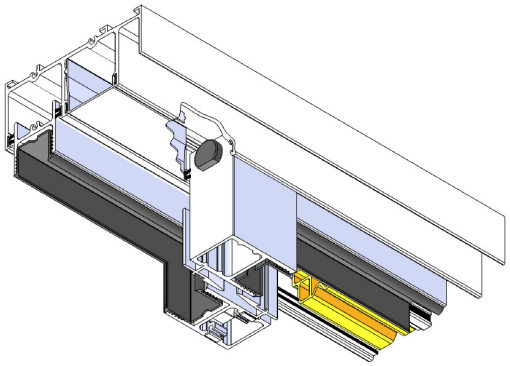


Figure 18:
Top Panel Plug and Head Closer installed

Head Bumper and Security Screw

10. Install rubber bumper into head of sliding panel track.
11. Install one (1) #8 x ¾" pan head 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).

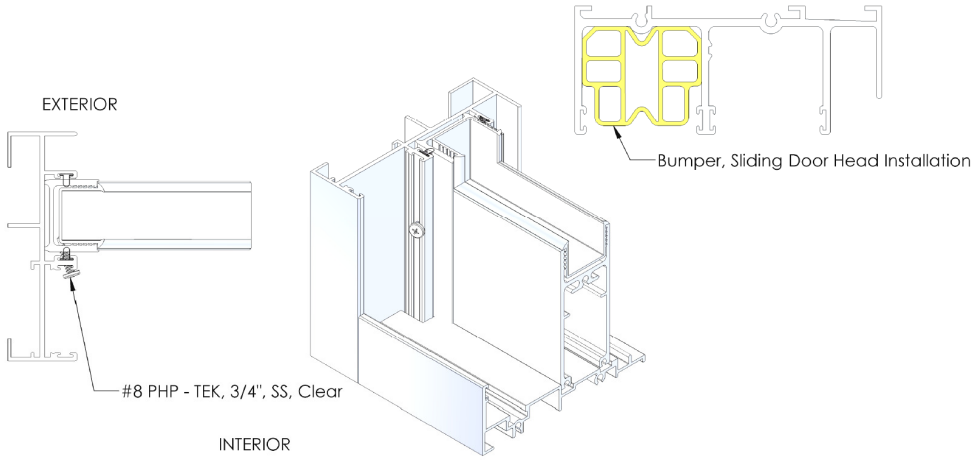


Figure 19:
Security Screw and Head Bumper installation

X. OXO (Note: OXOL Shown, OXOR Opposite)

1. Assemble and install the frame, as instructed. 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).

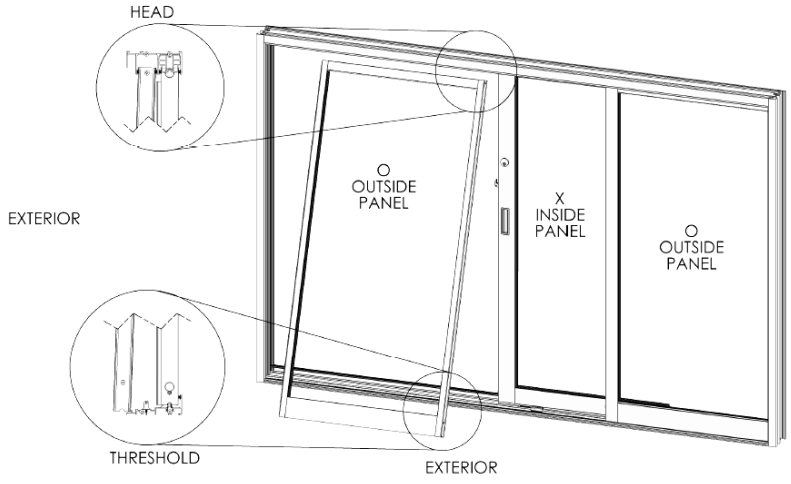


Figure 20:
Fixed Panel

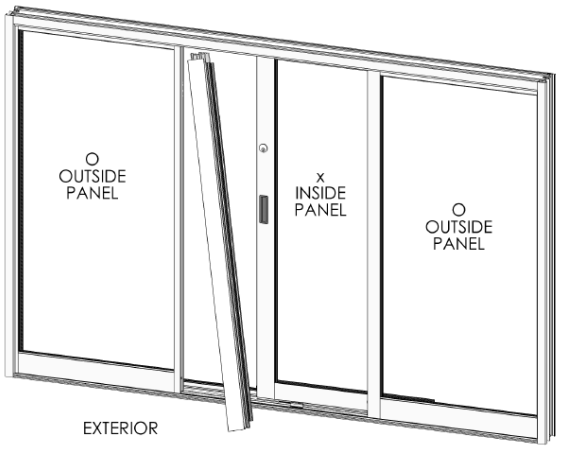


Figure 21:
False Jamb

3. Anchor False Jamb to the Frame and Structure

- Attach the false jamb to the sill block using a (1) #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 (1) #8 x 3/4" PHP TEK screw (Figure 24).

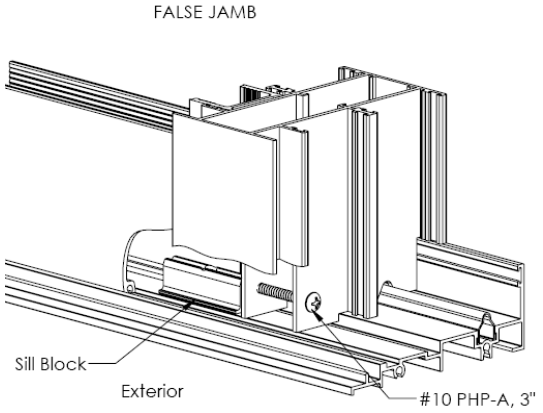


Figure 22:
Sill Block at False Jamb

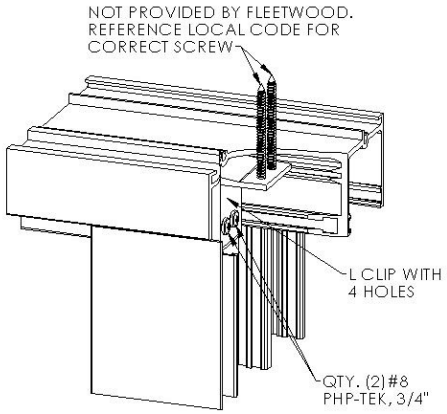


Figure 23:
"L" Bracket at False Jamb / Frame Head

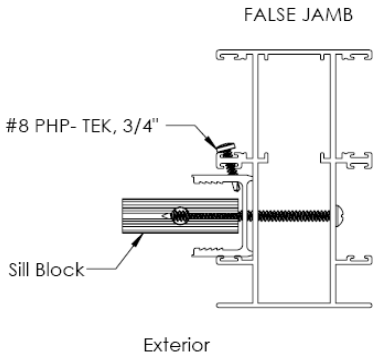


Figure 24:
Security screw at fixed panel and False Jamb

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

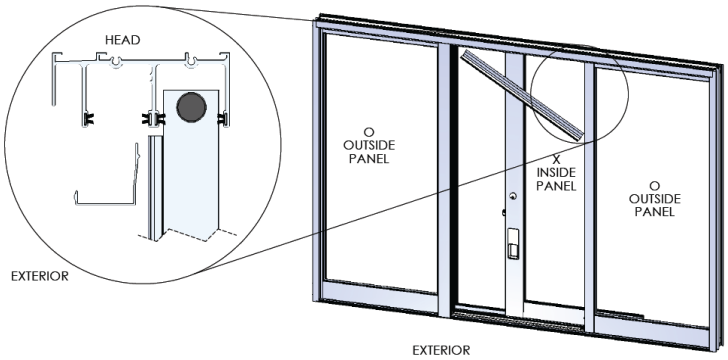


Figure 25:
Head Closer

XI. Screen Installation

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”.

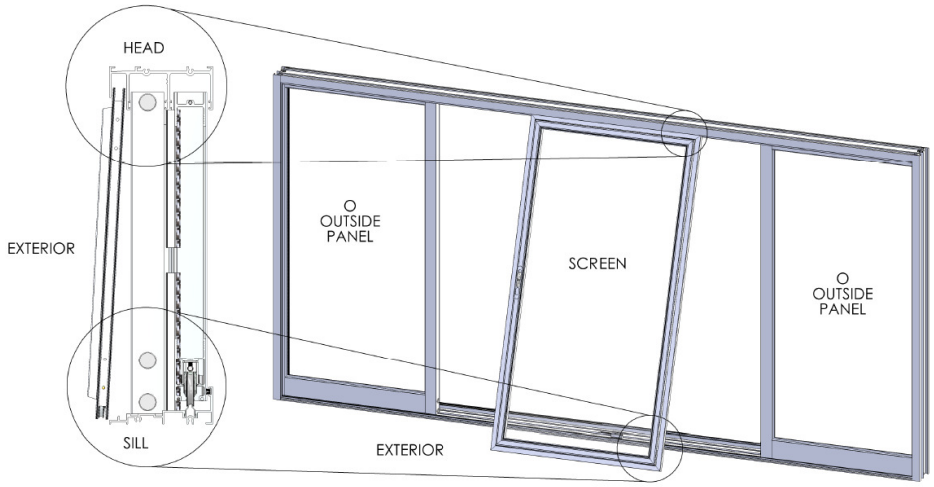


Figure 26:
Screen Installation

XII. Air Barrier (Optional)

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

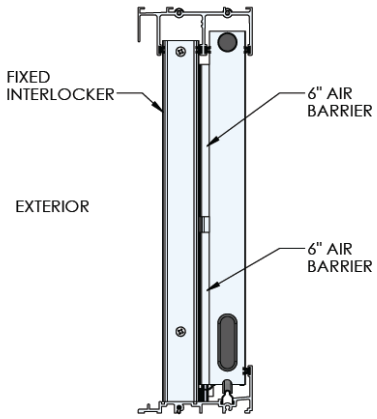


Figure 27:
Optional Air Barrier

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).

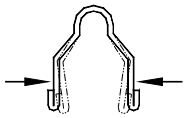


Figure 28:
Squeeze track

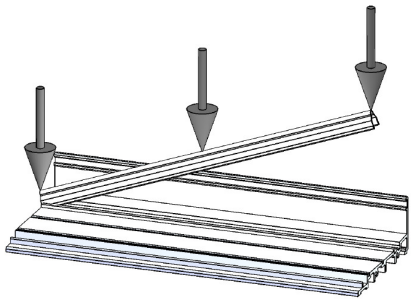


Figure 29:
Sill Track Installation

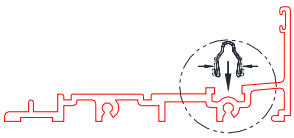


Figure 30:
Track (Typical)

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.

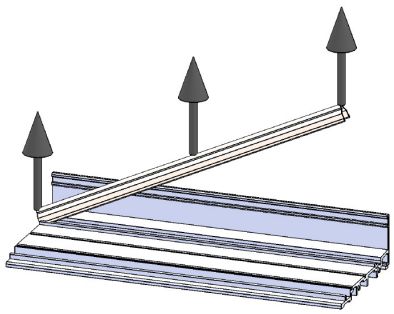


Figure 31:
Sill Track Removal

XV. OXIXO Panel Installation

1. Assemble and install the frame, as instructed.
2. Install the sliding and fixed panels as instructed.
3. Install the fixed panels into the center channel.
4. Push up and swing the bottom of the panel in and down into the grooves in the threshold (Figure 32).
5. Insert one (1) #10 x2-1/2” pan head screw through the fixed interlock stile and into the sill block (Figure 15).

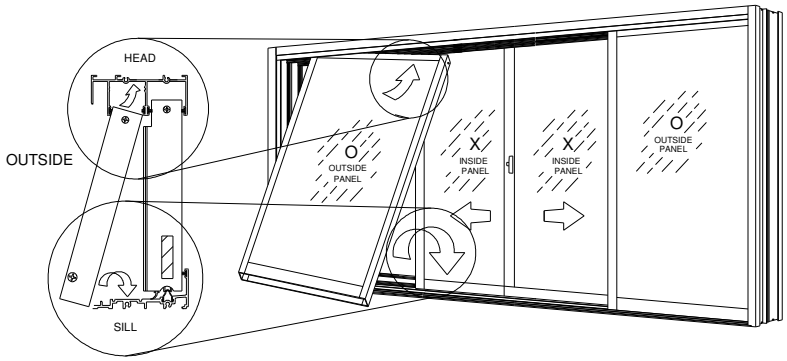


Figure 32:
Sill Track Removal

6. Seat the bottom rail vertical leg’s into the grooves in the threshold, by using a block of wood and hammer to drive the bottom rail legs into the grooves in the threshold.
7. Install the head closer between the two fixed panels (Figure 33).

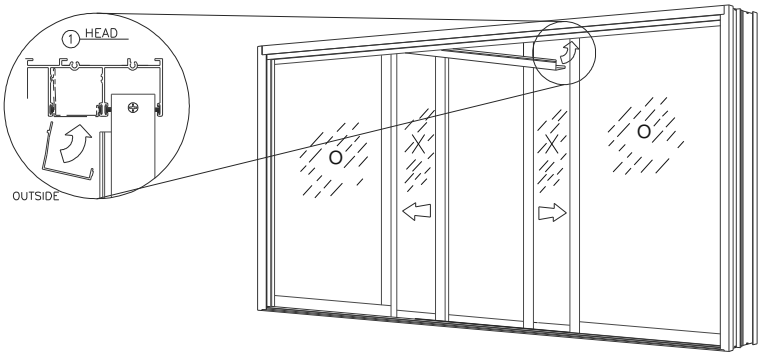


Figure 33:
OXIXO Head Closer

8. Install rubber bumper into head of interior panel track.
9. Install #8 x 3/4" pan head TEK security screw into the predrilled hole in the mohair channel (below the glass line), near to the bottom of the fixed jamb.

XVI. 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 34).
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 35).
4. Weather resistant building paper should be applied in a weatherboard fashion to complete the installation (Figure 36).

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.

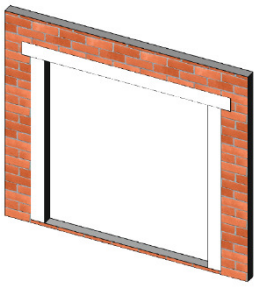


Figure 34:
Jamb flashing

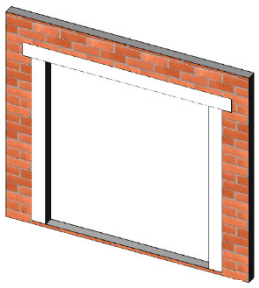


Figure 35:
Head Flashing

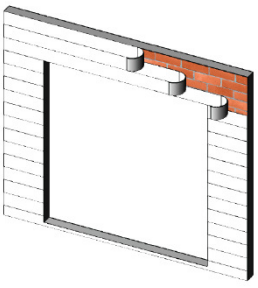
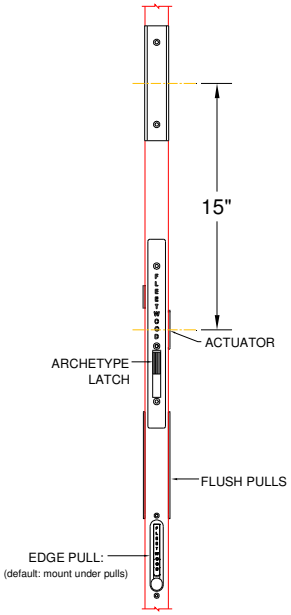


Figure 36:
Building Flashing

Appendix A: Magnetic Latch Instructions

ARCHETYPE



Basic Functions & Features

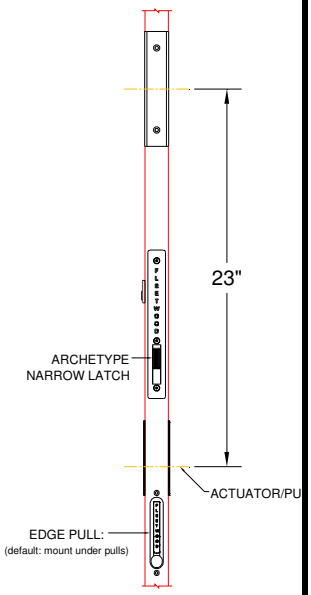
- Rofu 8406M magnetic lock.
- Automated locking when the door closes
  - The magnet is activated when the power source is connected and on.
- Remote access provided by home automation or user interface (not by Fleetwood)

Provided (located)

- An electromagnetic lock that is activated by a 24VDC or 12VDC power supply
- The magnet strike is located above the Archetype Hardware
- Fleetwood provides the Frame and Panel(s) fabricated to assemble the magnet and the magnetic strike into the door
- Wiring for the magnet is accessible from the backside of the active jamb
- The Archetype Narrow hardware is required for added security (i.e. power outages)
  - The magnetic lock should only be considered as a secondary lock, not the primary lock.

Note: The magnetic lock can only be located in the Jamb. Doors that lock with meeting stiles are not offered with magnetic locks.

ARCHETYPE
NARROW



Not Provided

- Power Supply: 24VDC or 12VDC is required.
- User Interface: Entry access system (e.g., keypad, biometric, etc.). The lock can be integrated with home automation systems or an electronic switch interface.

Retrofitting

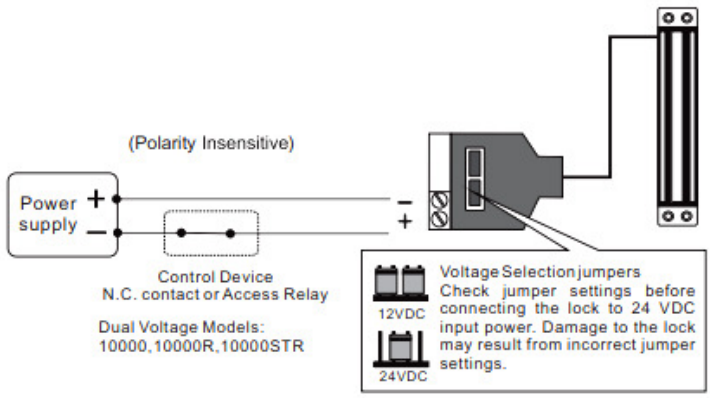
- Existing doors would require factory CNC fabrication. At a minimum, a new Locking Jamb and Lead Stile would be required.

Adjustment

- After adjusting the panels, the magnet in the jamb needs to make full contact with the strike located on the panel. Turning the screws (located on the magnet), will allow the magnet to move in and out from the jamb, adjust until the magnet forms a parallel contact with the strike on the panel.

Appendix A cont: Magnetic Latch Instructions

Connecting Diagram

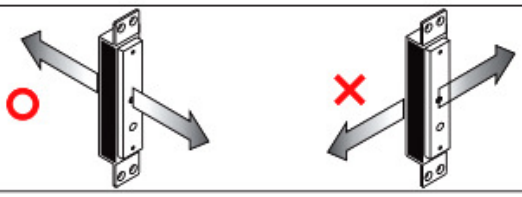


Butt Splice (DC) Connector

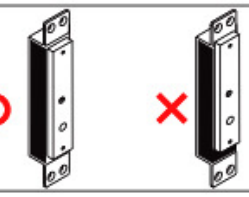
ROFU

Use crimper or pliers and press the header of connector down to even position

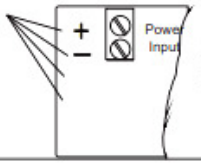
Important Note



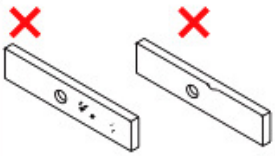
The 8406M requires a face-to-face alignment as shown in the far left figure. This magnet is NOT designed as a Shear Lock.



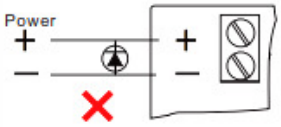
Ensure the surface area of the electromagnetic lock and the armature plate mate correctly or you will not get a good bond.



Ensure you notice the + and - although the unit is polarity insensitive.

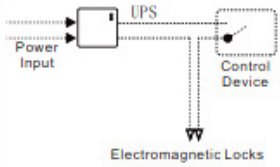


Ensure the face of the armature place and magnet are clean. Use a soft cloth to clean the surface. Never use anything abrasive to clean the magnet or armature plate.



Remove any diode installed across the magnetic lock for spike suppression. The magnet is built-in with a metal oxide varistor to prevent back EMF.

Wipe the surface of magnet lock with anti-rust oil regularly.



The electromagnetic locks are fail safe. Therefore it needs the power from UPS to remain locked during the power failure.