PREMIUM SERIES / CONTEMPORARY COLLECTION
Multi-Slide Patio Door Installation

Thank you for choosing Weather Shield Windows and Doors. These instructions will cover a typical installation of a multi slide door with an integral nailing fin. Instruction may not be right for all installations due to specific building conditions. Consult a contractor or architect for recommendations.

Important: Please read completely before you begin.

Multi-slide doors come in a wide array of configurations and sill types. Not all configurations and applications will be suitable for all environments. In general, it is highly recommended that Multi-Slide systems are installed in areas with sufficient overhangs as required to prevent water or air infiltration. The suggested overhang of the structure should match the height of the unit being installed. Failure to do so may result in structural damage to the surrounding area, finishes and/ or systems.

Multi-slide doors come in 2 variations, stacked and pocketing. On stacked units the panels will stack up behind the first and/or last panel in the door. On pocketing doors, the frame tracks will extend into a wall cavity so that when the panels are in the open position, they will be concealed into a wall cavity that keeps them out of the viewable opening of the door. Installation of pocketing multi-slide doors requires additional steps not covered in these instructions. Please refer to the Pocketing Multi-Slide Instruction Guide for full details.

Site Preparation Instructions

Multi-slide Doors in general can be some of the most time-consuming doors to install. But great care has been taken to make the Weather Shield Multi-slide Door one of the quickest and easiest to assemble. Opening Prep is critical to a successful installation, so take extra time to prepare and verify the opening prior to assembly of the door. Separate instructions for the preparation of the opening can be found at weathershield.com or use your phone to scan the QR code to the right.

Form 4030
2022 2-7

WEATHER SHIELD.
WINDOWS & DOORS

WARNING	WARNING
Doors can be extremely heavy. To avoid injury, use appropriate lifting techniques and adequate number of people to carry and install the product. Mechanical lifting assistance may be needed for larger panels and glass. Failure to do so can result in injury or damage to product or property.	Special care must be taken with units with protective glass film applied. **DO NOT** remove protective film near flammable materials. Static charge created when removing the film can ignite flammable materials or cause a shock. **DO NOT** place suction grips over film seams. Suction grips will not hold if placed over film seam to lift heavy glass or panels.
WARNING	**WARNING**
This product may contain chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm. For more information go to **www.P65Warnings.ca.gov**	This door is glazed with safety glass (tempered or laminated). If broken, glass must be replaced with safety glass in accordance with state and federal laws.

Tools and Supplies Needed

Tools

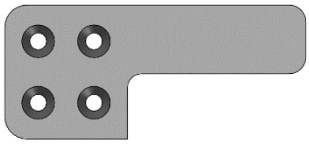
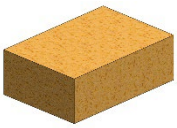
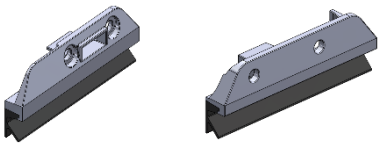
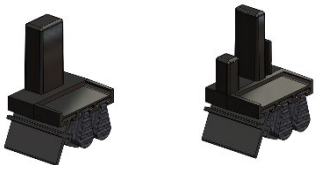
Measuring tape
Level (laser level works better for larger openings)
Speed Square
Rubber hammer
Power driver
Power drill
5/32” masonry drill bit (if on concrete slab)
1/8” drill bit
Utility knife
J-roller
Caulk gun
Glass suction cups (heavy load)
Pry bar

Installation Materials (not included)

4” Flashing tape
#8 x 2” flat head screws
High quality sealant
Shims
Low-expanding foam
Rigid sill pan
2 x 4 Studs to use as story poles (if necessary)

PREMIUM SERIES / CONTEMPORARY COLLECTION
Multi-Slide Patio Door Installation

INCLUDED PARTS – Hardware Packs

 A Qty. (50) #10 x 2-1/2" Pan Head #1309240 Frame & Stat Panel Install	 **B** Qty. (2) #8 x 2 1/2" Pan Head #971632 Frame Clad to Sill Nose	 **C** Qty. (10) 3/16" x 2-1/4" Concrete #1303080 Sill Installation
 D Qty. (4) #8 x 2-1/2" Flat Head #1019541 Through Keeper into frame	 **E** Qty. (10) #8 x 1-1/2" Pan Head #944754 Through Side Jamb to Sill	 **F** Qty. (8) #6 x 1-1/2" Flat Head #1152965 Stat. Panel Clip to Panel
 G Qty. (4) Corner Key Screw #1307286 Frame Corner Key	 **H** Qty. (20) Corner Key Retainer Clip #1308014 Frame Corner Key	 **I** Qty. (2) 1/4" Hole Plug #982045 Corner Injection Plug
 J Qty. (1) 1/4" #25 Torx Bit #1309756 For Corner Key Screw	 **K** Qty. (4/Plate) #8 x 1-1/4" Flt Head #9060076 Collector Plate Screws	 Qty. (0-8 based on number of panels) #943697 Collector Plate
 L 3/8" x 1-1/2" Lag Bolt Closure Board Bolt	 **M** Qty (2/Flap) #8 x 3/4" Flat Head #971863	 Head Track Cover Foam Block one per cover #1309158
 Cladding Corner Key – Qty 2 #1307285 Corner Key	 Interior Exterior Panel End Flap – 1 pair / panel (Roller Adjustment Covers)	 Interior Exterior Interlock Block Seals – 1 pair / panel

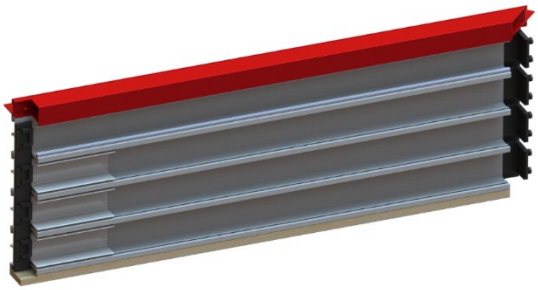
INCLUDED PARTS – Frame / Panel Components

Head Jamb

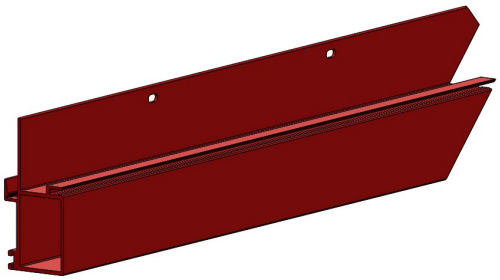
Sill

Strike Jamb

Fixed Jamb

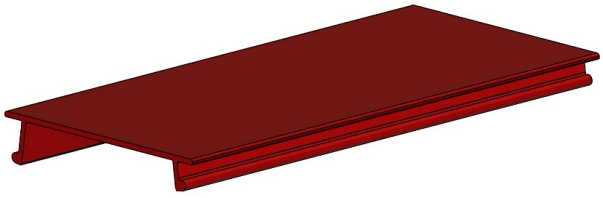


Pocket Interlock(s) [B]

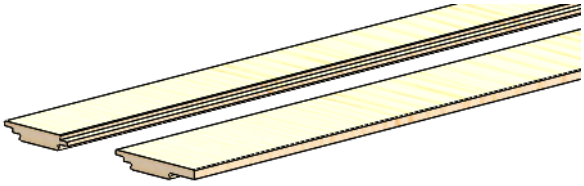


Panel Interlock and Closure Board(s) [B]

Exterior Aluminum Cover(s)

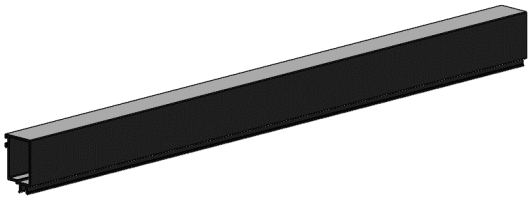


Interior Wood Cover(s) [A]

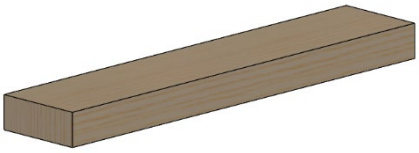


INCLUDED PARTS – Frame / Panel Components (Continued)

Sill Riser (height will vary)

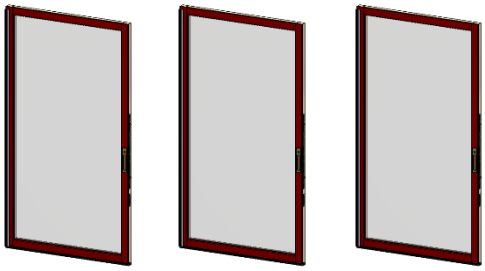


Stationary Panel Head Block(s) [A]



Handle Set Pack (Boxed)

Door Panel(s)



Installation Instructions
(included w/ fasteners)

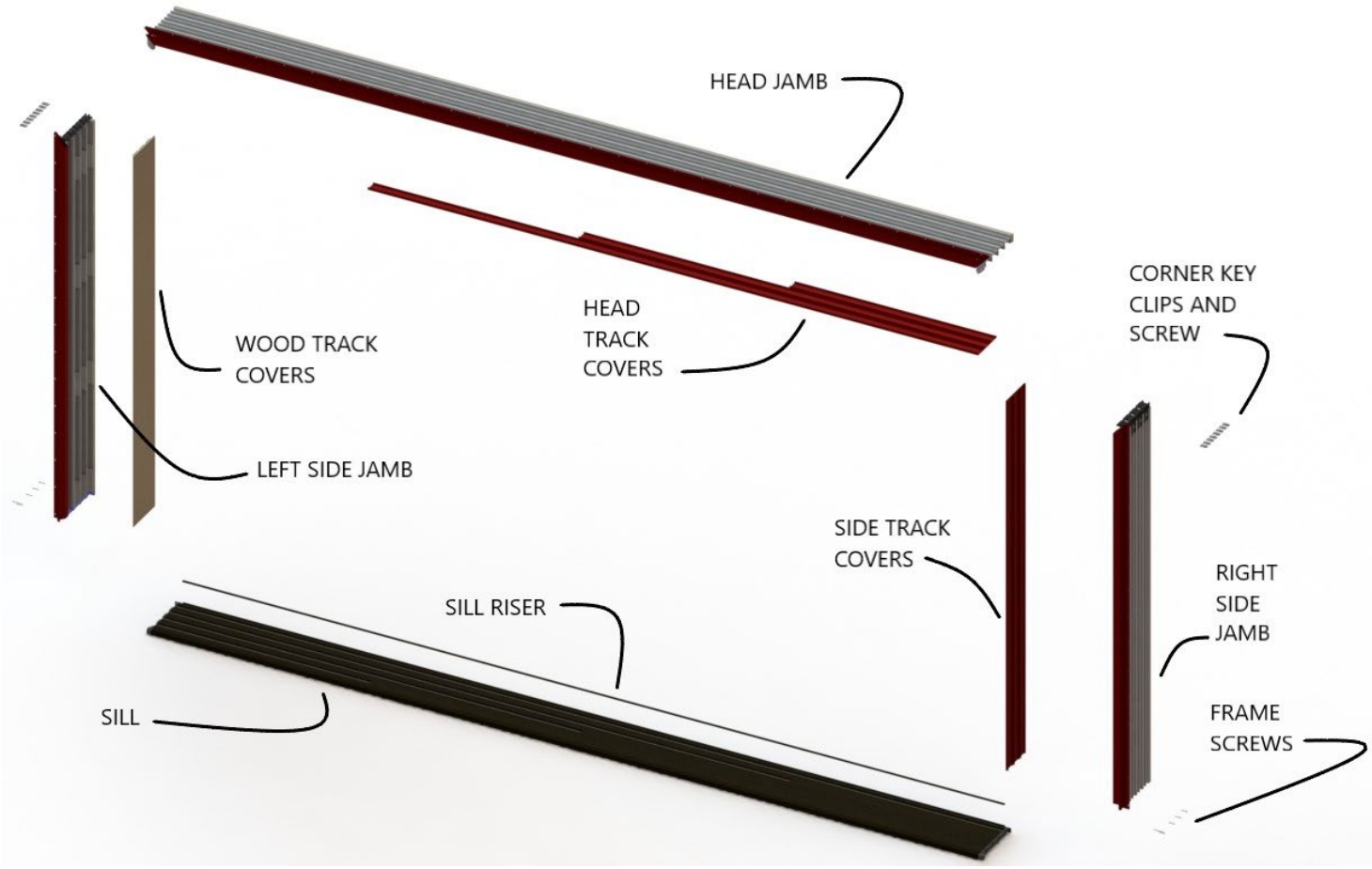
[A] Not included with Pocket Door

KD FRAME ASSEMBLY INSTRUCTIONS – STACKED FRAME

For assembly instructions for pocket doors see page 9.

EXPLODED VIEW PARTS PLACEMENT

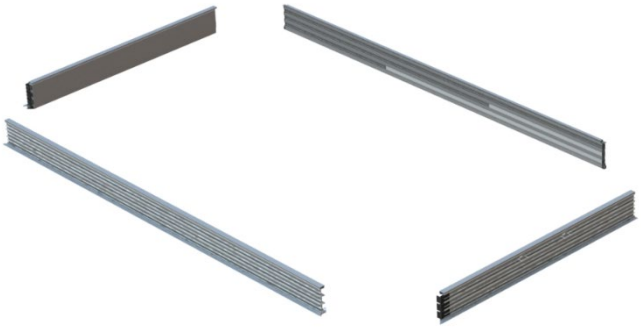
Stacked Config (OXXX Handing Shown)



Due to their excessive size and weight, Multi-Slide doors will be shipped with the frames knocked down (KD). These frames will need to be assembled on site. Make sure you have adequate room to assemble the full door frame to the exterior of the opening.

KD FRAME ASSEMBLY INSTRUCTIONS – STACKED FRAME

1 PREPARATION OF FRAME PARTS

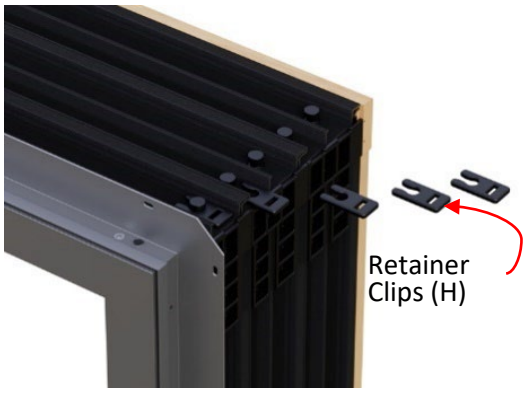


Lay parts out on the ground exterior side down. Use cardboard or other padding to protect them from damage. The final assembled frame will need to be tipped up and placed in the opening. Orienting the door sill nearest the opening will allow for easy placement during this step.

2 JAMB TO HEAD ATTACHMENT

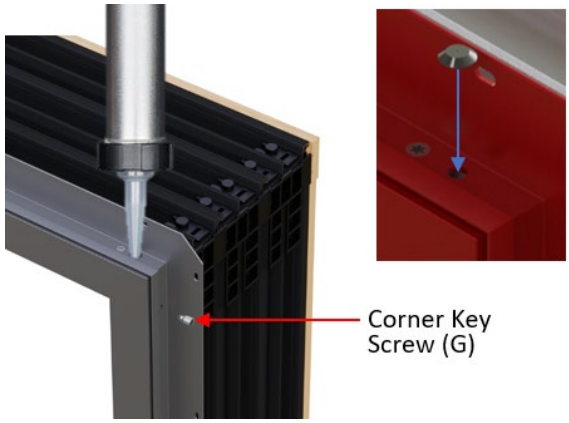
Starting with the assembly of the side jambs to the head jamb. Attach the head jamb to the top of the side jamb by lining up the holes in the head jamb with the pegs on the top of the side jamb. Slide the corner keys into the aluminum cladding cavity on the side jambs.

3 JAMB TO HEAD ATTACHMENT



With the frame corner connected, lock the frame corner together by applying the Retainer Clips (H). The clips are applied by pushing the open end of the clip against the exposed pegs until they snap into place. Use one clip for each peg.

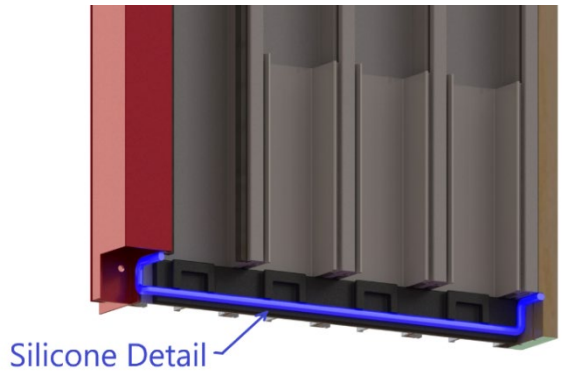
4 JAMB TO HEAD ATTACHMENT



Add the corner key screw (G) into the open holes on the cladding using the provided Torx bit driver (J).

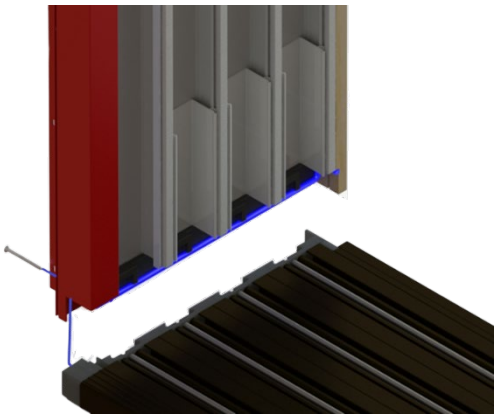
Inject silicone into the open hole in the head jamb cladding to seal the corner. Fill until silicone starts to come out the hole or the miter of the cladding. Cover injection hole with rubber hole plug (I).

5 JAMB TO SILL ATTACHMENT



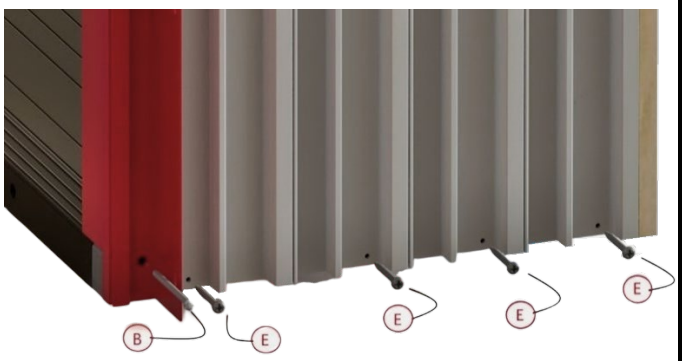
Add ¼" continuous bead of silicone to the end cap on the side jamb.

6 JAMB TO SILL ATTACHMENT



Slide the side jambs and sill together so that the dovetail endcaps interlock.

7 JAMB TO SILL ATTACHMENT



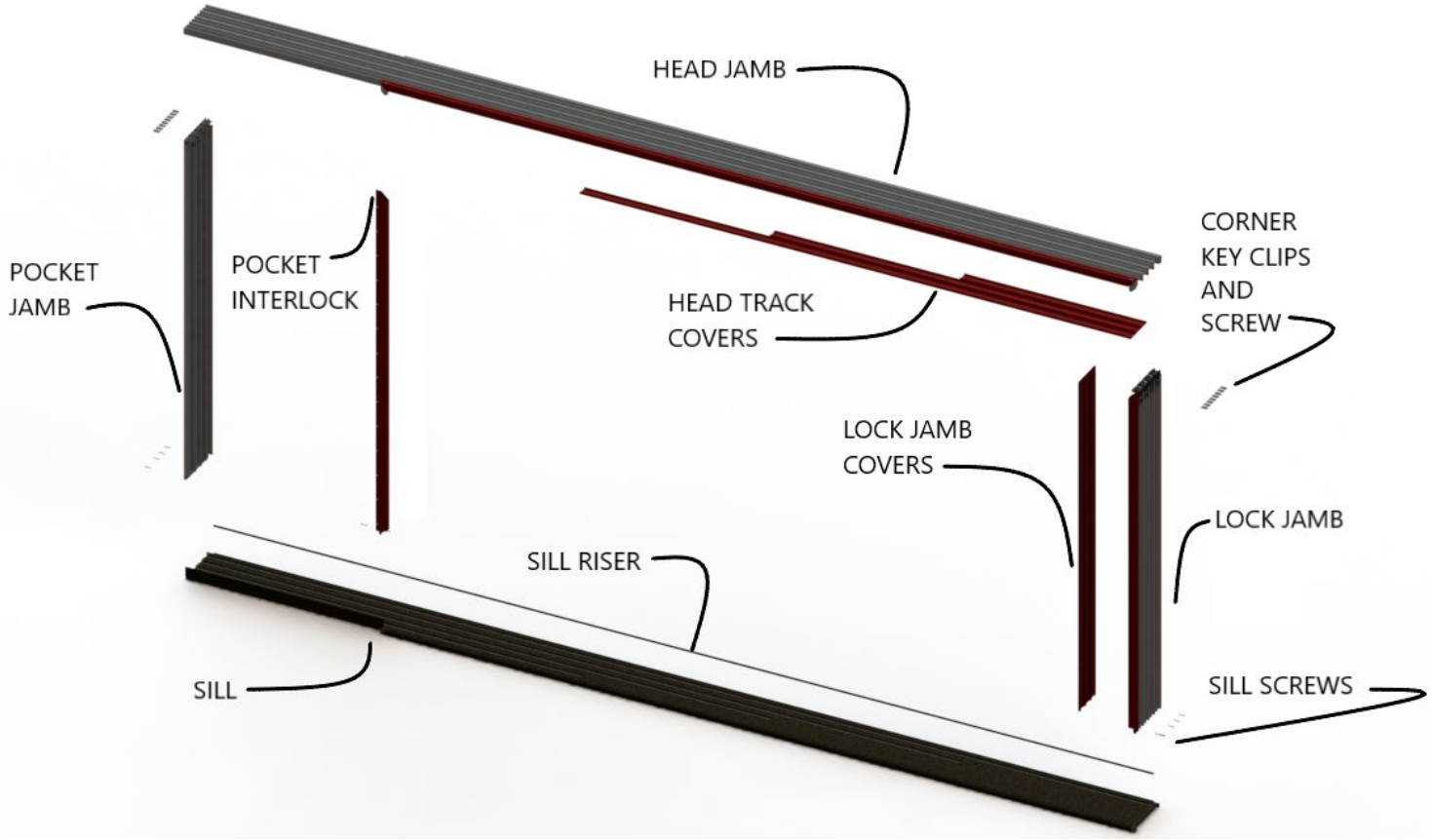
Add Screw (B) through the side jamb cladding into the sill nose screw boss. Screw (E) (one per track) into the predrilled holes in the fiberglass jambs.

Repeat the steps for the opposite corner.

KD FRAME ASSEMBLY INSTRUCTIONS – POCKET FRAME

EXPLODED VIEW PARTS PLACEMENT

Pocketing Config. (PXXXX Handing Shown)



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KD FRAME ASSEMBLY INSTRUCTIONS – POCKET FRAME

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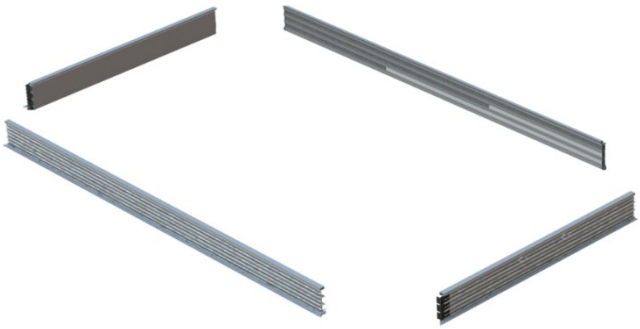

Lay parts out on the ground exterior side down. Use cardboard or other padding to protect them from damage. The final assembled frame will need to be tipped up and placed in the opening. Orienting the door sill nearest the opening will allow for easy placement during this step.

2 JAMB TO HEAD ATTACHMENT

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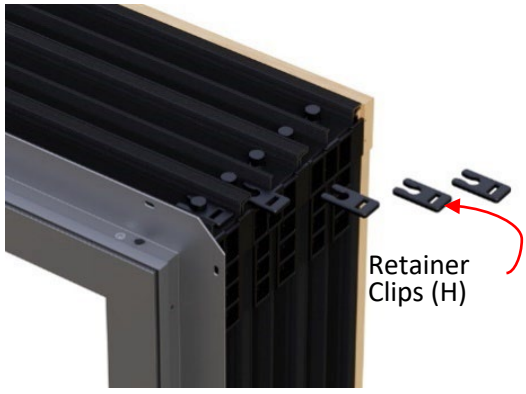
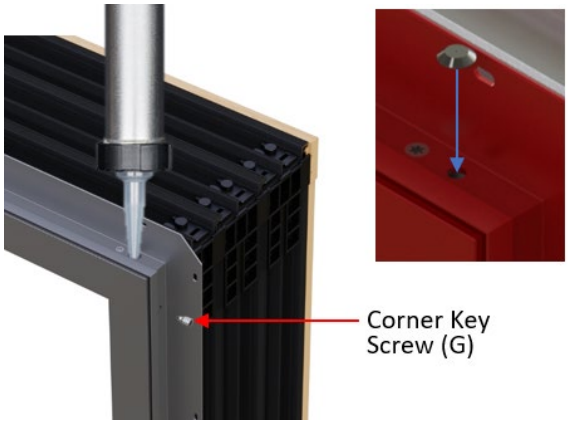
3 JAMB TO HEAD ATTACHMENT



With the frame corner connected, lock the frame corner together by applying the Retainer Clips (H). The clips are applied by pushing the open end of the clip against the exposed pegs until they snap into place. Use one clip for each peg.

4 JAMB TO HEAD ATTACHMENT



Add the corner key screw (G) into the open holes on the cladding using the provided Torx bit driver (J).

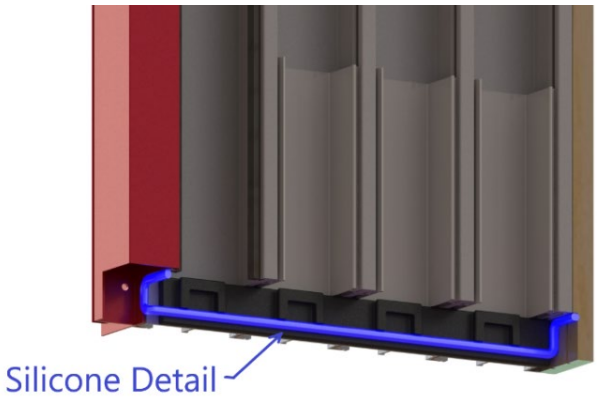
Inject silicone into the open hole in the head jamb cladding to seal the corner. Fill until silicone starts to come out the hole or the miter of the cladding. Cover injection hole with rubber hole plug (I).

5 FRAME INTERLOCK ATTACHMENT

Add the corner key screw (G) into the open hole on the side jamb cladding using the provided Torx bit driver (J).

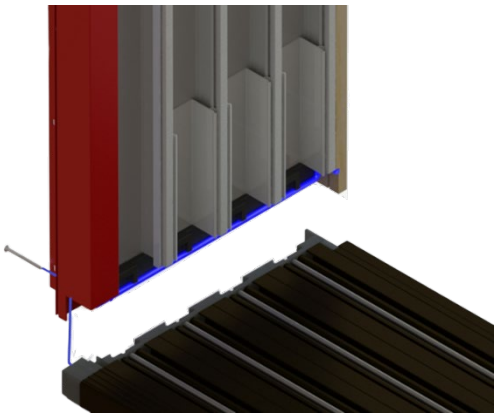
Inject silicone into the open hole in the head jamb cladding to seal the corner. Fill until silicone starts to come out the hole or the miter of the cladding. Cover injection hole with rubber hole plug (I).

6 JAMB TO SILL ATTACHMENT



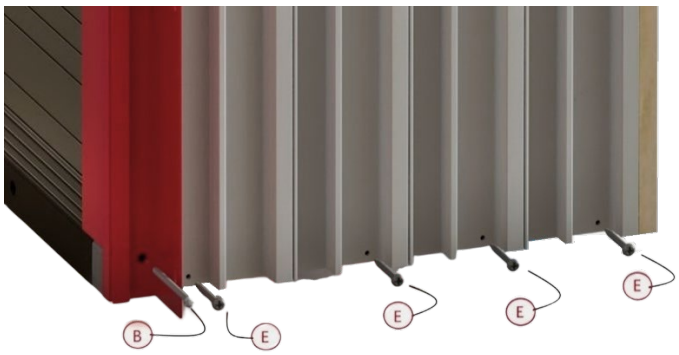
Add ¼" continuous bead of silicone to the end cap on the side jamb.

7 JAMB TO SILL ATTACHMENT



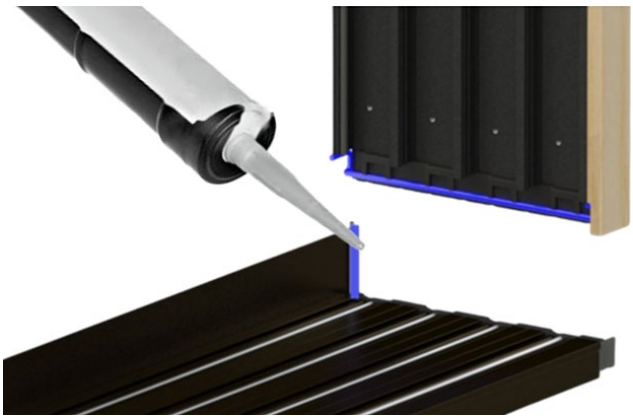
Slide the side jambs and sill together so that the dovetail endcaps interlock.

8 JAMB TO SILL ATTACHMENT



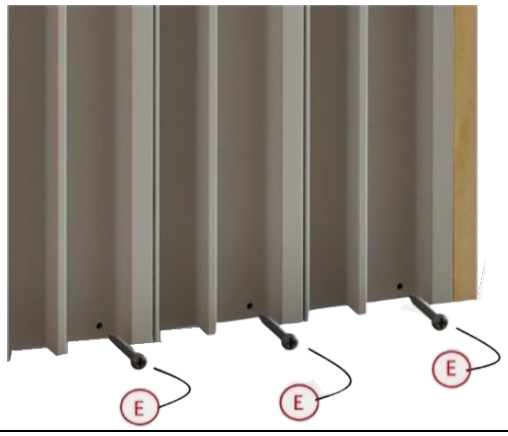
Add Screw (B) through the side jamb cladding into the sill nose screw boss. Screw (E) (one per track) into the predrilled holes in the fiberglass jambs.

9 JAMB TO SILL ATTACHMENT IN POCKET



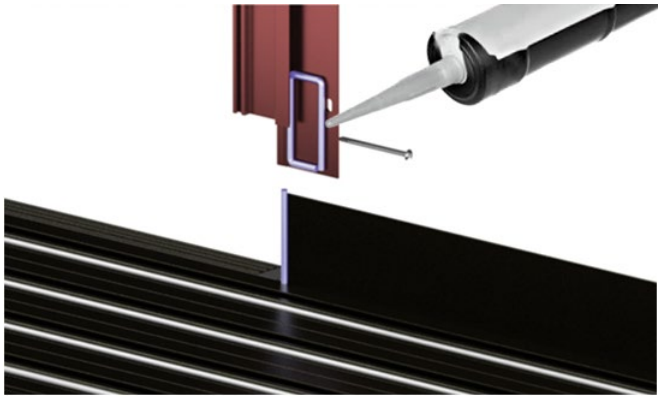
On the pocket side jamb add 1/4” bead of silicone to the end cap on the side jamb and up the inside edge of the sill dam.

10 JAMB TO SILL ATTACHMENT



Add screw (E) (one per track) into the predrilled holes in the fiberglass jambs.

11 FRAME INTERLOCK ATTACHMENT TO SILL



Attached the interlock cladding to the sill by first applying a ¼” bead of silicone to the interior side cladding up 3” and into the interlock. Also add a ¼” bead of silicone on the inside edge of the sill dam.

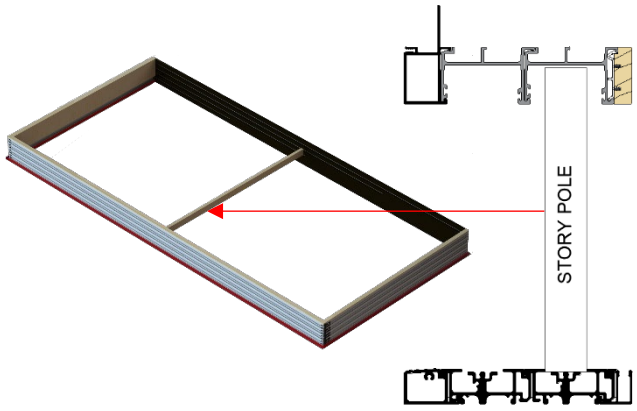
12 FRAME INTERLOCK ATTACHMENT TO SILL

Apply sealant to the nosing on the sill. Add screw (B) through the predrilled hole in the cladding into the nosing on the sill.

SETTING AND FASTENING THE FRAME IN THE OPENING

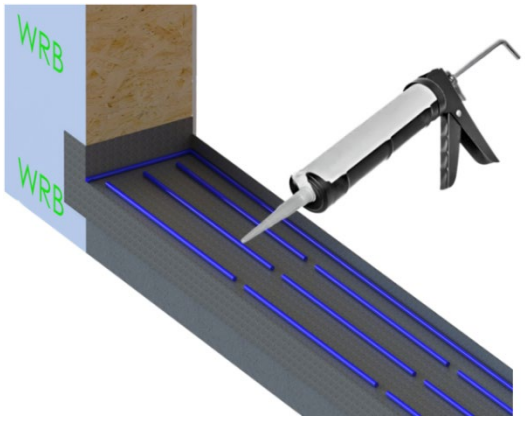
For proper water management it is recommended that multi-slide door systems be stalled with a sill pan in accordance with ASTM E2112. Weather Shield recommends a Type I, Rigid Sheet option for best results. Before installing the frame into the wall, make sure the steps outlined in the Site Preparation guide are fully completed.

1 FRAME PREPARATION



With the frame assembled insert a “story pole” between the sill and the head jamb. This will help hold the head jamb in place until the frame is fully secured to the opening.

2 SILL SEALANT

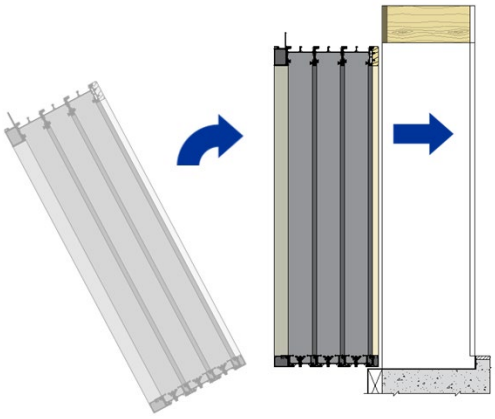


Apply a continuous 3/8” bead of polyurethane sealant to the corner of the side and back dams of the sill pan. Add three rows of sealant the full width of the door leaving 2” gaps approximately every two feet.

3 FRAME SEALANT

Apply a continuous 3/8” bead of sealant to the backside of the jamb and head nailing fins. Keep sealant in line with the pre-punched nailing fin holes.

4 FRAME INSERTION

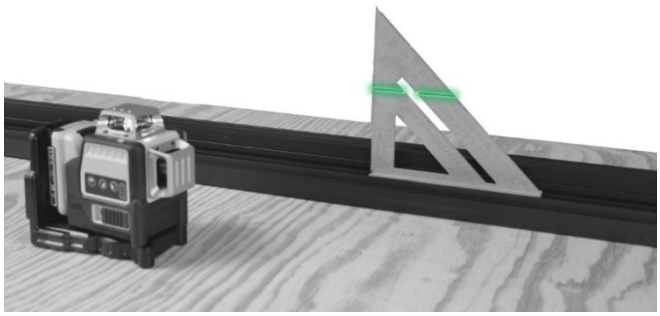


Starting with the sill, place the door frame in the opening making sure to firmly seat the sill in the sealant. Center the door in the opening and tilt the door into position. DO NOT slide the door into the opening for this will damage the sealant lines.

5 SECURE FRAME

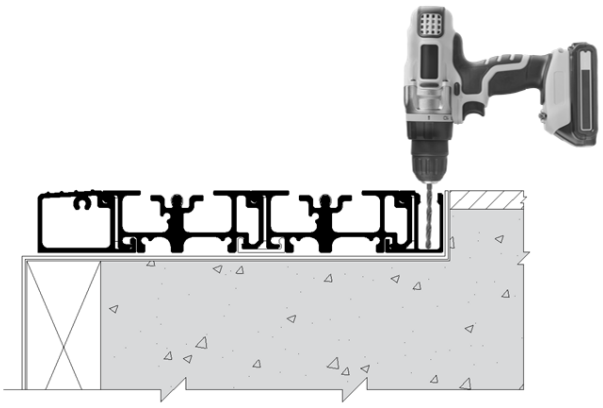
With the door centered in the opening, place a screw in each of the corners to temporarily hold the door as you level the sill.

6 LEVEL SILL



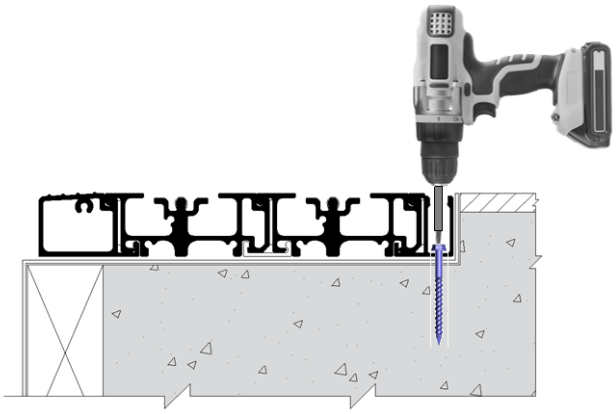
Level the sill using a laser level. If necessary, add flat, non-compressible shims as needed to correct any issues.

7 SECURE SILL



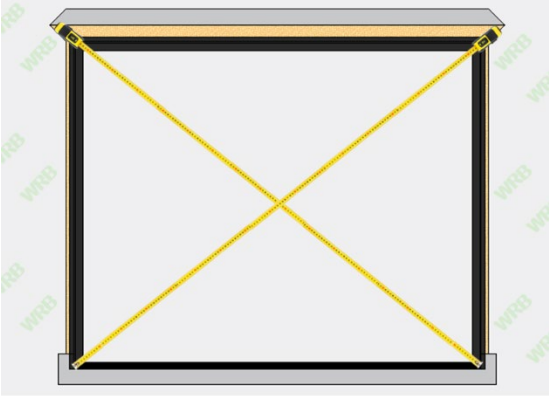
If the sill needs to be secured to the floor, predrill the sill through the interior channel into the sub-floor using a 5/32” bit. Remove any debris from around the hole.

8 SECURE SILL



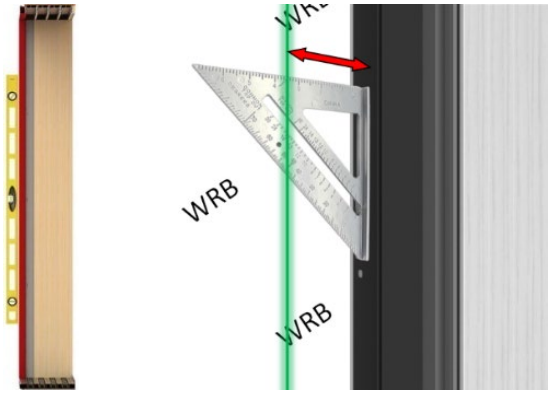
Inject the hole with silicone and apply provided 3/16” x 2-1/2” screws (Type C). Cover screw heads with additional silicone.

9 SQUARE THE FRAME



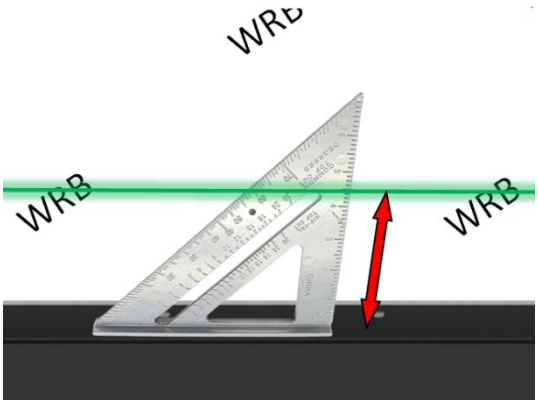
Make sure the frame is square by taking diagonal measurements. Shim frame as needed until diagonal measurements are within 1/8”

10 PLUMB THE FRAME



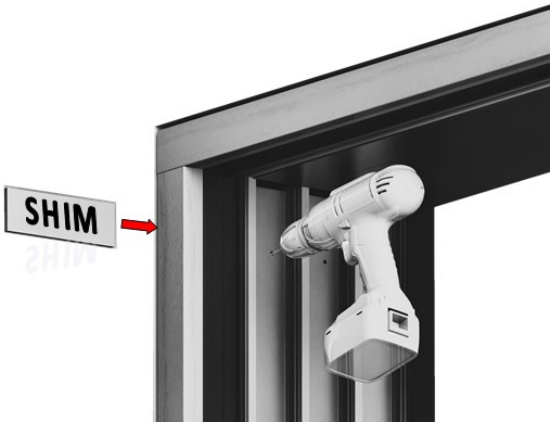
Plumb each side jamb using a long bubble level. Once jamb is plumb check that it is straight using a laser level and speed square. Screw through the pre-punched holes in the nailing fin using #8 x 2” flat head screws. Start at the bottom and work your way up checking for plumb and straight as you go. Positions screws 4” from each corner and every 4”-8” on center.

11 SQUARE THE FRAME



Level the head jamb by using a laser and speed square. Once jamb is square, screw through the pre-punched holes in the nailing fin using #8 x 2” flat head screws. Start in the center and work outward to the end.

12 PLUMB THE FRAME



Jambs are predrilled for fasteners. Secure jambs and head through the predrilled holes using provided #10 x 2-1/2” pan head screws (Type A). Shim at all hole locations to avoid bowing the frame.

INSTALLAING THE PANELS

Depending on the code of the door (panels will be labeled accordingly to ensure they are installed in the correct location in each door frame. Shown is an example of an 8-panel bi-parting door with 4 panels stacking on the left and 4 on the right. A sheet will be included with the installation hardware that depicts your exact door configuration, please refer to it prior to installing your door panels.

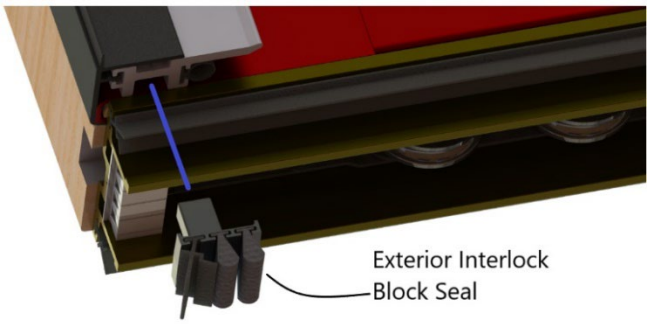
ATTENTION

Procedures below are based on installing the panels from the interior. For exterior installation, reverse the order of the panels with the interior most panels going in first.

⚠ WARNING

To avoid injury, use appropriate lifting techniques and adequate number of people to install panels. Mechanical lifting assistance may be needed for larger panels.

1 PANEL PREPARATION



Prior to installing panels, insert the interlock blocks into the ends of the interlocks (if the panel has interlocks). The interlock blocks slide into the sill ends of the Interlocks.

2 INSTALLING PANELS

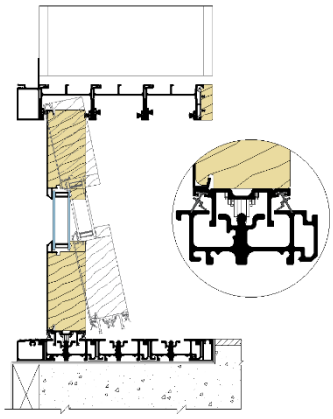
The panels are numbered in sequence that they should be installed. Installing the panels from the interior, the 1st panel should be placed in the track furthest to the exterior.

3 STATIONARY PANEL PREPARATION

STACKED DOOR ONLY

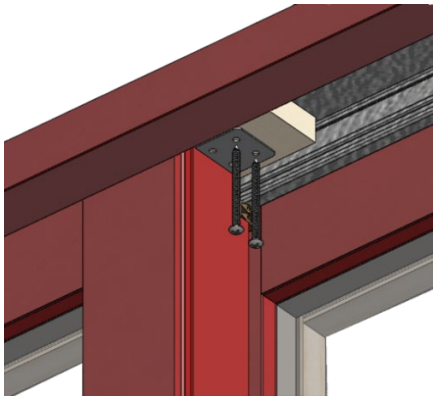
Before installing the stationary panel, the mounting clip on the top edge of the panel will need to be rotated so that it hangs out over the edge of the panel. Attach the clip with provided four number (4) 6 x 1-1/2" flat head screws (Type F).

4 INSTALLING PANELS



To install panel, hold the panel at an angle toward the head track, and insert the top of the panel into the outer most head track. Swing the bottom of the panel inward until it is parallel with the top and sits with the wheels on the corresponding sill. Gently lowering on to the roller track. Do not scrape the panel bottom over the sill. Repeat procedure until all panels are installed.

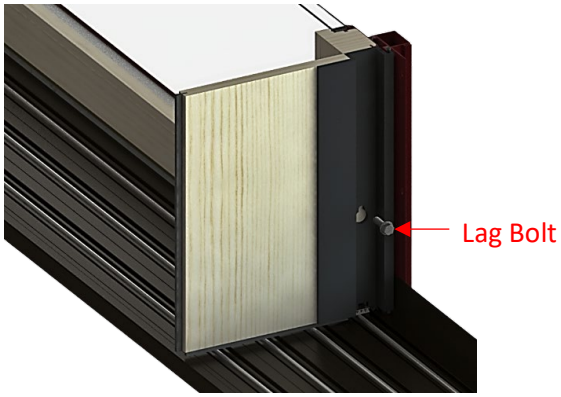
5 STATIONARY PANEL INSTALLATION



STACKED DOORS ONLY

Roll the stationary panel to ensure the roller is sitting properly on the sill track. Slide the panel tightly against the side jamb. Secure the panel into place by inserting the provided wood filler block between the clip and the head jamb. Using 1/8" drill bit, drill two pilot holes through the wood block and frame. Secure the panel in place by fastening the head clip through the wood block using two number (2) 10 x 2-1/2" Pan head screws (Type A).

6 POCKET CLOSURE BOARD INSTALLATION

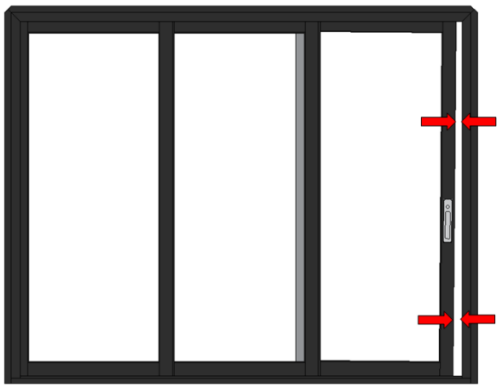


POCKET DOORS ONLY

The exterior most panel that is closest to the pocket (panel L1 and/or R1) will have a metal interlock along with a wood closure board. After the panel have been installed, install provided 3/8" x 1-1/2" lag bolts (Type L) into the pre-drilled holes on the back edge of the panel. Leave them so they are sticking out 5/16". Push the exterior most panel so that it is halfway into the pocket. Slide the pocket interlock over the bolt heads and tighten down in place.

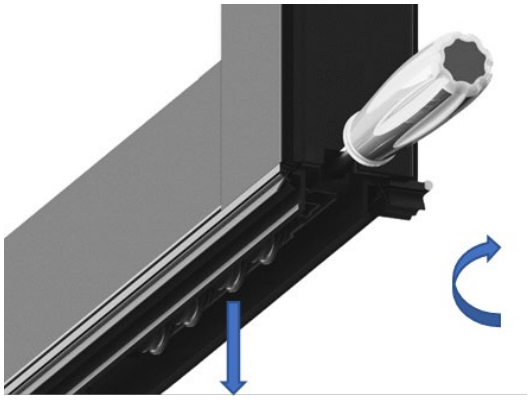
ADJUSTING PANELS

1 ADJUSTING THE LEAD PANEL



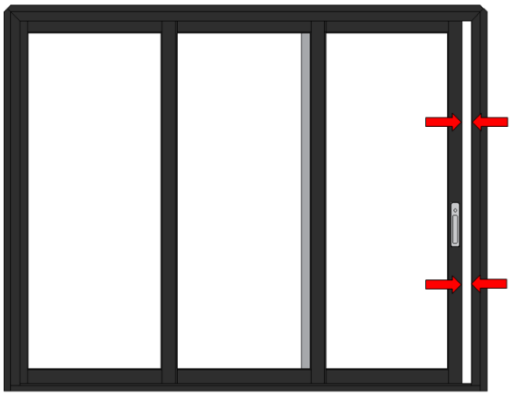
Slide the lead panel toward the locking jamb until there is a slight gap. Check for an even gap between the panel and jamb. If uneven, follow step 2 procedure to adjust panel rollers up or down.

2 ADJUSTING THE ROLLERS



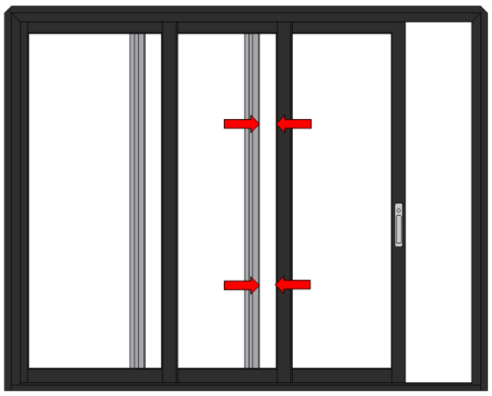
Each panel is equipped with two sets of adjustable quad rollers. The rollers can be adjusted by inserting a 3/16" (5mm) hex wrench into the access hole on the sill end of the panel. Rotate the adjustment screw clockwise to raise the panels and counterclockwise to lower panel. For heavier panels you may need to relieve the weight on the rollers to adjust. Place a block of wood on the sill and lift the end of the panel using a prybar.

3 ADJUSTING THE LEAD PANEL



Recheck the reveal and make sure it is even. Repeat step two if necessary.

4 PANEL ADJUSTMENTS



With the lead panel properly adjusted move on to the second panel. Separate the panels so you can see daylight through the glass between the stiles. Adjust the rollers on the second panel until the reveal is even. Repeat for additional panels.

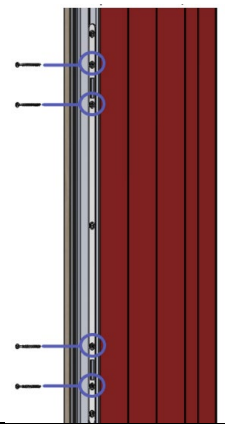
FINISHED PARTS INSTALLATION

1 INSTALLING THE HANDLE SET

Install the flush mounted pull handle per the instruction included with the handle packaging. If panel does not lock properly, adjust lead panel for proper engagement.

2 ADJUSTING THE ROLLERS

Type D Screw



For doors that lock into the jamb, the lock strike plate will need to have short screws replaced with longer ones for added security. Starting at the top replace screws 2, 3, 5 and 6 with a provided #8 x 2-1/2" flat head screw (Type D).

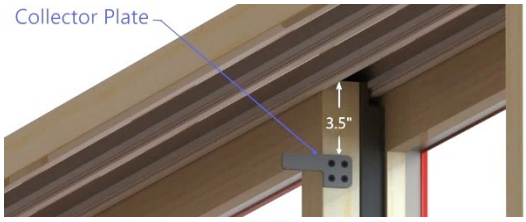
3 INSTALLING ADJUSTMENT HOLE END CAPS

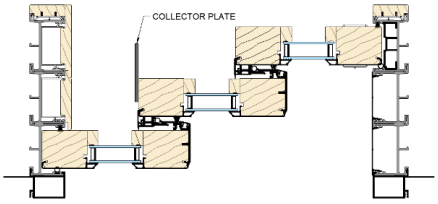
Exterior Panel Cap

Interior Panel Cap

Install the interior and exterior adjustment hole end caps using provided #8 x ¾" flat head screws (Type M).

4 INSTALLING PANEL COLLECTORS

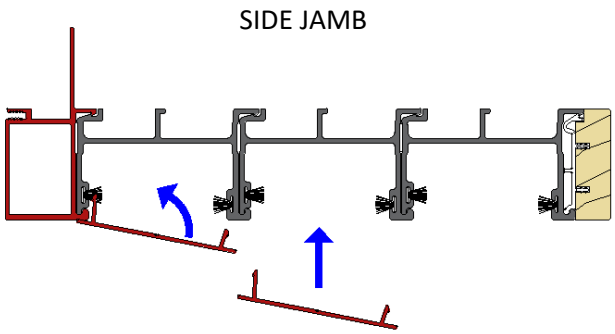




Doors with more than two panels in one direction come with a collector plate that collects all the panels while opening. The application of this plate is optional.

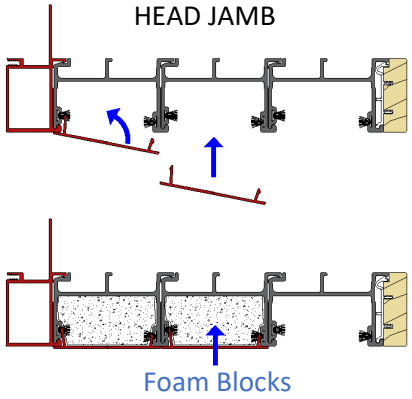
To Install, locate the plates 3-1/2" down from the top of the panel using provided four number 8 x 1-1/4" flat heat screws. Do not apply a plate to the lead panel.

5 INSTALLING EXTERIOR SIDE JAMB COVERS



Install side jamb aluminum fillers into exterior frame. Check the lengths, if needed trim to fit. To install, position the filler into the frame cavity lay a block of wood against filler and pound filler into place using a dead blow hammer. Be careful not to dent the covers.

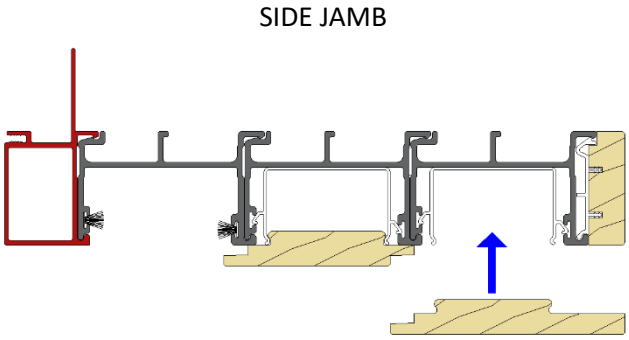
6 INSTALLING HEAD JAMB COVERS



Next Install head jamb aluminum fillers into exterior frame. Check the lengths, if needed trim to fit. To install, position the filler into the frame cavity lay a block of wood against filler and pound filler into place using hammer.

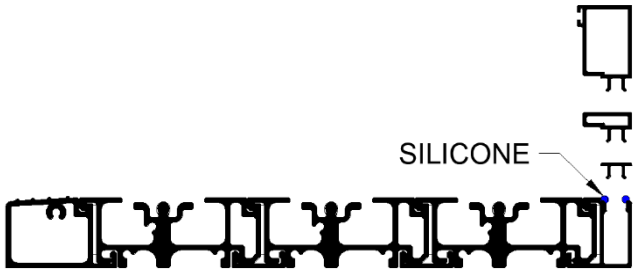
On the open ends, Insert the provided foam blocks.

7 INSTALLING INTERIOR SIDE JAMB COVERS



Wood Jamb Covers are supplied for Jambs that do not pocket into the wall. Wood fillers snap into the vinyl clips position the clips near each end and center the remaining clips. The wood is then pushed onto frame and snapped into the clip. Start with the track that is closest to the exterior and work to the interior. The interior most cover will be wider than the others.

8 INSTALLING SILL RISER

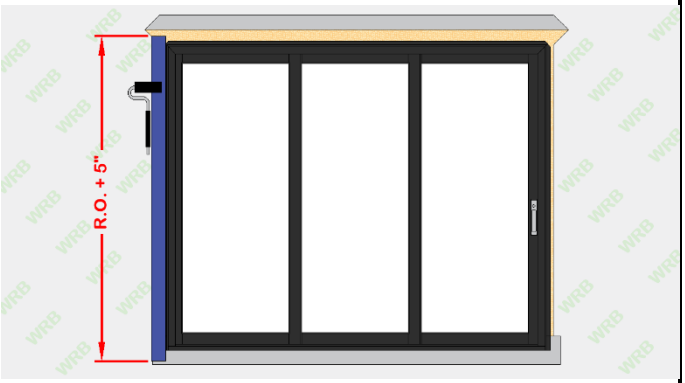


Apply silicone to the inside and outside leg of interior pocket in the sill. Add a line of silicone where the riser will butt against the wood side jamb on both sides. Snap sill riser into the sill.

FINAL FLASHING AND INSULATING DOOR

For proper water management it is recommended that multi-slide door systems be stalled with a sill pan in accordance with ASTM E2112. Weather Shield recommends a Type I, Rigid Sheet option for best results. Before installing the frame into the wall, make sure the steps outlined in the Site Preparation guide are fully completed.

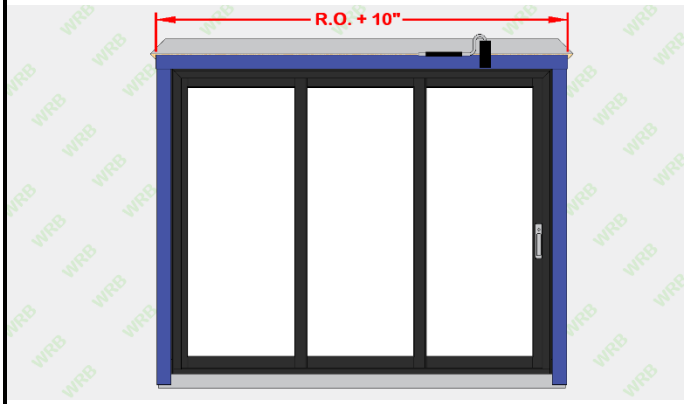
1 JAMB FLASHING



Cut two lengths of flashing tape equal to the rough opening jamb height plus 5".

- Remove the backing of the tape and apply over the nailing fin and the Weather Resistant Barrier keeping centered on the jamb.
- Roll the tape smooth with a J-roller to eliminate bubbles and to promote adhesion.

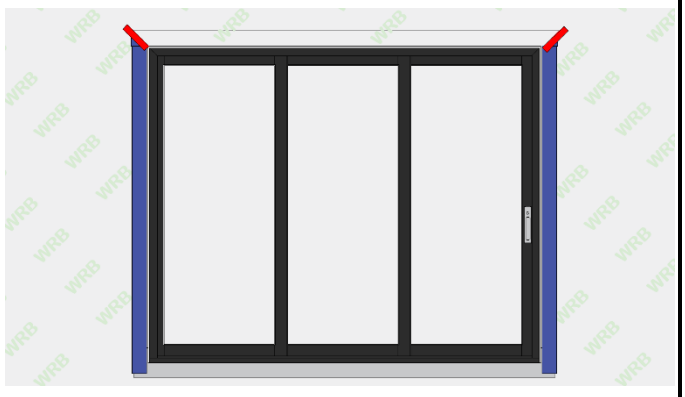
2 HEAD FLASHING



Cut two lengths of flashing tape equal to the rough opening jamb height plus 5".

- Remove the backing of the tape and apply over the nailing fin and the Weather Resistant Barrier keeping centered on the jamb.
- Roll the tape smooth with a J-roller to eliminate bubbles and to promote adhesion.

3 HEAD FLASHING



Fold the head jamb WRB flap back over the head jamb flashing. Tape the diagonal seams with WRB tape or flashing tape.

2 SINSULATING ROUGH OPENING

NOTE: If using foam, make sure to use a brand that is recommended for doors and windows.

Insulate and seal the gap between the rough opening and the door frame using either loose fill fiberglass insulation or low-expansion polyurethane foam.

FINISHING INSTRUCTIONS

CLEANING PRODUCT
Vinyl, aluminum, steel, and fiberglass may be cleaned with mild soap and water. Hard to remove stains and mineral deposits may be removed with mineral spirits. Factory-applied painted surfaces can be cleaned with mild household detergents and water.

- Do NOT clean any surface with gasoline, diesel fuel, solvent based, or petroleum-based products.
- Do NOT use abrasive materials or strong acidic solutions against vinyl, aluminum, glass, steel, fiberglass, or factory-applied finishes.
- Do NOT scrape or use tools that might damage the surface.
- Do NOT paint vinyl or aluminum surfaces.
- Do NOT paint or stain weather strip
- Do NOT use mastic-type tapes such as Duct Tape®.

NOTE: If masking tape is used on any surface to aid in painting or staining, remove tape as soon as possible after use. Tape must be removed within 24 hours of application. For long term use such as stucco applications, use tape that will release even when exposed to high temperatures for an extended period.

Bare Wood Surfaces
For best results, we recommend sealing your wood products immediately upon receipt. Avoid storing products or leaving them unfinished for more than 30 days. Do NOT allow unfinished wood to be exposed to excessive moisture or high humidity.

Primed Surfaces
If a wood unit is delivered with factory-applied primer, it may be painted without repriming, providing the finish paint coat is applied within six (6) months of unit installation.

Factory Finishes
Factory-applied paint or stain finishes do not require additional finishing. For “touch up” paint specifications contact your customer service representative.

FINISHING PREPARATION
- Remove handle-sets prior to finishing.
- Remove all construction and adhesive label residue with mineral spirits before finishing.
- Lightly sand surfaces being finished with 180 grit or finer sandpaper. Be careful not to scratch the glass.
- After sanding, clean-off sanding dust using lacquer thinner applied to a cloth. Let surface dry completely.

FINISHING
- Only use high quality finishing materials for longer lasting performance against the elements.
- If staining, it may be desirable to apply a wood conditioner to obtain a more even finish on soft woods. Follow the manufacturer’s recommended instructions.
- For paint or stain application, follow finish manufacturer’s recommended instructions.
- Make sure all exposed surfaces are finished.

For Warranty information please refer to the Weather Shield website or use your phone to scan the QR code.

https://www.weathershield.com/Resources/Warranties