

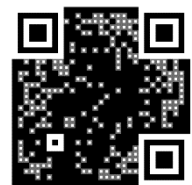
Thank you for choosing Weather Shield Windows and Doors. These instructions will cover a typical installation of a sliding patio door with an integral nailing fin. Instructions may not be right for all installations due to specific building conditions. Consult a contractor or architect for recommendations.



Important: Please read completely before you begin.

Site Preparation Instructions





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.



Frame Assembly Instructions

Larger doors that will not fit on a truck 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.

All necessary parts and fasteners to assemble the KD frame are included in the hardware and component packs. Please review that all necessary parts are available before beginning the assembly.

	WARNING		WARNING
<p>Doors can be extremely heavy. To avoid injury, use appropriate lifting techniques and an 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.</p>		<p>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.</p>	
	WARNING		WARNING
<p>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</p>		<p>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.</p>	

Tools and Supplies Needed








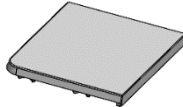

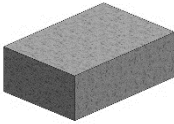



Tools

Measuring tape
 Level (laser level works better for larger openings)
 Speed Square
 Rubber hammer
 Power driver
 Power drill
 3/16" Drill Bit
 J-roller
 Caulk gun
 Glass suction cups (heavy load)
 Pry bar





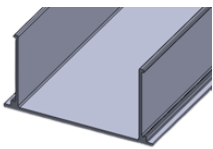
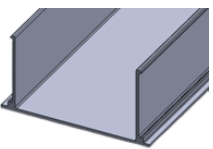
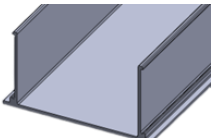
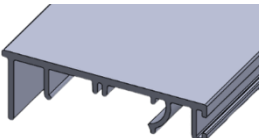


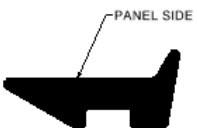

Installation Materials (not included)

4" Flashing tape
 Flexible corner flashing tape or preformed sill pan
 #8 x 2" flat head screws
 High quality sealant
 Shims
 Low-expanding foam
 Isopropyl alcohol (clean up)

INCLUDED PARTS – Hardware Packs

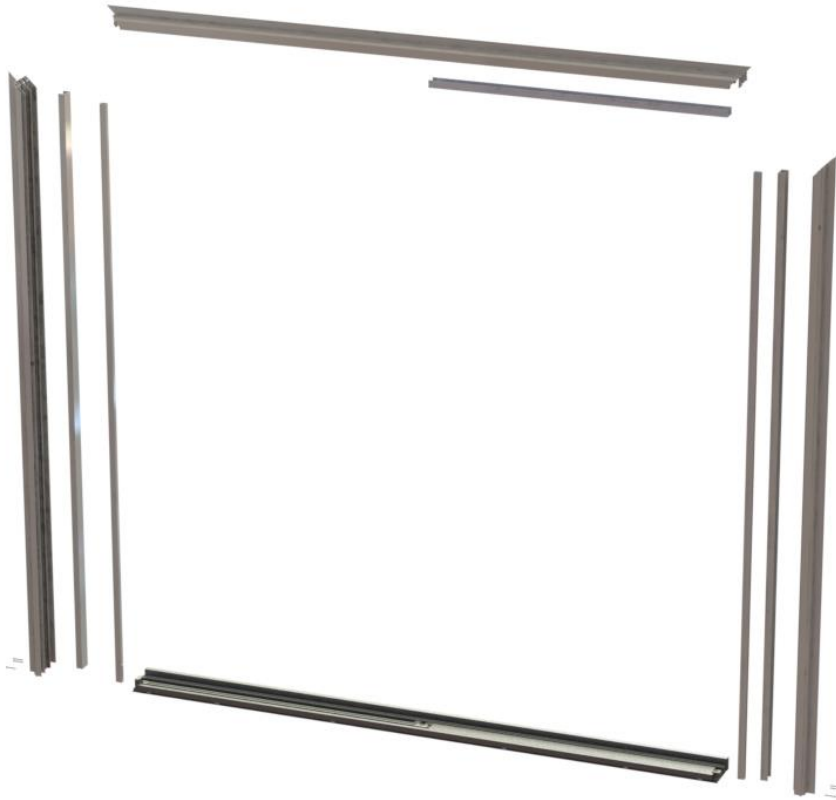
 <p>A Qty. (6) #8x1-3/4" PH Pan Hd Part #1326384 Frame Sill Install</p>	 <p>B Qty. (6) #10 x 1/2" Pan Hd Part #1327673 Stat Bracket to Head Jamb</p>	 <p>C Qty. (1) 3 mm Hex Wrench Part #xxxxxxx</p>
 <p>D Qty. (1) 4 mm Hex Wrench Part #1315110</p>	 <p>E Qty. (1) 5mm Hex Wrench Part #1317984</p>	 <p>F Qty. (1) 3/32" Hex Wrench Part # 1327023</p>
 <p>G Qty. (1) Tube Part #1318729 Black Silicone Sealant</p>	 <p>H Qty. (1) Part #1326750 or #1326751 Stat Panel Head Cover</p>	 <p>I Qty. (1) Part #1326753 or #1326754 Stat Panel Sill Cover</p>
 <p>J Qty. (5) 1-3/8" x 2" x 4" Part #1328080 Foam Block(s) Install on Frame Parts</p>	 <p>K Qty (1) Head Bracket Part # 1323542</p>	 <p>L Qty (1) Sill Bracket Part # 1327660 or 1327662</p>
 <p>M Qty (4) #8x1/4" Screws Part # 1326388</p>		

INCLUDED PARTS – KD Frame Components

<p>Head Jamb</p> 	<p>Sill</p> 	<p>Strike Jamb</p> 
<p>Fixed Jamb</p> 	<p>Interior Side Jamb Cover</p> 	<p>Exterior Side Jamb Cover</p> 
<p>Exterior Head Track Cover</p> 	<p>Exterior Sill Track Cover</p> 	<p>Sill Riser (only for 2" and 2-1/2" options)</p> 
<p>Drip Cap & Flashing Tape</p> 	<p>Fixed Panel Weather Strip Precut strips (3)</p> 	<p>Handle Set Pack (Boxed)</p> 

KD FRAME ASSEMBLY INSTRUCTIONS

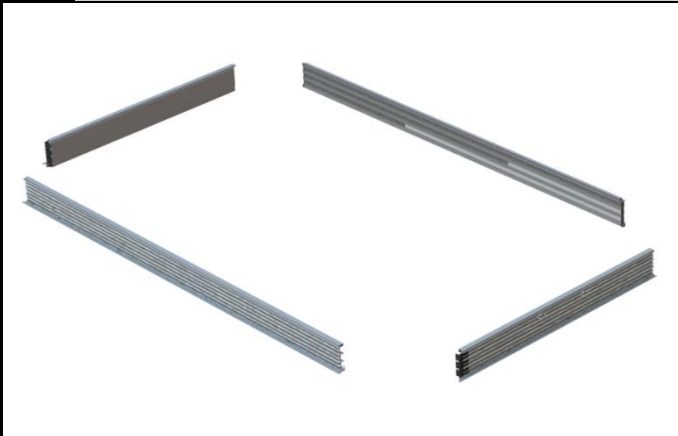
EXPLODED VIEW PARTS PLACEMENT



All necessary parts and fasteners to assemble the KD frame are included in the hardware and component packs. Please review that all necessary parts are available before beginning the assembly.

KD FRAME ASSEMBLY INSTRUCTIONS

1 PREPARATION OF FRAME PARTS



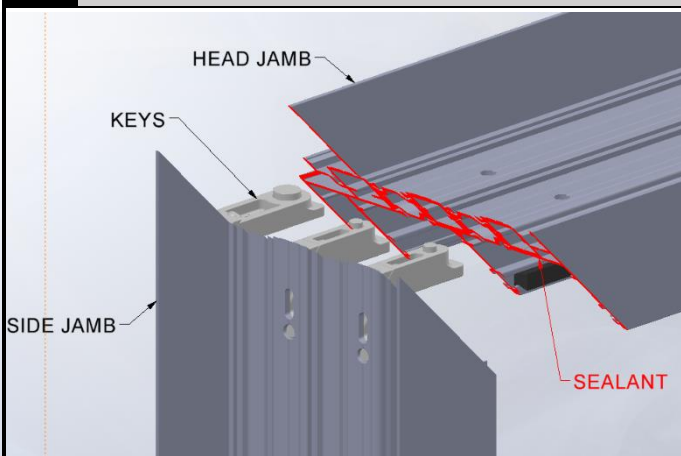
Lay parts out on the ground exterior side down. Use cardboard or other padding to protect them from damage. The final assembled frame will need to be tipped up and placed in the opening. Orienting the door sill nearest the opening will allow for easy placement during this step.

2 JAMB TO HEAD ATTACHMENT



Starting with the assembly of the side jamba to the head jamb. Apply sealant to the mitered cut face of the head jamb.

3 JAMB TO HEAD ATTACHMENT



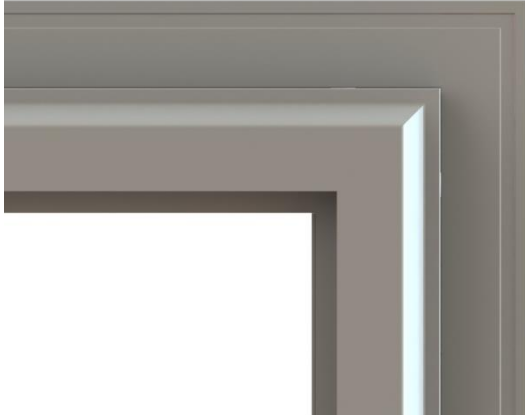
Metal corner keys are preinstalled in the top of the side jamba. Align the keys with the corresponding hollows of the head jamb.

4 JAMB TO HEAD ATTACHMENT



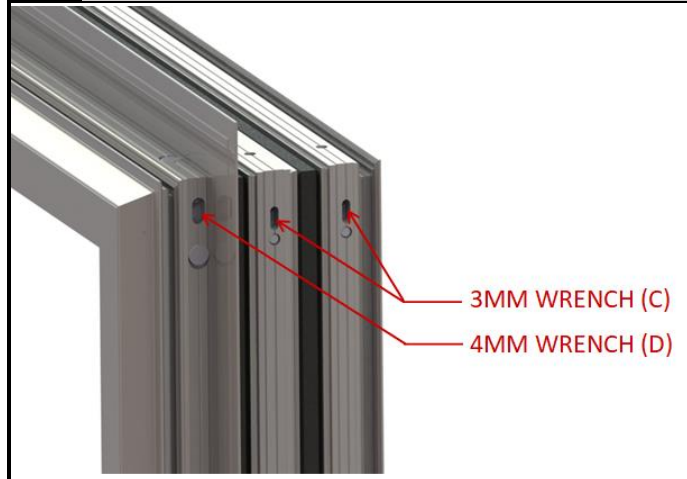
Push the mitered corners together tight. The spring-loaded button of the corner key will lock into place once the frames are properly joined.

5 JAMB TO HEAD ATTACHMENT



Check the alignment from the interior and exterior to ensure a tight 90-degree corner.

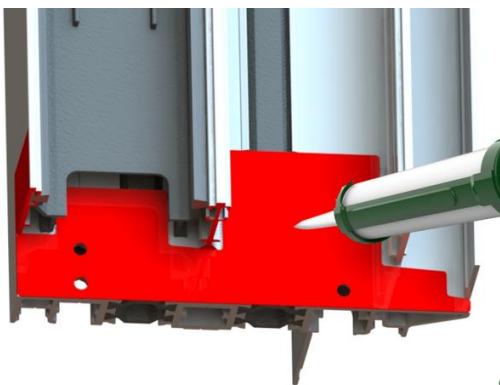
6 JAMB TO SILL ATTACHMENT



Tighten the corner keys using the provided hex wrenches. The exterior uses a 4 mm (D) wrench, and the interior uses a 3 mm (C) wrench. Ensure corners stay square as you tighten. Clean excess sealant that may have squeezed out without compromising sealant at joint.

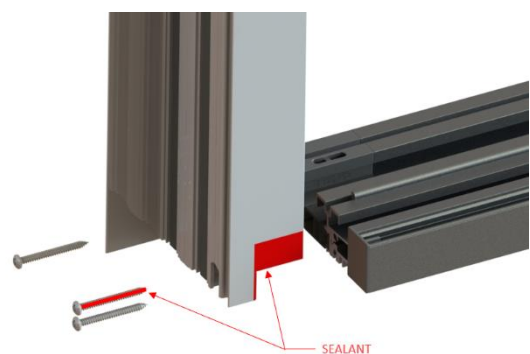
Repeat steps for opposite side jamb to head assembly.

7 JAMB TO SILL ATTACHMENT



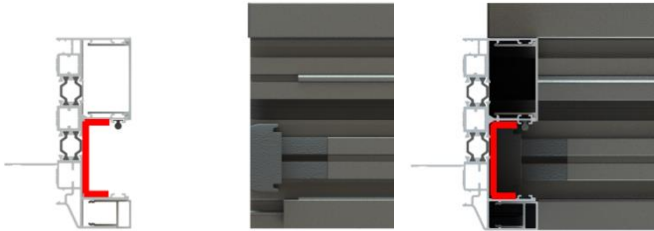
Apply sealant over the entire area of the sill gasket that is applied to the bottom of the side jamb. Cover the entire gasket. Apply sealant to the underside of jamb legs. Apply sealant on the side jamb up to the height of the sill riser (see image on step 8).

8 JAMB TO SILL ATTACHMENT



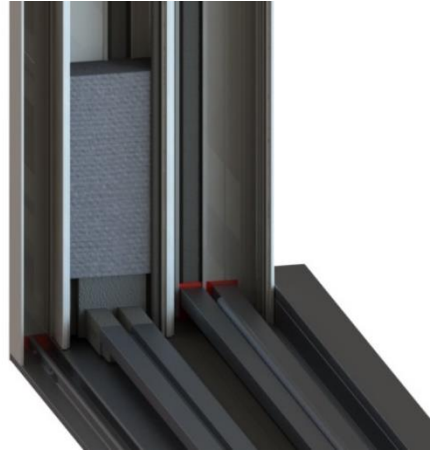
Insert the 3 sill attachment screws (A) through the predrilled holes in the bottom of the side jambs. Applying sealant to the top screw. Position the sill into place. Hold sill and side jamb tightly together as you tighten the screws. Clean off excess sealant that may have squeezed out taking care not to compromise the sealant at the joint.

9 JAMB TO SILL ATTACHMENT



In addition to steps 7 and 8, apply silicone to both side of stationary panel track for stationary jamb. Silicone is to wrap around the sides of the sill track filler block once jamb and sill are connected.

10 JAMB TO SILL ATTACHMENT



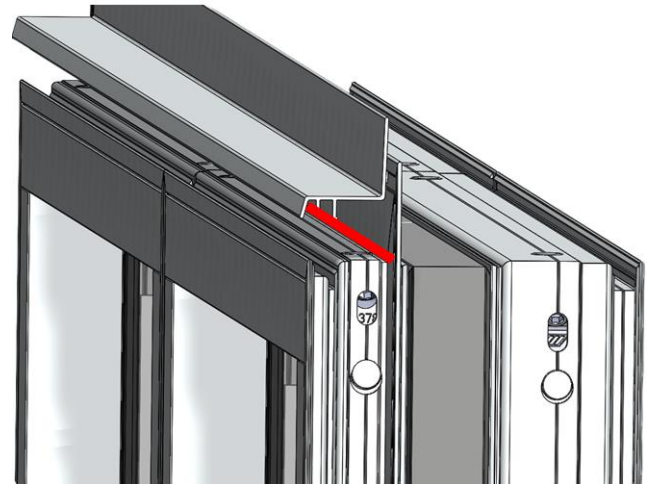
Position a foam block (J) into the stationary jamb track, using the squeeze out silicone from step 9 to secure the foam block to the sill track filler block.

9 DRIP CAP INSTALLATION



A continuous aluminum drip cap will be provided as frame kit. This part should be the same width as the door (minus the nailing fins). To install, apply a continuous 3/8" bead of silicone using the corner of the nail fin to jamb as a guide.

10 DRIP CAP INSTALLATION



Place the drip cap into place flush with the edge of the jamb. Push the barb legs of the extrusion into the accessory channel of the frame. Using a wood block and a hammer, gently tap the drip cap into place.

11 DRIP CAP FLASHING



Using the provided self-adhesive flashing tape, wrap the flashing tape over the drip cap and nailing fin to completely seal the seam of the drip cap and nailing fin.

12 DRIP CAP INSTALLATION

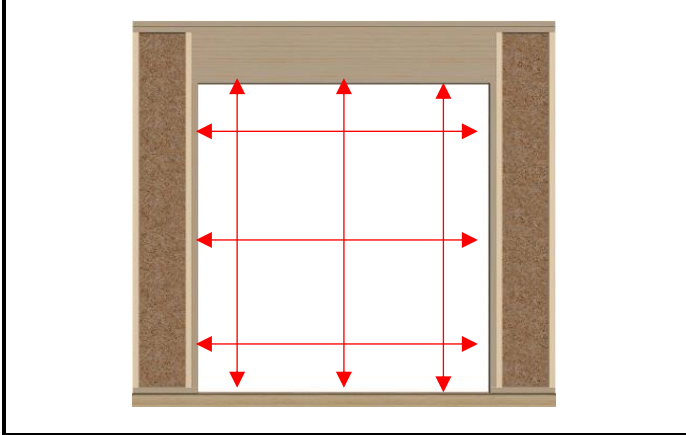


With the drip cap in place predrill holes for installation fasteners. Using 3/16" bit drill holes through the drip cap and the nailing fin (approximately 1/2" from top of fin). Place holes 4" from each end and spaced every 4"-8" on center.

SETTING AND FASTENING THE FRAME IN THE OPENING

For proper water management it is recommended that all doors be installed 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 (see QR code on page 1).

1 VERIFICATION OF OPENING



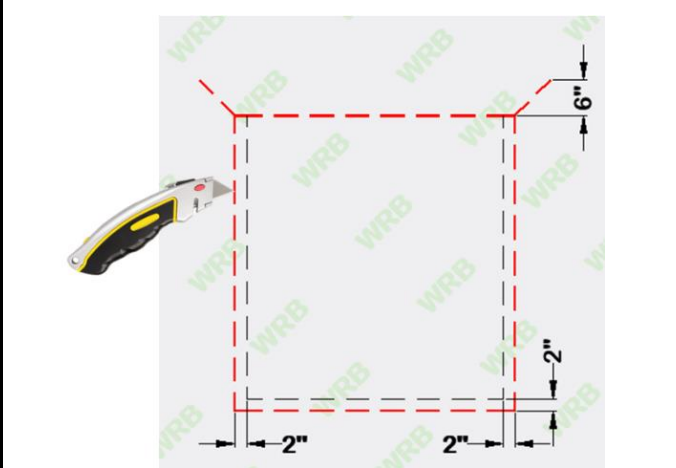
Make sure the door will fit in the rough opening. Measure the opening width and height in three separate places to ensure the framing is not bowed. Opening size should be 3/4" larger in width and 1/2" larger in height than the door frame.

2 VERIFICATION OF OPENING



Verify the opening is plumb, level, and square. Make sure the sill area is free from debris.

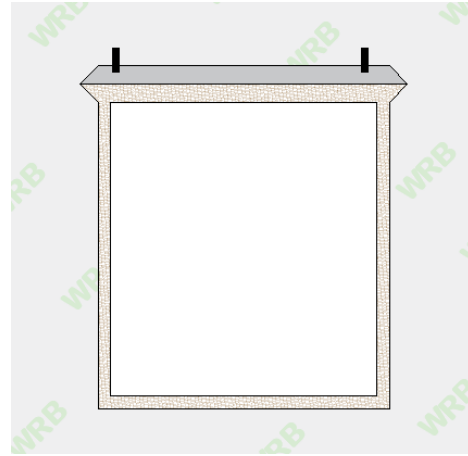
3 CUTTING WEATHER RESISTANT BARRIER



EXTERIOR

Cut the house wrap at the sill 2" below the rough opening and 2" past the jambs on each side. Cut the house wrap at the head even with the framing and diagonally past the jambs 6" to create a flap.

4 ROUGH OPENING VERIFICATION

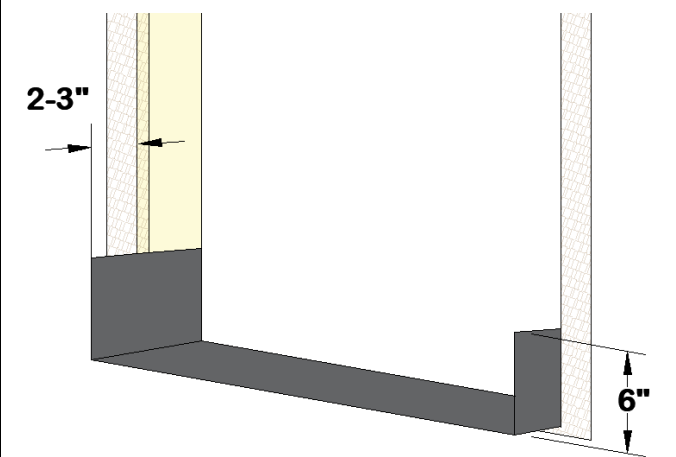


EXTERIOR

Fold the flap up and temporarily tape it above the opening.

NOTE: This method will allow the nailing fin to mount directly to the sheathing. Check with the building wrap manufacturer to verify this does not void their warranty.

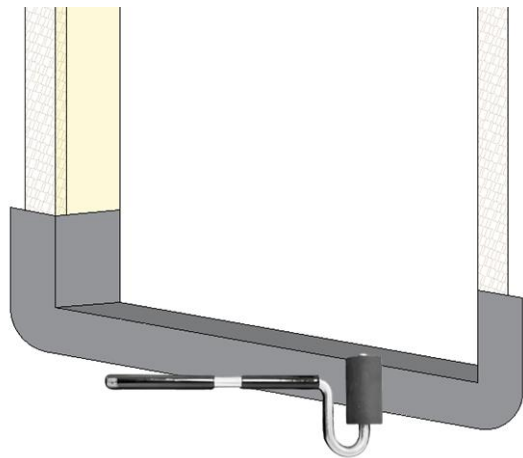
5 APPLY SILL FLASHING



EXTERIOR

Cut flexible sill flashing material so it is long enough to extend up a minimum of 6" up each side jamb (R.O. + 12" min.).

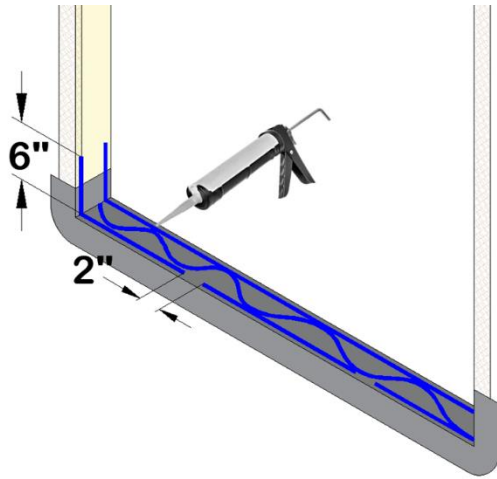
6 APPLY SILL FLASHING



EXTERIOR

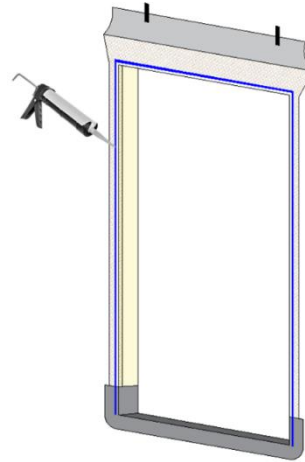
Pull the backing from the flashing and apply to the sill allowing the flashing to extend up the side jambs 6". Fold the flashing over the sheathing and WRB. Roll smooth with J-roller to remove air pockets and promote adhesion.

7 APPLY SEALANT TO THE SILL FLASHING



Apply a continuous 3/8" bead of sealant in line with the innermost part of the door sill continue up the jamb 6". For the outermost part of the sill apply sealant the full width of the door leaving 2" gaps approximately every two feet. Continue the bead 6" up the jamb on each side. In between the sealant rows, add a continuous wavy bead of sealant.

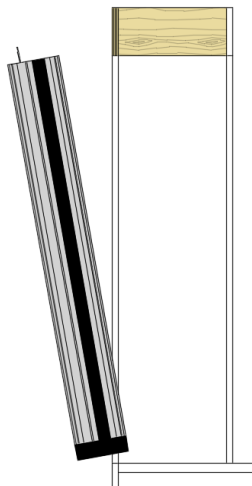
8 APPLY SEALANT TO FRAMING



EXTERIOR

Apply a continuous 3/8" bead of sealant directly to the sheathing along both side jambs and across the head. Make sure the sealant bead is aligned where it will make full contact with the nailing fin.

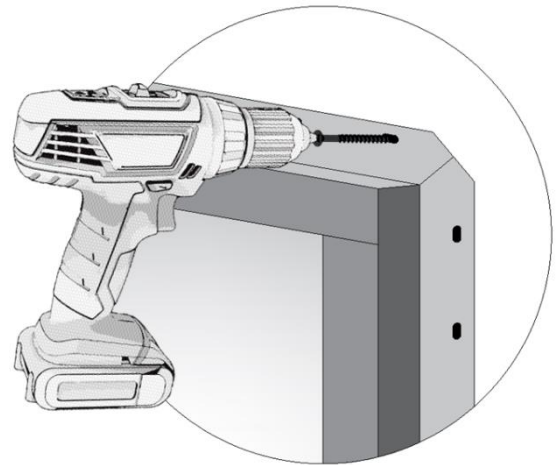
9 INSERT THE DOOR IN THE OPENING



EXTERIOR

Immediately after applying sealant, lift and center door in the opening from the exterior setting the sill in first and tipping the door into place.

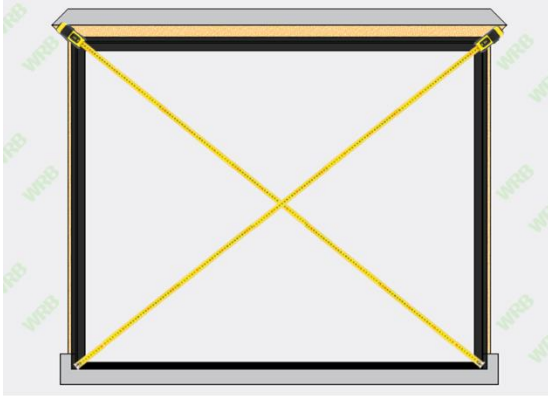
10 TEMPORARILY SECURE FRAME



EXTERIOR

Secure one side top corner with either a rust-proof roofing nail or a #8 steel screw. Fasteners must be long enough to penetrate the framing material by at least 1-1/2".

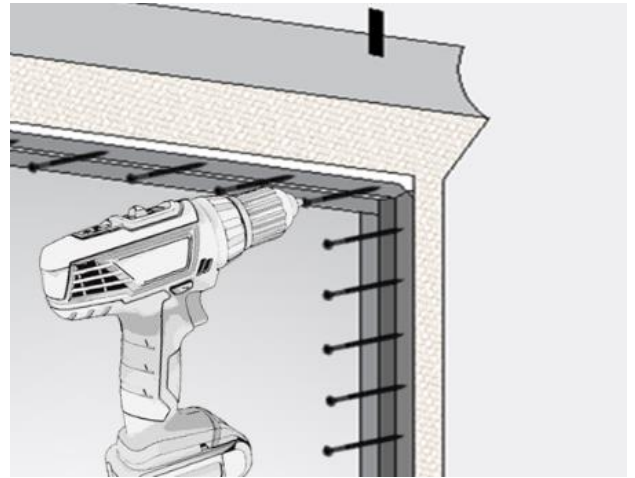
11 SQUARE THE FRAME



EXTERIOR

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

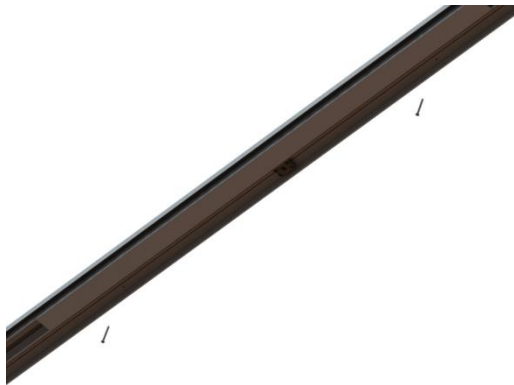
12 SECURE THE FRAME



EXTERIOR

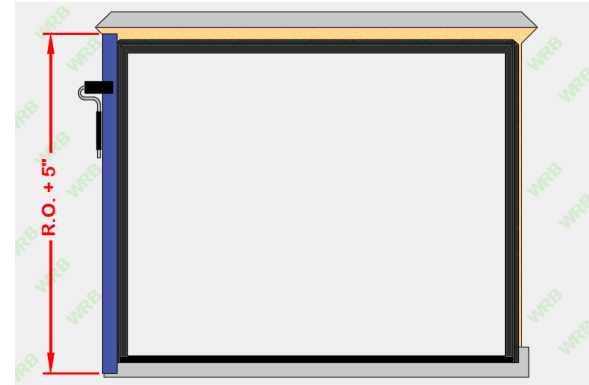
When the door is plumb, level, and square, continue fastening through the nailing fin holes. Place fasteners 4" from each corner and spaced every 4" - 8" on center

13 SECURE THE FRAME



For 4-Wide frames, secure the head to the opening with two #10 x 2-1/2" through the predrilled holes in the active panel head track.

14 JAMB FLASHING

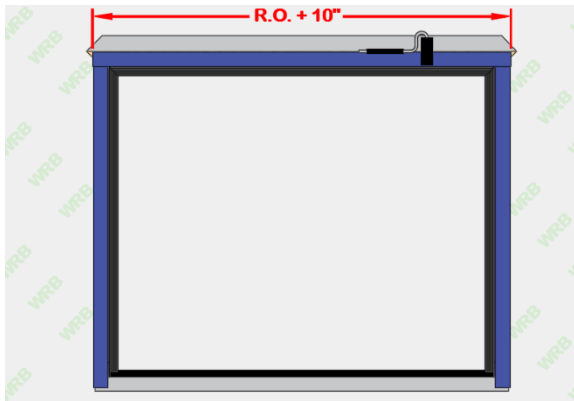


EXTERIOR

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.
- Repeat for the opposite jamb.

15 HEAD FLASHING



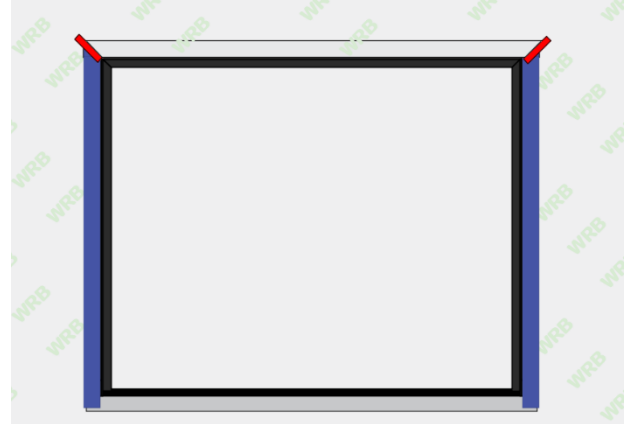
EXTERIOR

Cut one length of flashing tape equal to the rough opening jamb width plus 10".

- 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.

16 HEAD FLASHING



EXTERIOR

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

17 INSULATING 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.

INSTALLING THE PANELS

ATTENTION

For doors where the panels are shipped loose follow the procedures below to install the panels into the frame.



WARNING

To avoid injury, use appropriate lifting techniques and adequate number of people to install panels. Larger panels may require mechanical lifting assistance.

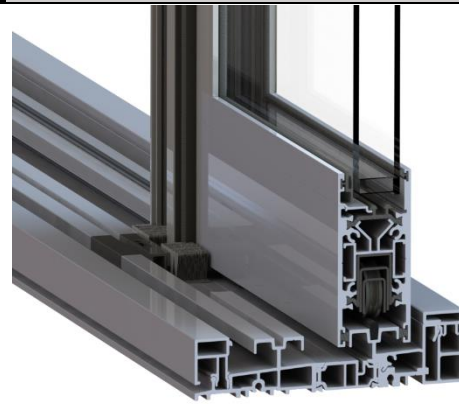
1 ACTIVE PANEL INSTALL



EXTERIOR

Bring the panel from the exterior. Hold the panel at an angle toward the head track and insert the top of the panel into the interior most head track.

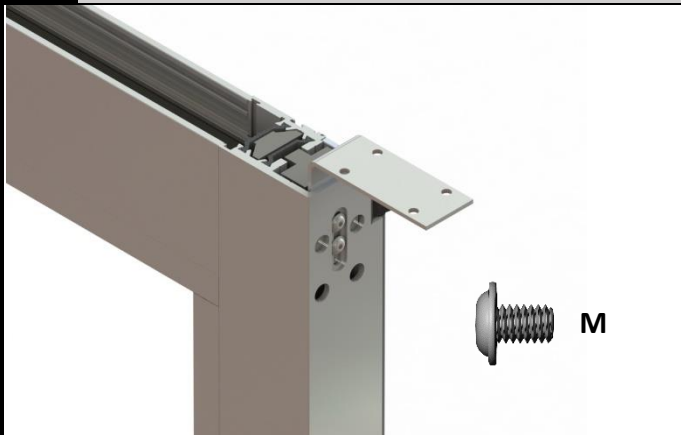
2 ACTIVE PANEL INSTALL



EXTERIOR

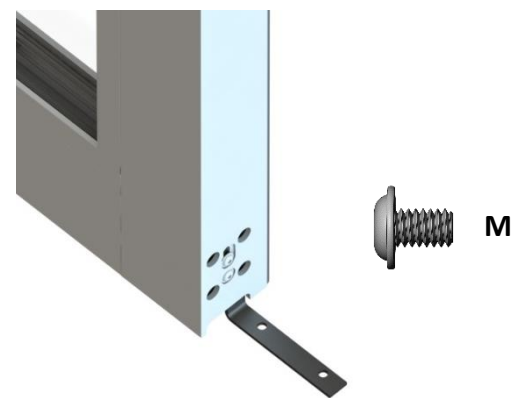
Swing the bottom of the panel inward until it is parallel with the top and sits with the wheels on the corresponding sill. Gently lowering on to the roller track. Do not scrape the panel bottom over the sill.

3 INACTIVE PANEL INSTALLATION CLIPS



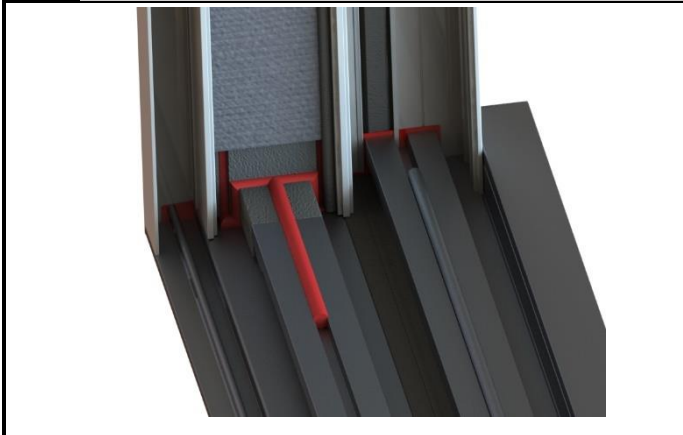
Before the inactive panel can be installed, installation brackets need to be installed. Slide the head bracket (K) all the way down into the end on the stile with the slotted holes. Attach the bracket to the panel using 1 (M) screws. Tighten so bracket will not move during panel installation.

4 INACTIVE PANEL INSTALLATION CLIPS



At the sill end of the panel install the (L) bracket. Slide the bracket (L) all the way up into the end on the stile with the slotted holes. Attach the bracket to the panel using 1 (M) screws. Tighten so bracket will not move during panel installation.

5 INACTIVE PANEL INSTALL PREPARATION



At the jamb to sill corner of the inactive panel, apply a generous amount of sealant around all seams of the frame filler block as shown. Also, apply a bead of sealant approximately 4" from the end, between the two pieces of foam tape.

6 INACTIVE PANEL INSTALL PREPARATION



Apply sealant to the edge of weep gate and down the center approximately 4".

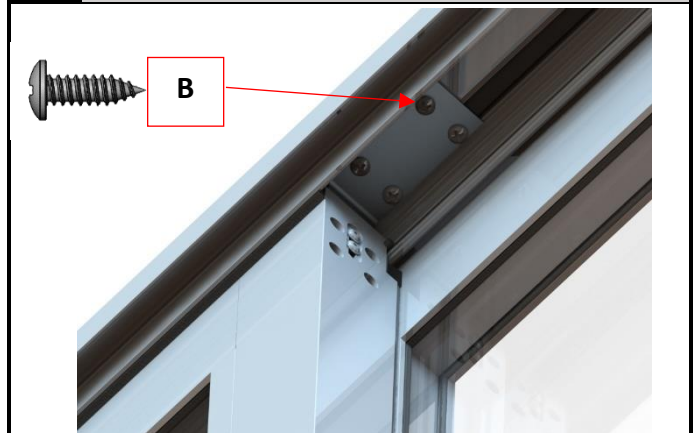
7 INACTIVE PANEL INSTALLATION



EXTERIOR


Hold the panel at an angle toward the head track and insert the top of the panel into the exterior most head track. Swing the bottom of the panel in until it is vertical. While in the lifted position slide the inactive panel against the inactive side jamb. Then gently lower the inactive panel onto the sill track. This will ensure all sealant makes contact between inactive panel and frame. If necessary, run an additional cap bead of sealant by lifting panel and applying sealant.

8 INACTIVE PANEL BRACKET INSTALLATION



With the inactive panel tight to the inactive side jamb, loosen installed (M) screw, and slide bracket tight against head. Add (4) #10 x 5/8" SS pan head screws (B) through the installation strap into the pre-drilled holes in the head jamb.


9 INACTIVE PANEL BRACKET INSTALLATION



EXTERIOR

With the inactive panel tight to the inactive side jamb, loosen installed (M) screw, and slide bracket tight against head. Add (4) #10 x 5/8" SS pan head screws (B) through the installation strap into the pre-drilled holes in the head jamb.


10 INACTIVE PANEL BRACKET INSTALLATION



EXTERIOR

The adjustment screws are covered by a black plastic cover (H). To apply remove adhesive tape backing and firmly press the cover into place.

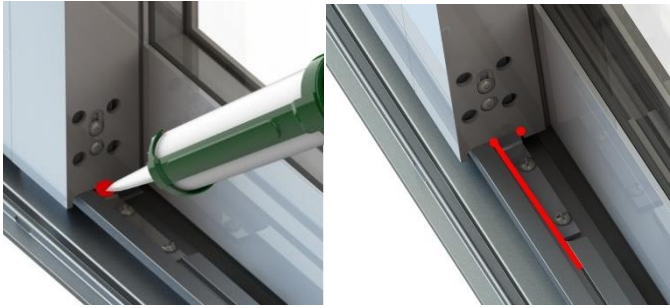
11 INACTIVE PANEL BRACKET INSTALLATION



EXTERIOR

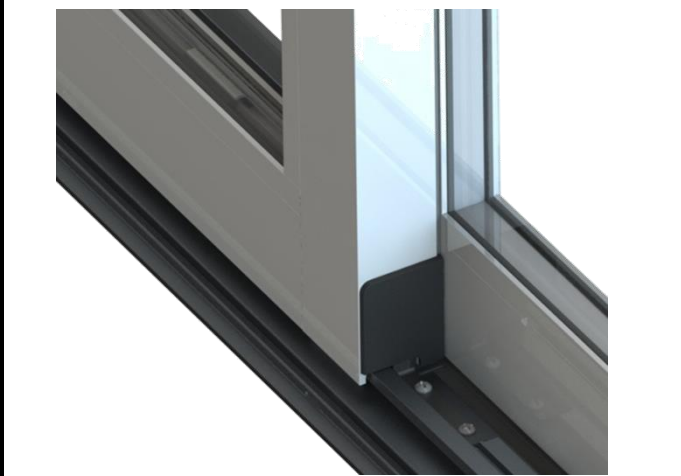
Loosen installed (M) screw in sill bracket and slide against sill. At the sill location attach the panel bracket to the sill using the provided (2) #10 x 5/8" SS pan head screws (B) through the installation strap into the pre-drilled holes in the sill. Apply silicone to the holes prior to inserting the screws.

12 INACTIVE PANEL ENDCAP INSTALLATION



With the sill bracket attached to the sill, install second (M) screw and tighten both screws. Use the provided 3/32" hex wrench (F) to tighten. Pump silicone into the sill track center under the panel. Apply silicone to fill the gaps on both sides of the bracket and along center of stationary panel track 1" past the end of the cutout.

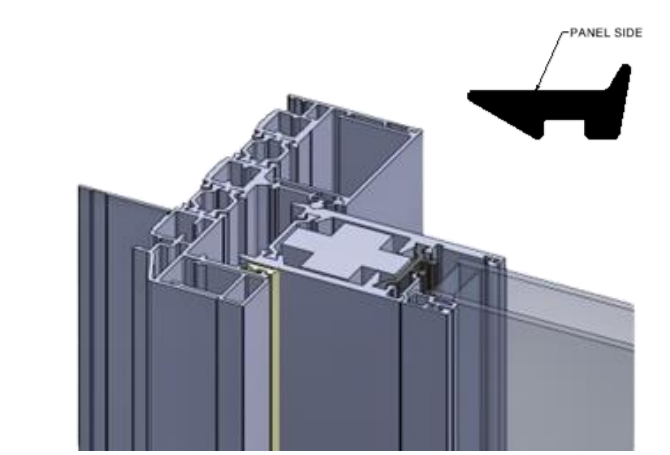
13 INACTIVE PANEL ENDCAP INSTALLATION



EXTERIOR

The adjustment screws are covered by a black plastic cover (I). To apply remove adhesive tape backing and firmly press the cover into place.

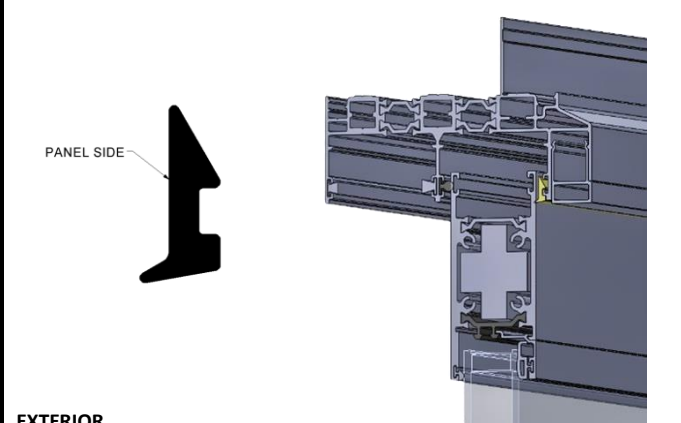
14 INACTIVE PANEL JAMB WEATHER STRIP



EXTERIOR

The gap between the frame and the fixed panel is filled with a precut rubber weather strip provided in the frame kit. The vertical weather strip will run full length. Make sure use the correct cut length. Starting at one end push the weather strip in with the barb to the exterior. Trim excess if needed.

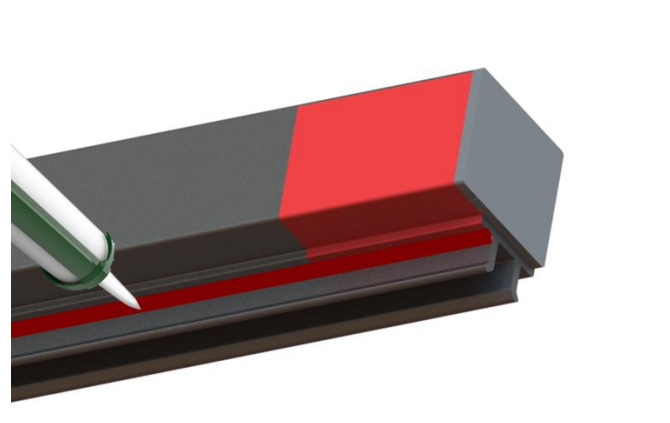
15 INACTIVE PANEL HEAD WEATHER STRIP



EXTERIOR

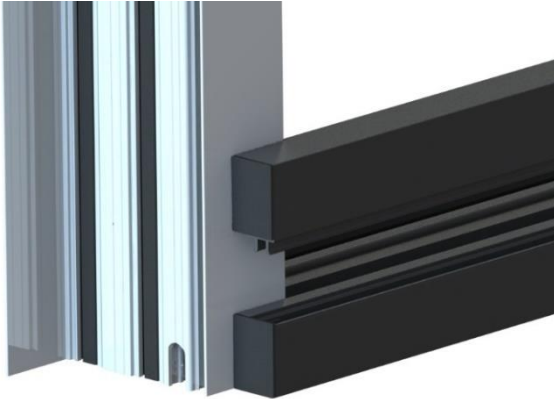
Starting at jamb side end push in the weather strip with the barb to the exterior. Weather strip should be tight against the vertical weather strip. Run to the end of the panel. Trim excess if needed.

16 SILL RISER INSTALLATION



If the door is ordered with a 2" or 2-1/2" sill riser option, this part will need to be installed. Apply silicone to the face of the riser that comes in contact with the side jamb. Apply silicone to entire length of the riser along the groove of the barb leg facing the exterior of the door.

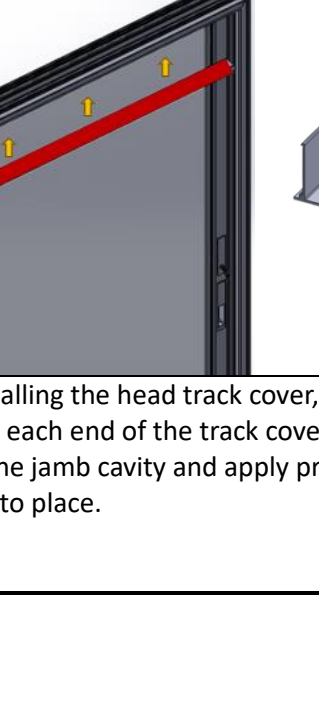
17 SILL RISER INSTALLATION



INTERIOR

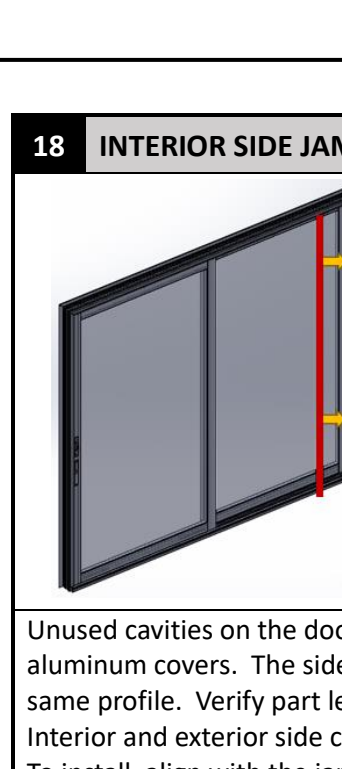
Align the riser with the interior sill channel. Tap the riser until it snaps into the channel and both barbed legs are fully engaged. Gently clean excess sealant that may have squeezed out taking care not to remove sealant at the joint.

18 INTERIOR SIDE JAMB COVER INSTALL



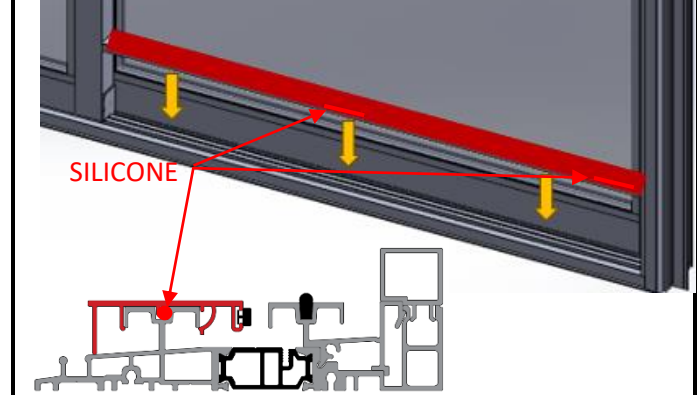
Unused cavities on the door frame are concealed with aluminum covers. The side jamb and head are the same profile. Verify part lengths before installing. Interior and exterior side covers are the same length. To install, align with the jamb cavity and apply pressure until the legs snap into place.

19 EXTERIOR HEAD TRACK COVER INSTALL



Prior to installing the head track cover, position foam blocks (J) at each end of the track cover. To install, align with the jamb cavity and apply pressure until the legs snap into place.

20(a) EXTERIOR SILL TRACK COVER INSTALL



Apply two additional beads of silicone, similar to step 13, in the center and far end of stat panel track. The sill track cover should be positioned with the long leg facing the exterior. Center the double barbs on the cover with center groove of the sill track. Apply pressure until the legs snap into place.

20(b) EXTERIOR SILL TRACK COVER INSTALL (4-WIDE)

For 4-Wide doors, open passive panel completely, and lift front end. While panel is lifted, slide sill track cover into position under panel boxes, following alignment in step 21 (a). Apply pressure until the legs snap into place. Scan QR Code below for example video.

21 EXTERIOR SIDE JAMB COVER INSTALL

Prior to installing the jamb track cover, position foam blocks (J) 3" – 6" from bottom of track cover. To install, align with the jamb cavity and apply pressure until the legs snap into place.

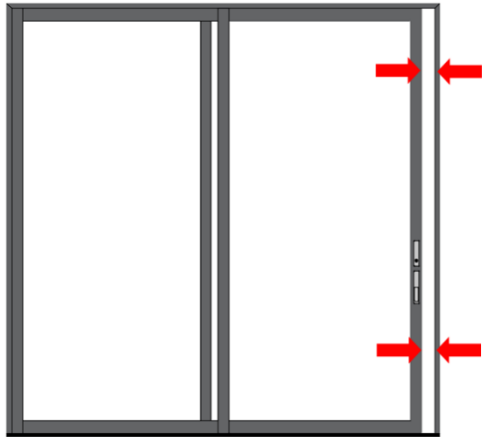
22 HANDLESET INSTALLATION

Install the flush mounted pull handle per the instruction included with the handle packaging. Break off key cylinder tail tabs so that one tab remains. Break off tung tabs so that no tabs remains. Use the 1.375" mounting screws included in pack.

23 HANDLESET INSTALLATION

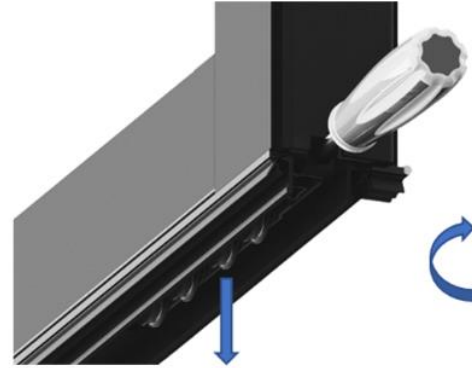
Install handle set with included gaskets on the exterior of the panel. If panel does not lock properly, adjust lead panel for proper engagement.

24 PANEL ADJUSTMENT



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 steps to adjust panel rollers up or down.

25 PANEL ADJUSTMENT



The active panel is equipped with two sets of adjustable quad rollers. The rollers can be adjusted by inserting a 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. Use a block of wood on the sill and lift the end of the panel using a prybar. Panels are shipped with rollers fully lowered. Install panel plugs after roller adjustment.

26 LOCK ADJUSTMENT



Close the active panel and engage the lock. If the lock is not engaging, the lock hooks can be extended by rotating the center adjustment screw.

CARE 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 weatherstrip.
- 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.

WARRANTY

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>

