

Installation Guidelines for Multi-Slide M2055 90 Degree Door with Weather Resistant Barrier Installed

| | PO Box 128 | | 504 Highway 63 South | 1 | Freeburg, MO 65035 | 1 | 800-347-0438 | |
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Read these instructions completely before starting any installation. Failure to install and maintain our product according to these instructions may void any product warranty. These are generic instructions intended to cover most common situations, which may not be appropriate for all installations due to building design, construction materials, or methods used and/or building or site conditions. Please visit our website at <u>www.quakerwindows.com</u> or call 1-800-347-0438 for additional information. Inspect all units for any damage or defects prior to installation.



WARNING

Tools

• Follow manufacturer's instructions for safe operation of tools, and ladders/scaffolding. Always wear safety glasses. Failure to do so could result in injury, product or property damage.

Handling

- Do not store units outside, or in a hot environment. Doing so could result in product damage.
- Do not carry flat. Doing so could result in product damage, injury, or property damage.
- Stack units as straight as possible to avoid bowing. Do not lay flat!

Glass

• If broken, glass can fragment causing injury. All Quaker products are available with safety glass. In many areas, local building codes require safety glass in certain locations and/or applications. Quaker door products are provided with safety glass per industry standards. Consult your local building codes for more definitive information.

Fastening

- Metal fasteners and components could corrode when used with preservative-treated lumber. Use approved fasteners and components to fasten window or door. Failure to do so could cause a failure resulting in injury, product or property damage.
- Fastener must attach to a structural framing member with 1 1/2" minimum fastener embedment, or minimum 3 full threads with a minimum 5/16" head as products were tested with.
- Quaker does not supply anchorage/fastener calculations, and is not responsible for determining structural adequacy of the anchorage and fasteners used to install our products, or the openings into which they are installed.
- **Do not** over drive screws or nails. Doing so could result in product damage.

Notice

• The suggested overhang of the structure should match the height of the unit being installed.

Installation

- Maintain a minimum of 1/4" between the window or door frame and exterior finish materials. Failure to do so could result in product or property damage.
- Nailing flanges and drip caps (integral or applied) **do not** take the place of window and door flashing. All windows and doors must be properly flashed and sealed with material compatible sealant for protection against water and air infiltration around the entire perimeter. Failure to do so could result in product or property damage.
- Place shims around perimeter as required. Door must be properly shimmed. Failure to do so could affect operation and product performance and could result in product damage.
- Live or dead loads transferred into our product can affect functionality, damage frame joinery or cause glass failures. Dead loads such as upper levels, roof, etc. Should be constructed before window or door is installed.
- Loads shall be designed to withstand the most critical effects of load factors and load combinations as required by the building code. (Loads are including but not limited to Live, Dead, Collateral, Auxiliary, Thermally induced, Seismic, etc.)
- Maximum vertical deflection of the header under all Load combination should not exceed 1/8".
- **Do not** drill through or into door sill to install alarm wires.

Sealing

- Follow instructions of foam, sealant, and flashing manufacturers regarding safety, material application, compatibility, and periodic maintenance for continued weather resistance of their products. Failure to do so could result in product or property damage. DO NOT overfill between the frame and opening.
- Minimally expanding foam insulation must be compliant with AAMA 812-19.
- Quaker requires 100% silicone (ASTM C920 compliant) neutral cure only sealant. Always clean all areas where sealant will be applied. Failure to do so could result in product or property damage.
- Flashing tape must meet ASTM-D779 performance requirements.

Joining

• Do not join any window or door to any window or door not designed for joining. Joined windows and doors must be individually supported in the opening. Failure to do so could affect operation and product performance and could result in product or property damage.

Cleaning

- Acid solutions used for cleaning will damage glass, fasteners, hardware, and metal flashing. Protect these products and follow cleaning products manufacturers instructions. If acid contacts the window or door, wash all surfaces immediately with clean water.
- **Do not** use razor blades to clean glass surface. Glass damage could result.
- Clean glass using liquid glass cleaner.
- Clean frame, sash, panels, and insect screens using mild detergent and warm water with a soft cloth or brush.

IMPORTANT

- Buildings constructed prior to 1978 could contain lead paint which could be disturbed during window or door replacement. For more information on proper management of lead paint, go to: <u>www.epa.gov/lead</u>
- Care must be taken to properly recycle or dispose of old materials. Any recyclable materials should be separated from non-recyclable or hazardous materials. Please consult with local or state authorities regarding proper disposal of non-recyclable or hazardous materials

WARNING: This product can expose you to chemicals including titanium dioxide or methanol, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <u>www.P65Warnings.</u> <u>ca.gov.</u>

WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to <u>www.P65Warnings.ca.gov/wood.</u>

ASSOCIATE

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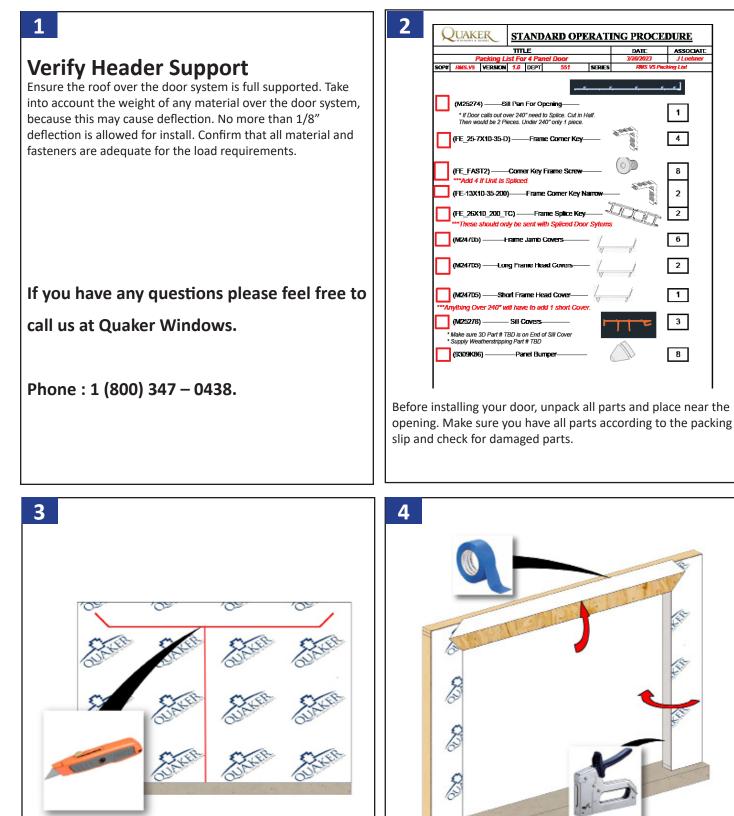
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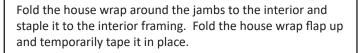
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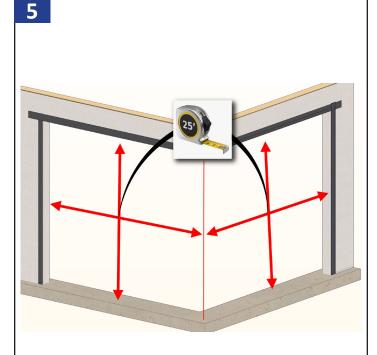
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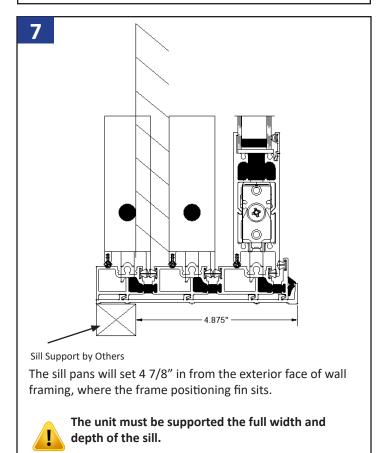


Apply the house wrap according to the manufacturer's instructions and cut T-pattern opening as shown above. Cut top flap angles at 45 degrees and 1" longer than the width of flashing tape being used.

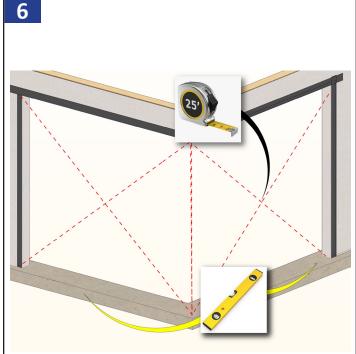




Measure and verify the rough opening is sized correctly. The rough opening should be 3/4" wider and 1/2" taller than the unit. Allow additional space for flashing thickness, installation clips, joining components, and their fasteners.



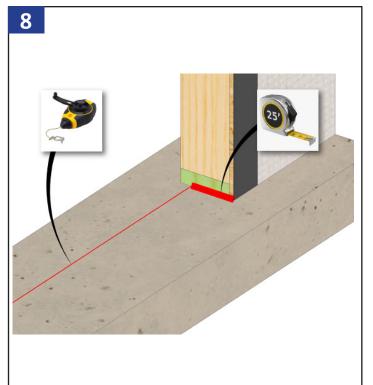
(Note: For Nail fin installation only.)



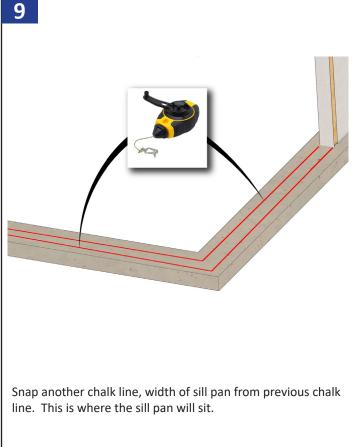
Check that the opening is square. The diagonal measurements need to be within 1/8" of each other. Verify the rough opening is plumb and level.



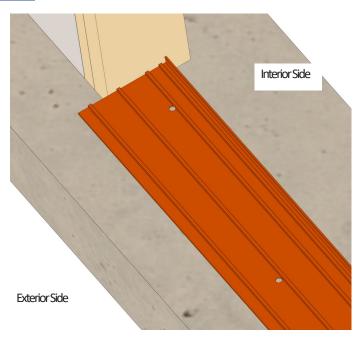
The sill plate beneath the unit must be level for proper unit operation.



Measure and set a chalk line on the sub floor 4 7/8" in from the exterior wall face. Dry fit the provided sill pan system with the rear upturned leg on this line. **The sill condition must be level.**



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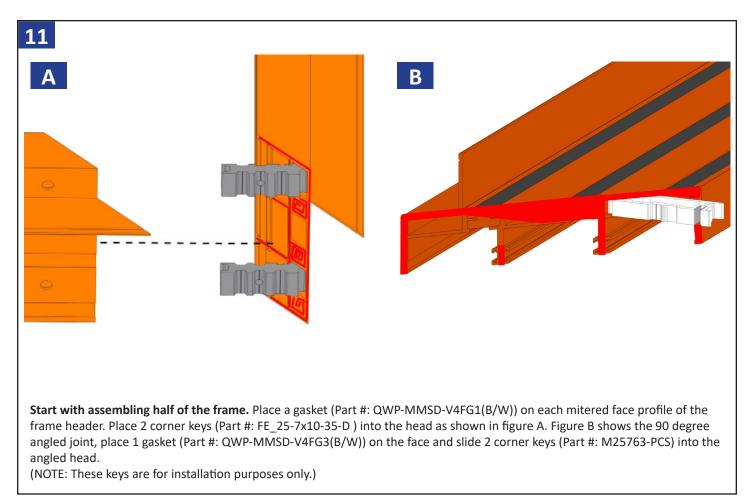
Rough fit the sill pan in place to ensure of proper fitment.

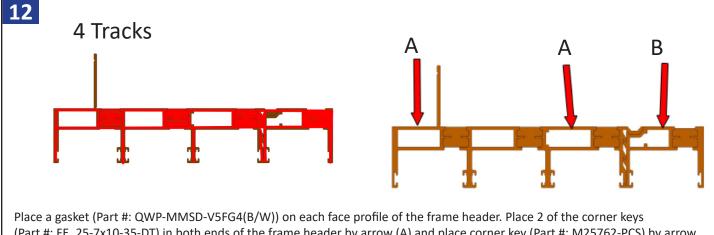
SILL MUST BE LEVEL! Quaker first recommends self leveling concrete, if not available shim 1' or less, on center.

FRAME ASSEMBLY

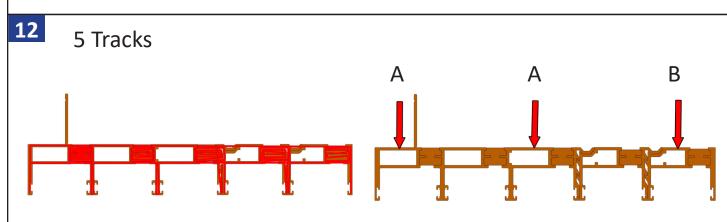
Assemble the frame to make sure sizing is correct.

Multi Tracks - See below - Skip to the step that matches the door which you are wanting to install.

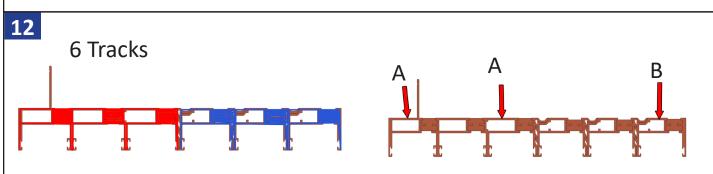




Place a gasket (Part #: QWP-MMSD-V5FG4(B/W)) on each face profile of the frame header. Place 2 of the corner keys (Part #: FE_25-7x10-35-DT) in both ends of the frame header by arrow (A) and place corner key (Part #: M25762-PCS) by arrow (B). Then join to both frame jambs to head. Trim weather strip flush to both ends. Step 11, figure B shows the 90 degree angled joint, place 1 gasket (Part #: QWP-MMSD-5FG10(B/W)) on the face. Then slide 2 corner keys (Part #: M25763-PCS) A and one (Part #: M25764-PCS) in B as shown above into the angled head. (NOTE: These keys are for installation purposes only.)



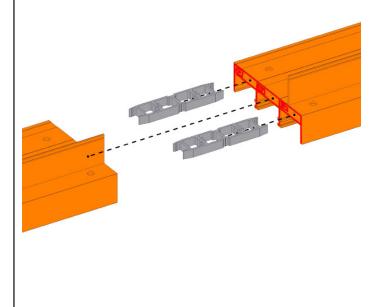
Place a gasket (Part #: QWP-MMSD-V5FG5(B/W)) on each face profile of the frame header. Place 2 of the corner keys (Part #: FE_25-7x10-35-DT) in both ends of the frame header by arrow (A) and place corner key (Part #: M25762-PCS) by arrow (B). Then join to both frame jambs to head. Trim weather strip flush to both ends. Step 11, figure B shows the 90 degree angled joint, place 1 gasket (Part #: QWP-MMSD-V4FG3(B/W)), and 1 of (Part #: QWP-MMSD-5FG11(B/W)) on the face. Then slide 2 corner keys (Part #: M25763-PCS) A and one (Part #: M25764-PCS) in B as shown above into the angled head. (NOTE: These keys are for installation purposes only.)

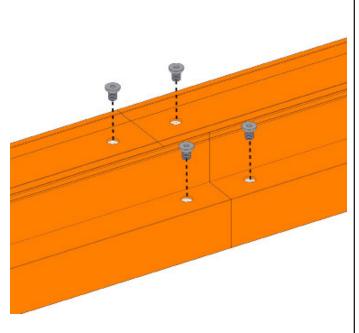


Place gasket (Part #: QWP-MMSD-V4FG1(B/W)) (RED) on the first three tracks, and then place gasket (Part #: QWP-MMSD-V5FG6(B/W)) (BLUE) on the other three tracks. This will go on each face profile of the frame header. Place 2 of the corner keys (Part #: FE_25-7x10-35-DT) in both ends of the frame header by arrow (A) and place corner key (Part #: M25762-PCS) by arrow (B). Then join to both frame jambs to head. Trim weather strip flush to both ends. Step 11, figure B shows the 90 degree angled joint, place 1 gasket (Part #: QWP-MMSD-V4FG3(B/W)), and 1 of (Part #: QWP-MMSD-5FG12(B/W)) on the face. Then slide 2 corner keys (Part #: M25763-PCS) A and one (Part #: M25764-PCS) in B as shown above into the angled head.

(NOTE: These keys are for installation purposes only.)

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For Two-piece Headers Needing a Splice:

Place a gasket on the face profile of the frame header. Put two splice keys in the first header as shown & screw those in place with 2 or 3 corner key screws. Then slide the other header over the keys and secure in place with 2 or 3 more corner key screws. See below for gaskets and corners keys.

3 Tracks

Gaskets -QWP-MMSD-V4FG2(B/W) Corner keys-FE_26X10_200_TC

4 Tracks

Gaskets -QWP-MMSD-V5FG7(B/W) Corner Keys -FE_26X10_200_TC and M25762-PCS

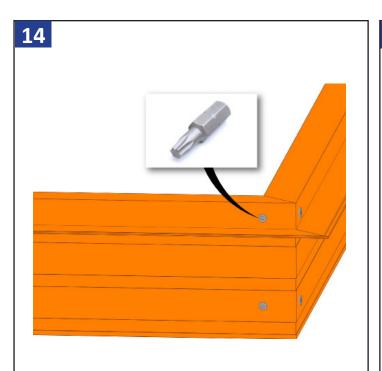
5 Tracks

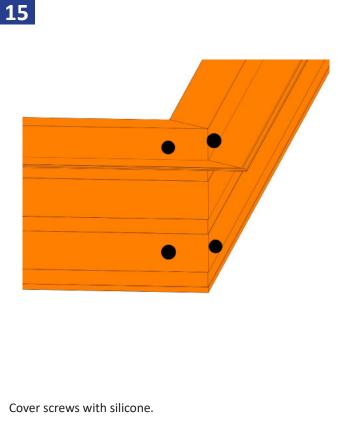
Gaskets -QWP-MMSD-V5FG8(B/W) Corner Keys -FE_26X10_200_TC and M25762-PCS

6 Tracks

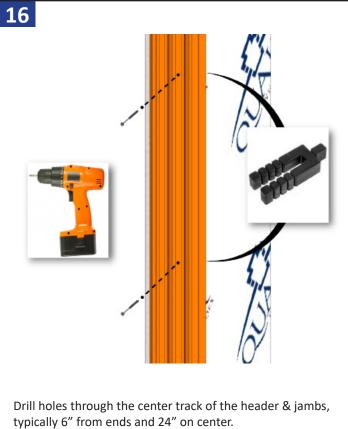
Gaskets -QWP-MMSD-V4FG2(B/W) and QWP-MMSD-V5FG9(B/W) Corner Keys -FE_26X10_200_TC and M25762-PCS

QWP part # IG-087





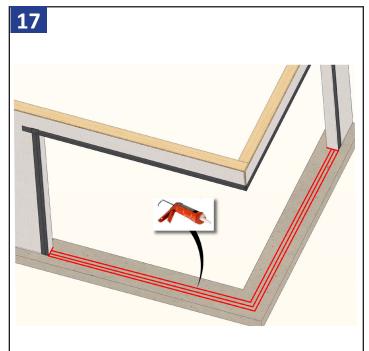
Start 4 screws (Part #: FE FAST2) into the keys at the mitered corner. Then tighten all screws.



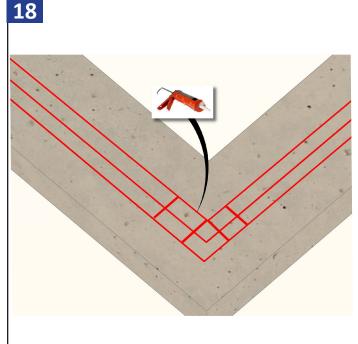
(Drill bit size is based off the screw being used.)

Repeat for the other side.

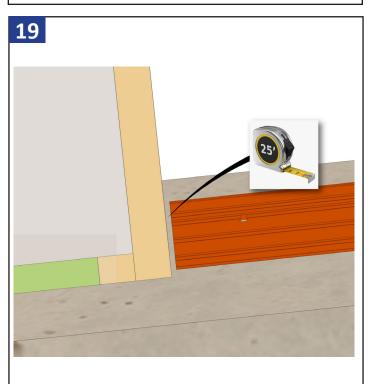
SILL PAN INSTALL



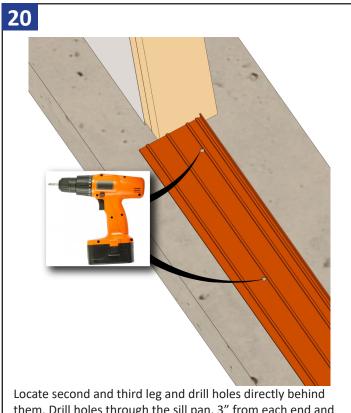
Apply three 3/8" continuous beads of sealant across the entire width of the rough opening sill where the sill pan will sit. Be sure to make a continuos path around the corner as shown above. Apply two 3/8" continuous beads of sealant the width of the pan, 1/2" from each side of opening as shown above.



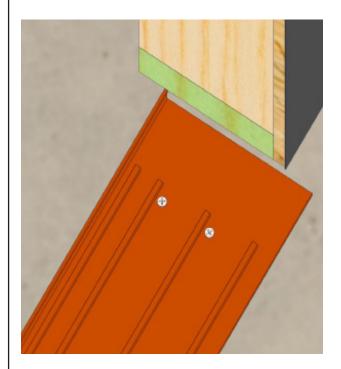
On each side of the 90 degree corner apply 2, 3/8" beads of silicone across the 3 beads of silicone as shown above.



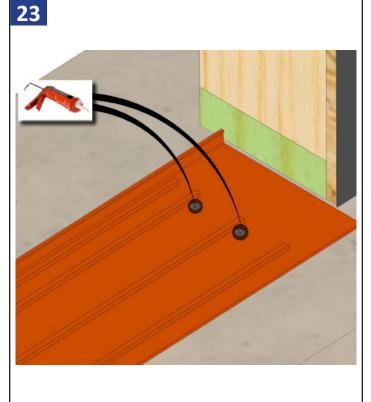
Allow a 1/4" gap between the rough opening and the sill pan.



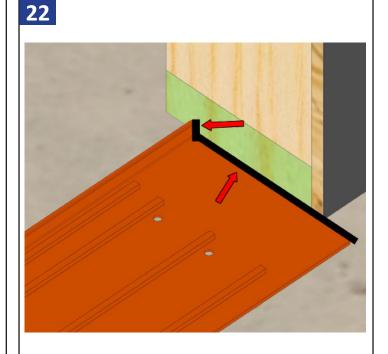
them. Drill holes through the sill pan, 3" from each end and then 14" on center for the length of the pan, alternating between the 2 tracks. Blow out the debris on the sill pan. (Drill bit size is based off screw size) 21



Using a screw with head shorter (less than .150"), screw down the sill pan. Check to make sure sill pan is still level. Shim accordingly.

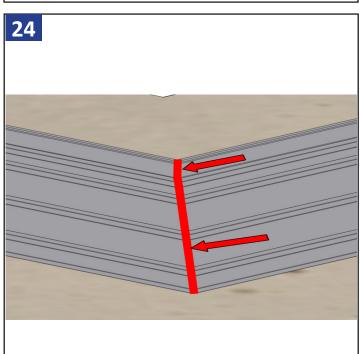


Silicone over all screws and tool in.



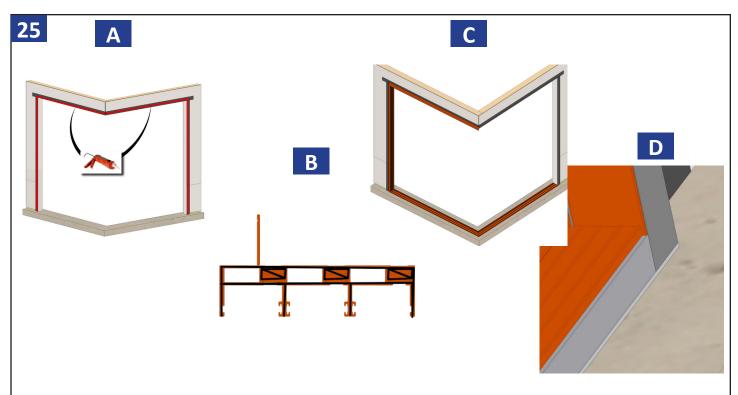
Silicone along the wall and upturned leg. Be sure to tool in the sealant.

Repeat for the other side as well.



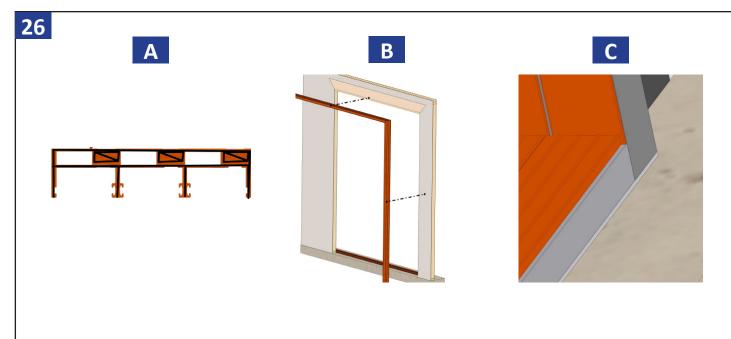
Apply silicone where the 2 sill pans meet, up the interior most leg, and makes a 90 degree corner. Make sure this joint is tight.

FRAME INSTALL



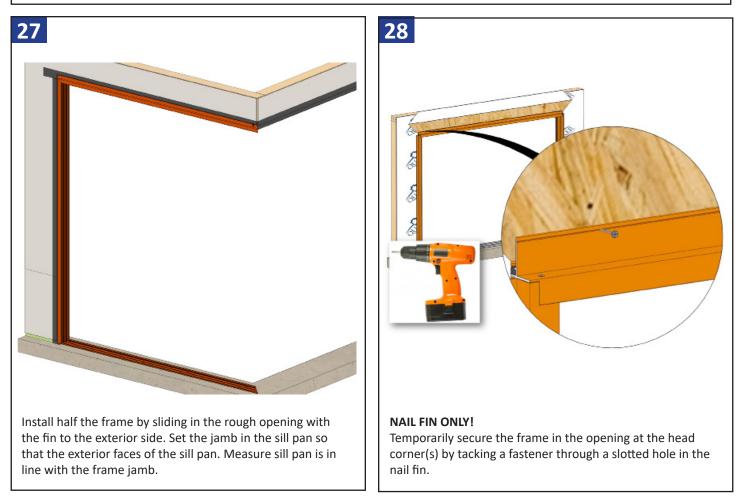
FOR NAIL FIN INSTALL ONLY!

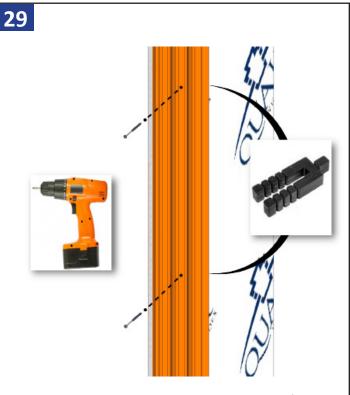
(A) Apply a continuous 3/8" bead of sealant around the perimeter of the opening as shown, (B) also trace the bottom of the frame jambs with sealant. (C) Install the frame by sliding in the rough opening with the fin to the exterior side. Set frame onto the sill pan, make the exterior face of the sill pan, (D) flush with the exterior face of the frame.



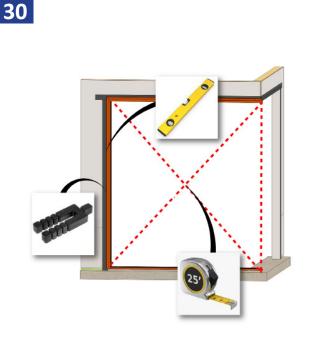
FOR NO NAIL FIN INSTALL ONLY!

(A) Trace the bottom of the frame jambs with sealant. (B) From the exterior, install the frame by sliding in the rough opening. (C) Set frame onto the sill pan, make the exterior face of the sill pan, flush with the exterior face of the frame.

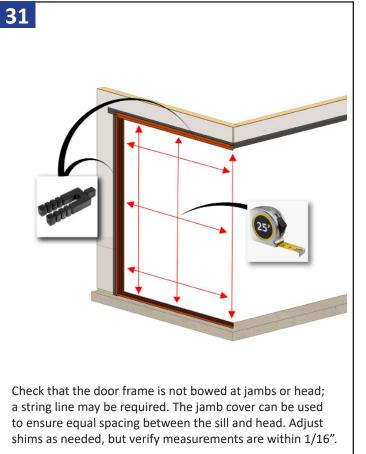


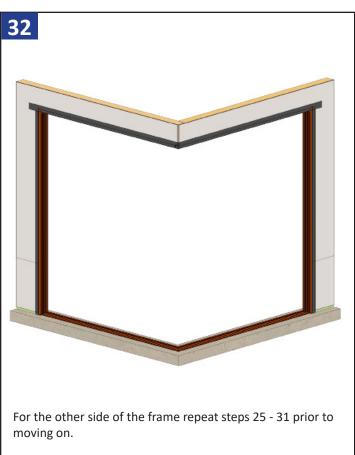


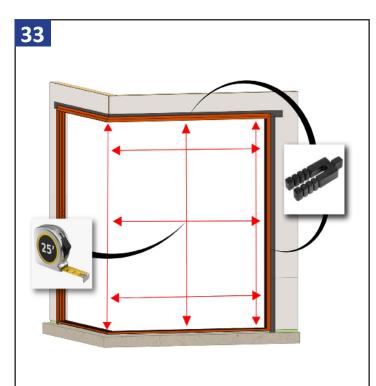
Temporarily set screw just deep enough to hold the frame in place. The screws through the center track of the header & jambs, typically 6" from ends and 24" on center for fasteners.



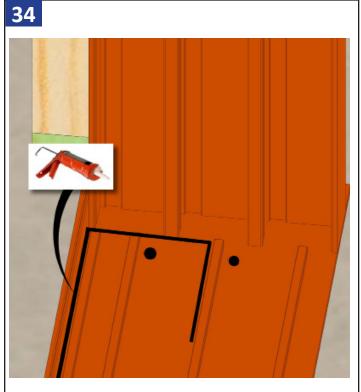
Square, level, and plumb the frame. Adjust shims as needed until diagonal measurements are within 1/8". Shim behind the header and jambs as necessary.



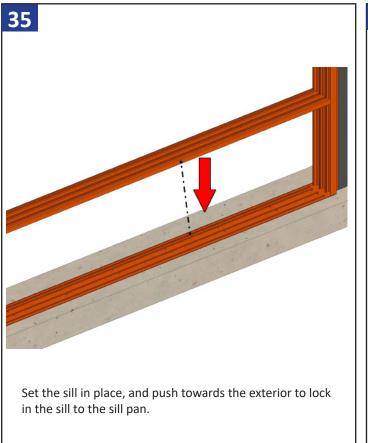


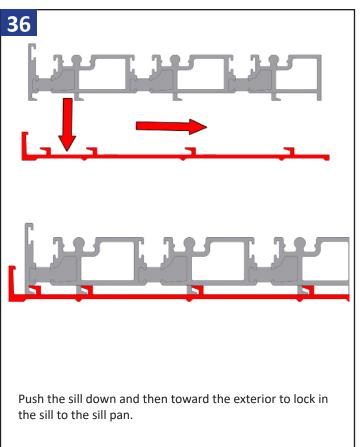


Take other side of the frame and slide it onto the 90 degree keys in the head.

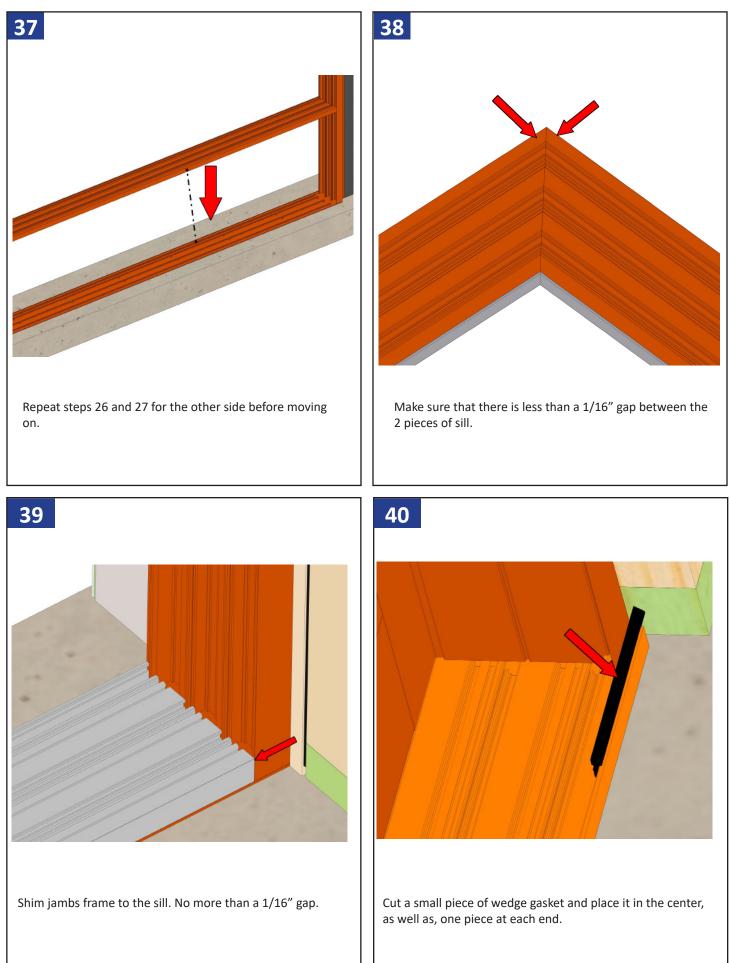


Run a bead of silicone along the wall, up the leg of the flashing pan, and along the interior most lip. Note: This will be the space between the lip of the flashing pan and the first leg, as shown above.



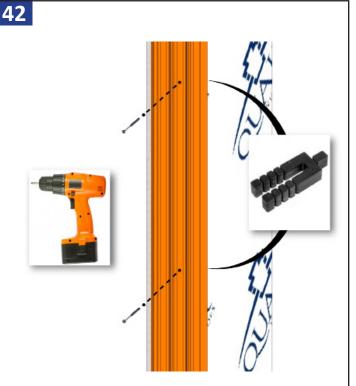


QWP part # IG-087

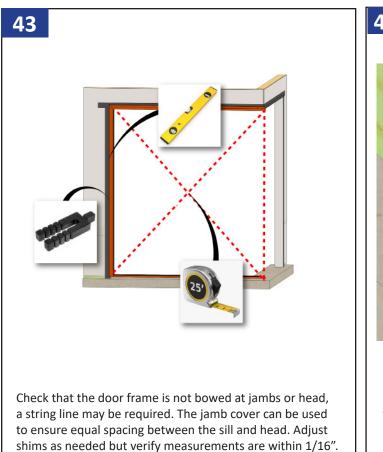




NAIL FIN ONLY! Fully fasten the screws down now to hold the frame in place.



Fully fasten the screws down now to hold the frame in place. The holes through the center track of the header & jambs, typically 6" from ends and 2' on center for fasteners. Shim tight to sill pan.

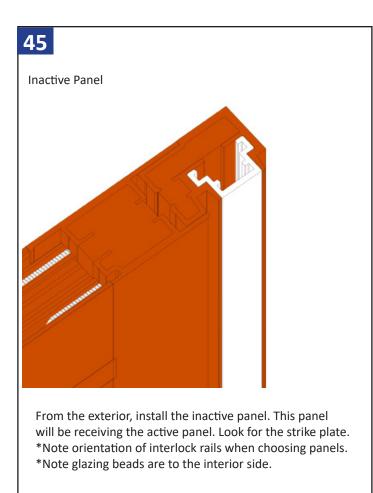




Locate the interior side of the sill. Push the sill down and towards the exterior to lock in place. Take the wedge gasket (Part #: 4874-02-00) and press in place. Note: This will run the whole length of the sill pan.

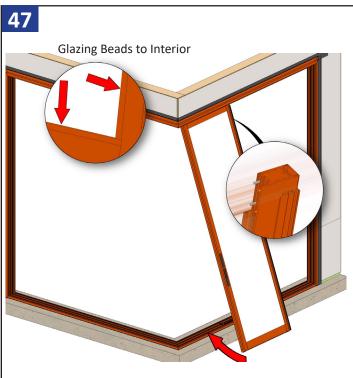
Repeat for the other side.

PANEL INSTALL



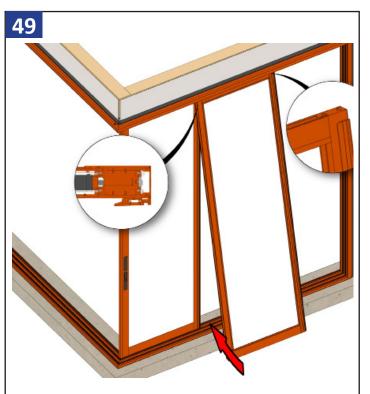


*Note orientation of interlock rails when choosing panels. *Note glazing beads are to the interior side.

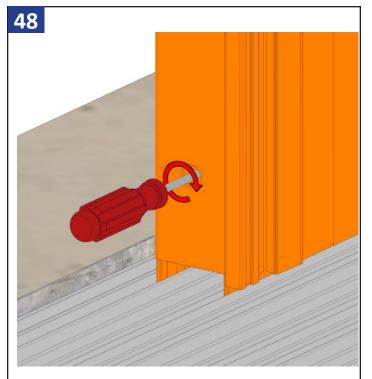


From the exterior, install the locking panel with the handle, by tilting the top into the inner most head track and setting the bottom of the panel in the inner most groove in the sill track.

*Note orientation of interlock rails when choosing panels. *Note glazing beads are to the interior side.



On the exterior side repeat for the middle panel, setting it into the middle tracks in the head and sill. Make sure the panels are overlapped when installing so the interlocks will engage properly.



Use a #2 phillips screwdriver to engage the roller adjustment on both sides of a panel. Turn clockwise to raise the panel and provide smooth rolling. If possible, lift the panels slightly when adjusting to take pressure off the rollers. Roll panel back and forth 2-3 times to verify roller height is set. **Repeat this step for each panel installed.**

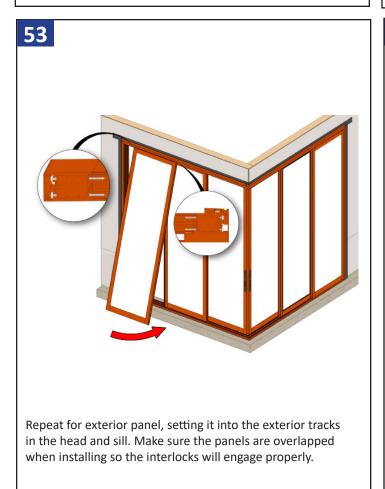


Repeat for exterior panel, setting it into the exterior tracks in the head and sill. Make sure the panels are overlapped when installing so the interlocks will engage properly.



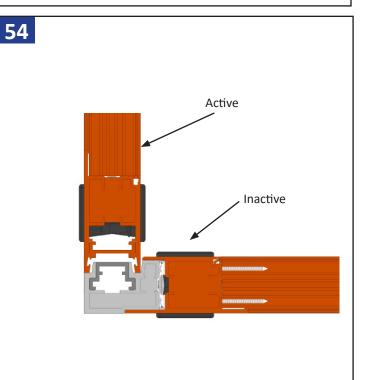
From the exterior, install the locking panel with the handle, by tilting the top into the inner most head track and setting the bottom of the panel in the inner most groove in the sill track.

*Note orientation of interlock rails when choosing panels. *Note glazing beads are to the interior side.

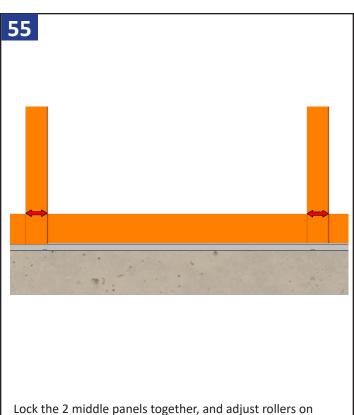




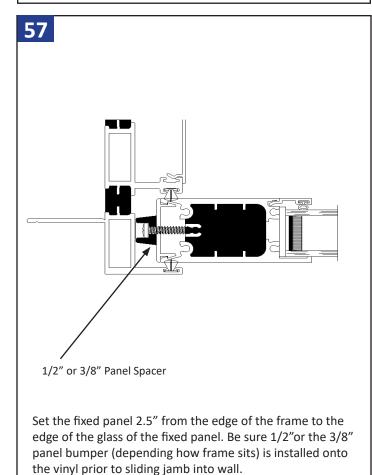
On the exterior side repeat for the middle panel, setting it into the middle tracks in the head and sill. Make sure the panels are overlapped when installing so the interlocks will engage properly.



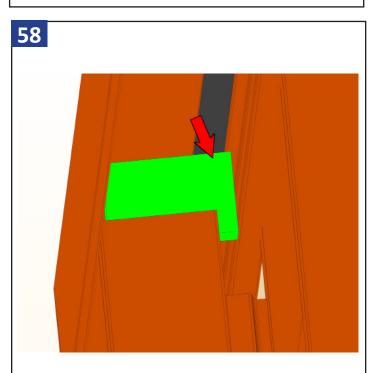
Once all the panels are installed close the panels. Make sure the inactive and active panels lock as shown above.



Lock the 2 middle panels together, and adjust rollers on all panels so they roll smoothly. Start with the 2 hardware panels and work your way towards the fixed panels. Check the reveal of the glass at the bottom of panels and adjust as needed to line up all panels.



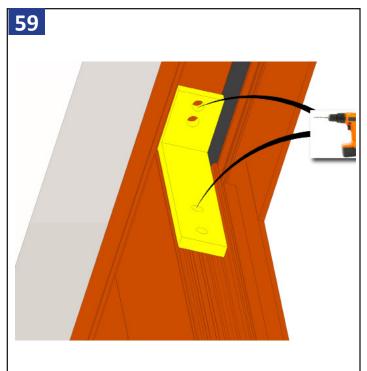
Slide each set of panels apart to check that the reveal matches at the top and bottom. Adjust rollers as needed to match reveal across panels.



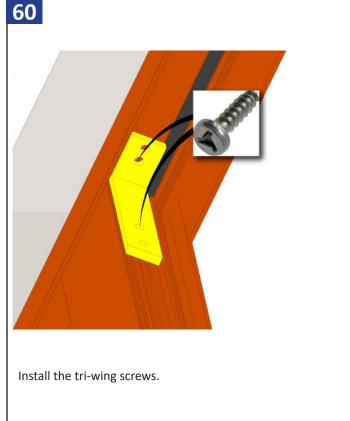
Slide the fix panel fully into the frame jamb, then take the frame head dust plug and remove backing. Slide the dust plug in between the head and the top of the fixed panel. The edge of the panel and the face of the dust plug should be flush.

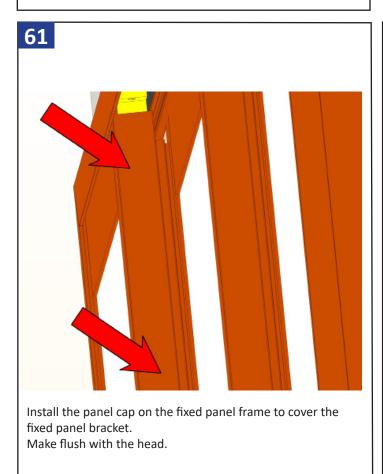
Repeat this step on the other side.

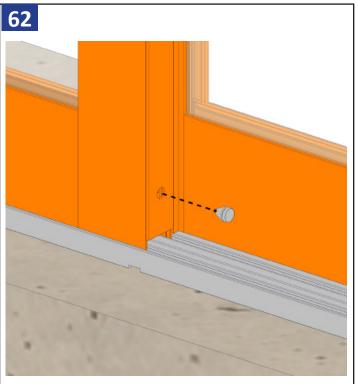
QWP part # IG-087



Take the **Fixed Panel Bracket**, slide it to the head drill holes for the tri-wing screws.

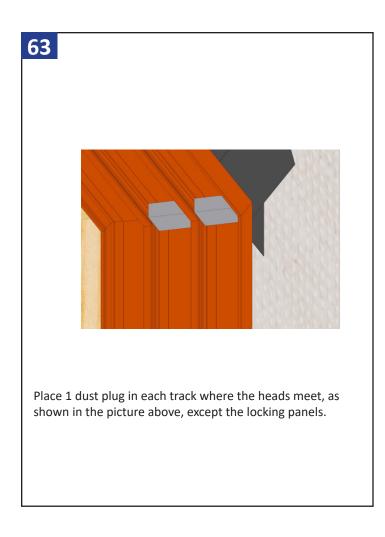




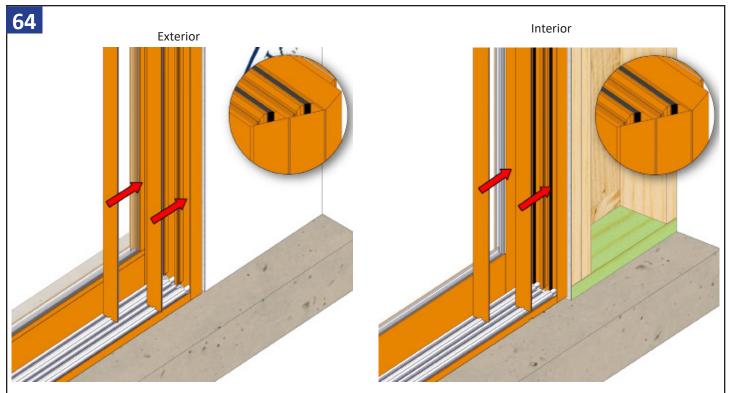


Once all panels have been adjusted install the panel bumpers (Part #: 9309K86) into each roller adjustment hole.

Repeat steps 54-59 for the other side.

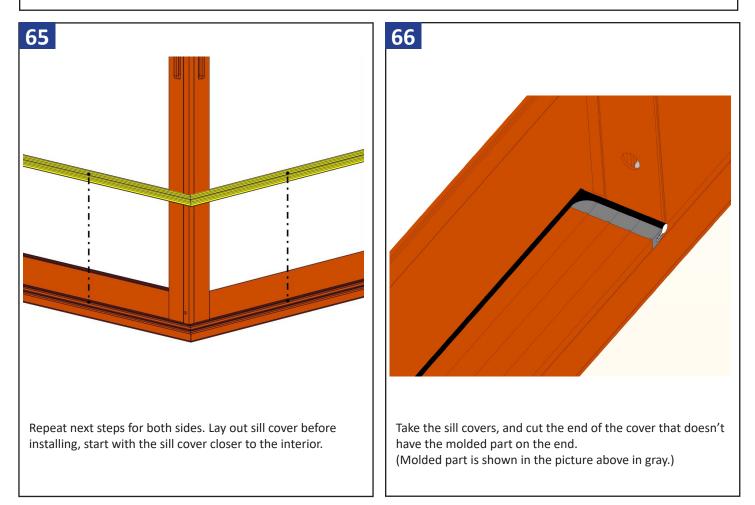


Frame Covers

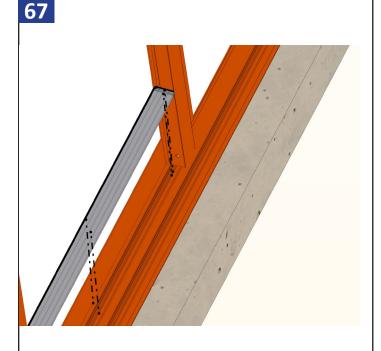


LOCK THE DOOR CLOSED FIRST!

With rubber mallet, on the exterior jambs of the door, install two frame jamb covers - one in the middle track and one in the outermost track. Repeat for the interior jambs for the middle and most interior jambs. If a mallet is needed to install the jamb covers, use a wood block in between. DO NOT HIT THE JAMB COVERS DIRECTLY! Repeat on the other side.

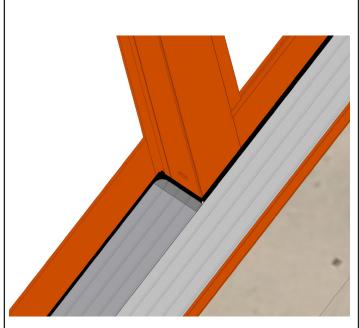


QWP part # IG-087



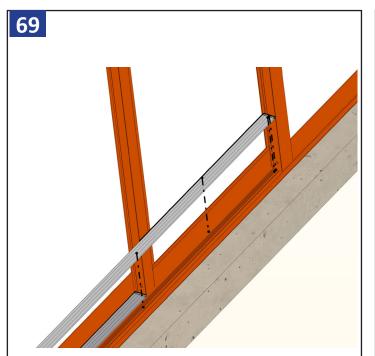
Install the interior sill cover.

DO NOT HIT THE SILL COVERS DIRECTLY DURING INSTALL! NOTE: ON ACTIVE PANEL MEASURE FROM PANEL TO FRAME AND SUBTRACT 1/16", CUT, THEN PLACE AGAINST FRAME. CUT LONG YOU CAN ALWAYS CUT MORE OFF!



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On the exterior sill cover cut out the weather strip where it meets the sill cap you just previously installed.



Next install the exterior sill cover. DO NOT HIT THE SILL COVERS DIRECTLY DURING INSTALL! NOTE: ON ACTIVE PANEL MEASURE FROM PANEL TO FRAME AND SUBTRACT 1/16", CUT, THEN PLACE AGAINST FRAME CUT LONG YOU CAN ALWAYS CUT MORE OFF! **REPEAT FOR THE OTHER SIDE.**



Next install the short and long header covers in the exterior and middle tracks. Trim covers to fit if needed. DO NOT HIT THE HEADER COVERS DIRECTLY DURING INSTALL! NOTE: ON ACTIVE PANEL MEASURE FROM PANEL TO FRAME AND SUBTRACT 1/16", CUT, THEN PLACE AGAINST FRAME.

REPEAT FOR THE OTHER SIDE.

Weather Proofing



Nail fin only.

Apply flashing tape at the sides of the door as shown. Smooth using a J-roller. Extend tape a minimum of 2" past door frame, but not more than the thickness of the flashing tape.



Apply a 3/8" sealant bead to the perimeter edge of door frame before installing the drip cap.

Apply flashing tape over the drip cap leg, overlapping the side flashing as shown. Smooth using a J-roller.



Side flashing cannot extend above the top flashing. Doing so could result in product or property damage.



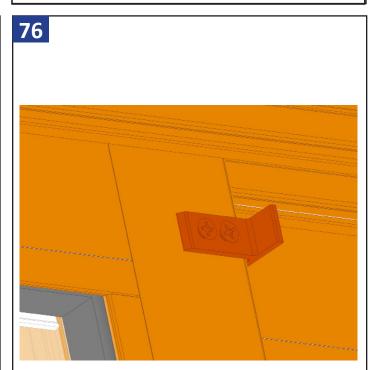
Unfold the house wrap top flap and tape the angled seams as shown.

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Apply a continuous bead of sealant at the exterior base of the sill. Be sure to not block the weeps on the bottom of the sill.



Insulate the gap between the door and framing with minimally expanding spray foam, and seal the entire interior perimeter with sealant.



On the interior side of the middle panels, take the panel pickups (Part #: M25296-PCS) and #10 screw (Part #:MF10AX1)that is provided. Take screws and attach the pickups. Install the panel pickup where the holes are already fabricated on the interior side of the door. wd

QWP part # IG-087





Installation Guidelines For Multi-Slide M2055 90 Degree Door with Weather Resistant Barrier Installed

If this set of instructions doesn't match your installation method or wall conditions please check our website listed below for other options, or call the office.



Quaker reserves the right to change the information contained in these guidelines without notice. 09/25/2023 V. 1.2