QUAKER
WINDOWS & DOORS

Installation Guidelines for Multi-Slide M2055 Single Direction Door with Weather Resistant Barrier Installed

PO Box 128 | 504 Highway 63 South | Freeburg, MO 65035 | 800-347-0438 |

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 www.quakerwindows.com or call 1-800-347-0438 for additional information. Inspect all units for any damage or defects prior to installation.

Tools required by installer:

Safety Glasses	Utility Knife
Drill/Driver	Caulk Gun
Level	Tape Measure
Hammer	J-Roller
Putty Knife	Staple Gun
Phillips #2 Screwdriver	Metal Cutting Saw
Torx #20 Bits	

Materials required by installer:

Foam Backer Rod	Minimally Expanding Spray Foam
Shims (waterproof)	C920 Silicone
Flashing Tape (Self-Ahering)	Water Resistant Barrier/House Wrap (WRB)
Fasteners	IPA Alcohol

⚠ 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.

Quaker reserves the right to change the information contained in these guidelines without notice.   09/13/2023 V. 1.5

⚠ CAUTION

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: **www.epa.gov/lead**

- 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 **www.P65Warnings.ca.gov.**

⚠ **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 **www.P65Warnings.ca.gov/wood.**

1

Verify Header Support

Ensure the roof over the door system is full supported. Take into account the weight of any materials around the door system, because this may cause deflection. No more than 1/8" deflection is allowed for install. Confirm that all materials and fasteners are adequate for the load requirements.

**If you have any questions please feel free to call us at Quaker Windows.**

Phone : 1 (800) 347 – 0438.

2

STANDARD OPERATING PROCEDURE

SOP#	TITLE	DATE	ASSOCIATE
	Packing List For 3 Panel Door	3/20/2023	J Loehner
RMS.V5	VERSION 1.0 DEPT 551 SERIES		RMS V5 Packing List

- ☐ (M25275) -----Sill Pan For Opening-------- **1**
  - *If Door calls out over 240" need to Splice Cut in Half. Then would be 2 Pieces. Under 240" only 1 piece.*
- ☐ (FE_25-7X10-35-DT) --------Frame Corner Key-------- **4**
- ☐ (FE_FAST2) --------Corner Key Frame Screw--------- **8**
  - ****Add 4 If Unit Is Spliced.*
- ☐ (FE_26X10_200_TC) --------Frame Splice Key-------- **2**
  - ****These should only be sent with Spliced Door Sytems*
- ☐ (M24705) -----------Frame Jamb Covers---------- **4**
- ☐ (M24705) --------Long Frame Head Covers-------- **1**
- ☐ (M24705) --------Short Frame Head Cover-------- **1**
- ☐ (M25278) ------ Sill Covers------------- **2**
  - * Make sure 3D Part # TBD is on End of Sill Cover
  - * Supply Weatherstripping Part # TBD
- ☐ (9309K86) --------------Panel Bumper-------------- **6**
- ☐ (ST150-16) ----SS Roller Tracker Cover------- **3**
  - * ST150-20 is used if Sill is longer than 192"
  - * If spliced sill over 240" Double the amount needed

Before installing your door, unpack all parts and place near the opening. Make sure you have all parts according to the packing slip and check for damaged parts.

3
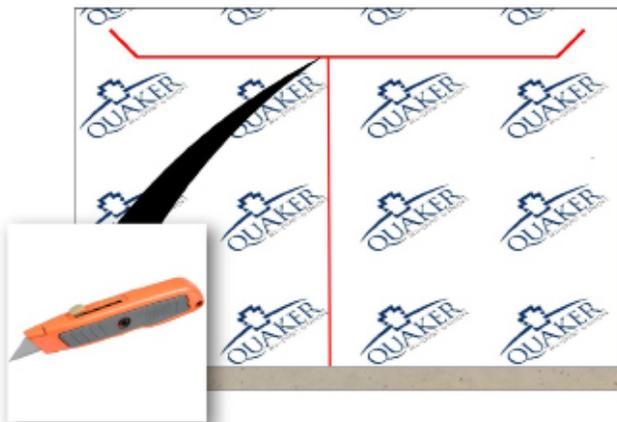
Apply the house wrap according to the manufacturer's instructions and cut T-pattern opening as shown above. Cut top flap angles at 45 degrees and 1" longer than the width of flashing tape being used.

4
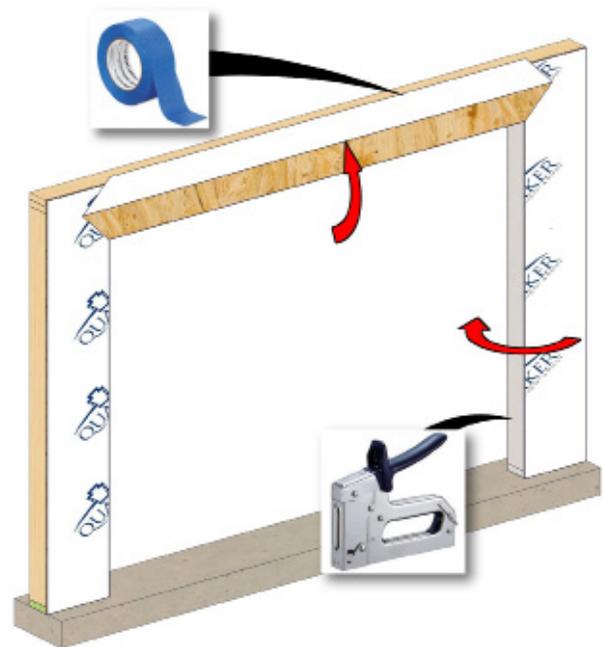
Fold the house wrap around the jambs to the interior and staple it to the interior framing. Fold the house wrap flap up and temporarily tape it in place.

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5
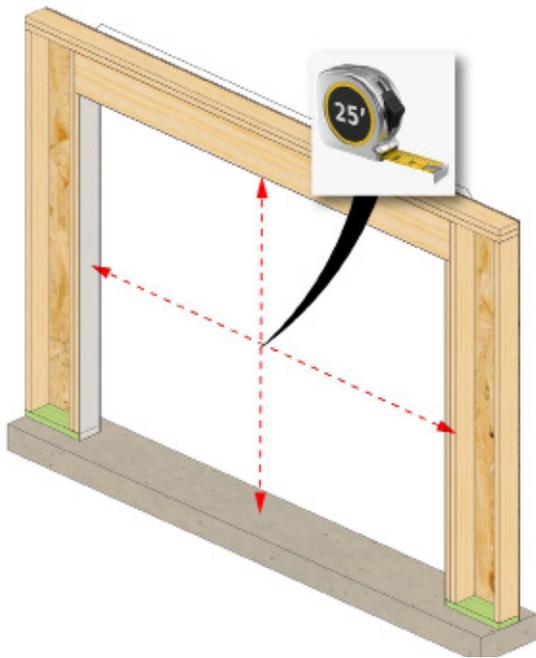
Measure and verify the rough opening is sized correctly. The rough opening should be 3/4" wider and 1/2" taller than the unit. Allow additional space for flashing thickness, installation clips, joining components, and their fasteners.

6
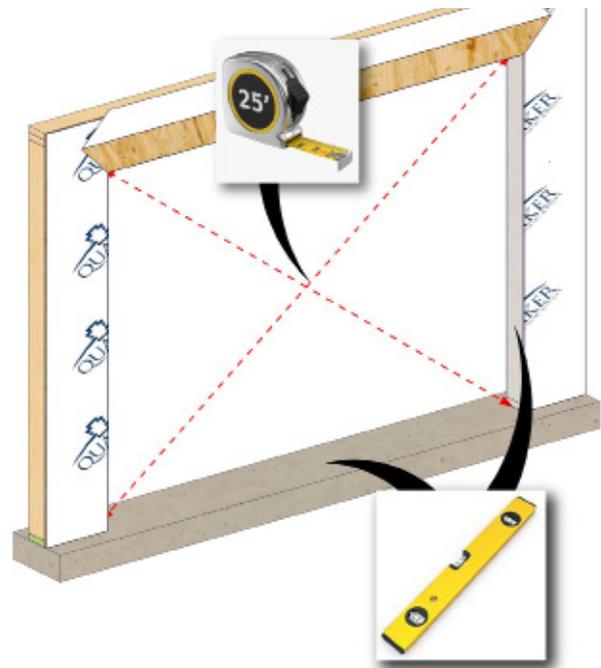
Check that the opening is square. The diagonal measurements need to be within 1/8" of each other. Verify the rough opening is plumb and level.

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

7

Exterior Side   Interior Side

4.875"

Sill Support by Others
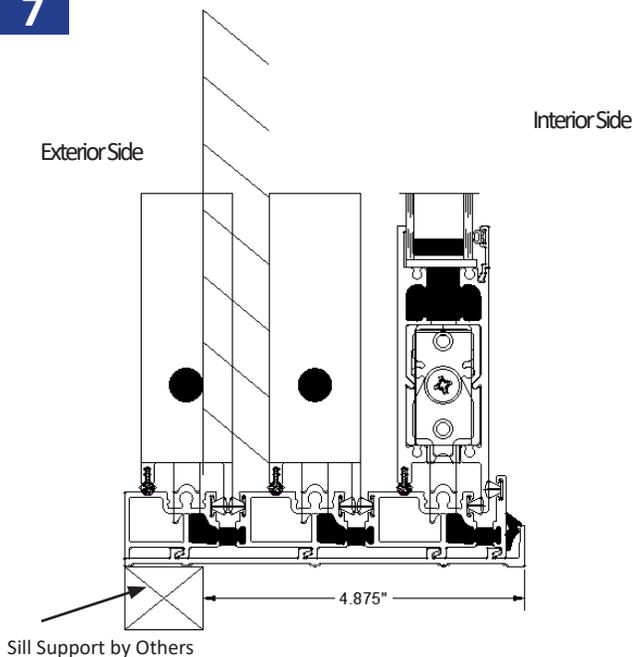
The sill pan will set 4 7/8" in from the exterior face of wall framing, where the frame positioning fin sits.

⚠️ **The unit must be supported the full width and depth of the sill.**

(Note: For Nail fin installation only.)

8

Interior Side

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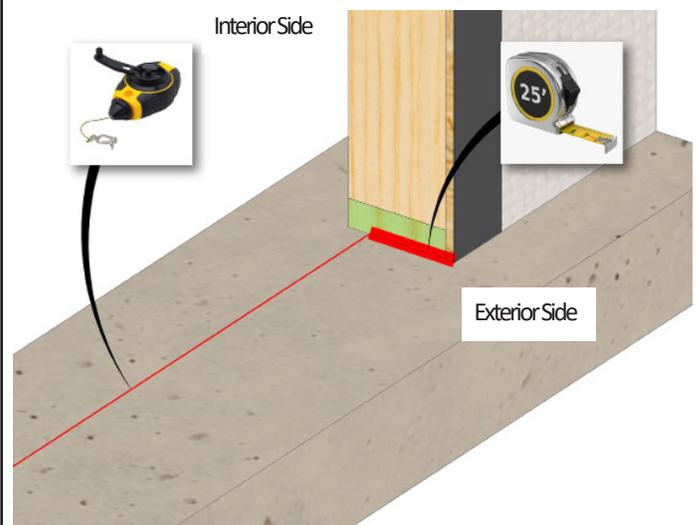
Measure and set a chalk line on the sub floor 4 7/8" in from the exterior wall face. Dry fit the provided sill pan system with the rear upturned leg on this line.
The sill condition must be level.

9

Interior Side

Exterior Side
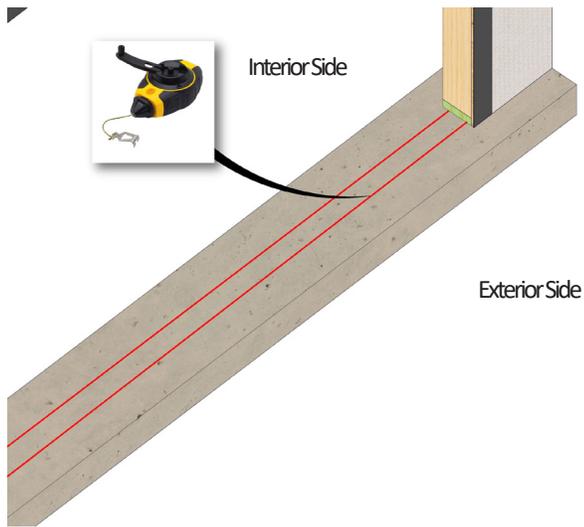
Snap another chalk line, width of sill pan from previous chalk line. This is where the sill pan will sit.

10

Interior Side

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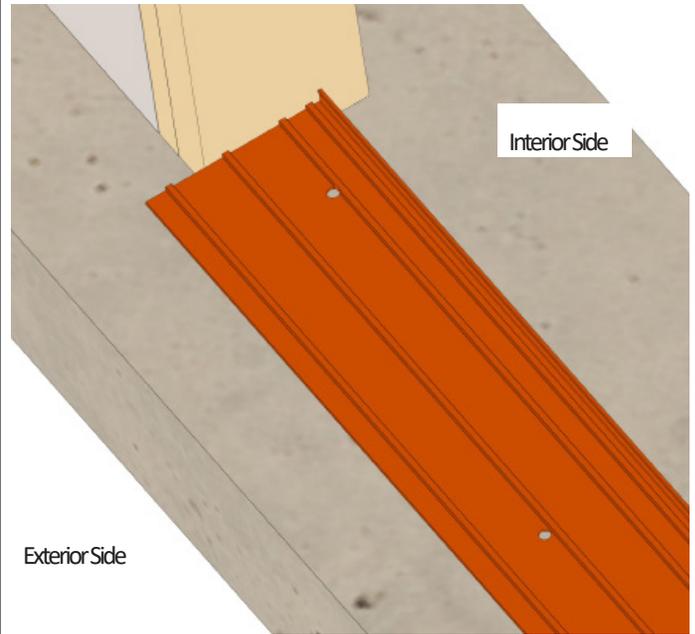
Rough fit the sill pan in place to ensure of proper fitment.

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.

11
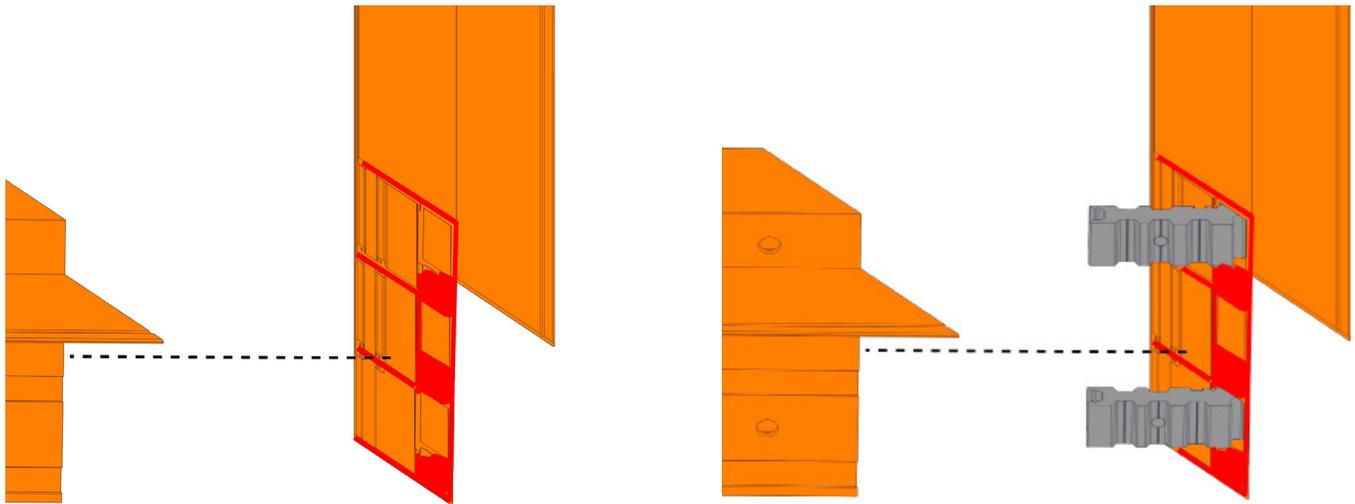
Place a gasket (Part #: QWP-MMSD-V4FG1(B/W)) on each face profile of the frame header. Place 2 of the corner keys (Part #: FE_25-7x10-35-DT) in both ends of the frame header and join to both frame jambs. Trim weather strip flush to both ends.

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11 4 Tracks
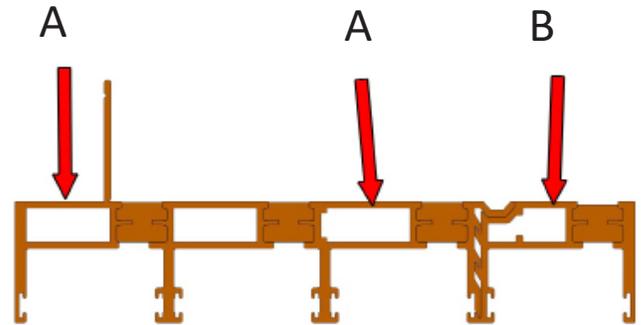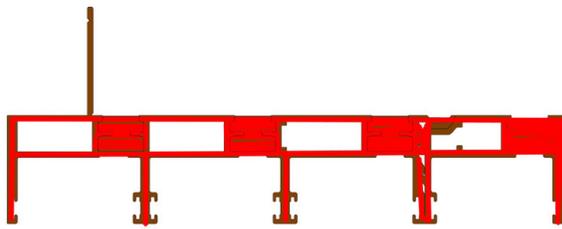
Place a gasket (Part #: QWP-MMSD-V5FG4(B/W)) on each face profile of the frame header. Place 2 of the corner keys (Part #: FE_25-7x10-35-DT) in both ends of the frame header by arrow (A) and place corner key (Part #: M25762-PCS) by arrow (B). Then join to both frame jambs to head. Trim weather strip flush to both ends.

11 5 Tracks
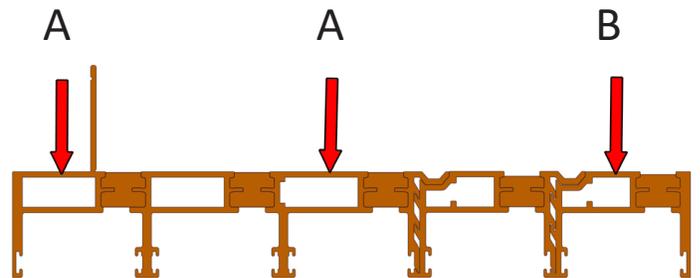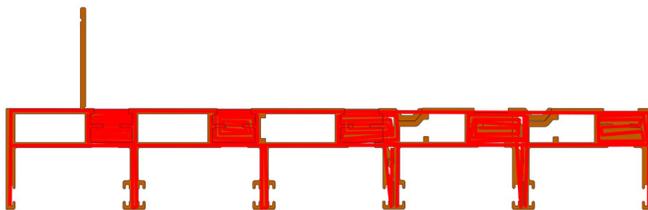
Place a gasket (Part #: QWP-MMSD-V5FG5(B/W)) on each face profile of the frame header. Place 2 of the corner keys (Part #: FE_25-7x10-35-DT) in both ends of the frame header by arrow (A) and place corner key (Part #: M25762-PCS) by arrow (B). Then join to both frame jambs to head. Trim weather strip flush to both ends.

11 6 Tracks
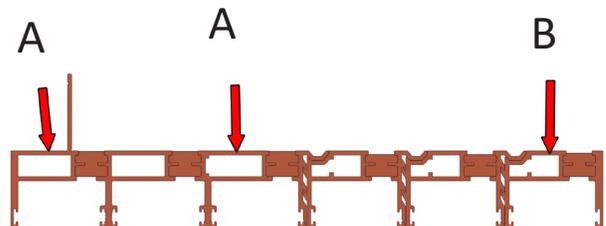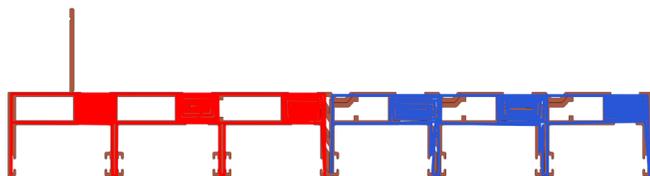
Place gasket (Part #: QWP-MMSD-V4FG1(B/W)) (RED) on the first three tracks, and then place gasket (Part #: QWP-MMSD-V5FG6(B/W)) (BLUE) on the other three tracks. This will go on each face profile of the frame header. Place 2 of the corner keys (Part #: FE_25-7x10-35-DT) in both ends of the frame header 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.

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12
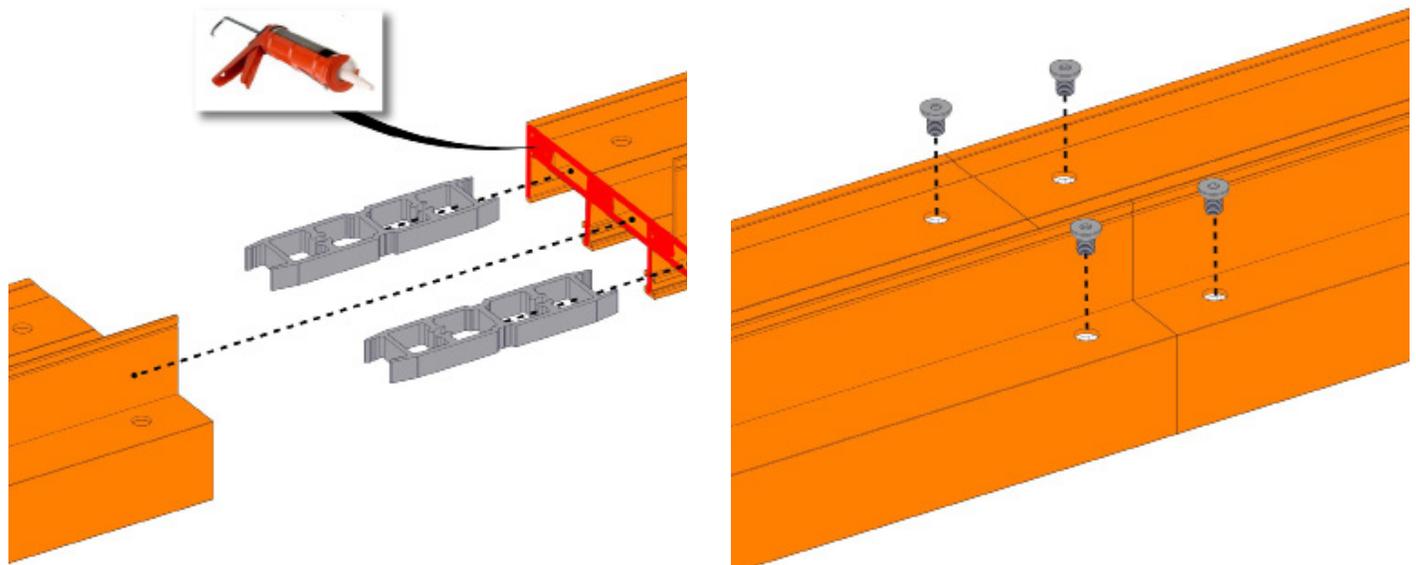
For Two-piece Headers Needing a Splice:
Place a gasket on the face profile of the frame header. Put two splice keys in the first header as shown & screw those in place with 2 corner key screws. Then slide the other header over the keys and secure in place with 2 more corner key screws.

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

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13
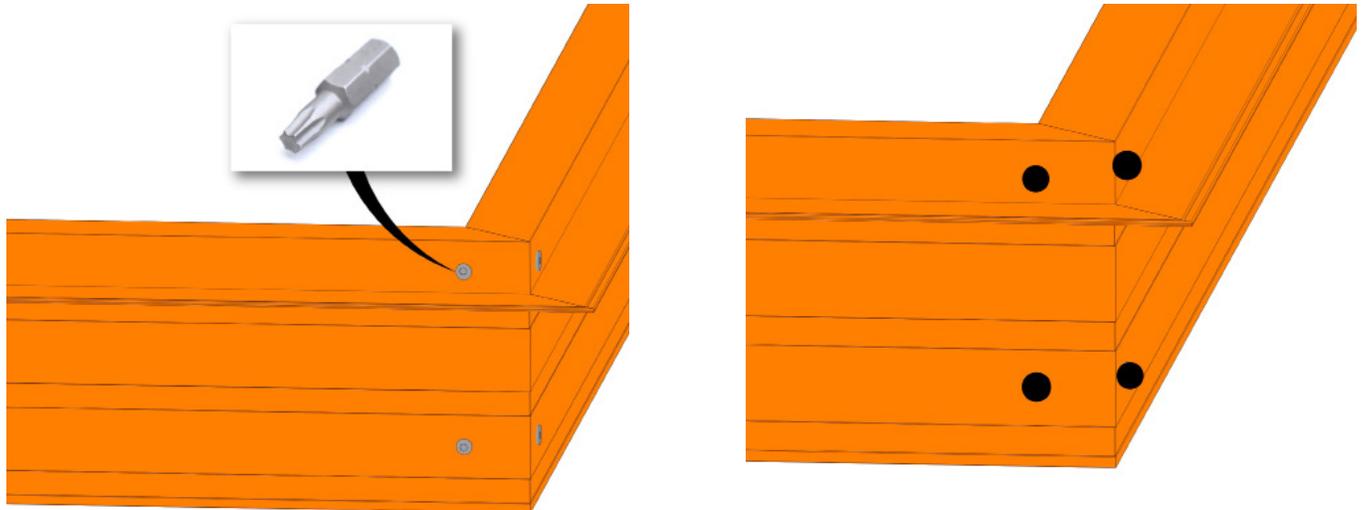
Start screws (Part #: FE FAST2) into the keys at each corner.
Then tighten.
Cover screws with silicone.

14
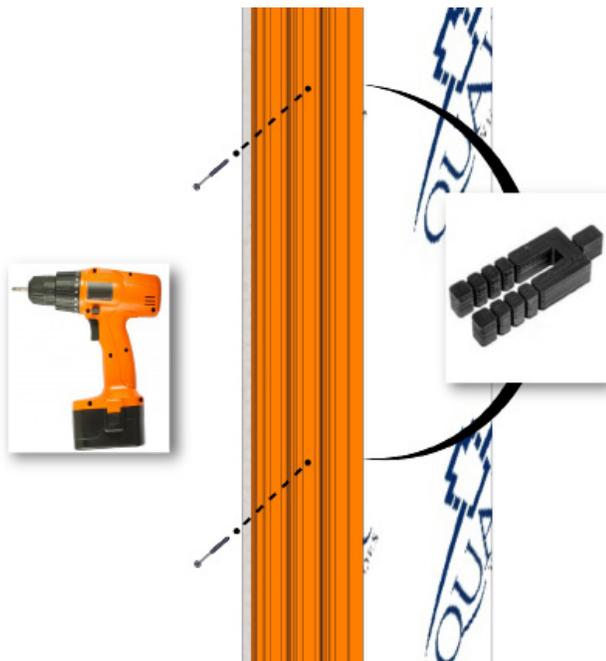
Drill holes through the center track of the header & jambs,
typically 6" from ends and 24" on center.
(Drill bit size is based off the screw being used.)

SILL PAN INSTALL

For the different track configurations the sills and sill pan will install the exact same way, the only difference between them will be the widths of them both.

15
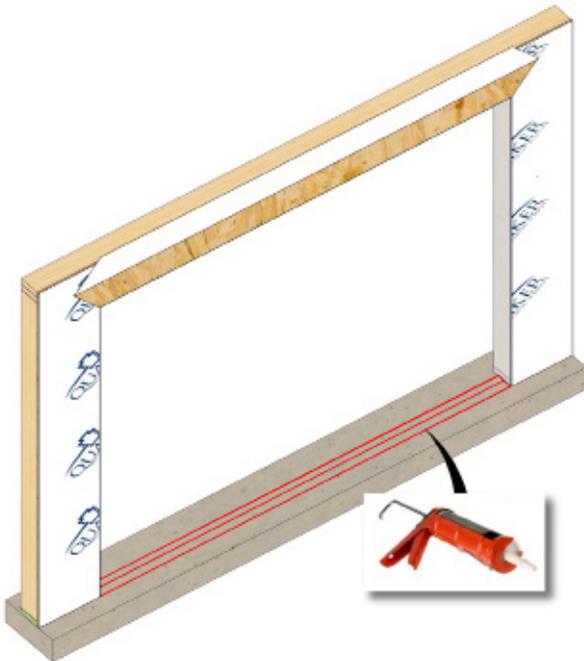
Apply three 3/8" continuous beads of sealant across the entire width of the rough opening sill where the sill pan will set. Apply two 3/8" continuous beads of sealant the width of the pan, 1/2" from each side of opening as shown above.

16
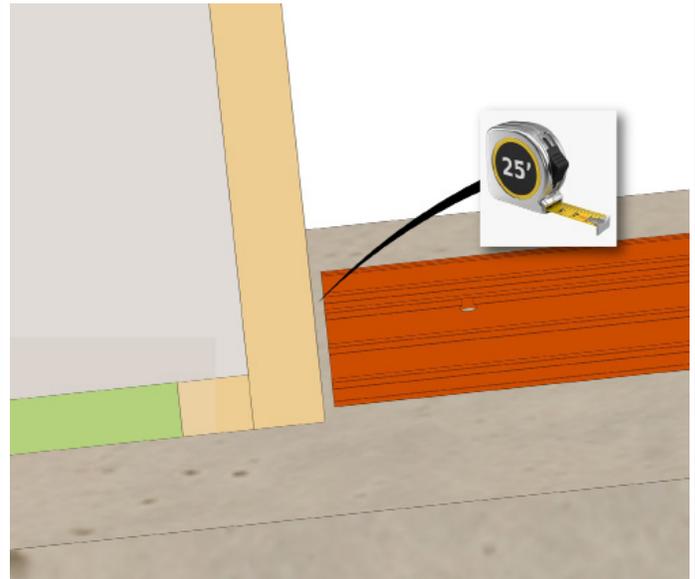
Allow a 1/4" gap between the rough opening and the sill pan(s).

Note: if two sill pans are provided leave a 1/4" gap on each end and but the sill pans together tight in the middle.

17

Locate second and third leg and drill holes directly behind 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.
(Drill bit size is based off screw size)

18
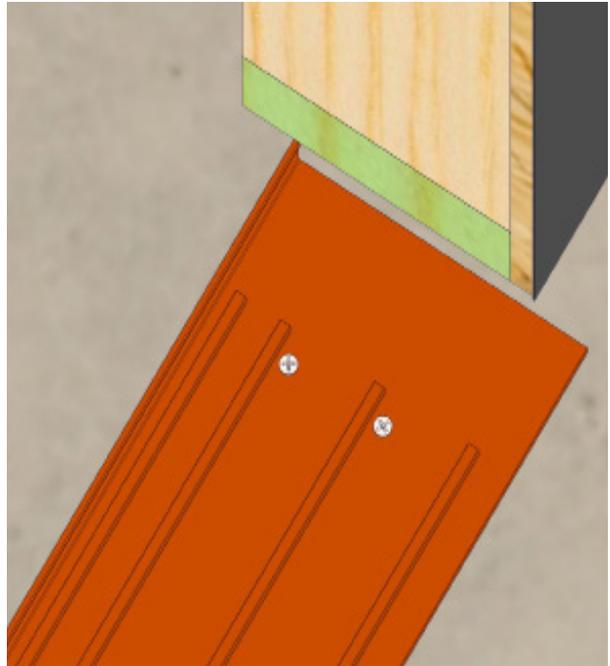
Using a screw with head shorter (less than .150"), screw down the sill pan.

19
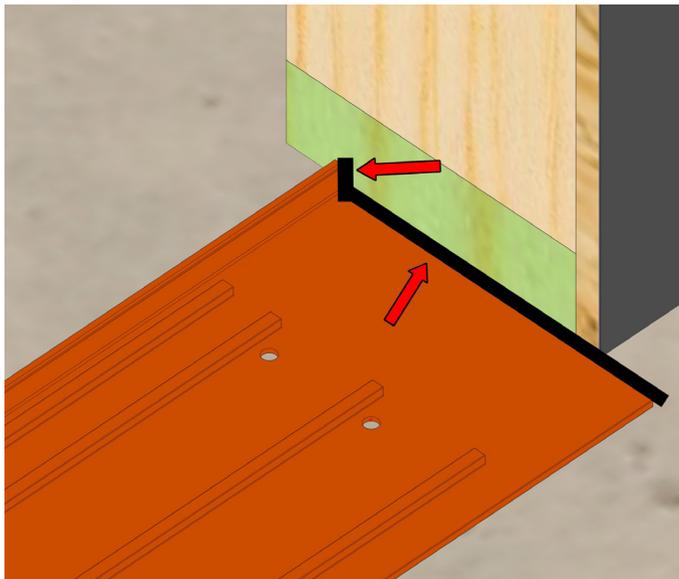
Set the sill pan in place along the wall and upturned leg apply silicone. Be sure to tool in the sealant.
If spliced run a bead of silicone exactly like this on the splice.

20
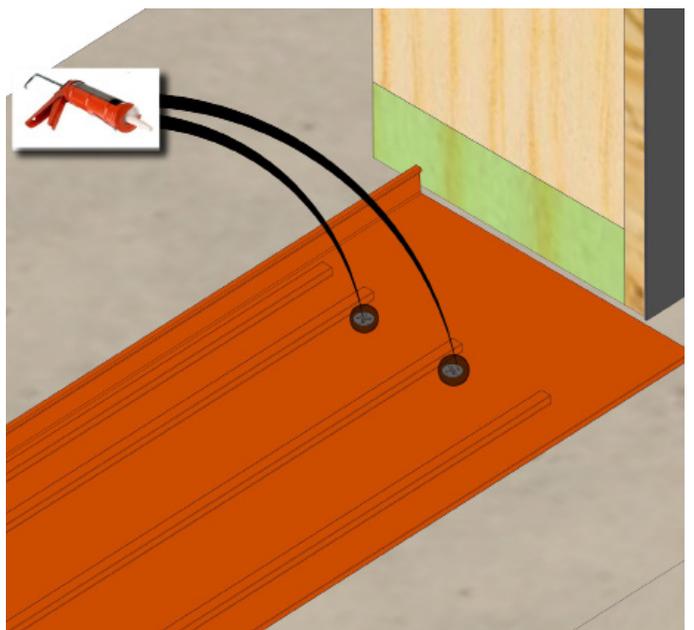
Silicone over all screws and tool in.

FRAME INSTALL

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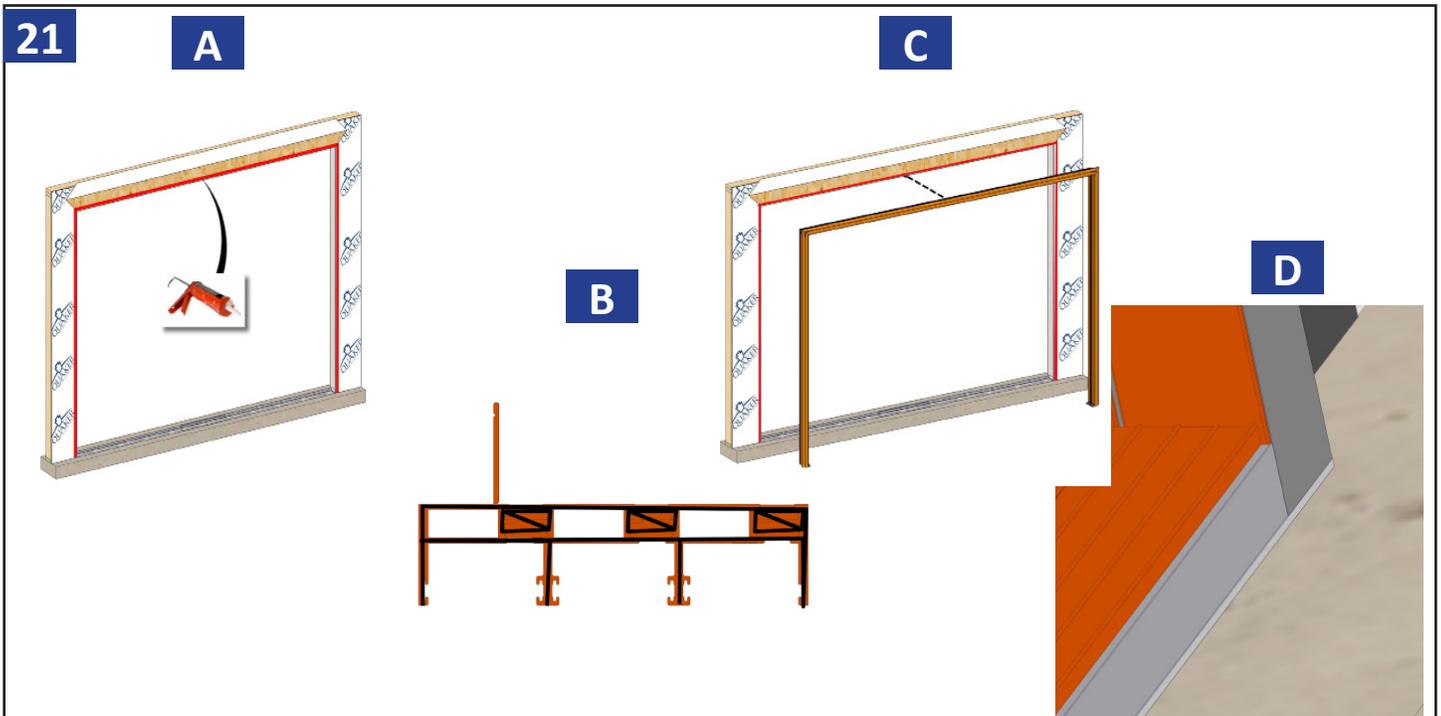
FOR NAIL FIN INSTALL ONLY!
(A) Apply a continuous 3/8" bead of sealant around the perimeter of the opening as shown, (B) also trace the bottom of the frame jambs with sealant. (C) Install the frame by sliding in the rough opening with the fin to the exterior side. Set frame onto the sill pan, make the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

22
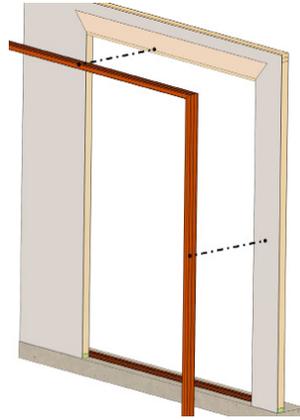
A　　**B**　　**C**
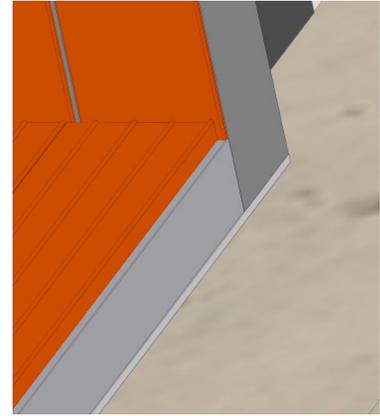
FOR NO NAIL FIN INSTALL ONLY!
(A) Trace the bottom of the frame jambs with sealant. (B) From the exterior, install the frame by sliding in the rough opening.
(C) Set frame onto the sill pan, make the exterior face of the sill pan, flush with the exterior face of the frame.

23

NAIL FIN ONLY!
Temporarily secure the frame in the opening at the head corner(s) by tacking a fastener through a slotted hole in the nail fin.

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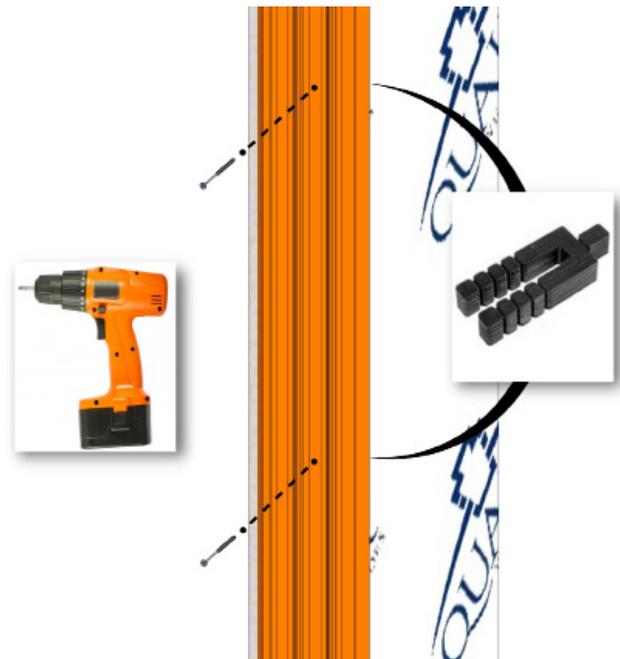
Temporarily set screw just deep enough to hold the frame in place. The screws through the center track of the header & jambs, typically 6" from ends and 24" on center for fasteners.

25
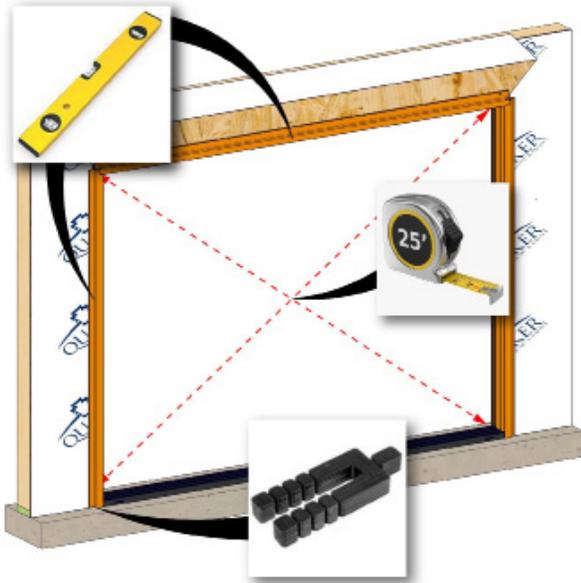
Square, level, and plumb the frame. Adjust shims as needed until diagonal measurements are within 1/8". Shim behind the header and jambs as necessary.

26
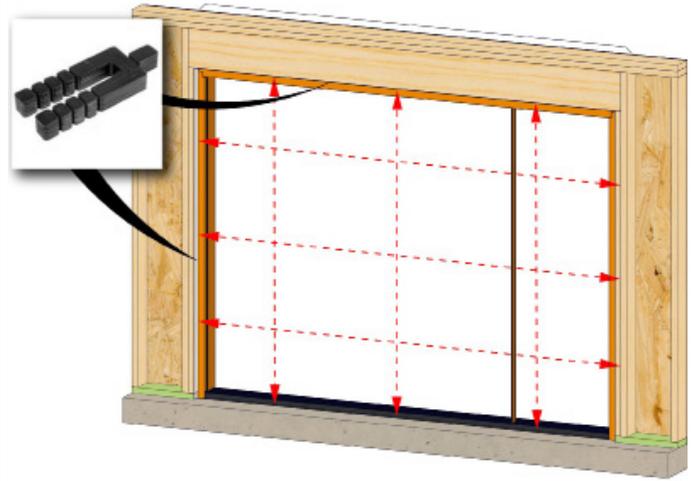
Check that the door frame is not bowed at jambs or head, a string line may be required. Adjust shims as needed but verify measurements are within 1/16".

27
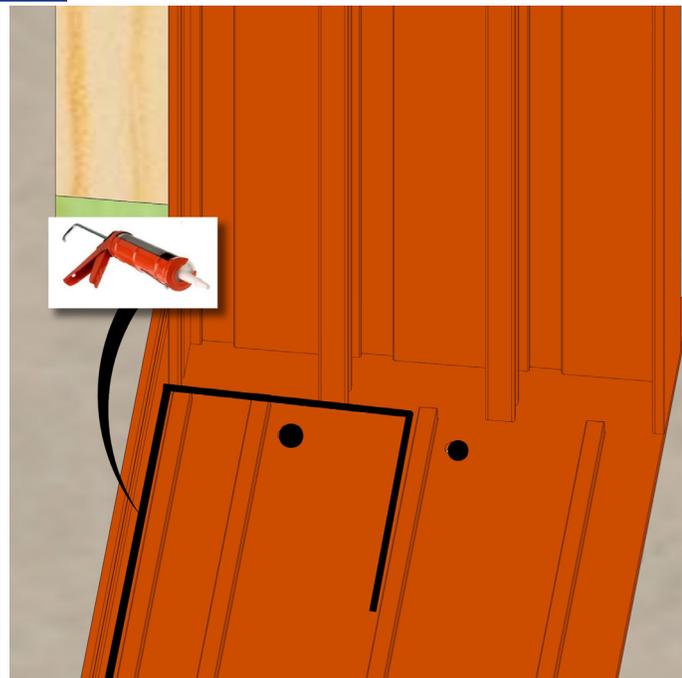
Run a bead of silicone along the wall, up the leg of the sill pan, and along the interior most leg the length of the sill pan.
Note: This will be the space between the lip of the sill pan and the first leg, as shown above.

28
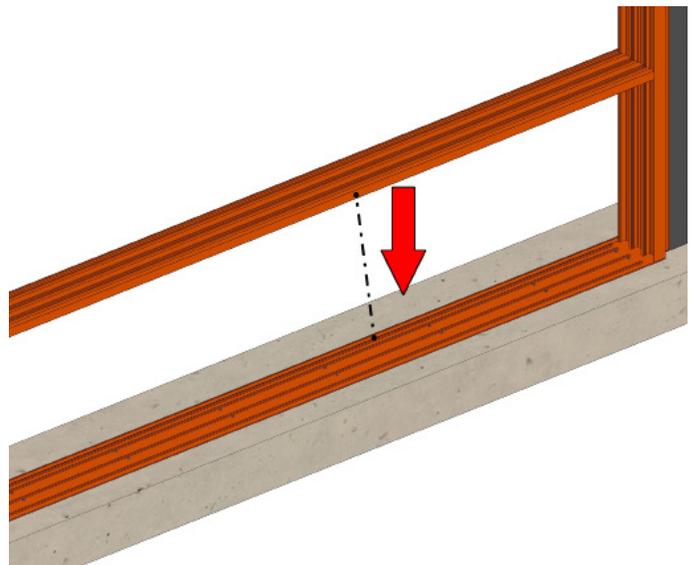
Make sure all foreign material is removed from sill and sill pan(s). Set the sill(s) in place.

Note: if two sill pans are provided but them tight in the middle.

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29
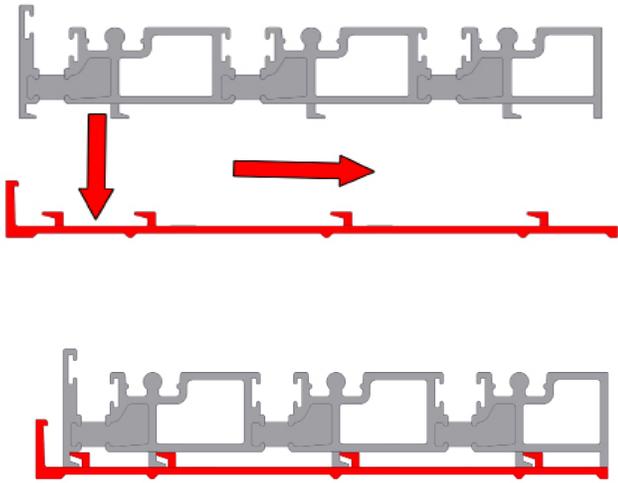
Push the sill down and then toward the exterior to lock in the sill to the sill pan.

30
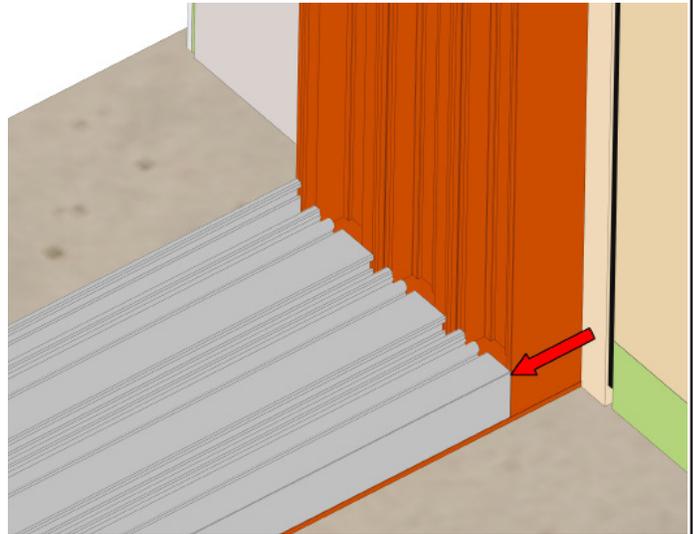
Shim jamb frame to the sill. No more than a 1/16" gap.

31
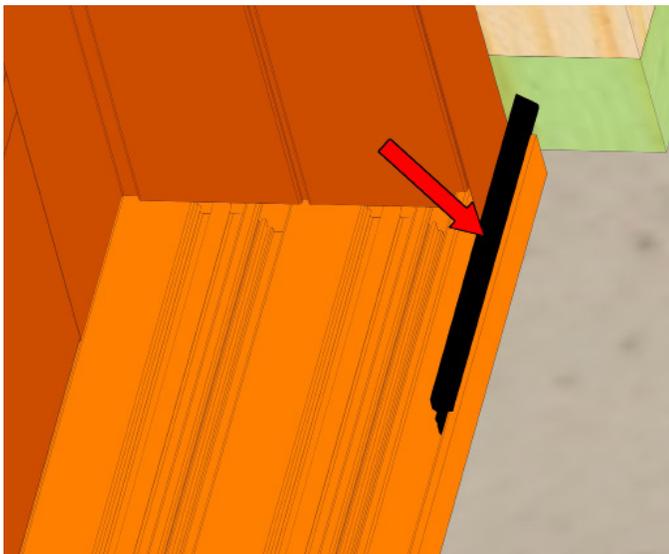
Cut a small piece of wedge gasket and place it in the center, as well as, one piece at each end.

32
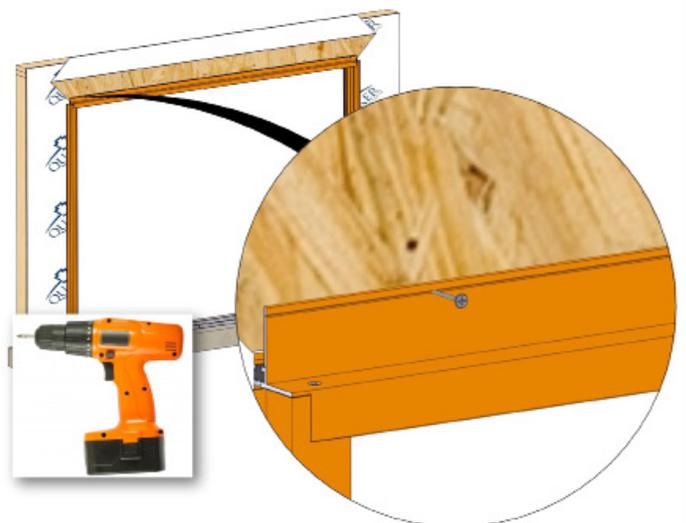
NAIL FIN ONLY!
Fully fasten the screws down now to hold the frame in place.

33
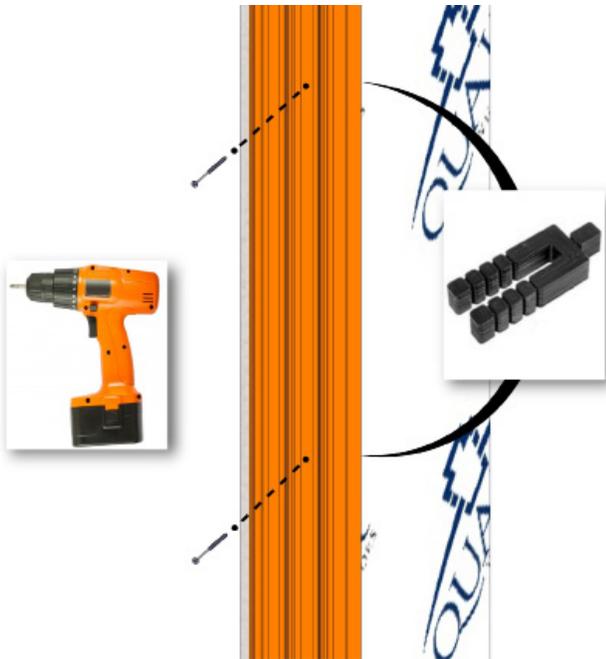
Fully fasten the screws down now to hold the frame in place. The holes through the center track of the header & jambs, typically 6" from ends and 24" on center for fasteners.

34
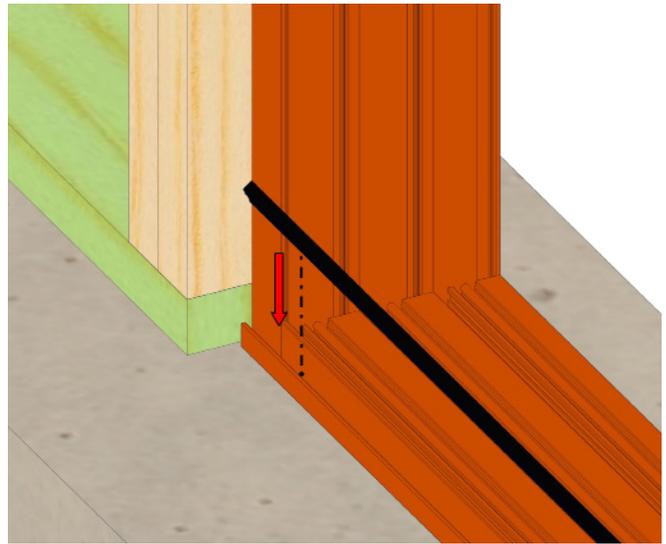
Locate the interior side of the sill. Push the sill down and towards the exterior to lock in place. Take the wedge gasket (Part #: 4874-02-00) and press in place.
Note: This will run the whole length of the sill pan(s).

PANEL INSTALL

For panel install the process is the same no matter the amount of panels. You always start with the active (interior most) panel and end with the fixed (exterior most) panel.

35

Glazing Beads to Interior
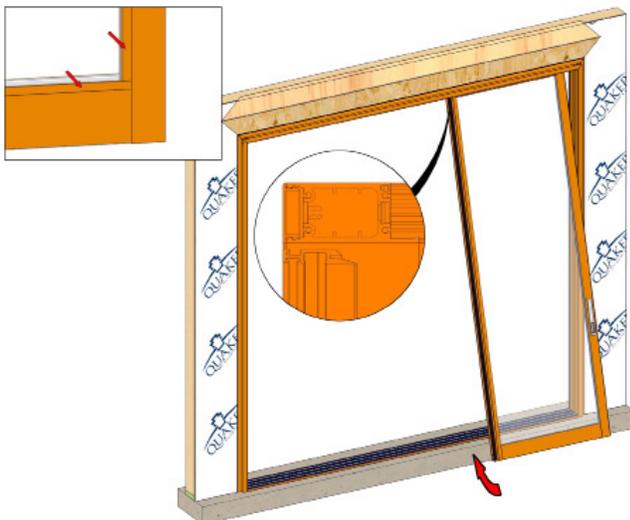
From the exterior, install the active panel with the handle, by tilting the top into the inner most head track and setting the bottom of the panel in the inner most groove in the sill track.
*Note orientation of interlock rails when choosing panels.
*Note glazing beads are to the interior side.

36
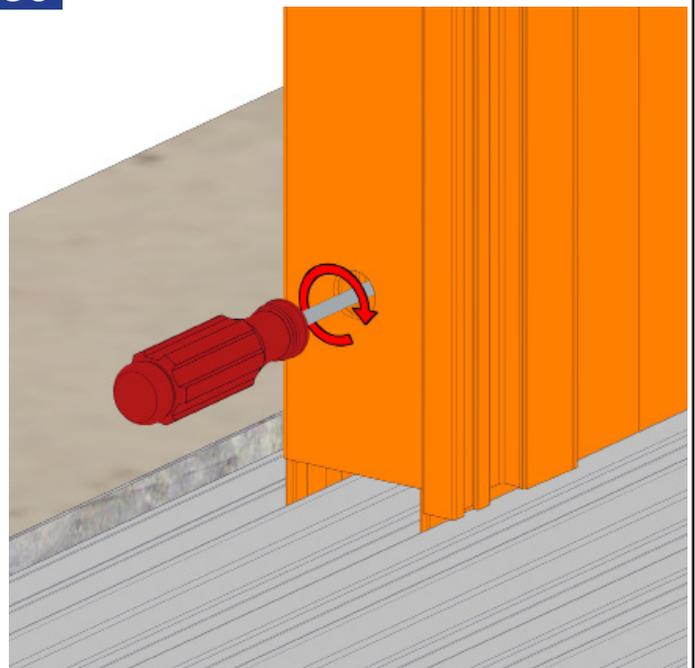
Use a #2 phillips screwdriver to engage the roller adjustment on both sides of a panel. Turn clockwise to raise the panel and provide smooth rolling. If possible, lift the panels slightly when adjusting to take pressure off the rollers. Roll panel back and forth 2-3 times to verify roller height is set. Repeat this step for each panel installed.

37
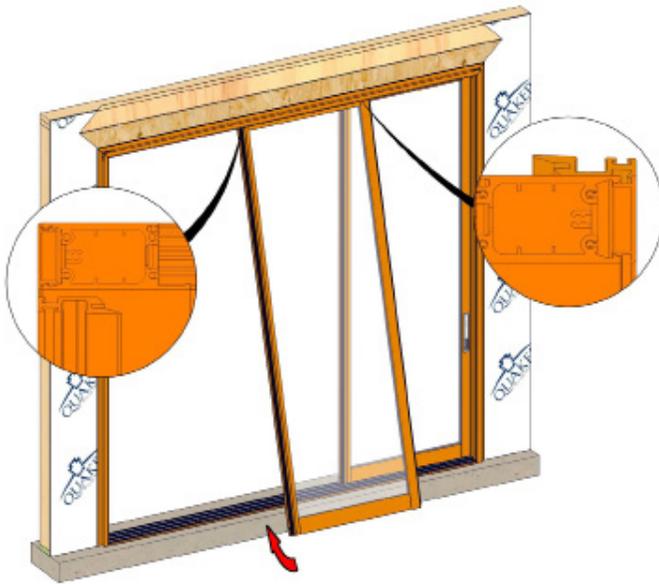
On the exterior side repeat for the center panel, setting it into the middle tracks in the head and sill. Make sure the panels are overlapped when installing so the interlocks will engage properly.
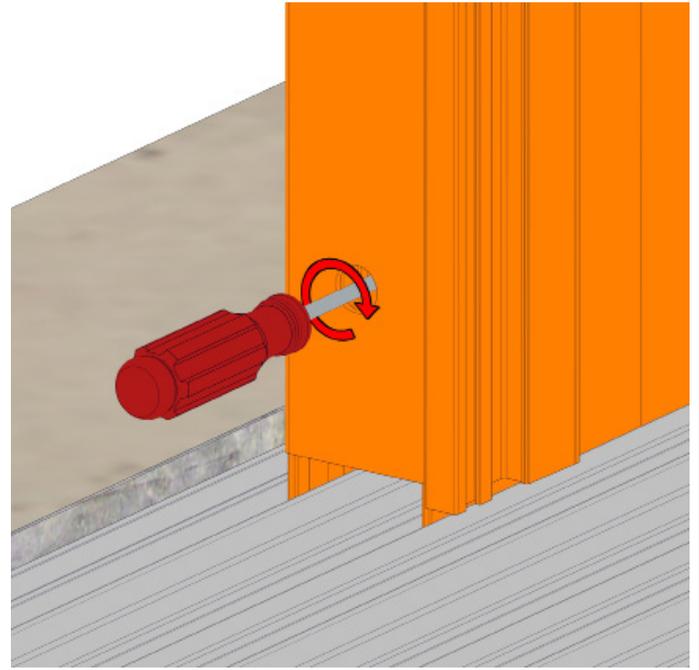
Use a #2 phillips screwdriver to engage the roller adjustment on both sides of a panel. Turn clockwise to raise the panel and provide smooth rolling. If possible, lift the panels slightly when adjusting to take pressure off the rollers. Roll panel back and forth 2-3 times to verify roller height is set. Repeat this step for each panel installed.

38
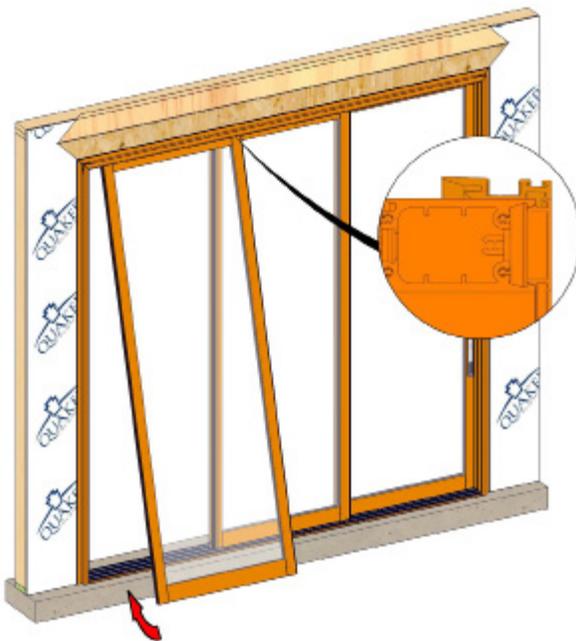
Repeat for exterior (fixed) panel, setting it into the exterior tracks in the head and sill. Make sure the panels are overlapped when installing so the interlocks will engage properly.


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.

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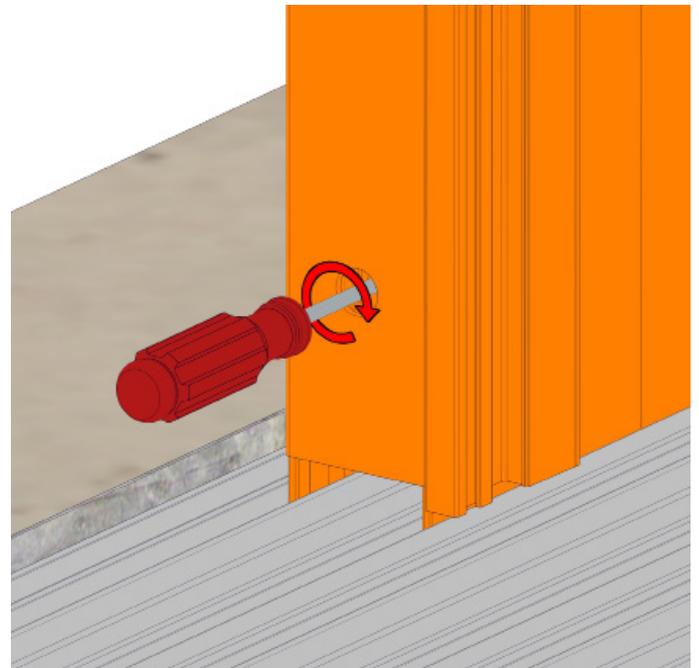
39

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

40
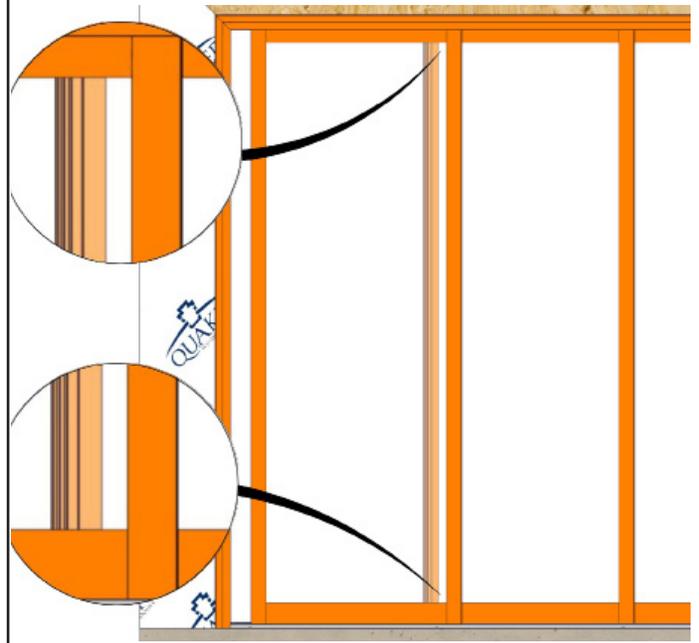
Slide each set of panels apart to check that the reveal matches at the top and bottom. Adjust rollers as needed to match reveal across panels.

41
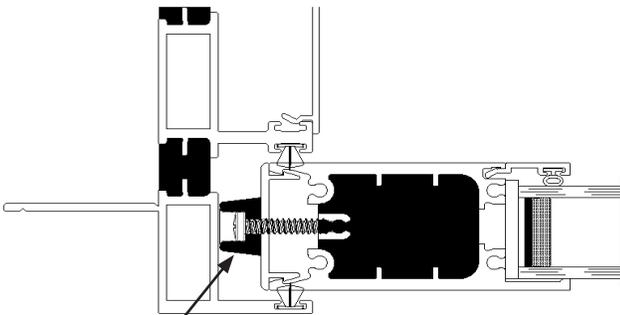
1/2" or 3/8" Panel Spacer

Set the fixed panel 2.5" from the edge of the frame to the edge of the glass of the fixed panel. Be sure 1/2"or the 3/8" panel bumper (depending how frame sits) is installed onto the vinyl prior to sliding jamb into wall.

42
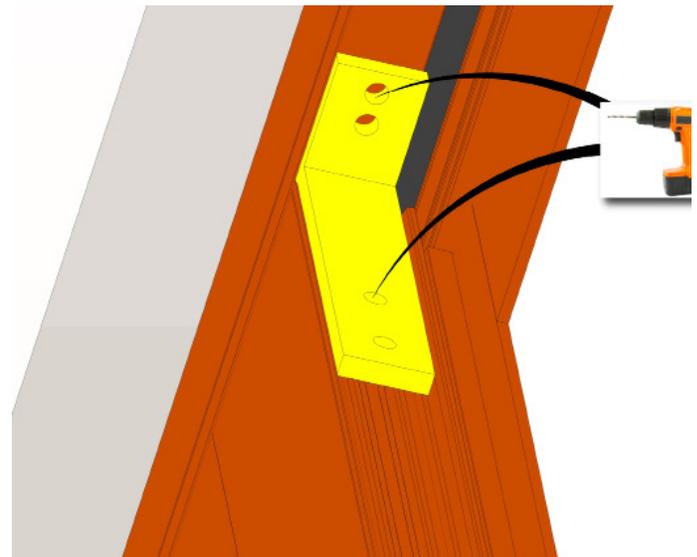
Take the **Fixed Panel Bracket,** slide it to the head drill holes for the tri-wing screws.

43
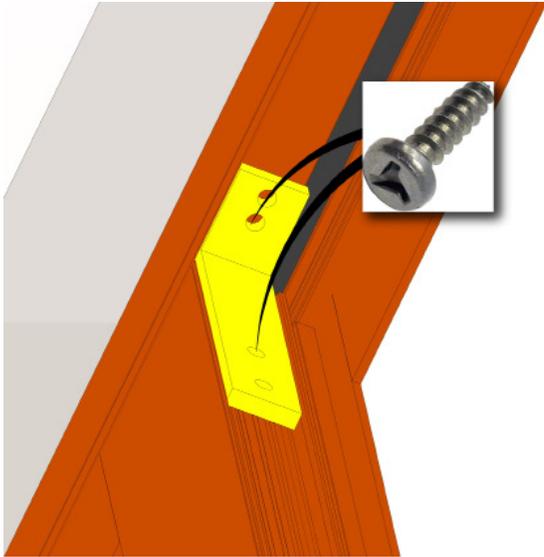
Install the tri-wing screws.

44
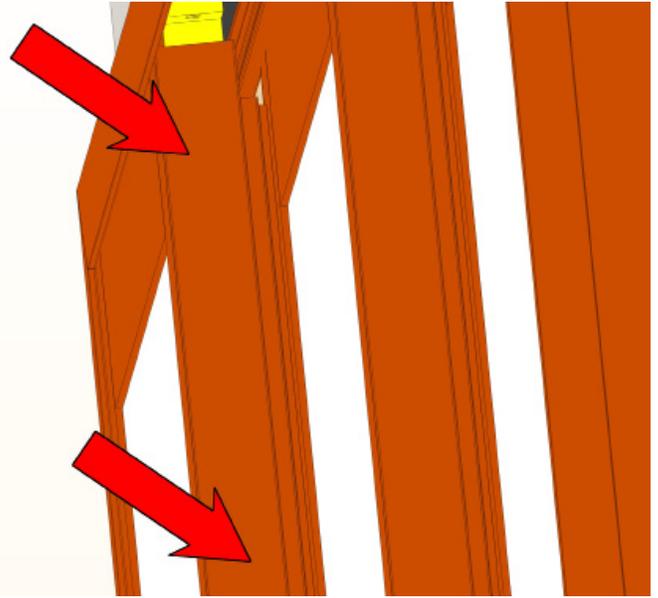
Install the panel cap on the fixed panel frame to cover the fixed panel bracket.
Make flush with the head.

45
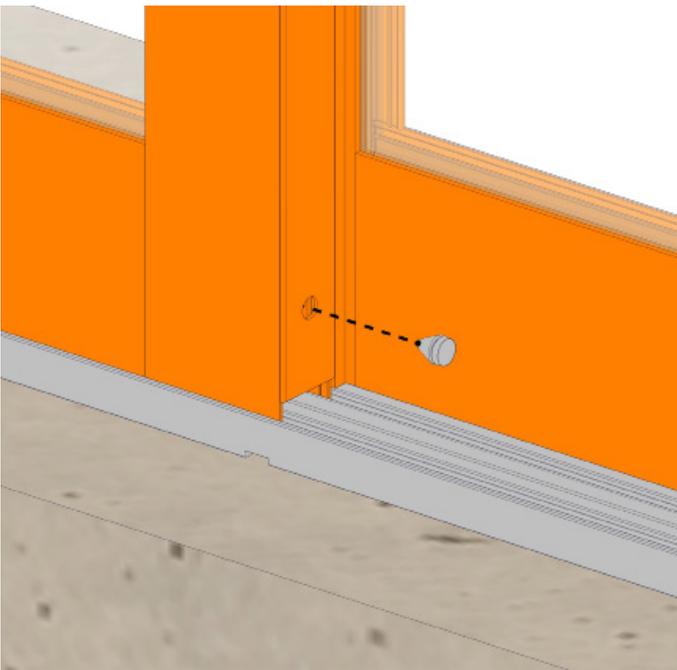
Once all panels have been adjusted install the panel bumpers into each roller adjustment hole interior and exterior.

46
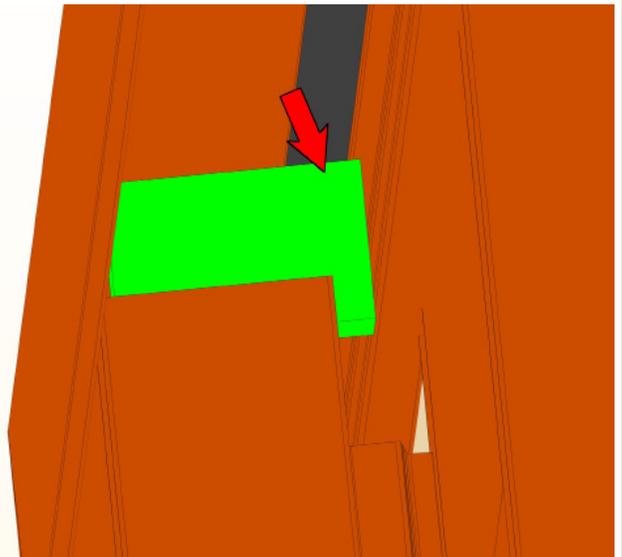
Slide the fix panel fully into the frame jamb, then take the frame head dust plug and remove backing. Slide the dust plug in between the head and the top of the fixed panel. The edge of the panel and the face of the dust plug should be flush. Each panel should get a dust plug.

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47

Place 1 dust plug in each track where the heads meet, as shown in the picture above, except the locking panels.

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Frame Covers

Quaker reserves the right to change the information contained in these guidelines without notice.   09/13/2023 V. 1.5

48
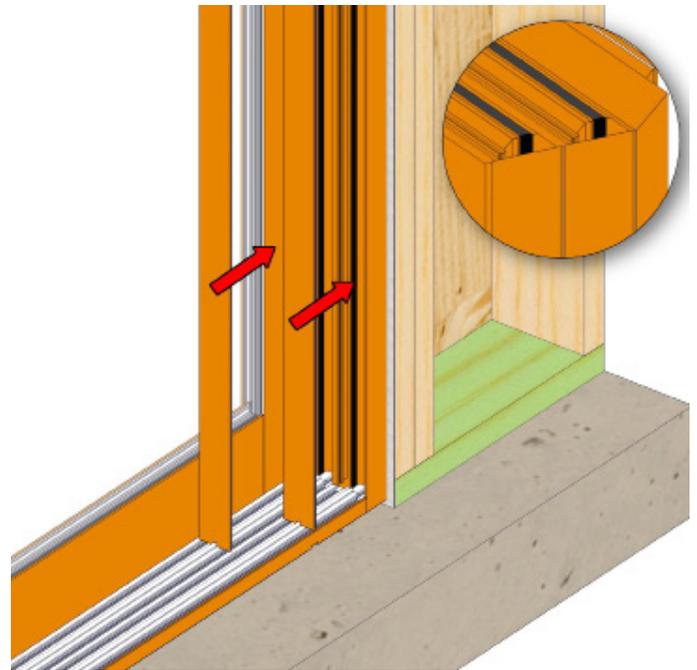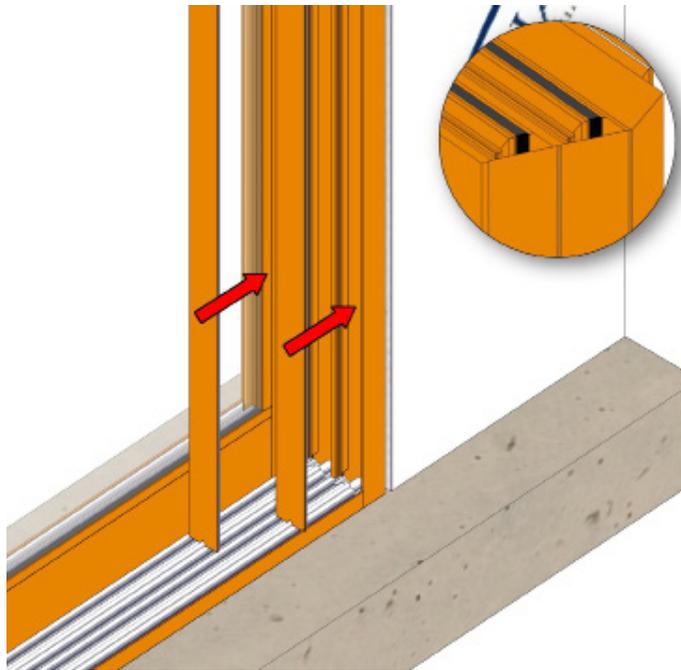
Exterior

Interior

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!

49
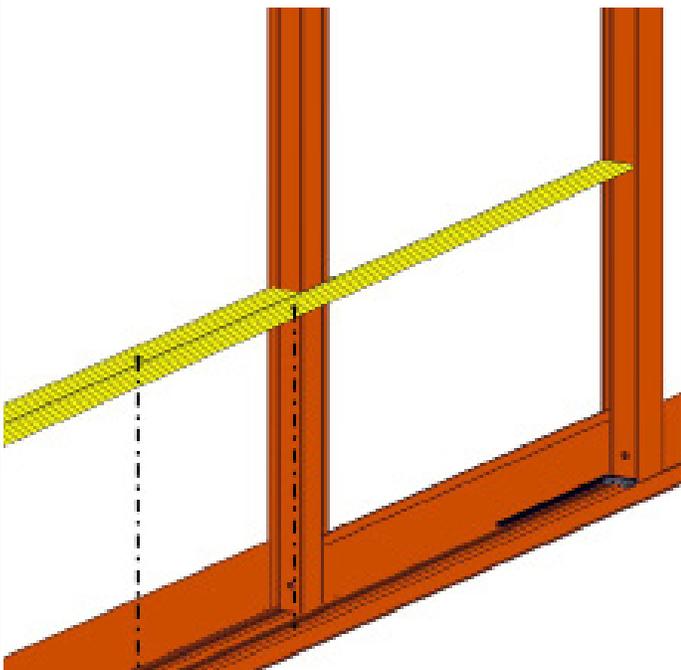
Lay out sill cover before installing, start with the sill cover closer to the interior.

50
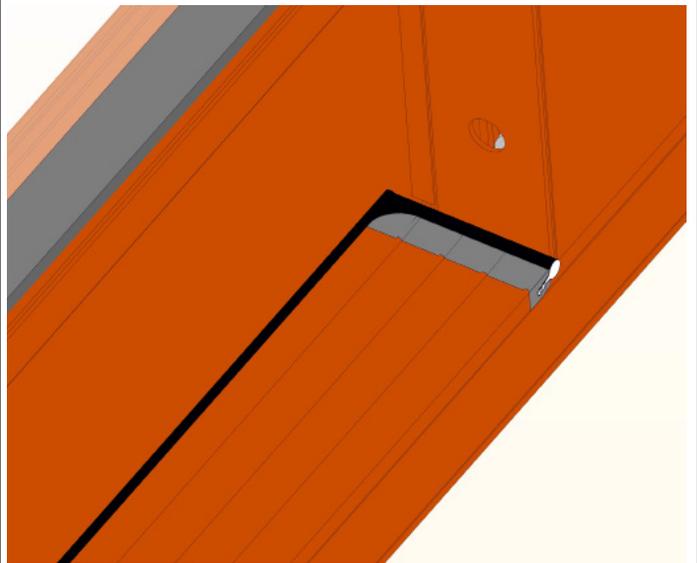
Take the sill covers and cut the end of the cover that doesn't have the molded part on the end.
(Molded part is shown in the picture above.)

51
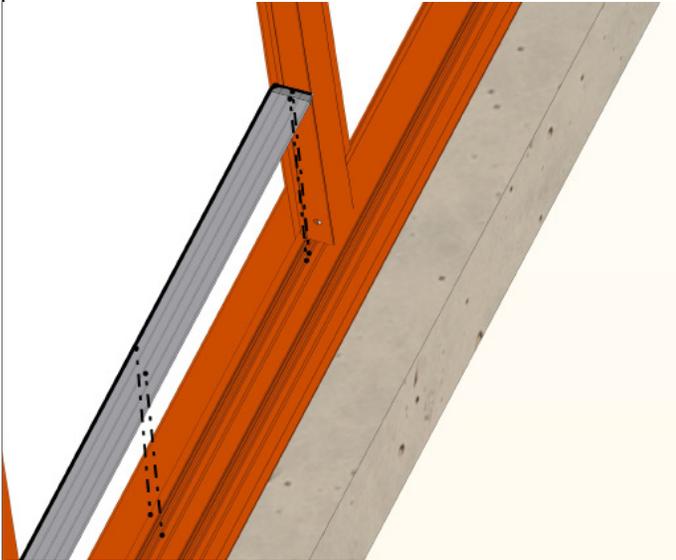
Install the interior sill cover.
DO NOT HIT THE HEADER COVERS DIRECTLY DURING INSTALL!
NOTE: ON ACTIVE PANEL MEASURE FROM PANEL TO FRAME AND SUBTRACT 1/16", CUT, THEN PLACE AGAINST FRAME.

52
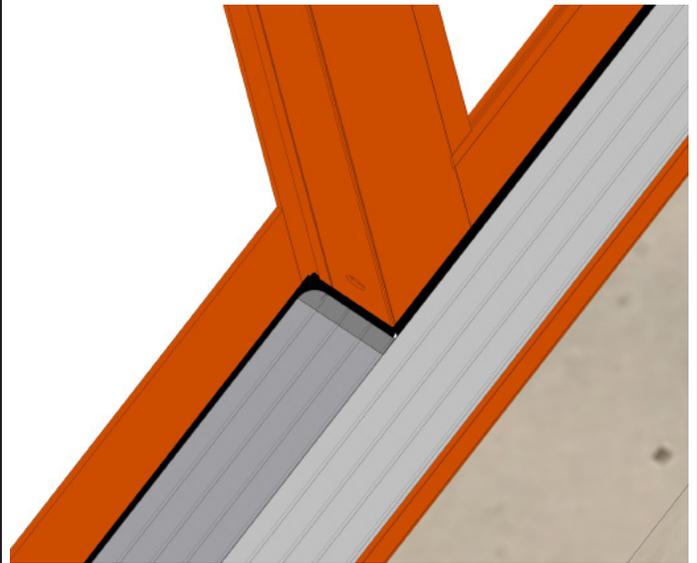
On the exterior sill cover cut away the weather strip where it meets the sill cap you just previously installed.

53

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.

54
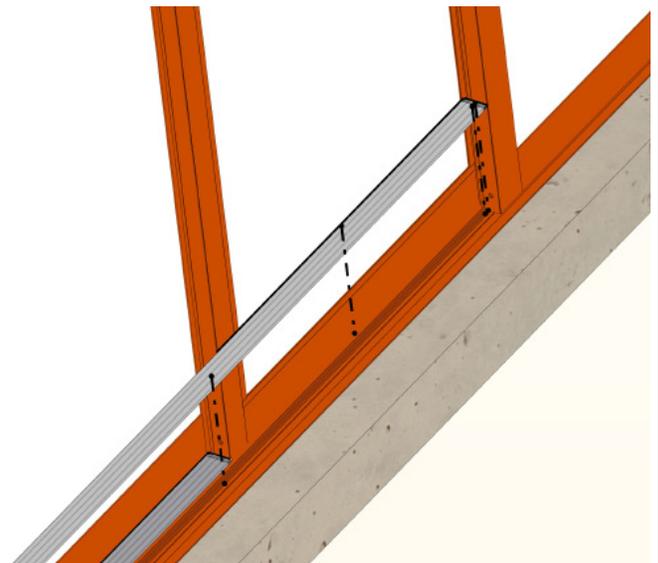
Next install the exterior sill cover.
DO NOT HIT THE SILL COVERS DIRECTLY DURING INSTALL!
NOTE: ON ACTIVE PANEL MEASURE FROM PANEL TO FRAME AND SUBTRACT 1/16", CUT, THEN PLACE AGAINST FRAME.

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Weather Proofing

55

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.

56

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.**

57

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

58
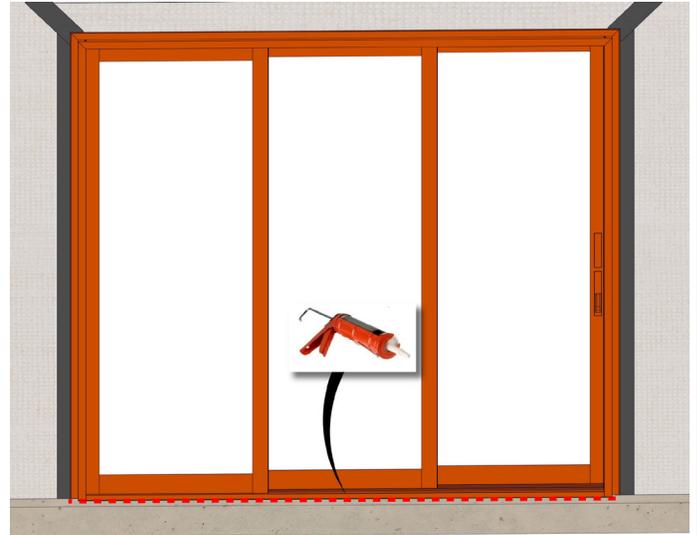
Apply a continuous bead of sealant at the exterior base of the sill. Be sure to not block the weeps on the bottom of the sill.

59

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

60
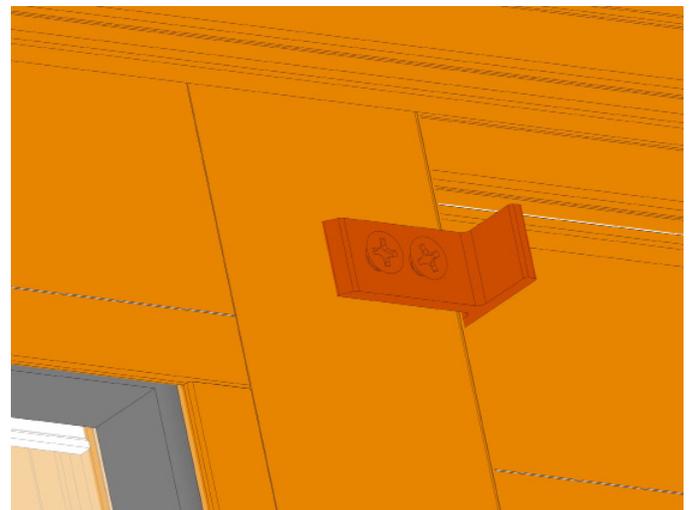
On the interior side of the middle panels, take the panel pickups (Part #: M25296-PCS) and #10 screw (Part #:MF10AX1)that is provided.
Take screws and attach the pickups.
Install the panel pickup where the holes are already fab'd on the interior side of the door.

Installation Guidelines
For Multi-Slide M2055 Single Direction 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.

Scan here for a digital version of these guidelines in English	Scan here for a digital version of these guidelines in Spanish

Or go to: https://www.quakerresidentialwindows.com/professionals/installation-instructions/

Or go to: https://www.quakerresidentialwindows.com/professionals/installation-instructions-spanish/