CityVu/CityLine/C200 TimberVu/TimberLine/W200 Outswing/Inswing Door with Flashing Flange and Sill Starter Installation Guide

-Scan here for a digital version-

Part # IG-131 - V.1.2 10/30/2026

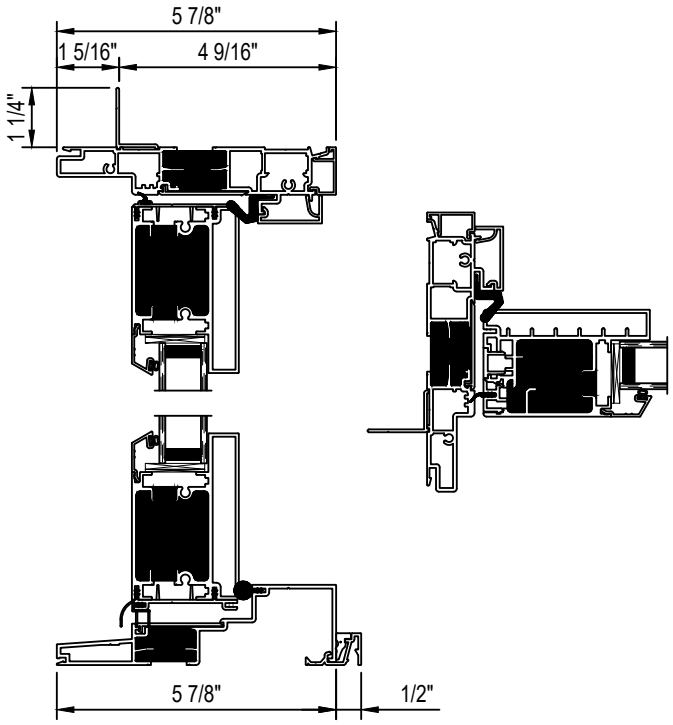
Pages 5 to 23 -- Weather Resistant Barrier (WRB) Application
Pages 24 -- Door Installation and Hinge Adjustment Instructions

If this set of instructions does not match your installation method or the wall conditions of the job site, please call Quaker Customer Service for additional information.

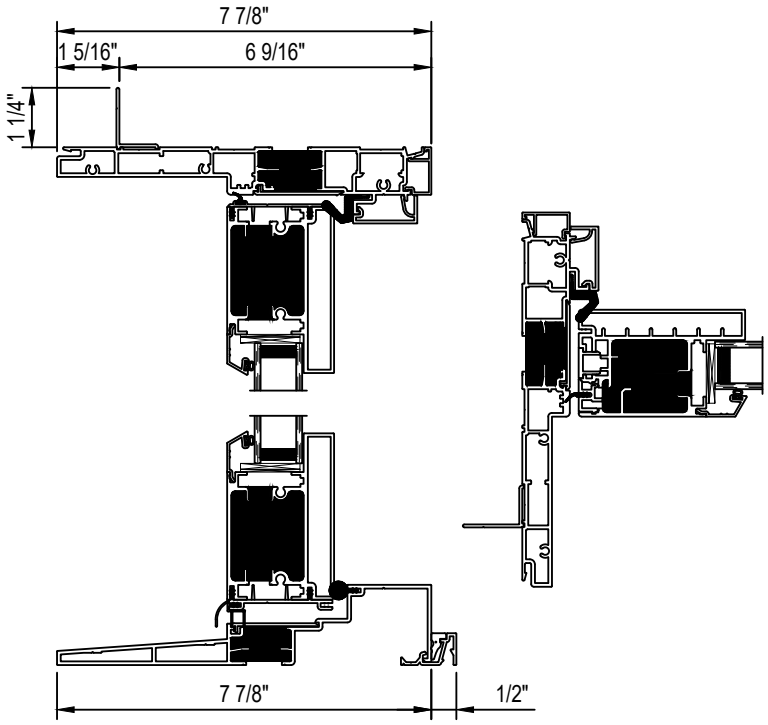
Quaker Window Products
504 Highway 63 S
Freeburg, MO 65035
Phone: 800-347-0438
Fax: 573-469-4151
www.quakerwindows.com

Note:

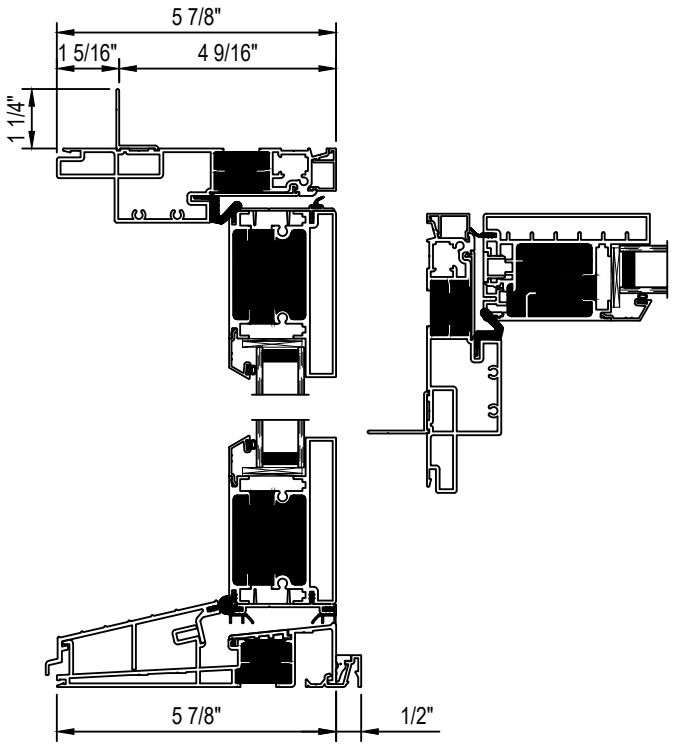
While the details within these instructions are based on the 4/9 Outswing door,
the installation and sealing methods also apply to the 4/9 Inswing, 6/9 Outswing, and 6/9 Inswing Doors.



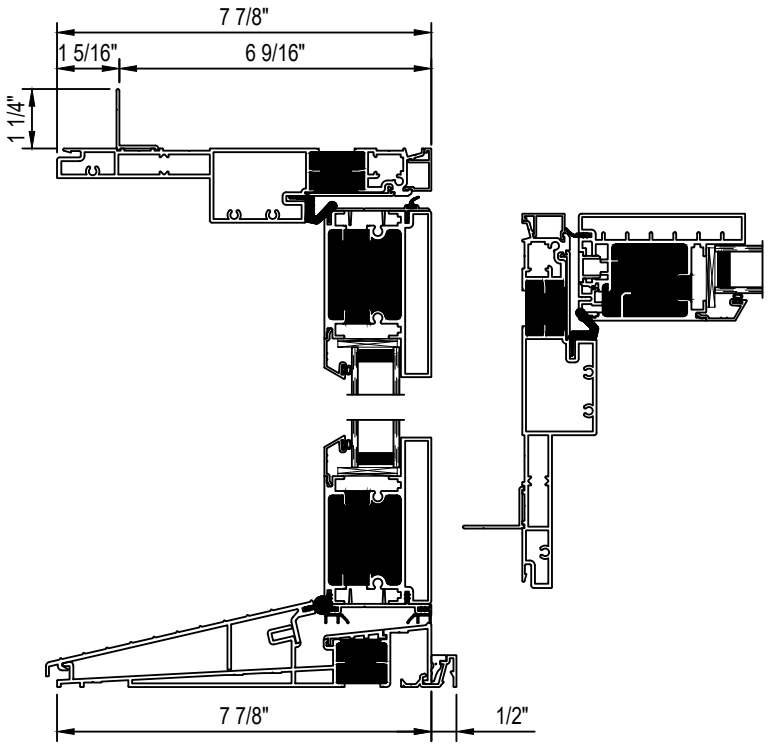
4/9 Outswing Door



6/9 Outswing Door



4/9 Inswing Door



6/9 Inswing Door

Tools Required by Installer

Safety Glasses 

Drill/Driver 

Level 

Caulk Gun 

UtilityKnife 

Metal Cutting Saw 

Tape Measure 

Staple Gun 

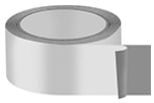
Rubber Mallet 

J-Roller 

Materials Required by Installer

Foam Backer Rod 

Plastic Shims 

Self-Adherig Flashing Tape 

Perimeter Fasteners 

Sealant 

Denatured Rubbing Alcohol 

Chalk Line 

Laser Level 

-Carefully read these instructions before starting any installation-

Failure to install and maintain QUAKER® products according to these instructions may void any product warranty. However, these are generic instructions that cover common situations and applications, aspects of which may not be appropriate for all installations due to building design, site conditions, construction materials, or installation methods used. Refer to shop drawings, if applicable, for additional notes and details. Please consult Quaker for specific applications not covered in these installation instructions, or visit our website at www.quakerwindows.com, or call 800-347-0438 for additional information.

Tools

- Follow manufacturer's instructions and safely operate tools, ladders, or scaffolding. Always wear safety glasses. Failure to do so could result in injury, product, or property damage.

Handling

- Do not store QUAKER products outside or in an unprotected, high moisture, or high heat environment prior to installation. Doing so could result in product damage.
- Do not carry, transport, or store QUAKER products in a flat (horizontal) position. Doing so could result in product damage or injury.
- Window and door units should be kept or stored in an upright (vertical) position, with support across the sill to avoid bowing. Do not lay any units in a flat position!

Glass

- If glass gets broken, please exercise caution, as glass fragments can cause lacerations or other injuries. In many areas, local building codes require safety glass to be used in certain applications. All QUAKER products are available with safety glass if they are ordered that way.

Fastening

- Metal fasteners and components could corrode when used in contact with preservative-treated lumber. Use approved and appropriate fasteners and components to fasten QUAKER products in this application. Failure to do so could result in a product performance failure, injury, or property damage.
- Quaker does not provide anchorage or fastener calculations.
- Quaker is not responsible for determining structural adequacy of the anchorage and fasteners used to install QUAKER products, or the openings into which they are installed.

Installation

- Report any damage to dealer immediately. Do not install product if damaged. Quaker is not responsible for addressing products that are damaged after delivery, or product that is installed in a damaged condition.
- Always support window or door products in an opening until fully fastened. Failure to do so could result in the product falling out of an opening and causing injury, product, or property damage.
- Nailing flanges and drip caps (integral or applied) do not take the place of window flashing. All QUAKER products must be properly flashed and sealed with material compatible sealant for protection against water and air infiltration around the entire exterior perimeter. Failure to do so could result in a product installation failure and property damage.
- Windows and doors must be properly shimmed. To properly shim a QUAKER product, follow relevant installation guidelines, and never set a window directly on a sill plate. Failure to shim properly is an installation failure that could result in product performance failure or property damage.
- Construction directly above an opening must be engineered and designed not to transfer loads directly to any windows or doors. If live or dead loads are transferred to a QUAKER product, this may affect functionality and result in glass failure or otherwise damage frame joinery, perimeter seals, or other aspects of the product. Proper construction of the rough opening must take place prior to the installation of the QUAKER product.
- Please confirm that any necessary vertical deflection of the head condition is consistent with the selected QUAKER product. Most QUAKER products are not designed to allow any deflection at the head condition. Shop drawings may indicate the maximum allowable vertical deflection at the head condition of a QUAKER product. If vertical deflection is a concern but shop drawings are not provided, please contact Quaker for assistance.
- Windows and doors have small parts that, if swallowed, could pose a choking hazard to young children. Please dispose of unused, loose, or easily removed small parts. Failure to do so could result in injury or death.
- Do not drill through or into the sill or frame of any QUAKER products, whether to install alarm wires or for any other reason.
- During installation and positioning of any window or door products with an aluminum frame, make sure to align the thermal break of the product, with the insulation plane or air barrier of the building itself, in order to maintain continuity and integrity of the thermal envelope, and prevent thermal bridging that leads to excessive thermal transfer and/or condensation. In other words, the thermal break of the product must be recessed from the exterior plane of the wall opening, remain fully embedded within the wall opening, and not be exposed directly to exterior elements.

Sealing

- Follow supplier instructions for proper application of minimally expanding foam, sealant, water resistant barrier or liquid barrier, and flashing products and systems to ensure safety, proper material application, compatibility, and to understand the need for periodic maintenance for continued weather resistance of their products. Failure to do so could result in product performance failure or property damage.
- Minimally expanding foam insulation must be compliant with AAMA 812.
- If silicone is selected as an appropriate sealant, Quaker recommends using 100% neutral cure silicone sealant, that is ASTM C920 compliant. Always clean and prepare the surfaces where the sealant will be applied per the manufacturer's recommendation. Once applied, properly tool the sealant in place. Failure to do so could result in product performance failure or property damage.
- Flashing tape must meet ASTM-D779 performance requirements.
- Maintain and properly seal a minimum of 1/4” gap (or whatever is specified within these installation instructions or shop drawings) around the perimeter of the window or door frame and the exterior finish materials. Failure to do so could result in product installation failure or property damage.

Joining

- Do not join any Quaker product to another product that is not designed for joining. Joined products must be individually supported in the opening. Failure to do so could affect operation and product performance and could result in a product installation failure or property damage.

Cleaning

- Do not use any cleaning agent other than a mild, non-abrasive window washing solution or glass cleaner applied in accordance with any product labeling instructions and Quaker's care and maintenance instructions. The use of harsh chemicals (such as brickwash, bleach, alcohol, hydrochloric acid, or muriatic acid) for cleaning or other purposes may damage QUAKER products, glass, fasteners, hardware, seals, sealant, or metal flashing. Please protect these products by following the cleaning product's instructions for its proper use.
- Do not use a razor blade to clean a glass surface, as damage to the glass may result.

IMPORTANT

- Buildings constructed prior to 1978 may 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 used or old materials. Any recyclable material 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.
- Inspect all window and door units for any damage or defects prior to installation. Contact the nearest QUAKER distributor if there are any problems or issues.
- **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 your personal protection. For more information go to www.P65Warnings.ca.gov
- When installation is completed, operable window and door products, and related hardware or equipment, may require some adjustments. Confirming operability and making minor adjustments are within the scope of the installation services performed by others.
- **WARNING - OVERHANG NEEDED:** It is recommended that doors (swing and sliding) with ADA or Low-Profile Sills be installed with an overhang depth equal in length to the height of the door. If you choose to use an overhang depth less than the height of the door, you must confirm that it is appropriate based on code requirements and the expected local wind and rain conditions.

Verify Header Support

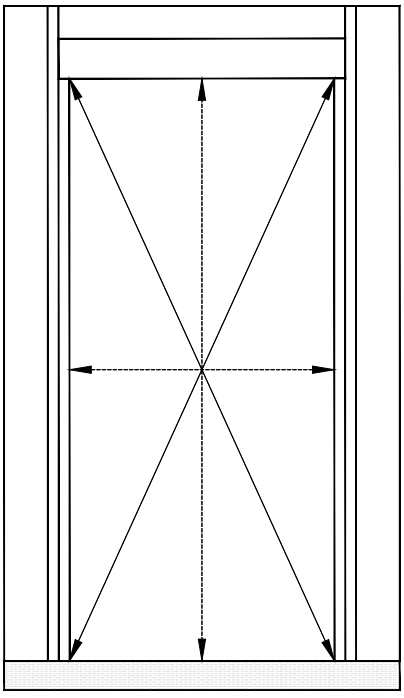
Ensure the structure over the door system is fully supported. Take into account the weight of all materials above the door system, because this may cause deflection. No more than 1/8" deflection is allowed.
Confirm that all materials and fasteners are adequate for all load requirements.
If you have any questions, please feel free to call Quaker Windows 1 (800) 347-0438

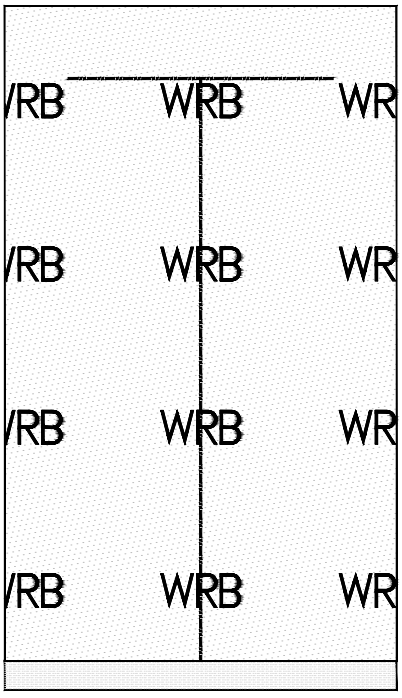
Before installing the frames and doors, unpack all parts and place near the opening. Make sure you have all parts according to the packing slip and check for any damaged parts.

Note:
The 4/9 Option will be shown as the standard, but the 6/9 Option will be shown when required due to dimensional differences.

WB1

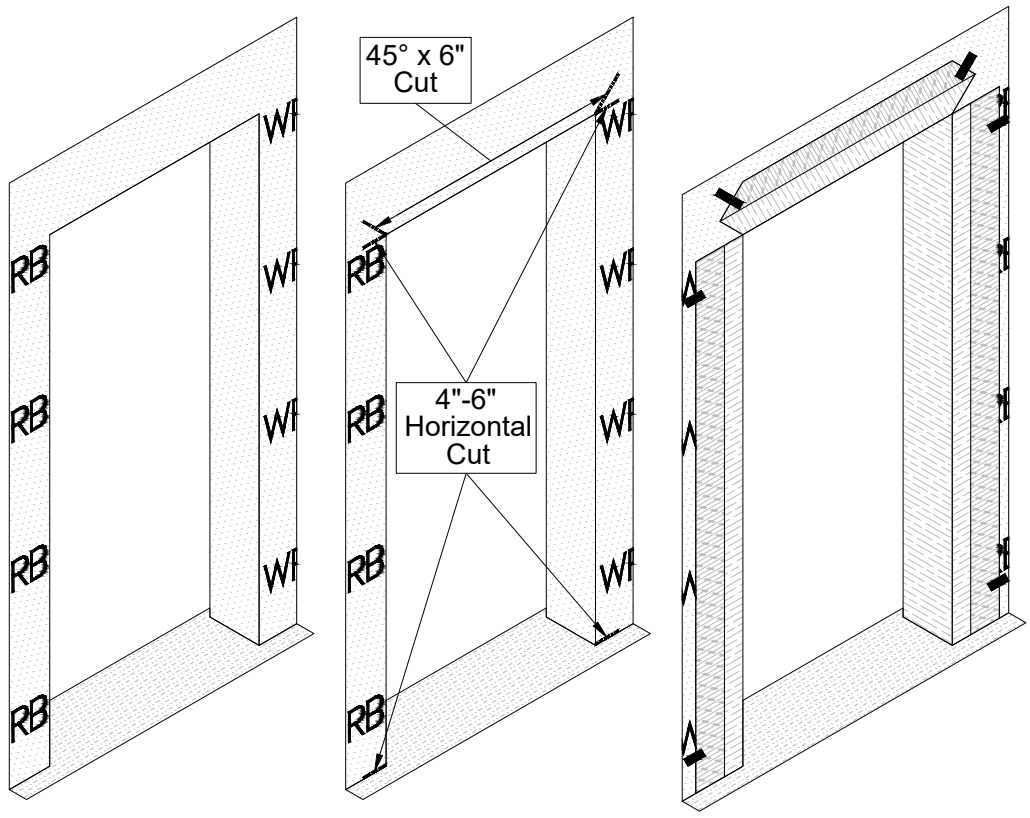
From the interior, measure and verify the size of the rough opening. The rough opening should be a minimum ½" wider and taller than the Window Unit (but do not exceed 1"). Verify the rough opening is flat, plumb, level, and square. Take diagonal measurements to check for square. The sill plate beneath the unit must be level for proper unit operation. Go to the exterior and cut the Weather-Resistant Barrier (WRB) in an 'T' pattern.





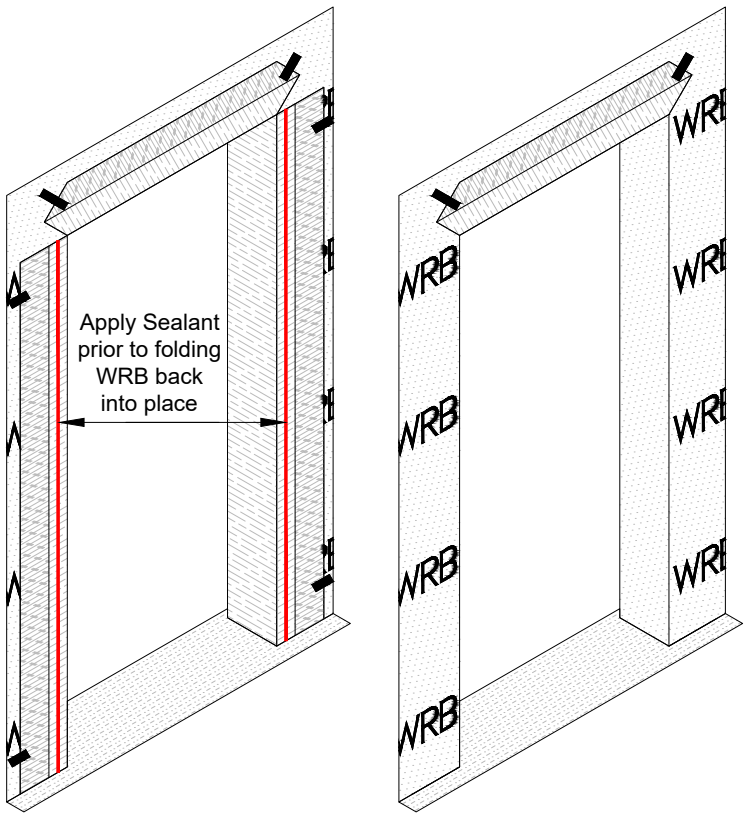
WB2

Fold the WRB sides towards the interior and trim as needed. Do not staple in place. Make 4”-6” horizontal cuts in the WRB at the head and sill jambs. Make a 45° x 6” long cut at the head condition. Fold back WRB at the cut lines, and tape into place.



WB3

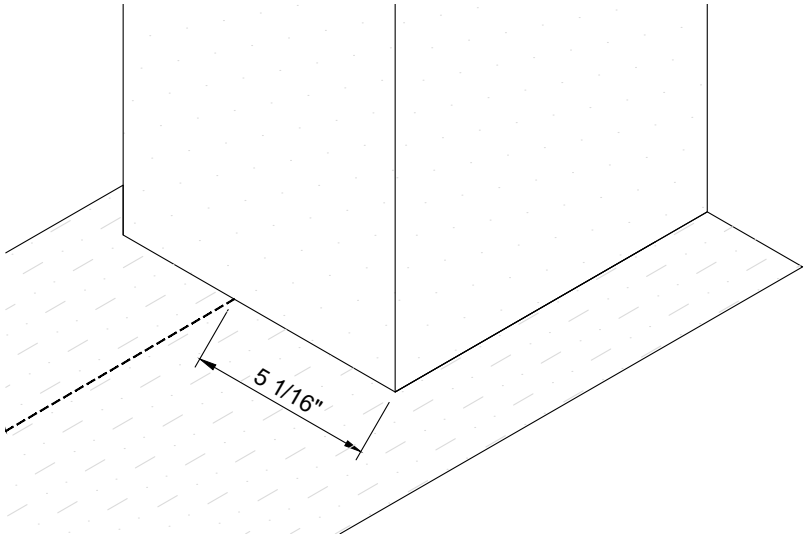
Apply sealant at the jambs where shown. Fold the WRB jamb flaps back into place and fix into place. Leave head flap in place.

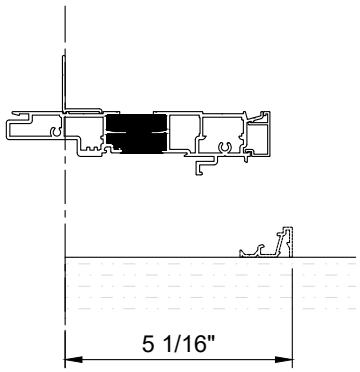


THIS INSTRUCTION IS FOR THE 4/9 OPTION ONLY

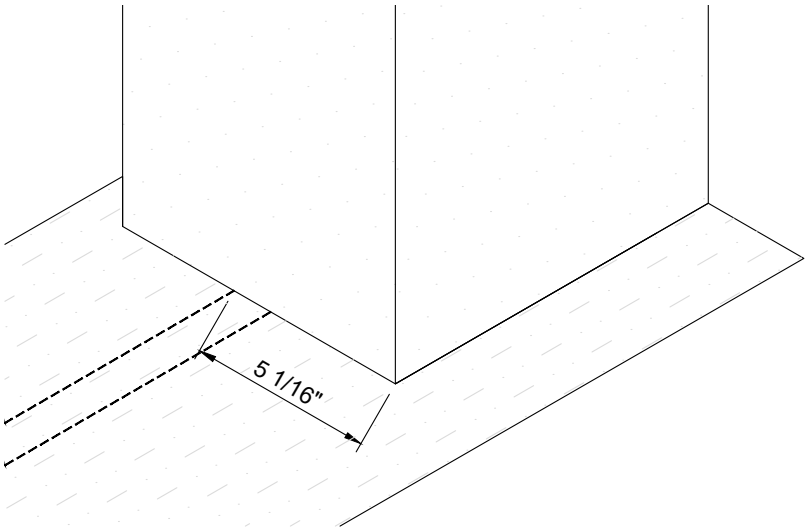
Measure and set a chalk line on the subfloor 5 1/16" in from the exterior wall face. Dry fit the Sill Starter system with the rear upturned leg on this line. Check to see if the Sill Pan is level, and if not, be prepared to level area. Quaker first recommends **self-leveling concrete**.

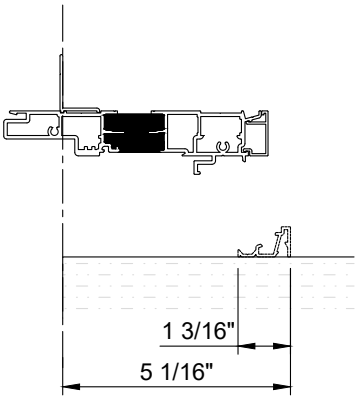
If not available, use plastic shims as needed to ensure system is level.



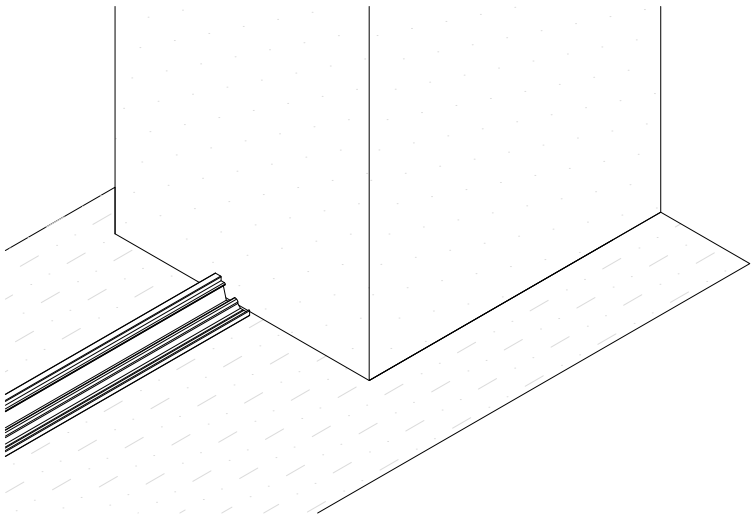


Snap another chalk line the width of the Sill Starter, from the previous chalk line. This is where the Sill Starter will sit.





Dry fit the Sill Starter to ensure proper alignment and to verify if level. **DO NOT** seal or fasten Sill Starter in place yet.

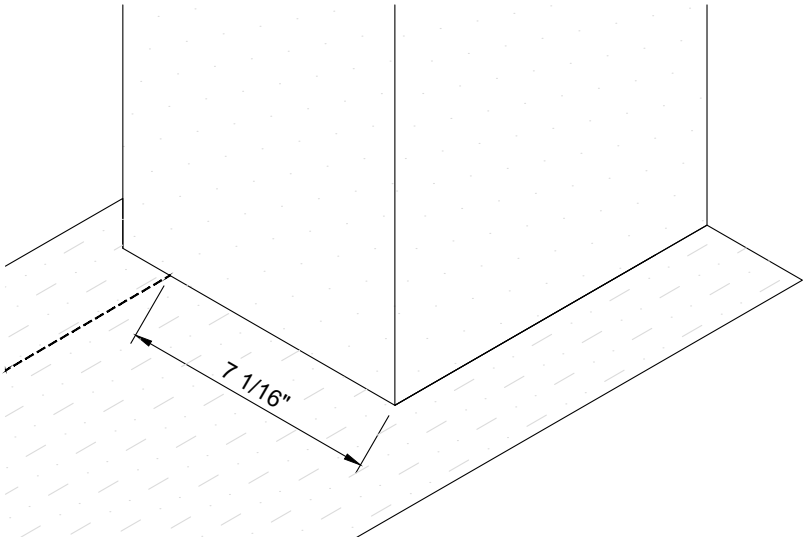


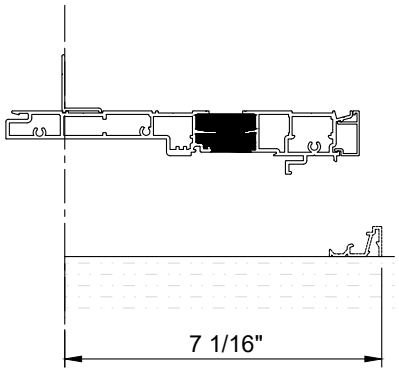
WB4B

THIS INSTRUCTION IS FOR THE 6/9 OPTION ONLY

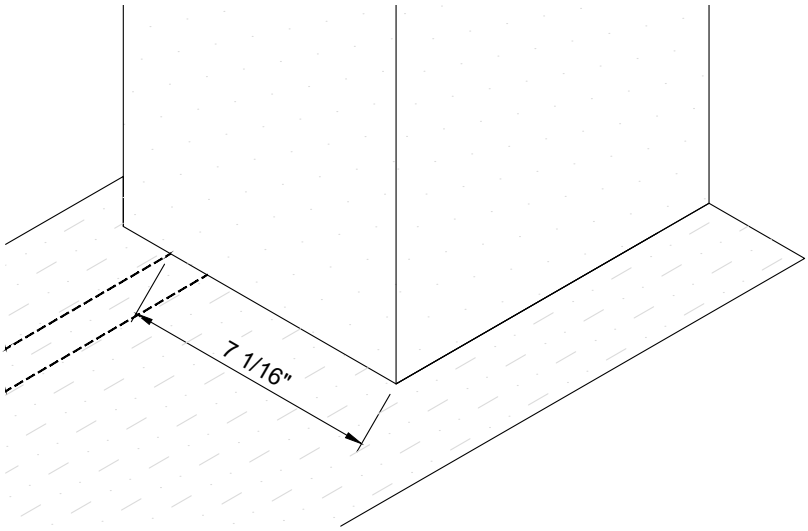
Measure and set a chalk line on the subfloor 7 1/16” in from the exterior wall face. Dry fit the Sill Starter system with the rear upturned leg on this line. Check to see if the Sill Starter is level, and if not, be prepared to level area. Quaker first recommends **self-leveling concrete**.

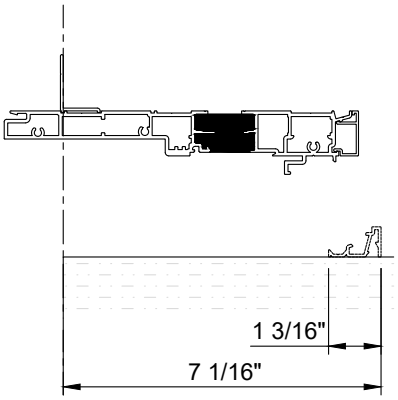
If not available, use plastic shims as needed to ensure system is level.



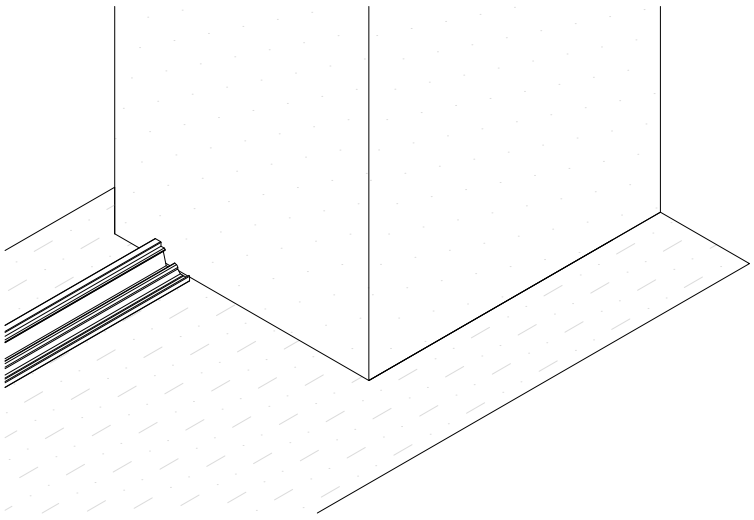


Snap another chalk line the width of the Sill Starter, from the previous chalk line. This is where the Sill Starter will sit.





Dry fit the Sill Starter to ensure proper alignment and to verify if level. **DO NOT** seal or fasten Sill Starter in place yet.

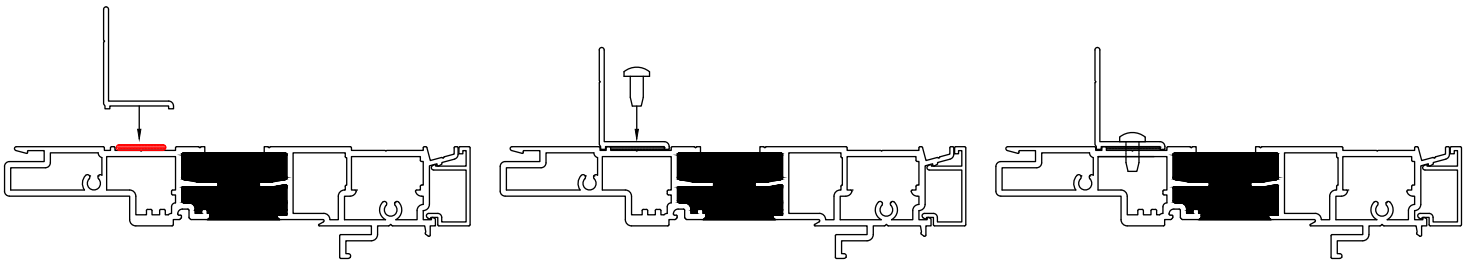


Frame Assembly

Assemble the frame to make sure the size is correct. Assemble on a protected surface.
-Some included and required weathering not shown for clarity-
These instructions are based on Out-Swing Doors.

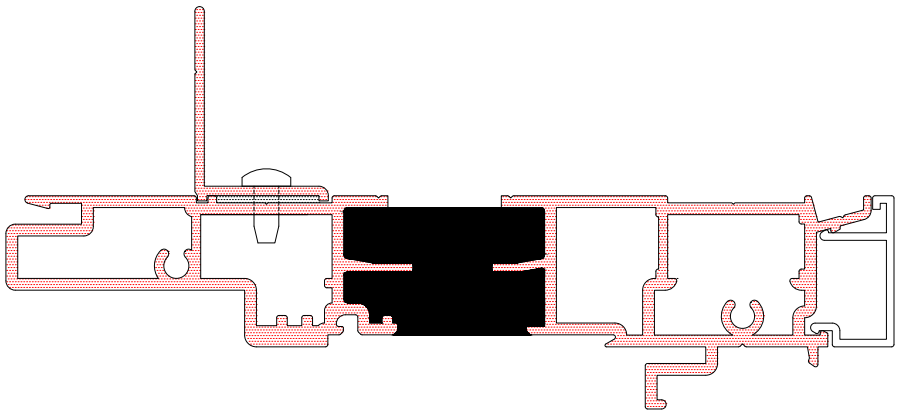
FA1

Apply the Flashing Flange using the supplied fasteners. If required,
match drill the frame portion with the Flange portion.
Before attaching apply a continuous bead of selant wher shown below.



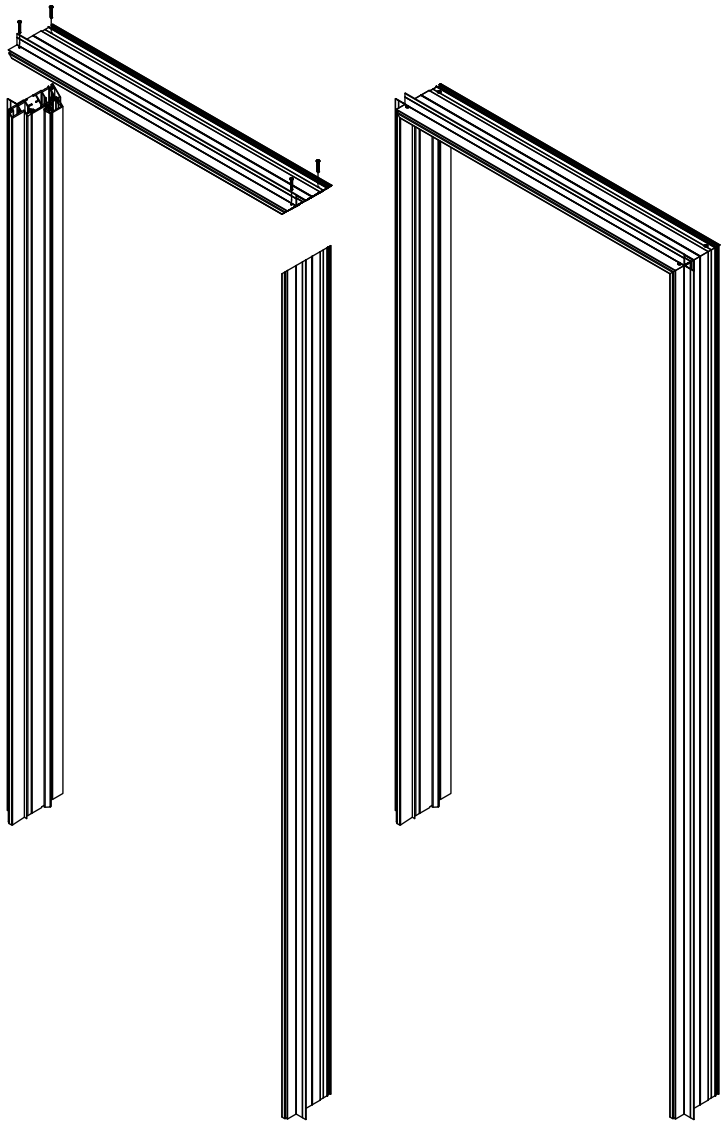
FA2

Apply sealant at each end of the head frame, including the Thermal area.



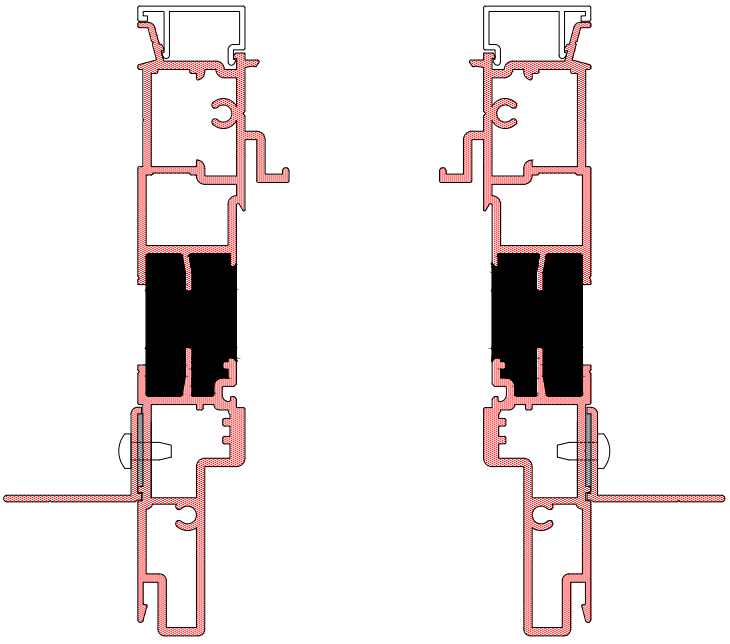
FA3

Attach the head frame to the jamb frames with the supplied fasteners. Tool sealant as needed.



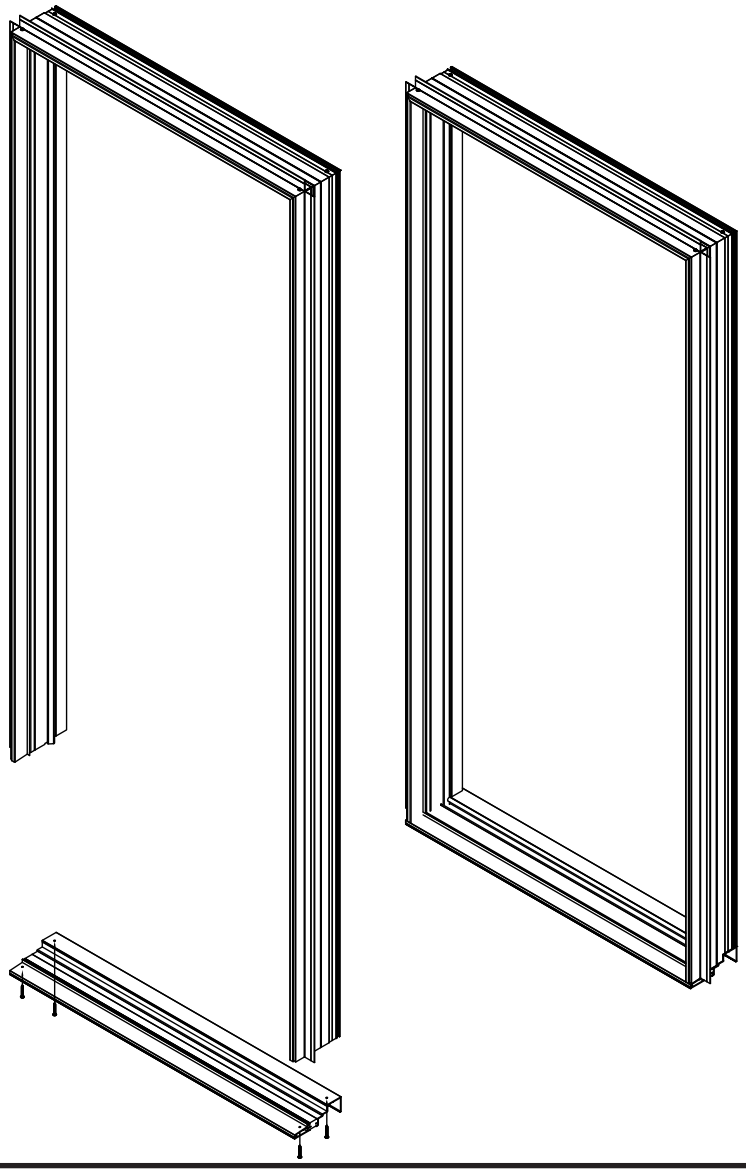
FA4

Apply sealant to the bottom end of the jamb frames, including the Thermal area.



FA5

Attach the sill frame to the jamb frames with the supplied fasteners. Tool sealant as needed.

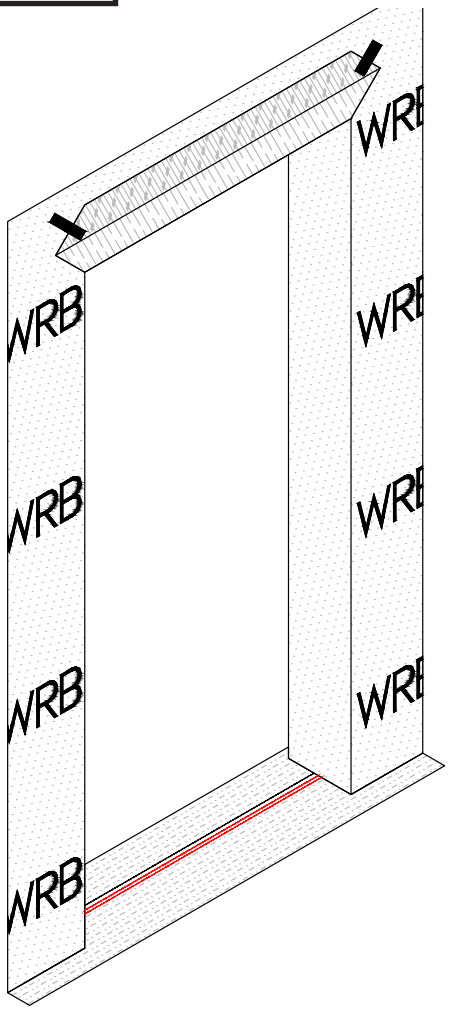


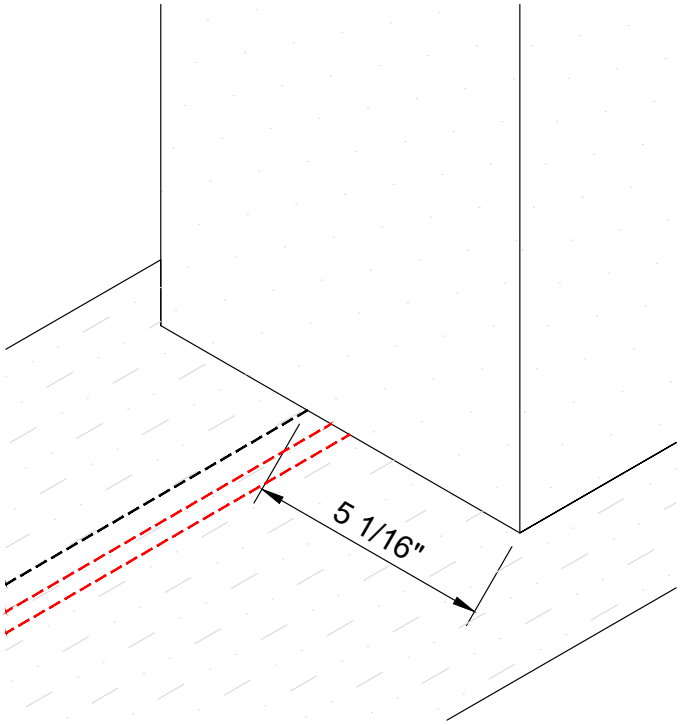
Sill Starter Installation for 4/9 Option

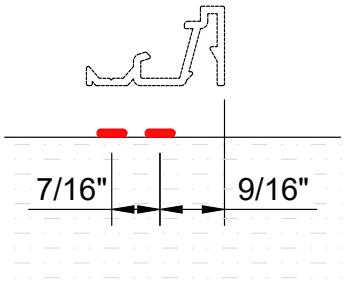
-See page 14 for 6/9 Option-

SP1A

Apply (2) 3/8” continuous beads of sealant across the entire width of the rough opening sill where the Sill Starter will sit.

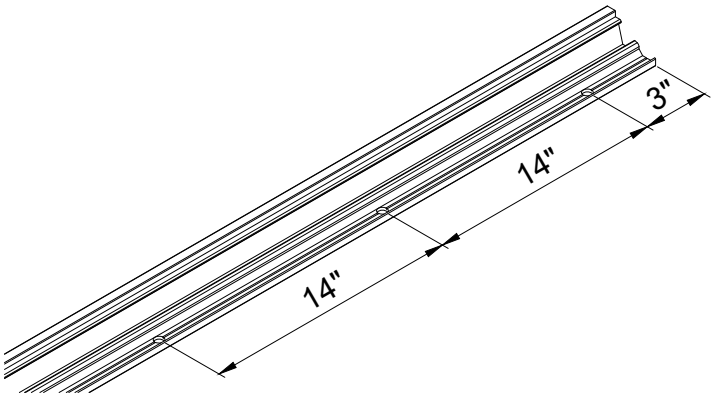


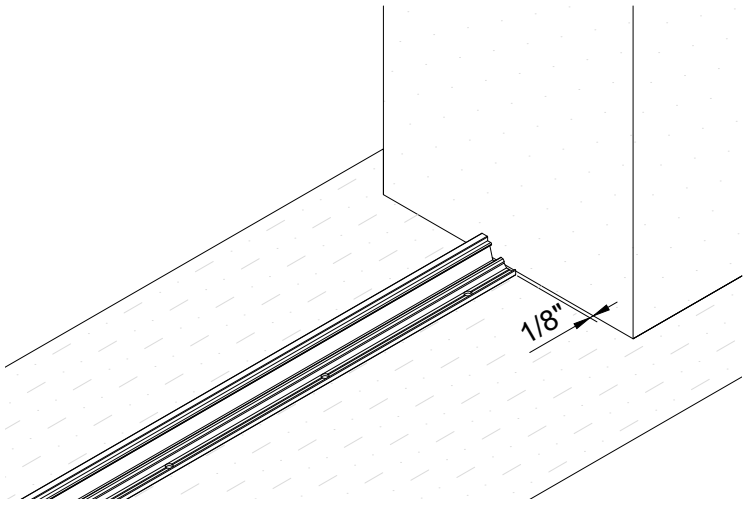




SP2A

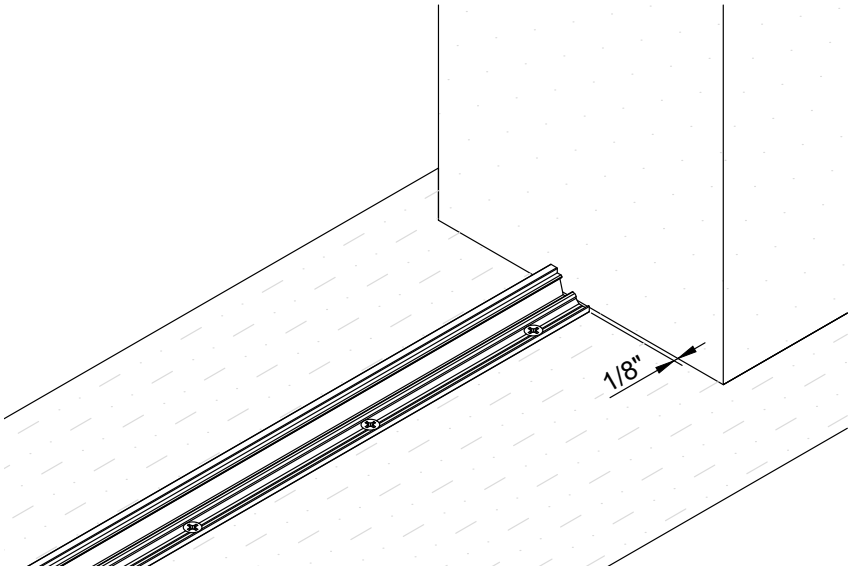
Drill clear holes in the Sill Starter at the ‘V’ Groove. Drill bit size is determined by required screw size.
Drill 3” from ends, and then at 14” O.C.
Place the Sill Starter in place and allow a 1/8” gap between the rough opening and the Sill Starter at both jambs.
Tool sealant at the interior and exterior as needed.



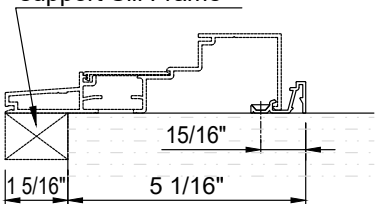


SP3A

Match drill into the surrounding conditions, then fill holes with sealant.
If needed, add support for Sill Frame. This support can be supplied by the installer, or Quaker Angle Bracket M4965-PCS. Fasten Sill Starter in place.

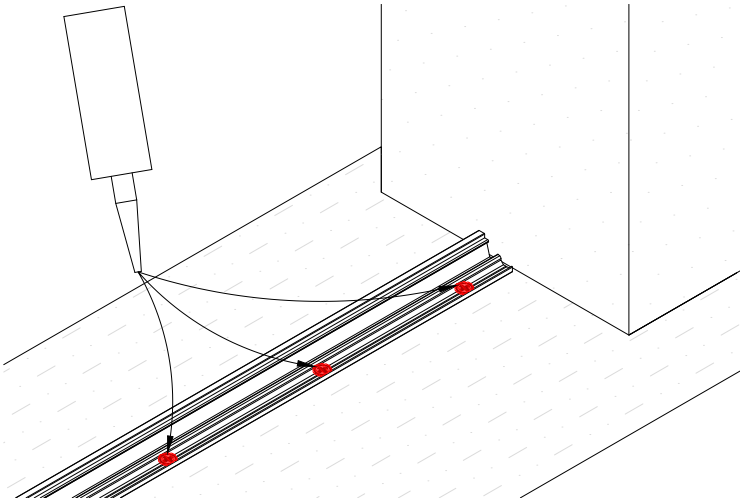


If needed, add support as shown to support Sill Frame



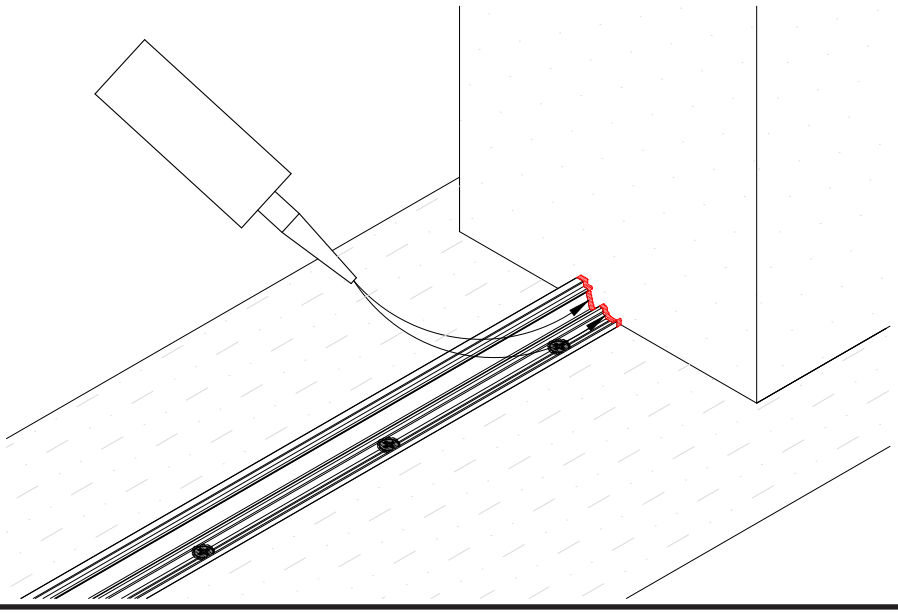
SP4A

After installing the perimeter fasteners, apply silicone over the screw heads.



SP5A

With the Sill Starter in place, apply silicone sealant along the Sill Starter and along the upturn leg.

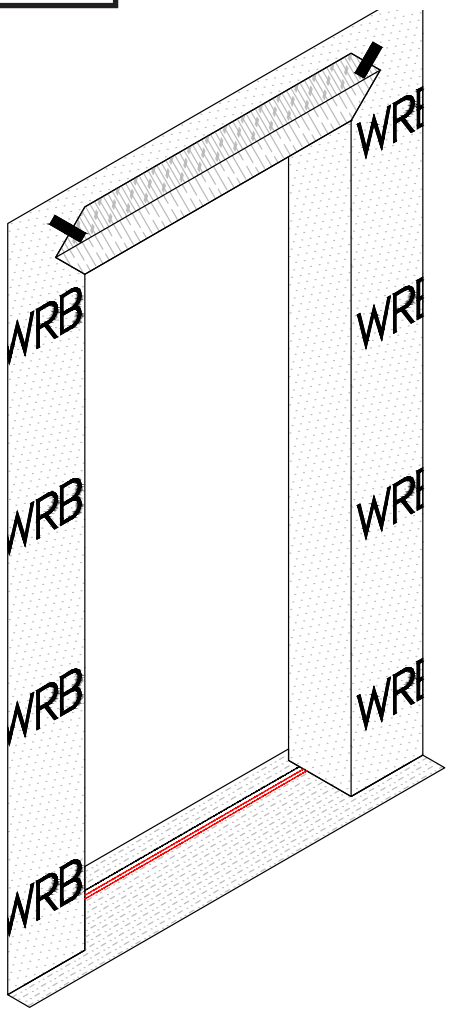


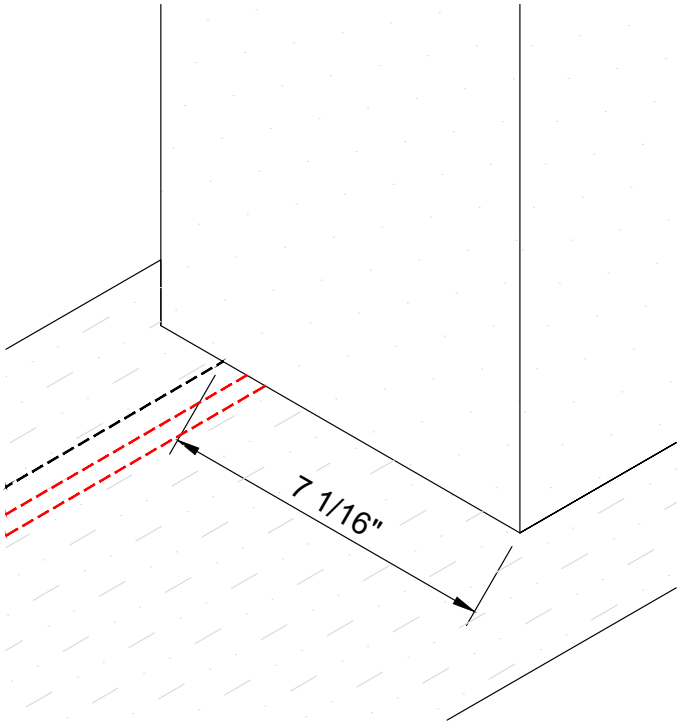
Sill Starter Installation for 6/9 Option

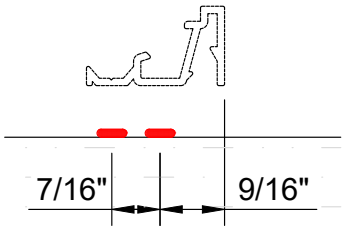
-See page 12 for 4/9 Option-

SP1B

Apply (2) 3/8” continuous beads of sealant across the entire width of the rough opening sill where the Sill Starter will sit.

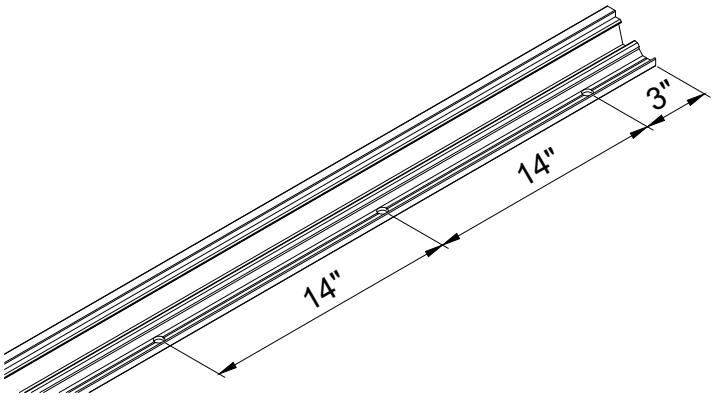


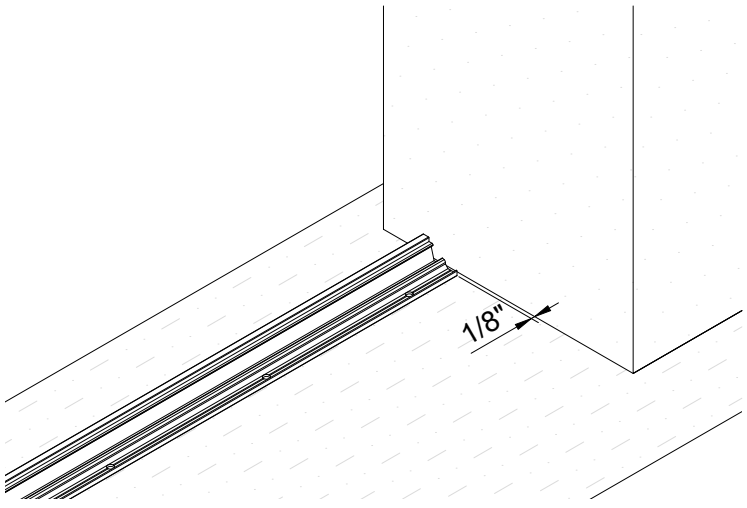




SP2B

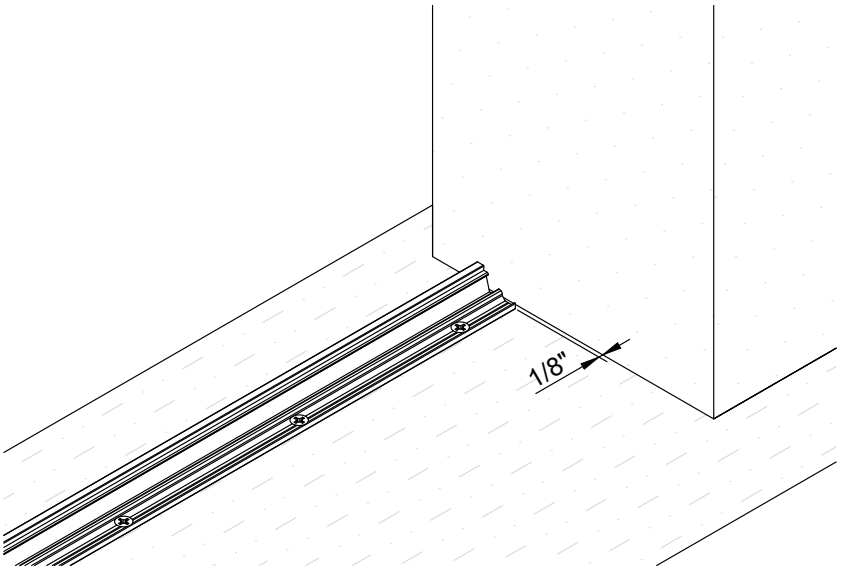
Drill clear holes in the Sill Starter at the ‘V’ Groove. Drill bit size is determined by required screw size.
Drill 3” from ends, and then at 14” O.C.
Place the Sill Starter in place and allow a 1/8” gap between the rough opening and the Sill Starter at both jambs.
Tool sealant at the interior and exterior as needed.

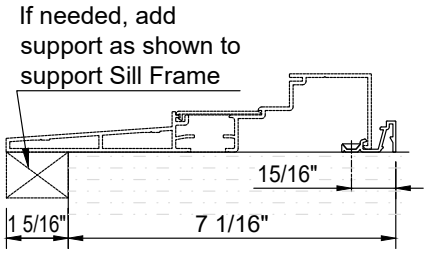




SP3B

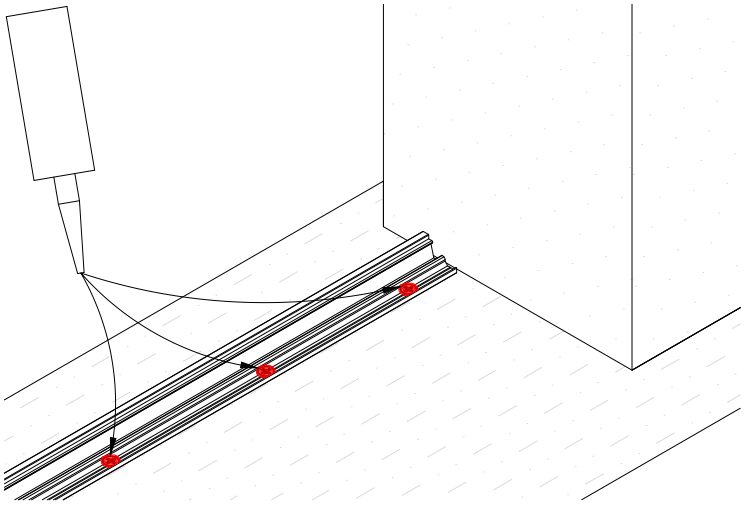
Match drill into the surrounding conditions, then fill holes with sealant.
If needed, add support for Sill Frame. This support can be supplied by the installer, or Quaker Angle Bracket M4965-PCS. Fasten Sill Starter in place.





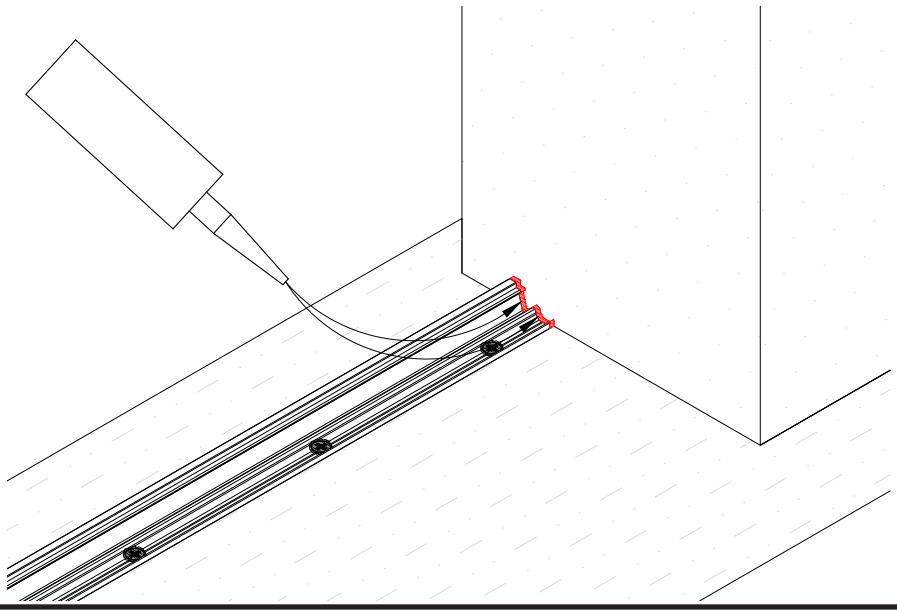
SP4B

After installing the perimeter fasteners, apply silicone over the screw heads.



SP5B

With the Sill Starter in place, apply silicone sealant along the Sill Starter and along the upturn leg.

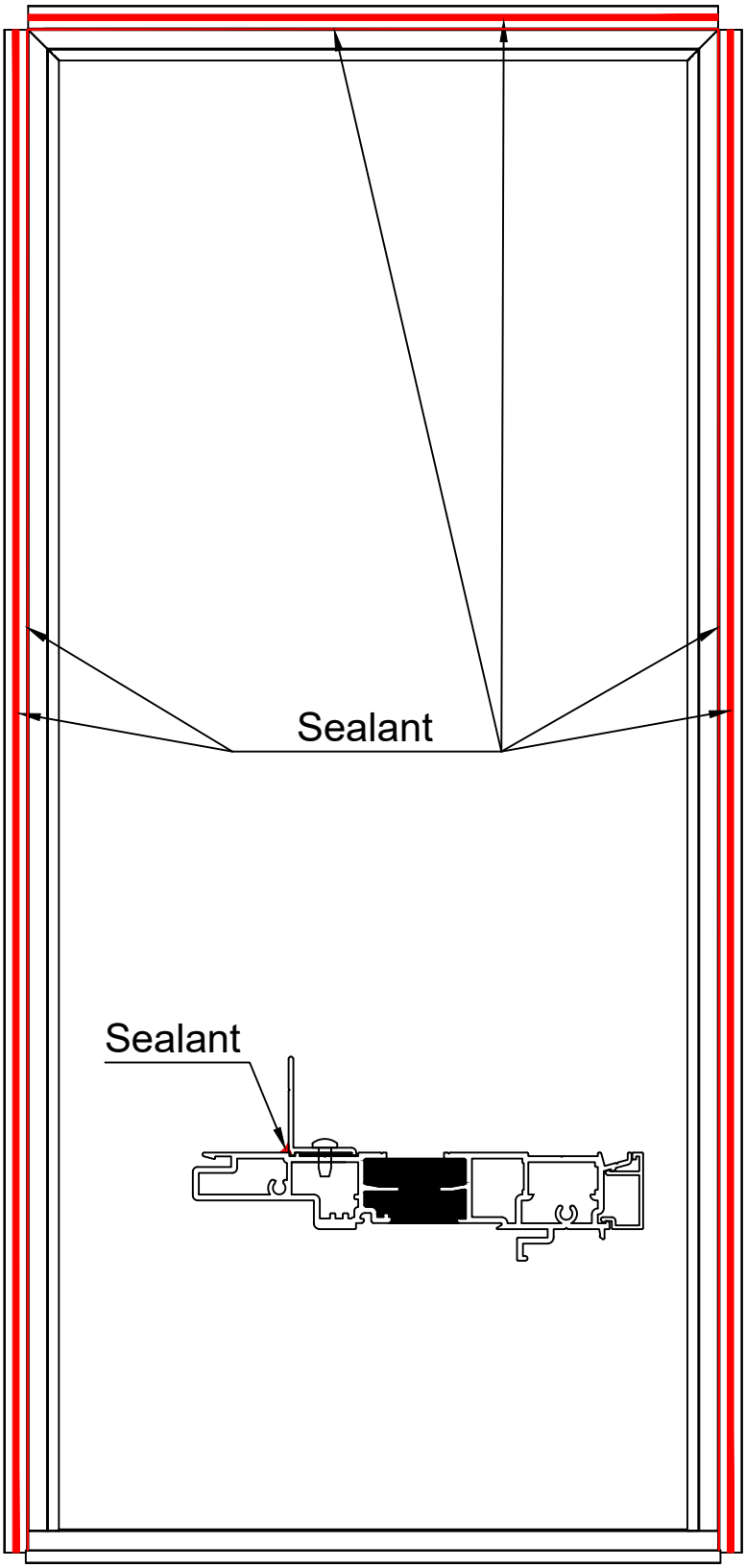


Frame Installation

FI1

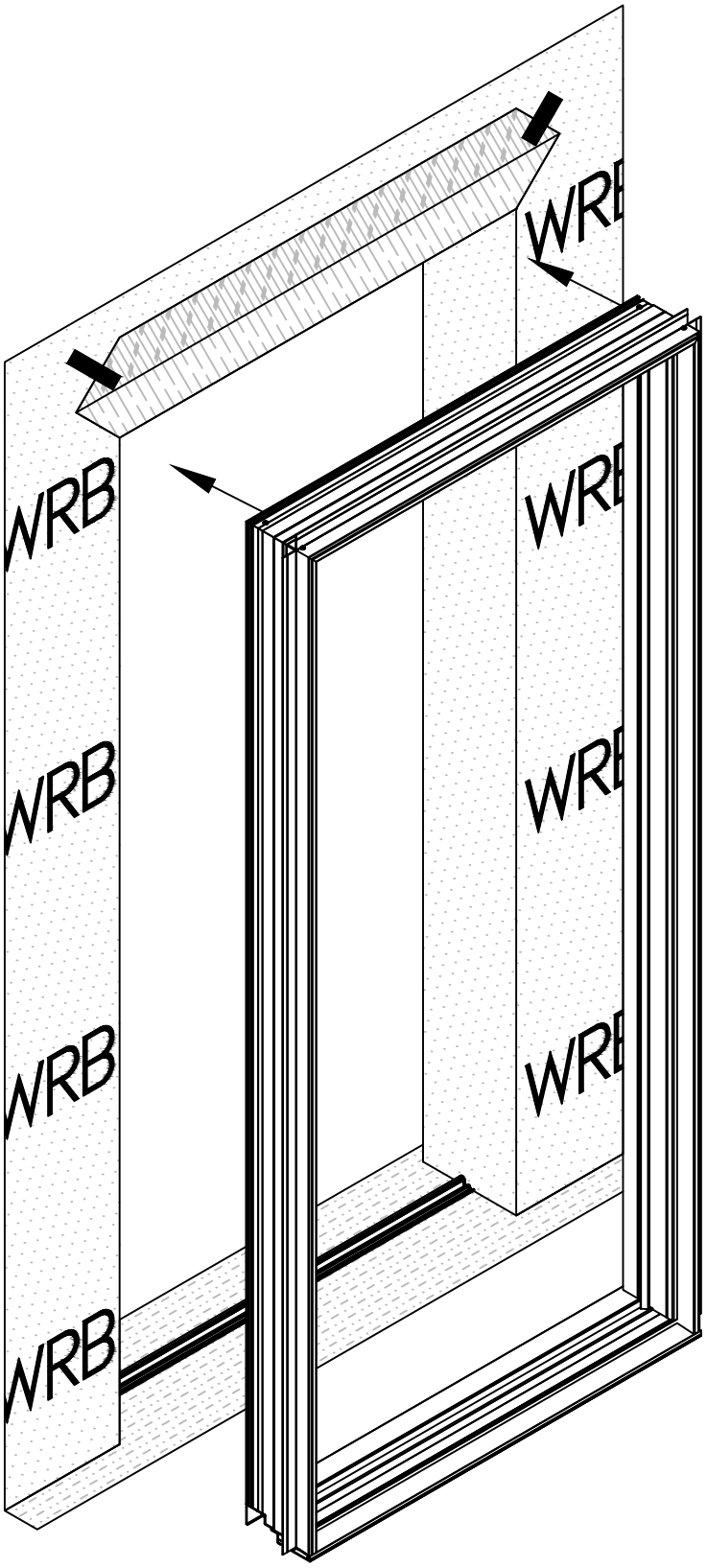
Apply a generous amount of sealant around the entire interior Flashing Flange as shown in the sketch below.
Also, apply sealant at outside edges of the Flashing Flange.

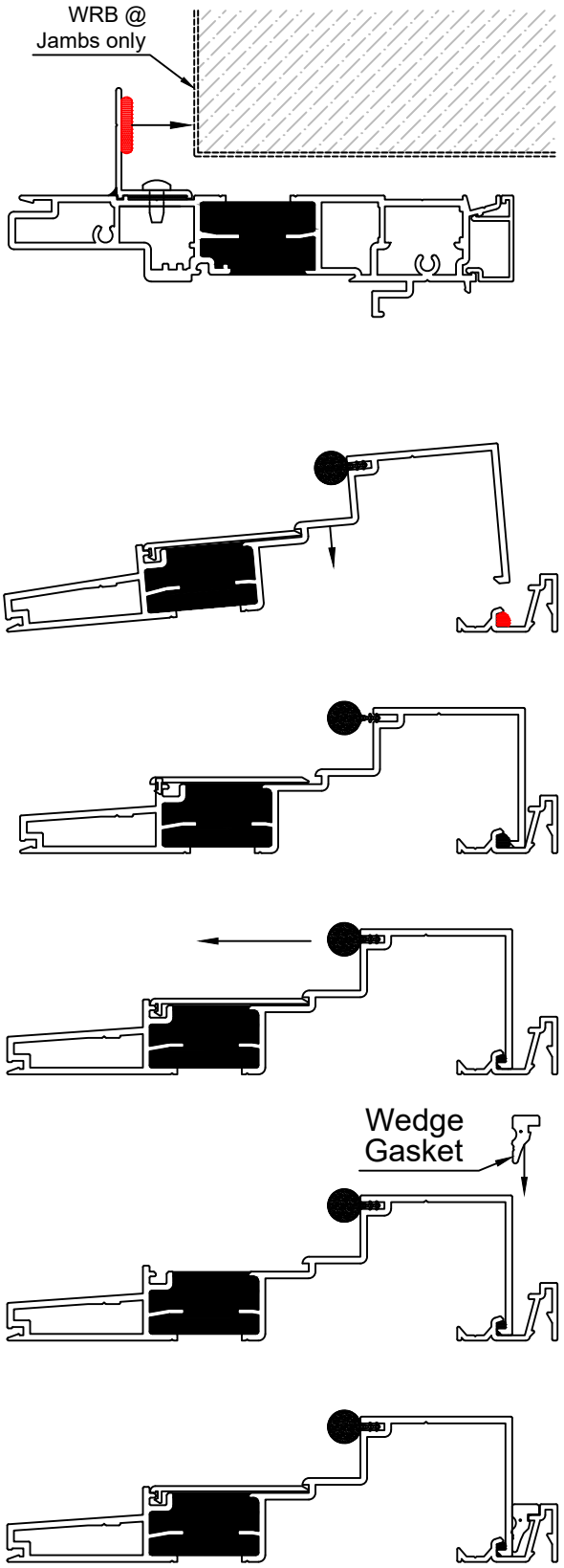
--WRB Supplier is required to specify what type of sealant should be used for compatibility--



FI2

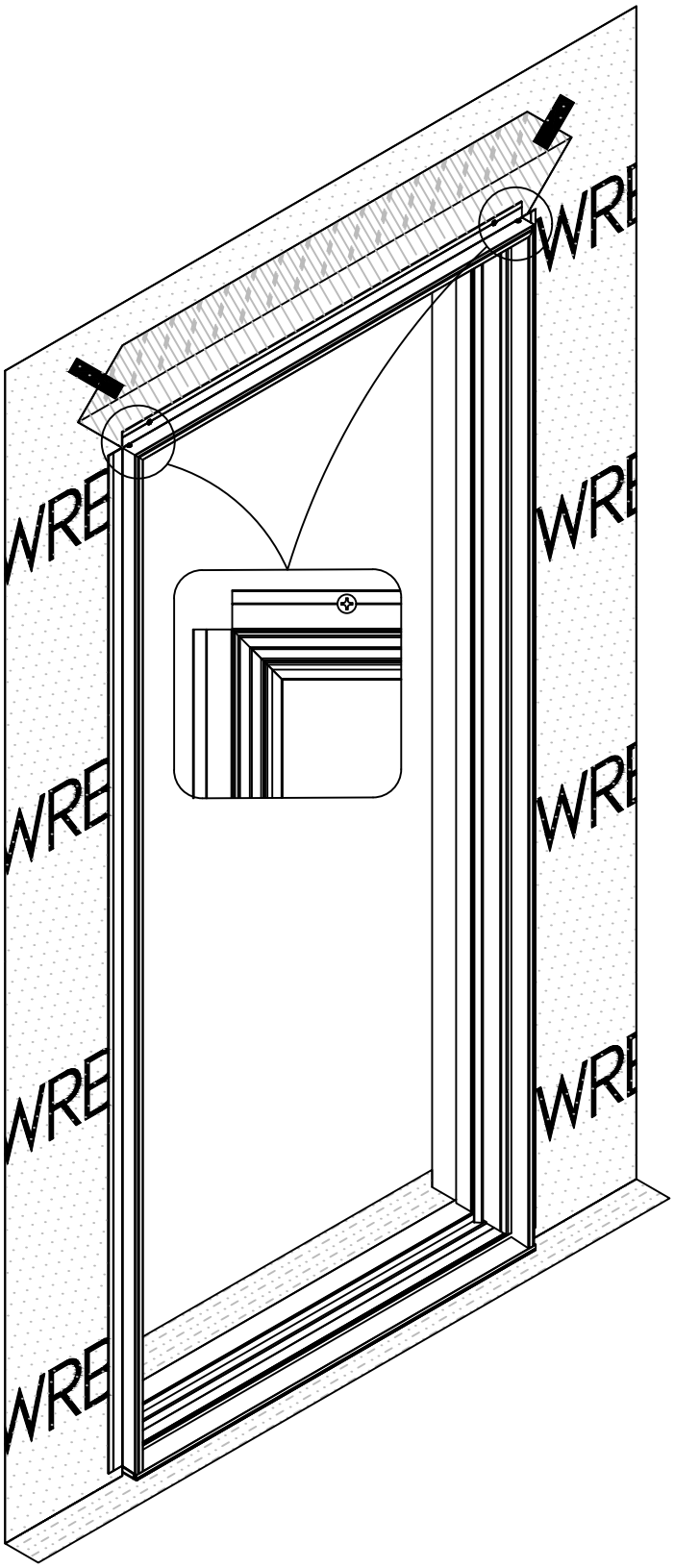
Before inserting the frame assembly into the opening, run a bead of silicone sealant into the groove at the Sill Starter. The sealant should run jamb-to-jamb.Install the frame assembly by tilting top out and sliding it into the rough opening from the exterior side. Set the frame assembly onto the Sill Starter as shown below. Push the Wedge Gasket into place.

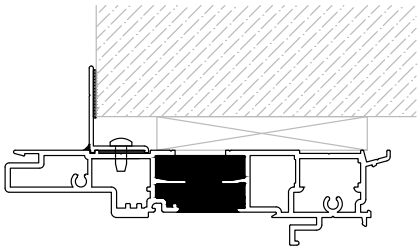


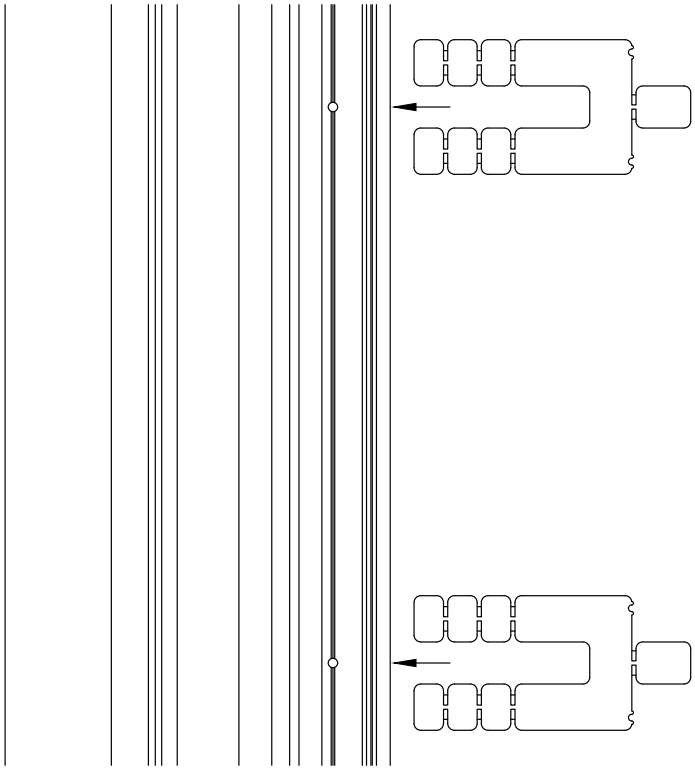


FI3

Verify head frame is level, plumb, and square. Use plastic shims as needed. Temporarily secure the frame assembly in the opening at the head corners. Match drill into the surrounding conditions, and then fill holes with silicone sealant. Temporarily insert required fasteners at the head frame just deep enough to hold the frame assembly in place.

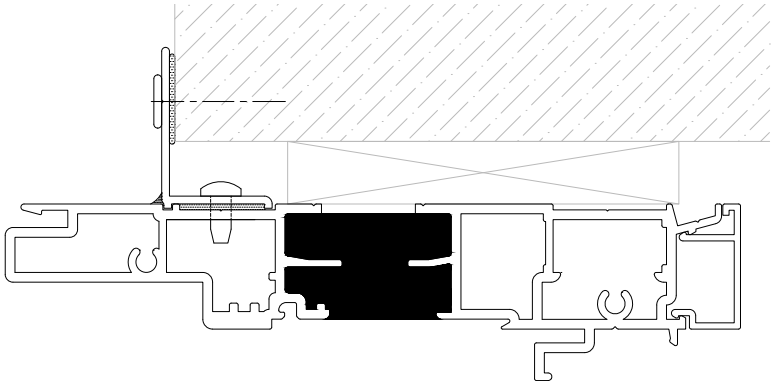






FI4

Verify head and jamb frames are level, plumb, and square. Use plastic shims as needed. Match drill into the surrounding conditions, and then fill holes with silicone sealant. Use the required fasteners to secure the unit in the opening. DO NOT over-tighten the fasteners and check for level several times while fastening in place.
Seal securely at the mitered Nail Fin corner joints.

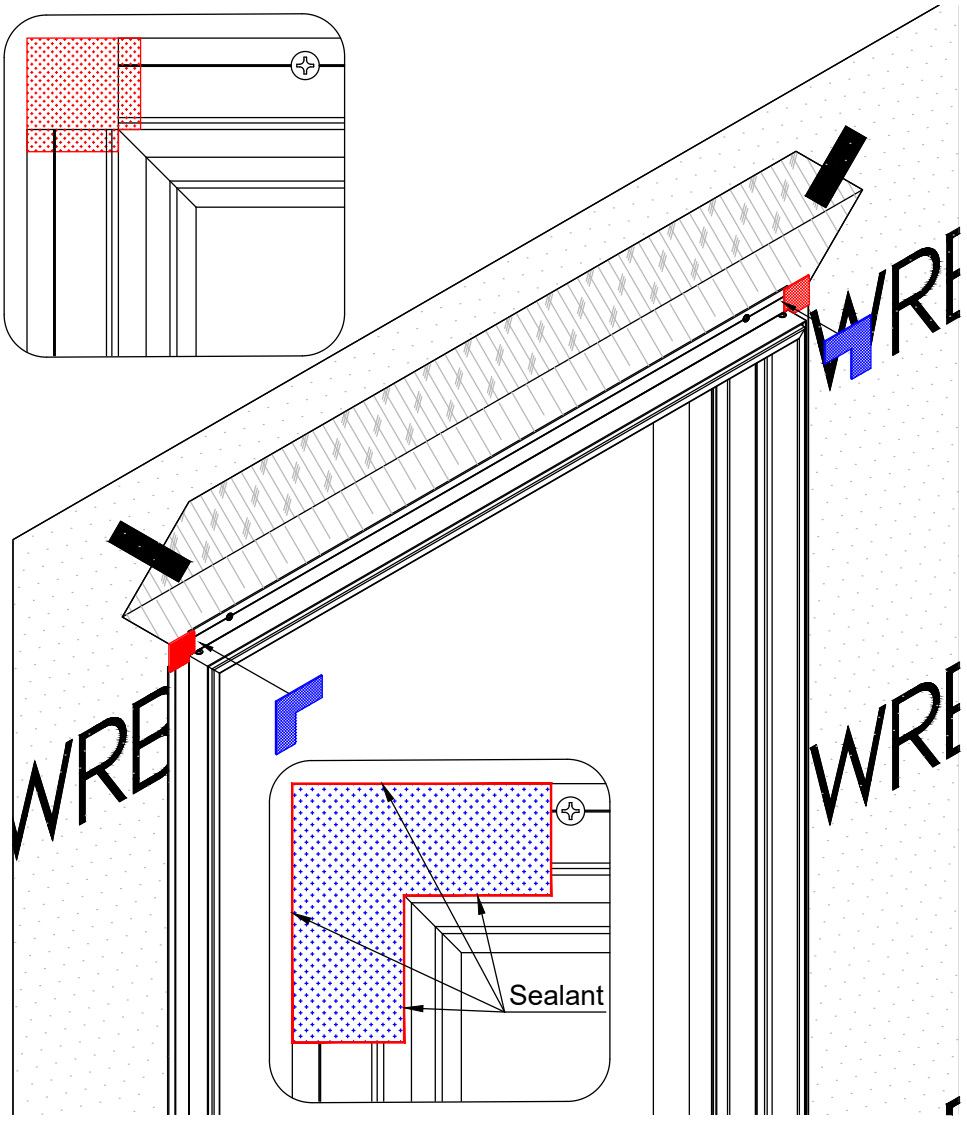


FI5

Before proceeding, again verify the frame assembly is level, plumb, and square. Measure diagonally, corner-to-corner, until the measurements are within 1/8" to each other. Adjust the plastic shims as needed. Measure vertically and horizontally at the ¼ points to verify measurements are within 1/16" to each other. Adjust the plastic shims as needed, then tighten all perimeter fasteners.
Verify the frame assembly is not bowed at the head or jambs.

FI6

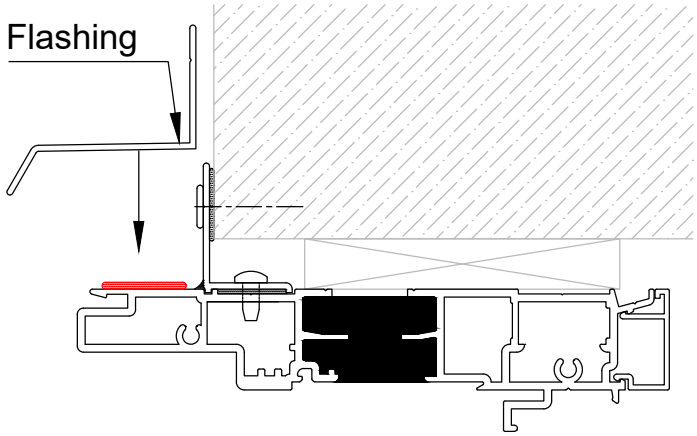
After frame installation is complete, install the (2) Nail Fin Corner Patch's over the exterior side of the Flashing Flange corner gaps. Apply silicone sealant to the area between the Flashing Flanges. Remove the backing from the Corner Patch and apply to the Flashing Flanges. Apply silicone sealant around the entire edges of the gasket. Tool the sealant as needed.

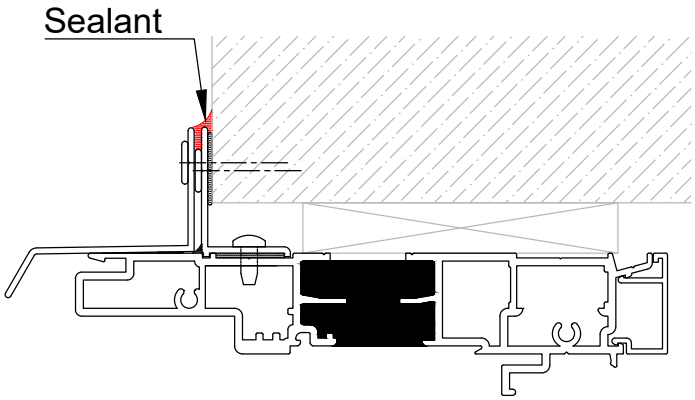


FI7

This step must be done for this application.

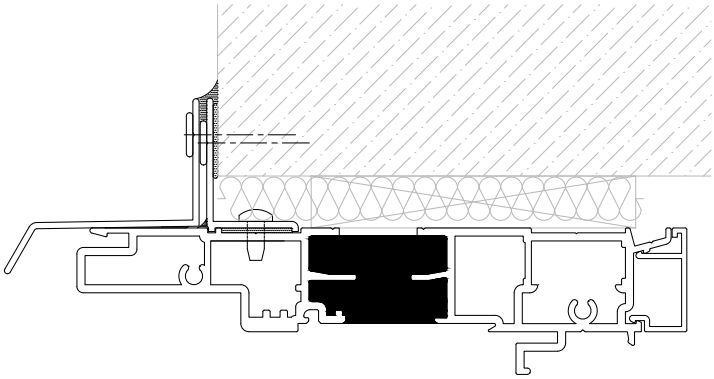
If not sized on the Shop Drawings, field size continuous Flashing that will cover the exterior of the Door Frame. Apply sealant to the top of the head as shown. Set the Flashing into place and if required attach the flashing to building and apply sealant over the fastener heads. Tool sealant as needed.
Then seal the top and sides of the Flashing to the building.

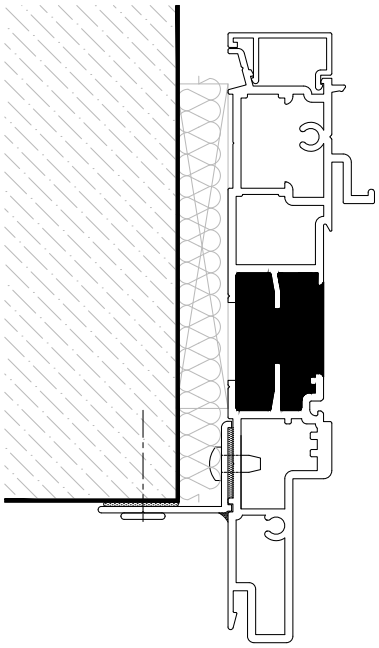




FI8

Insert insulation into the gap at the head and jambs as shown below.

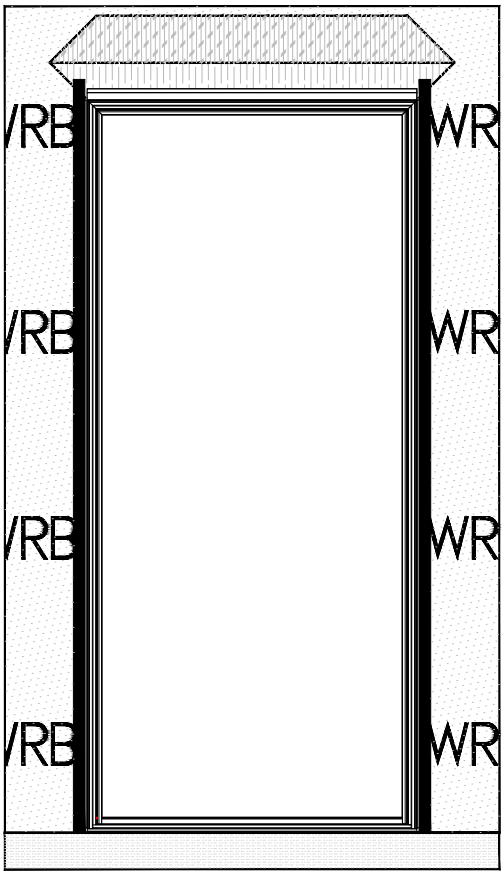




Perimeter Sealing Instructions

PS1

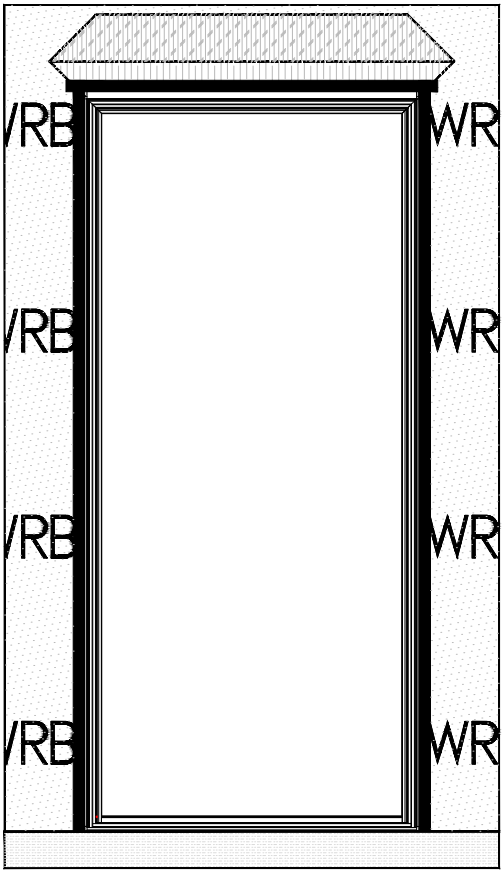
Apply flashing tape at the sides of the door frame as shown. Extend tape a minimum of 1” past the Flashing Flange, but not more than the width of the flashing tape. Smooth the tape using a J-Roller.



PS2

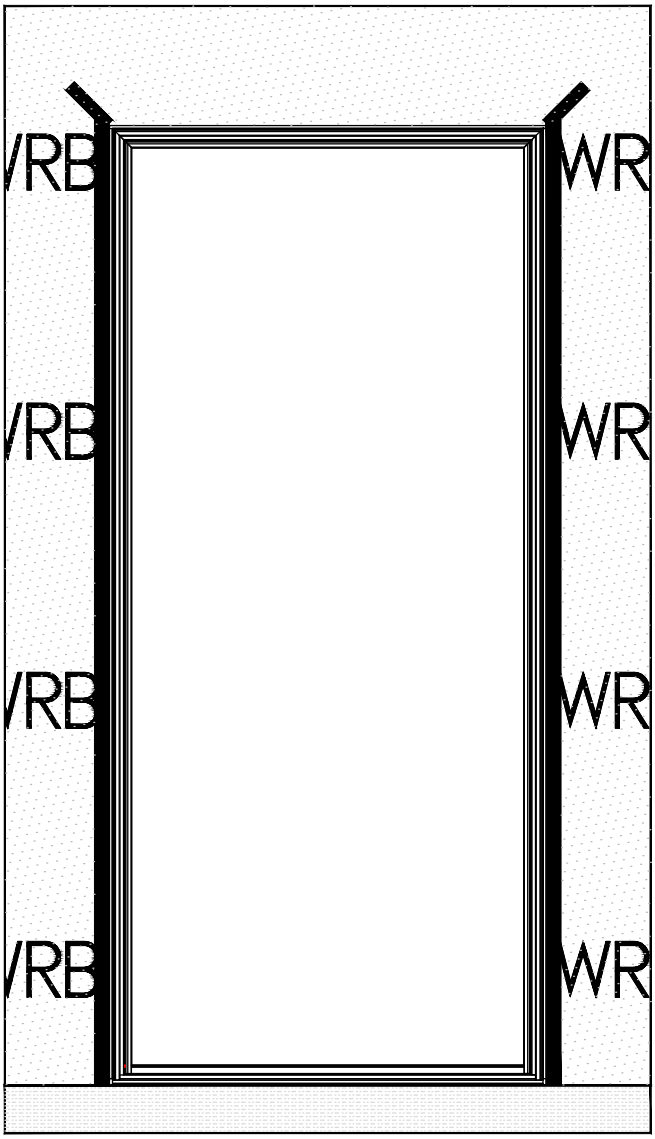
Apply flashing tape at the top of the door frame as shown, overlapping the side flashing tape. Smooth the tape using a J-Roller.

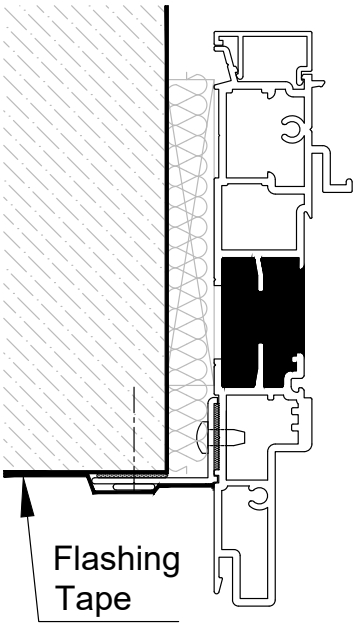
Side flashing tape cannot extend above the top flashing tape. Doing so could result in product or property damage.

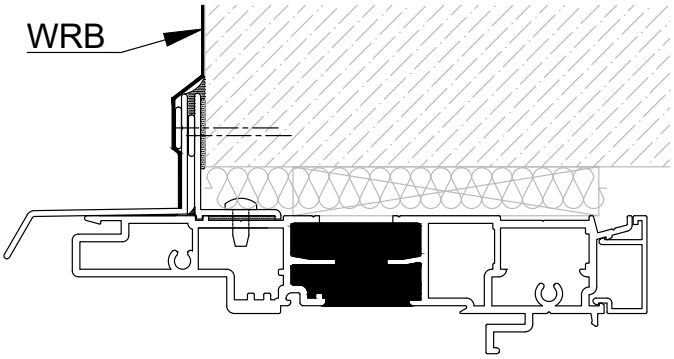


PS3

Unfold the top flap of the wrap, and tape the angled seams as shown.
Smooth the tape using a J-Roller.





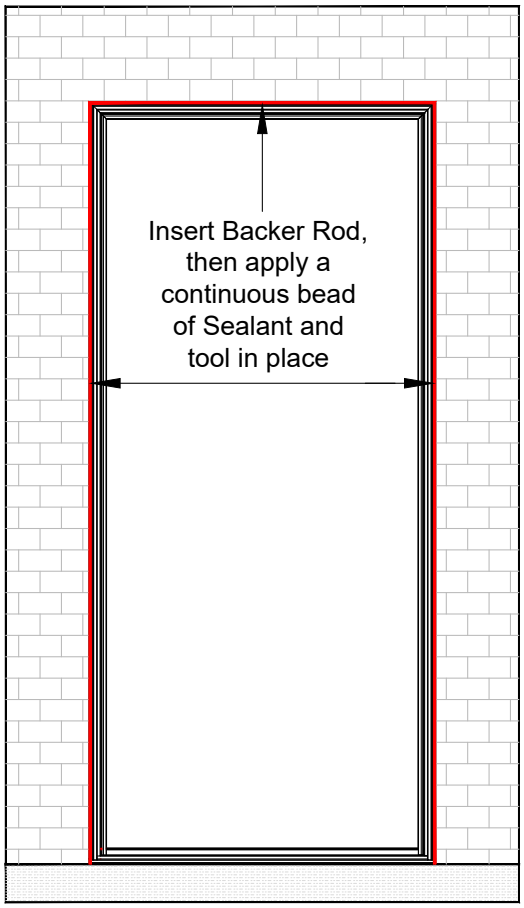


PS4

Refer to the Shop Drawings if additional flashing or other material is required. After exterior building construction is completed, install back rod, then apply a continuous bead of sealant around entire perimeter of window frame and tool in place.

Note:
Installer to verify that Sealant being used is compatible with Quaker window frame and the surrounding building construction materials.

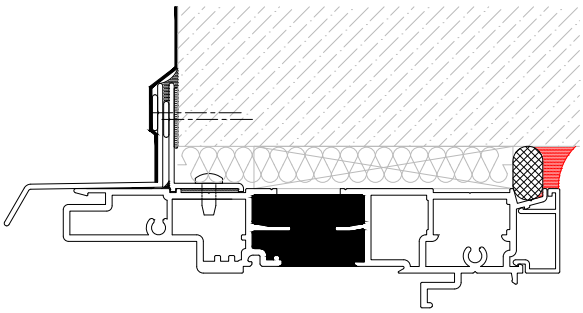
Note:
Please inform the exterior facade installer that they must maintain a minimum 1/4” gap between the facade material and the Door Unit, and that the facade material should never come in contact with the Window Unit.

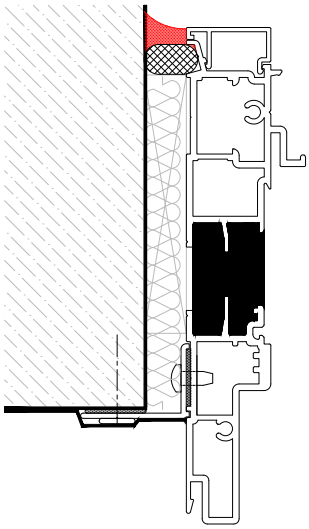


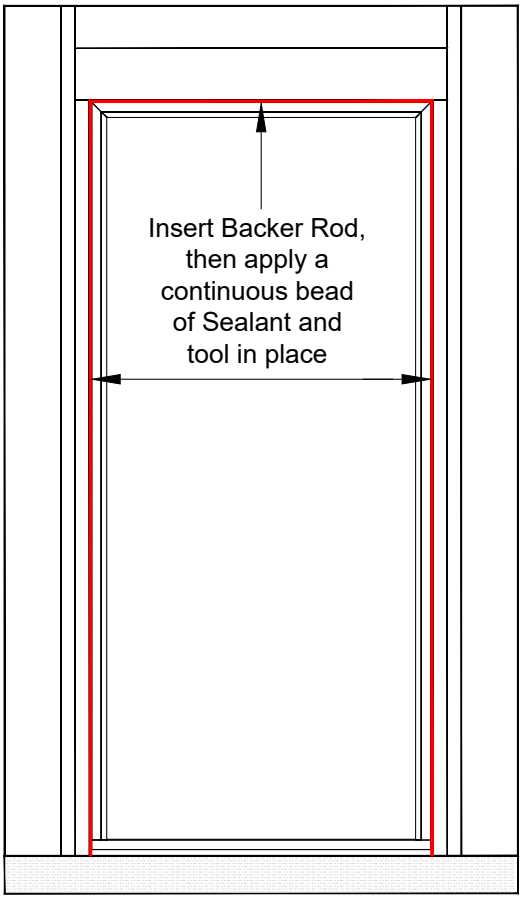
PS5

At the interior, insert a continuous backer rod and seal the window and T-Mullion to the building structure as shown below. Tool as needed.

Note:
Installer to verify that Sealant being used is compatible with Quaker window frame and the surrounding building construction materials.







Door Installation and Hinge Adjustment Instructions

At this time, lift the door onto the hinges. Adjust the door per the instructions below and on page 29. Verify locking is still aligned and works properly.

Introduction

There are two types of HOPPE Adjustable Hinges on each door panel:

1. Set Hinge: One or two per panel. The Set Hinge provides ± 1/8" vertical adjustment.
2. Guide Hinge: Two or three per panel. The Guide Hinges provide ± 1/8" horizontal adjustment. Look for the visible adjusting screw on the door sash leaf. This identifies the hinge as a Guide Hinge.
3. Hinge designs may vary, but adjustment remains the same.

Required Tools

1. A 3/16" hex wrench is required.
2. A small flat head screwdriver is required.
3. A plastic putty knife is recommended.

Vertical Adjustment for Doors with One Set Hinge

With the door closed or open:

1. Remove the press-fit Finial Cap from the bottom of the Set Hinge to expose the adjustment screw. Use the small screwdriver for Set Hinges featuring a plastic Finial Cap. A plastic putty knife is recommended for Set Hinges featuring a brass Finial Cap.
2. Insert the hex wrench into the bottom of the Set Hinge. Tighten the screw to raise the panel and loosen to lower the panel.
3. Reinstall the Finial Cap removed in Step 1.

Vertical Adjustment for Doors with Two Set Hinges

With the door closed or open:

1. Remove the press-fit Finial Cap from the bottom of the Set Hinge to expose the adjustment screw. Use the small screwdriver for Set Hinges featuring a plastic Finial Cap. A plastic putty knife is recommended for Set Hinges featuring a brass Finial Cap.
2. To raise the panel, insert the hex wrench into the top-most Set Hinge and tighten the adjustment screw to achieve the desired adjustment. Insert the hex wrench into the other Set Hinge and tighten the adjustment screw 1/8 turn past the onset of resistance to distribute the panel weight evenly between both Set Hinges.
3. To lower the panel, insert the hex wrench into the top-most Set Hinge and loosen the adjustment screw as far as possible without removing. Insert the hex wrench into the other Set Hinge and loosen the adjustment screw to achieve the desired adjustment. Retighten the adjustment screw on the top-most 1/8 turn past the onset of resistance to distribute the panel weight evenly between both Set Hinges.
4. Reinstall the Finial Caps removed in Step 1.

Horizontal Adjustment

With the door open:

1. Insert a 3/16" hex wrench into the horizontal adjustment screw.
2. Turn clockwise to decrease the margin and counterclockwise to increase the margin on the hinge side.

