

Ultimate Inswing & Ultimate Inswing French Door G2

Installation Instruction

ABSTRACT: Please read these instructions in their entirety before beginning to install your Marvin Door product. These installation instructions demonstrate the installation of a Marvin door in new wood frame construction using an industry approved water management system. For installation using other construction methods, such as remodeling, replacement, and recessed openings refer to the latest version of ASTM E2112, “Standard Practice for Installation of Exterior Windows, Doors and Skylights,” for installation suggestions. The same information for ASTM E2112 can be found on the ASTM website, www.astm.org.

Regional standard practices, environmental conditions, and codes may vary and supersede the procedures contained within. The responsibility for compliance is yours: the installer, inspector, and owner(s).

The English language version of this instruction is the official version and shall take precedence over any translation.

USAGE DATES: These instructions are relevant for doors manufactured June 2021 to present. Doors included in this instruction:

- Ultimate Inswing Door 2.25 IZ3(UID 2.25 IZ3)
- Ultimate Inswing French Door 2.25 IZ3 G2 (UIFD2.25 IZ3 G2)
- Ultimate Inswing French Door G2 (UIFD G2)
- Ultimate Inswing French Door 2.25 G2 (UIFD2.25 G2)

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Installer and Builder Information

- Always provide a copy of these instructions for the current homeowner.
- Plan sizing of rough opening and clearance from exterior finishing systems to allow for normal materials shrinkage or shifting (e.g. wood structure with brick veneer; allow adequate clearance at the sill). Failure to do so can void the Marvin warranty coverage.
- Refer to the Technical Installation Specifications section for technical specifications regarding the installation of this product. These installation requirements as well as the details in the section must be followed to achieve the advertised Performance Grade (PG) rating of this product.
- It is the responsibility of the builder, installer, and subcontractors to protect the interior and exterior of windows or doors from contact with harsh chemical washes, construction material contamination and moisture. Damage to glazing, hardware, weather strip and cladding/wood can occur. Protect with painters tape and/or protective sheathing as required. Follow all guidelines regarding material use, preparation, personal safety and disposal.
- Contact your Marvin supplier if you have any questions regarding product and materials used in manufacturing or questions on replacement parts.
- Please refer to the PDF version of this instruction for further information regarding best practices installer and builder information, code, and other legal requirements. The PDF version is the official document of record.

Protective Film

Some products feature a clear protective film adhered to the glass surfaces to protect them from construction debris, dust, dirt, stucco, etc. When construction is complete, simply peel the film off and dispose of it with other construction debris.

IMPORTANT

Do not use a razor blade to remove the protective film. Do not use a pressure washer to clean debris from the film. The film should be removed within nine months (typical) of application.

The use of high absorption coatings and tints, Neat+® coated glass, LoE-189® and other exposed Low-E coatings could affect adhesion and reduce the amount of time allowed to remove the film. Please refer to the [manufacturer's website](#) and [bulletin](#) for more information on the physical properties and usage of the protective film.

IMPORTANT

DO NOT place suction cups over seams in the protective film.

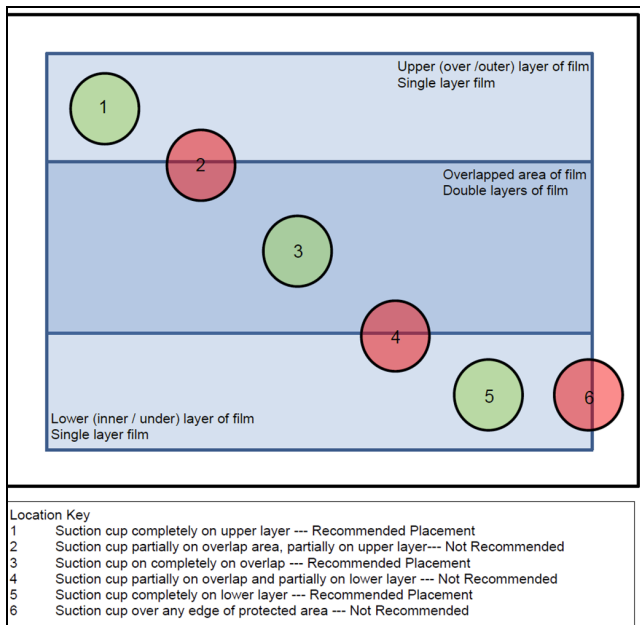


Figure 1 Do not put suction cups on seams or edges

After Market Products

Alterations to Marvin products including window films, insulating or reflective interior window treatments or additional glazings can cause excessive heat buildup and/or condensation. They may lead to premature failures not covered under warranty by Marvin Windows and Doors.

Before purchasing or applying any product that may affect the installation or performance of Marvin windows or doors, contact the manufacturer of after-market product/glazings that are not supplied by Marvin and request written product use, associated warranties and damage coverage. Provide this information and warranties to the end user and/or building owner for future reference.

Tools and Supplies Needed

- Phillips screwdriver
- Flat screwdriver
- Power drill/driver
- 3mm and 6mm Allen wrenches
- 3/16" drill bit
- 1/8" x 6" drill bit (for drilling into RO)
- #2 Phillips bit
- Rubber mallet
- Caulking gun
- Level (laser level helpful)
- Square
- Utility knife
- Tape measure
- Pencil/marker
- Safety glasses
- Gloves
- Utility knife
- Pry bar
- Shims
- Sill panning
- Weather resistive barrier
- Flashing
- Sealant
- Rags/paper towel
- Low expansion, low compression insulating foam

Hazard Notations



Do **NOT** lift or move without proper equipment. Read, understand, and follow all lift equipment manufacturers' instructions and safety information.



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.



This product can expose you to chemicals including titanium oxide, which is known to the state of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.



This product can expose you to chemicals including methanol, which is known to the state of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.



Always practice safety! Wear the appropriate eye, ear, and hand protection, especially when working with power tools.



WARNING!

Always practice safety! Wear the appropriate eye, ear, and hand protection, especially when working with power tools.

IMPORTANT

Nailing fin is not designed to be a weatherproof flashing.

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NOTE: Numbers listed in parentheses () are metric equivalents in millimeters rounded to the nearest whole number.

Rough and Masonry Opening Requirements

IMPORTANT

These steps are crucial to obtain a trouble-free installation. If these conditions are not met, the installer must take corrective actions to alter the opening(s) before proceeding. For typical wood frame construction it is also essential that the wall sheathing be a solid surface to ensure that the unit can be secured firmly to the wall.

1. Rough openings (RO) should be $\frac{1}{2}$ " (13) higher and 1" (25) wider than the outside measurement of the frame ($\frac{1}{2}$ " on each side of the frame) or casing.

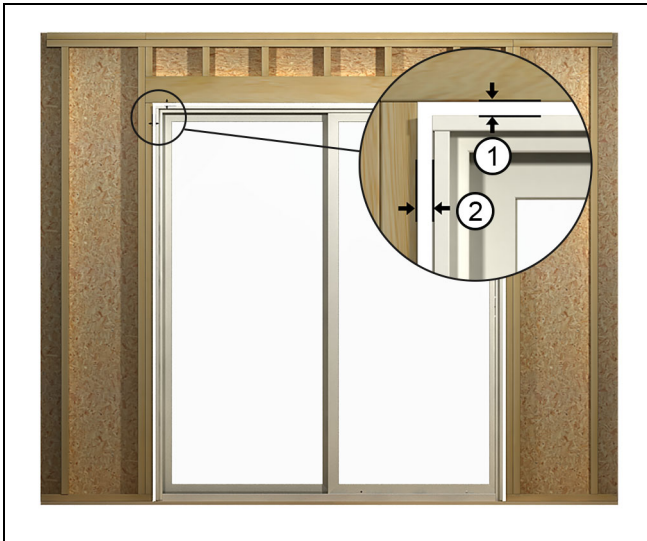


Figure 2 Rough Opening Clearance

1	1/2" RO Height
2	1/2" RO Width (on each side)

2. Masonry openings (MO) should be $\frac{1}{4}$ " (6) higher and $\frac{1}{2}$ " (13) wider than the outside measurement of the frame ($\frac{1}{2}$ " on each side of the frame) or casing.

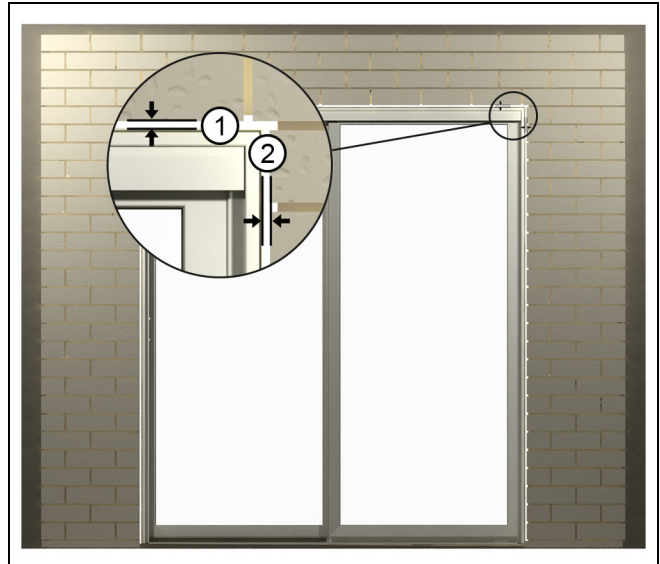


Figure 3 Masonry opening clearance

1	1/4" MO height
2	1/4" MO width (on each side)

3. Check the bottom surface of the opening to ensure it is flat, level, and free from debris. Proper operation of the door requires a sill that is flat and level.



Figure 4 Start with a clean flat sill

NOTE: For doors not on grade and in standard wood frame construction with brick veneer, make sure there is at least $\frac{1}{2}$ " between the bottom of the door sill (or eventual placement of the door) and the brick immediately beneath the sill to avoid "brick bind".

Rough Opening Preparation-Method A1 (WRB Before Installation)

The following section demonstrates best practice for a rough opening preparation for using a weather resistive barrier as an A1 (WRB before Installation). Refer to ASTM E2112 for the other situations not covered in this document.

1. When trimming away the air barrier at openings, first cut horizontally across the entire width of the rough opening at the head jamb and sill. Then cut vertically in the center of the opening from sill to head jamb. Finally cut the head jamb corners diagonally away from the opening. The complete cut should be in a “I” fashion. DO NOT cut air barrier diagonally from corner to corner in an “X” fashion. See Figure 5.



Figure 5

2. Wrap barrier at the sides to the interior and tack in place. Do not tack barrier at head jamb. Fold the head jamb flap up and tack in place or tuck beneath. This will allow the top flap to fit over the head jamb flashing after installation of the door. See Figure 6.



Figure 6

Preparing the Door for Installation

IMPORTANT

Inspect the door for any damage or missing parts. Contact your Marvin representative if there are any problems. If possible, provide the original order number and description of door.

IMPORTANT

Nailing fin is not designed to be a weatherproof flashing.

1. Remove the protective packaging from the unit and dispose/recycle properly. Inspect the unit for any hidden damage and report immediately to your sales representative. Provide the customer service number or glass part number etched on one of the top corners of the glass. See Figure 7.

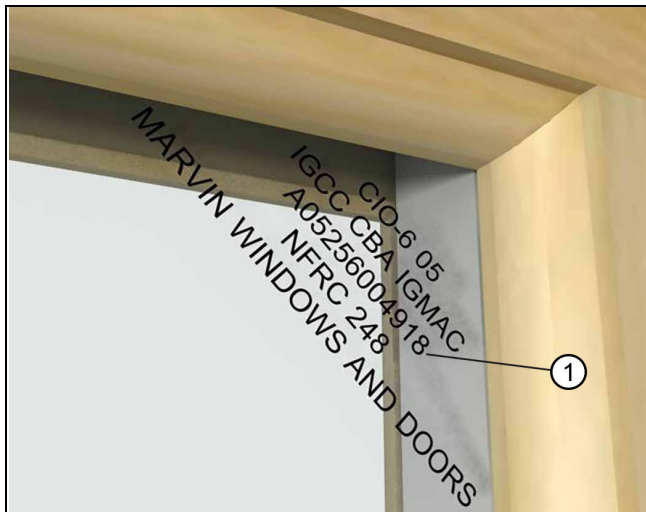


Figure 7

1	Customer service number
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2. **For Clad Units:** position the factory applied nailing fin in the upright position. FOR UNITS WITH VINYL NAILING FINIS DO NOT APPLY NAILING FIN CORNER GASKETS AT THIS TIME

NOTE: Units with flat casing: units must be installed using masonry clips or screw through the jamb.

3. If you are installing your door with structural brackets or masonry clips, apply to the door frame once you are ready to place it in the opening permanently. Follow the instructions included with the brackets. See Figure 8. On IZ3 units place the structural brackets 6" from each corner and a maximum of 15" apart, with a minimum of

2 per side. Fasten with #8 x 5/8" screws to attach structural bracket to unit. Fasten #8 x 1 1/2" screw to attach bracket to buck.

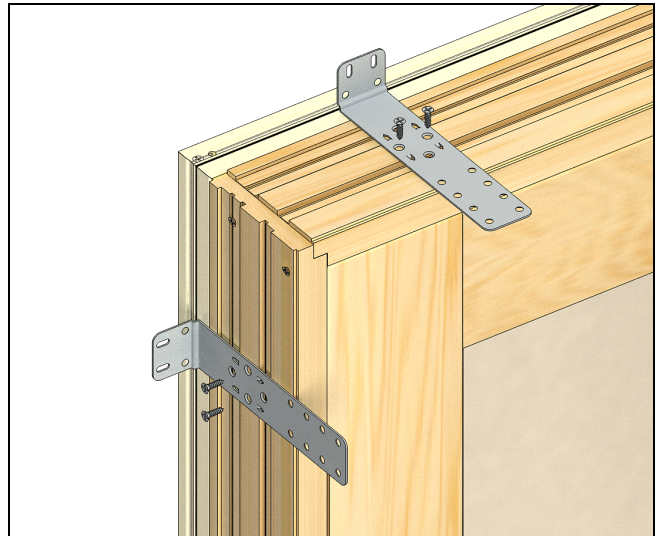


Figure 8

! CAUTION!

Some brackets are sharp. Wear gloves and use care when moving the door if the brackets are installed.

4. **On units with optional aluminum nail fin:** Manually fold out the nail fin until it is perpendicular to the frame. Take care during handling and installation not to damage the corner gasket. After the unit is secured in the opening, fold the supplied drip cap to an "L" shape as shown and install per unit flashing instructions. See Figure 9.

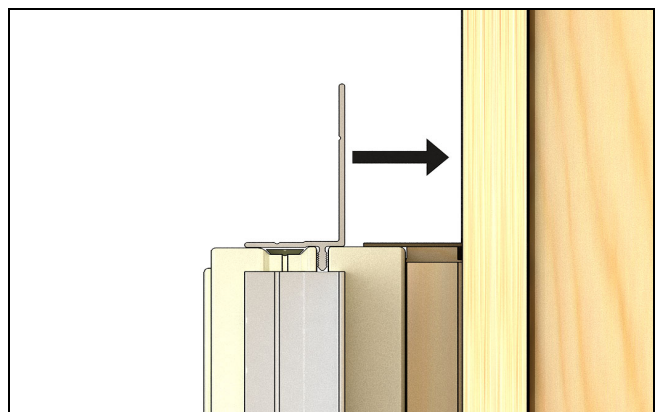


Figure 9

Installing the Door



Seek Assistance

It is highly recommended that you get help from another person/persons when installing the door. These doors are heavy and it will be hard to position or install with just one person.

IMPORTANT

IZ3 units need to be installed using the through jamb method or structural bracket method.

NOTE: If field applying interior jamb extension or mulling transom units, refer to appropriate instructions (as needed) at this time.

1. After the rough opening has been prepped (using either the air barrier or building paper methods), apply a continuous bead of sealant 3/4" (19) from the top and sides of the door opening. See Figure 10.

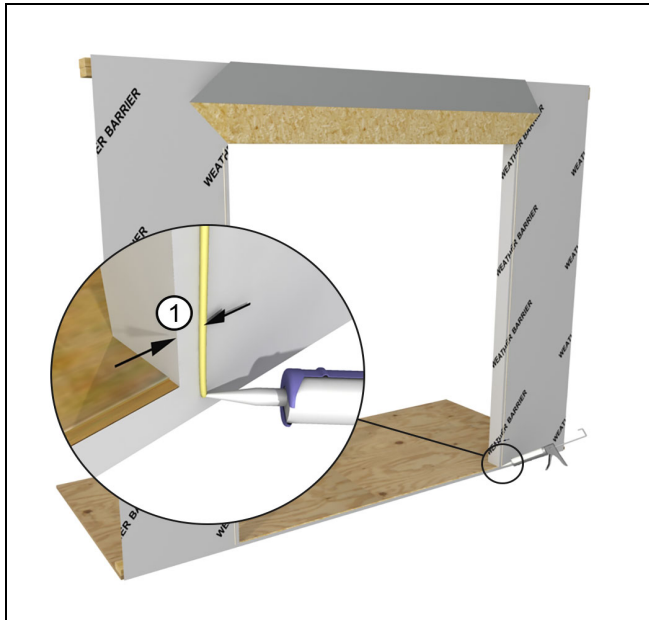


Figure 10

1	3/4" (19)
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2. Apply a 3/8" (10) bead of sealant on the subfloor at the interior edge of the door opening. See Figure 11.

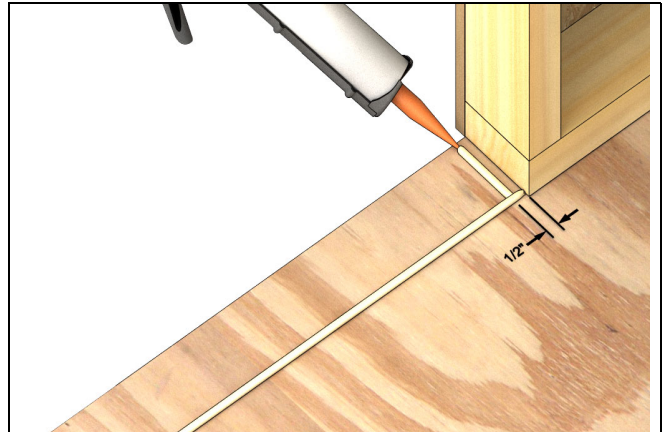


Figure 11

3. Tip the door into the opening and center it. Temporarily nail the upper corners of the nailing fin with a 2" (51) roofing nail. Do not drive the nail all the way in. See Figure 12.



Figure 12

4. Before the sealant is allowed to set up, ensure the jambs are straight and plumb (interior/exterior and left/right). The sill must be level and straight. See Figure 13.

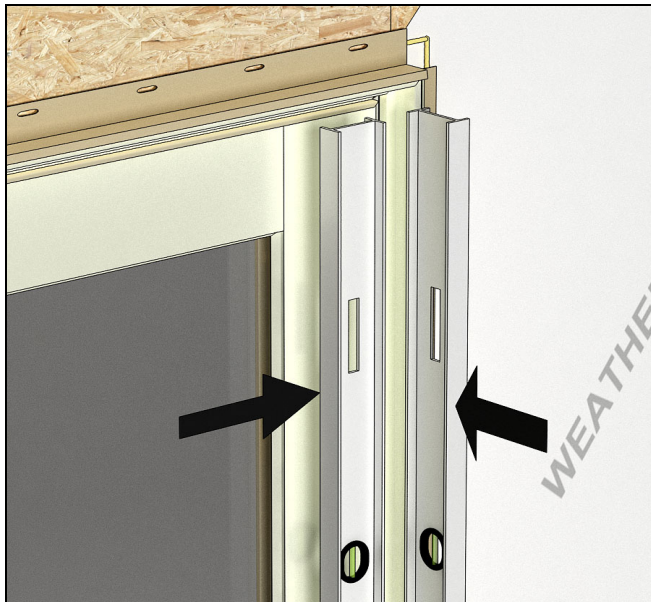


Figure 13

5. Apply a continuous bead of sealant beneath the vinyl drip cap along the top of the head jamb as shown in Figure 14

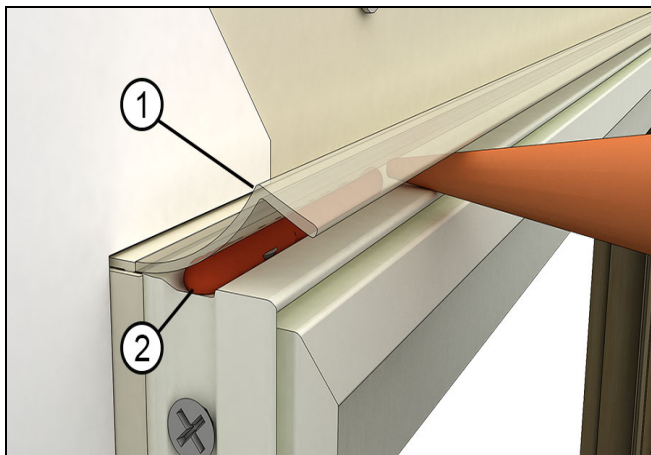


Figure 14

1	Vinyl drip cap
2	Sealant

6. Check diagonal measurements for the entire frame. Adjust as necessary by applying shims to the corners 6" (152) from the sill and head jamb. See Figure 15.

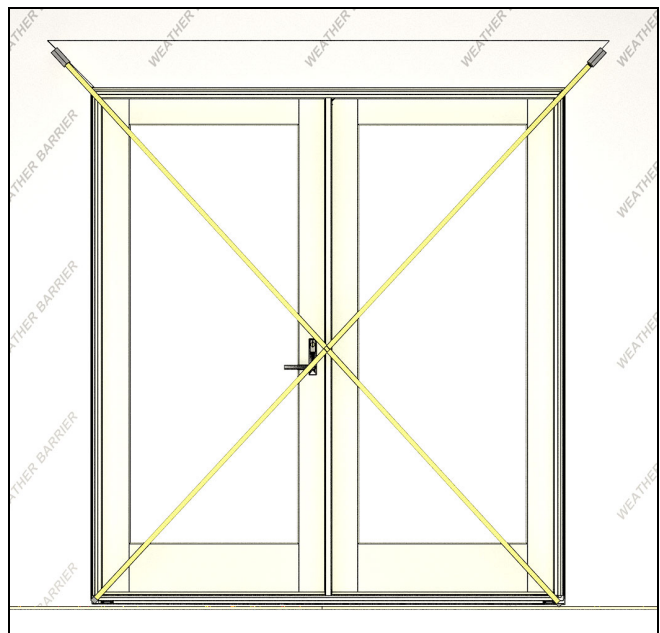


Figure 15

IMPORTANT

To meet the advertised Structural Design Pressure Ratings, doors must be installed with masonry clips, jamb screws or structural brackets spaced a maximum of 6" from the corners and 15" on center

NOTE: Proper shimming is extremely important. Under shimming can cause the unit to sag out of square, over shimming will result in bowed jambs and/or head jamb. Both conditions can contribute to improper operation of the door panels.

Sill Weather Strip on KD or Panels Shipped Separate

For doors with accessibility sills or doors sent with panels shipped separate, the sill weather strip will be shipped taped to the panel. The weather strip(s) run the full width of the panel.

1. On active and inactive operator panels as well as interior stationary panels, insert the barbed side of the sill weatherstrip into the bottom of the panel. Rotate the other side to the clad side of the panel and then remove the adhesive backing. Press the weather strip onto the cladding. See Figure 16.

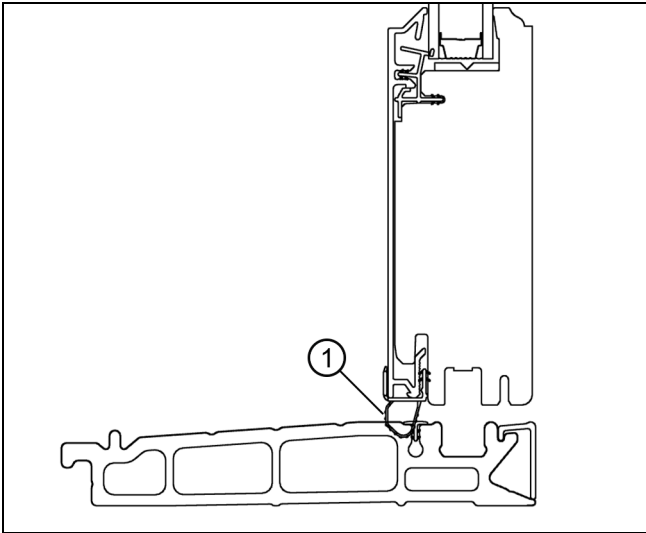


Figure 16

1	Sill weatherstrip
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Permanently Securing the Door

For Units Using Jamb Screw Method:

1. Remove covers by starting at the top of the exterior part stop, using a hammer and block, impact the exterior surface to start to disengage the cover from the accessory kerf. Continue to work down the cover to fully remove it. [See Figure 17.](#)

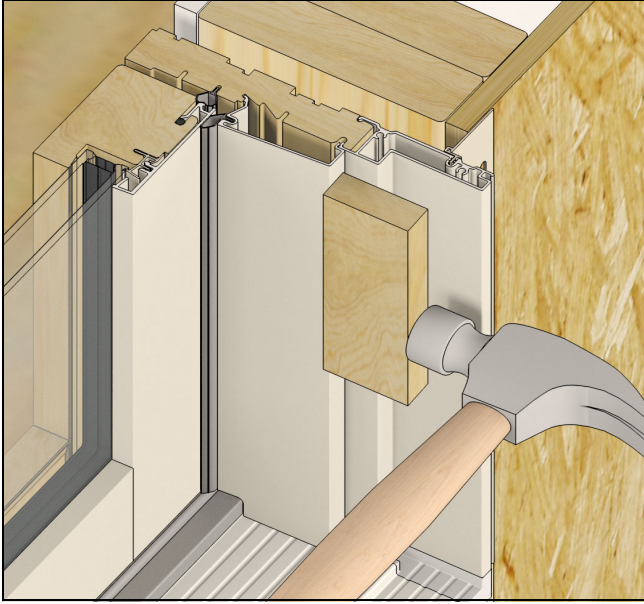


Figure 17

NOTE: For units with a stationary panel and an interior astragal, the head jamb cover cannot be removed. Installation screws will go through the head/jamb above any active panel and installation brackets will be used above any stationary panel. [See Figure 18.](#)

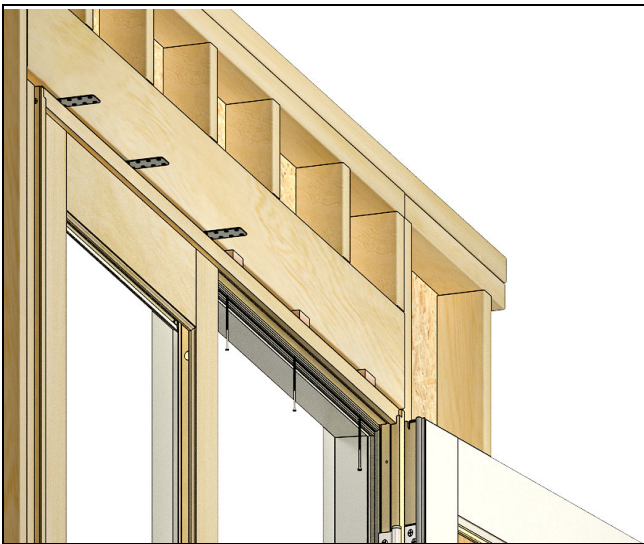


Figure 18

2. Fasten unit to wood buck/rough opening with #8 x 3" wood screws. Screws must be a minimum of 1" from edge of buck. Place the screws 6" from each corner and a maximum of 15" apart, with a minimum of 2 per side. [See Figure 19.](#)

NOTE: Pre-drill the screw holes before installing the screws.

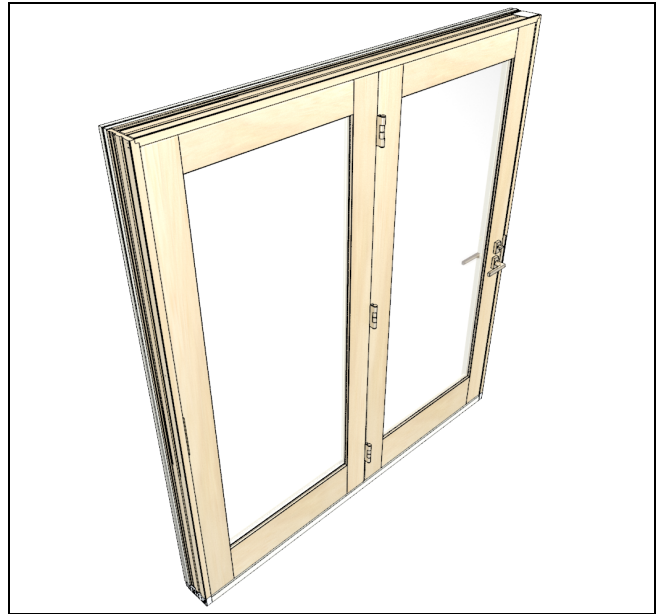


Figure 19

Installing the Covers

1. To install the stop, rotate engagement feature into the wood jamb kerf. Push the cover the whole way to the header cover. Starting at the top, using a rubber mallet, impact the outer edge of the cover to seat it. Continue working down towards the sill to fully seat it. See [Figure 20](#).

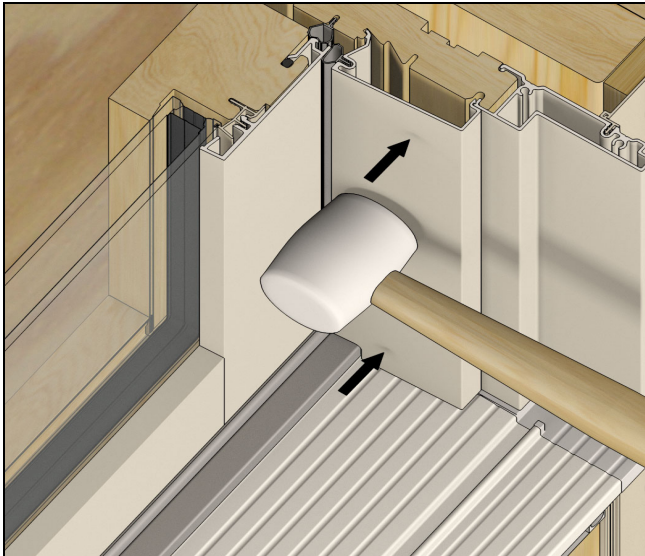


Figure 20

NOTE: During shipping the part stop may slip down. If this happens, we recommend inserting a pry bar between the sill and jamb part stop and gently pulling up on the pry bar to raise the part stop back into place.

2. Because the gap between the stationary panel and part stop is at a minimum, Marvin recommends using a small pry bar or siding removal tool (shown) to help pull the weather strip into the part stop. See [Figure 21](#).



Figure 21

Hinge and Strike Screw Installation

1. On all operating panels that hinge off of a jamb., install a provided #10 x 2 1/2" screw as shown in [Figure 22](#). The 2-1/2" screw will always be put in the 2nd screw hole from the top. On IZ3 units, two #10 x 2-1/2" screws are needed in the center holes.

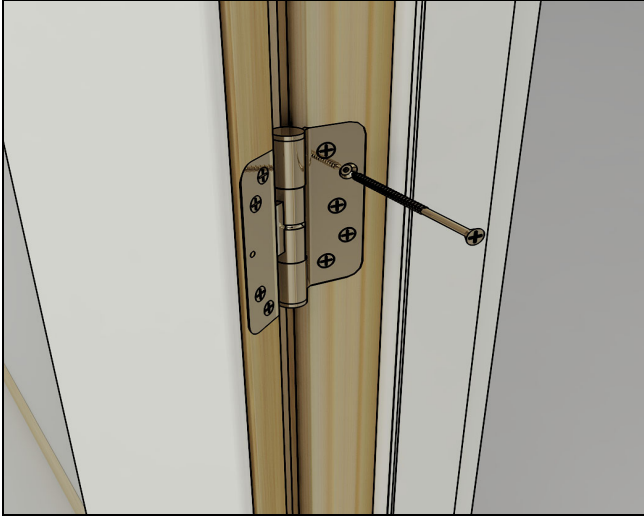


Figure 22 Adjustable hinge

1	#10 x 2 1/2" screw
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2. On all side jamb and head jamb strike plates, remove and replace the screws fastening the strike to the frame with the longer screws and drive into the rough opening frame as shown in [Figure 23](#) and [Figure 24](#). Screws will stay intact on the head jamb strike plate and two #10 installation screws as shown in [Figure 24](#).

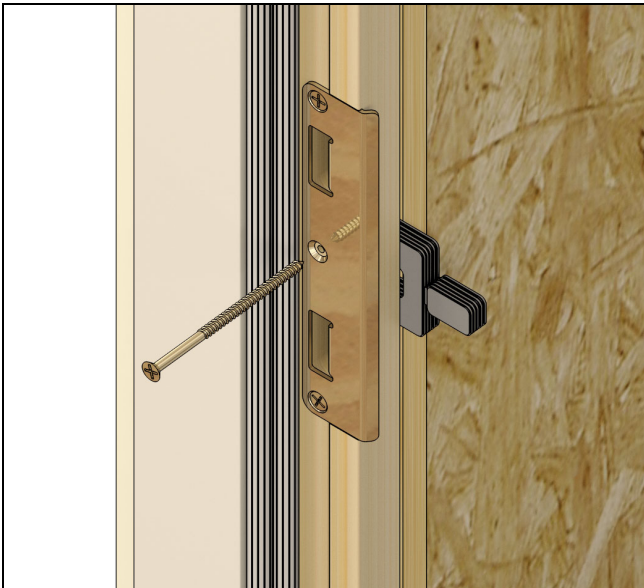


Figure 23

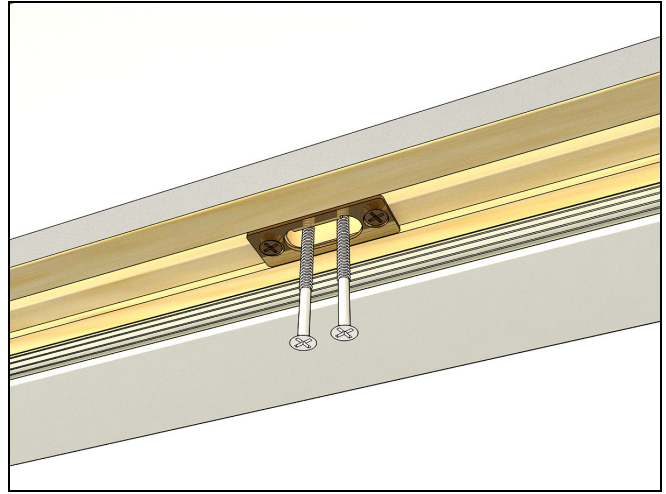


Figure 24

1	#10 x 3" wood screws
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3. Close the panel(s) and check the margin between the active and inactive panel or panel and jambs. The door is designed to have a 1/8" (3) gap between the wood stiles. [See Figure 25](#).

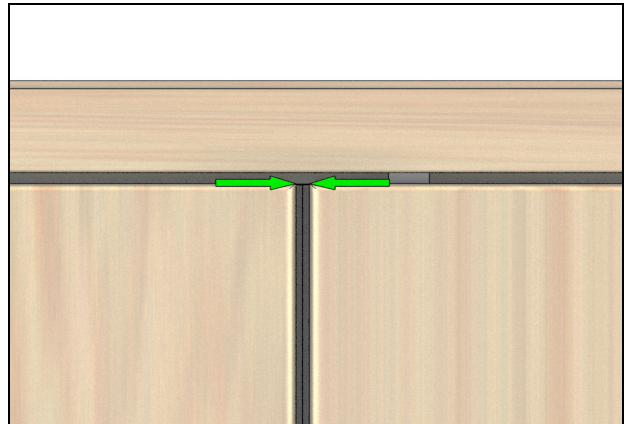


Figure 25

Securing the Sill

1. Use a minimum of a #8 x 1-1/2" pan head screw located a minimum of 4" from each corner and a minimum of 15" apart to secure the sill to the sub floor. See [Figure 26](#).



Figure 26

IMPORTANT

DO NOT seal drain holes. Make sure drain holes are kept clear of dirt and debris. See [Figure 27](#).

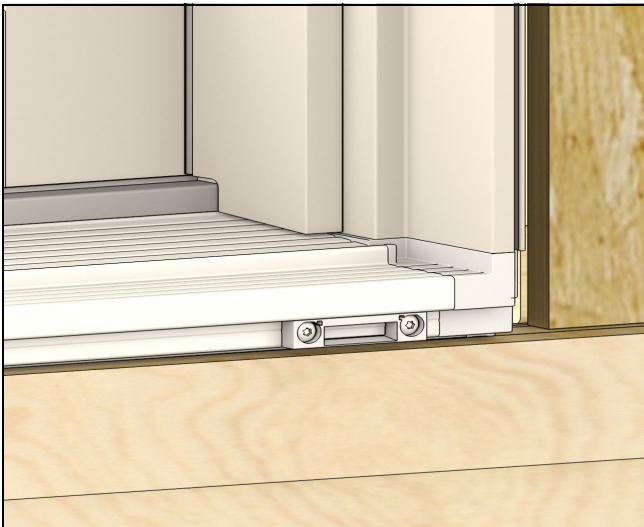


Figure 27

2. On operating units, locate the sill reinforcement bracket attached to the sill. Center the bracket at operating panel joints, or at the outer edge of the sill on locking jamb operating units. Install bracket with five #10 X 3" screws. See [Figure 28](#).



Figure 28

3. Locate and remove tape backer on the interior sill liner. See [Figure 29](#).

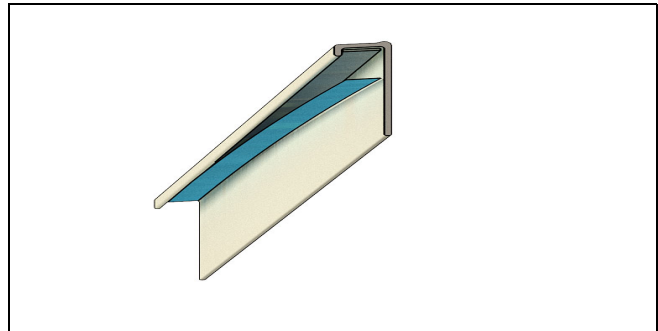


Figure 29

4. Press down and fully seat the sill liner. See [Figure 30](#).

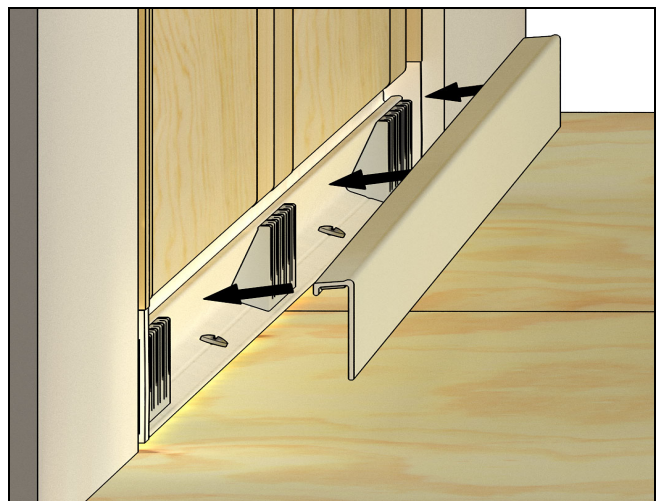


Figure 30

Adjustable Hinge/Panel Alignment

1. After establishing that the door frame is in a square and true condition inspect for even reveals between the door panels and frame. On XX and OXXO panels the tops of the panels should be even. See Figure 31.



Figure 31

2. Make horizontal adjustment first. To adjust panel(s) horizontally away from jamb, turn horizontal adjustment screw counter clockwise using 5/32" (4) Allen wrench provided. See Figure 32. To move the panel toward jamb, turn Allen screw clockwise. See Figure 33.

IMPORTANT

Make any vertical adjustments only after you have completed any horizontal adjustments.

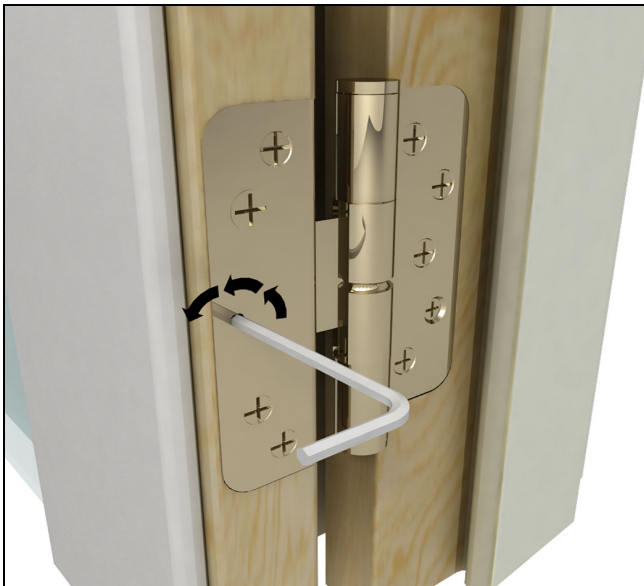


Figure 32 Counterclockwise to move panel away from jamb.

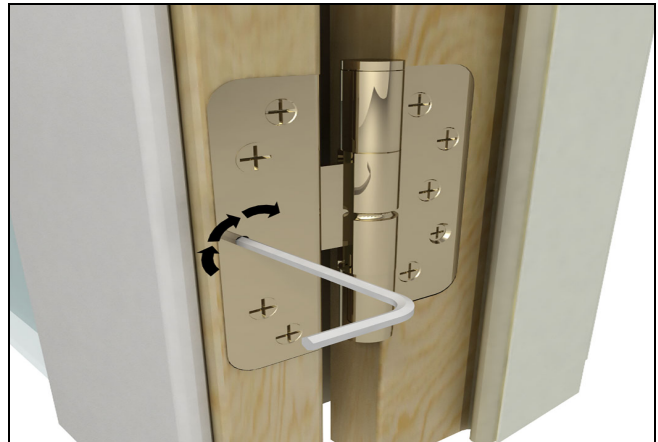


Figure 33 Clockwise to move panel toward jamb

3. To adjust the panel(s) vertically, turn the vertical adjustment screw clockwise using a 5/32" Allen wrench (provided). To lower the panel, turn the Allen screw counter-clockwise. See Figure 34 and Figure 35.



Figure 34 Raise the panel, clockwise adjustment



Figure 35 Lower the panel, counter-clockwise adjustment

Install the Handle Set

Follow the instructions sent with your door hardware to install the handle set.

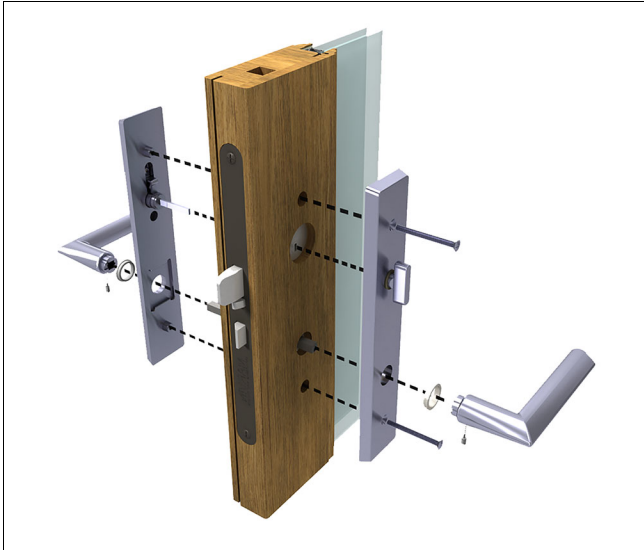


Figure 36 Contemporary handle shown yours may differ.

Links to Handle Set Instructions:

- [Contemporary Handle](#)
- [Minimalist Active Handle](#)



Hint

The latch on your handle set may be oriented in the wrong direction in respect to how the door swings. Reversing the latch direction is a relatively simple fix. Refer to the section, [Latch Reversal on page 18](#)

Latch Reversal

NOTE: You can reverse the latch orientation while it is installed in the panel.

1. To reverse the latch handing, insert a 2mm hex key in the small hole next to the latch. Start with the wrench angled slightly toward the latch and insert the wrench into the lock to release the latch bolt.

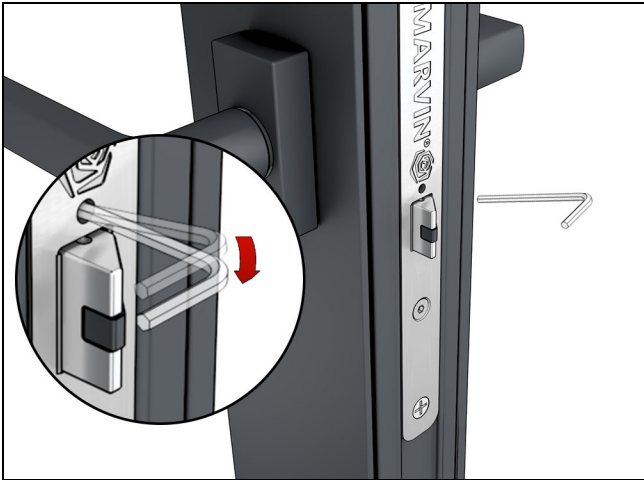


Figure 37

2. Pull the latch bolt out, remove the wrench, reverse the handing and insert back into the lock.

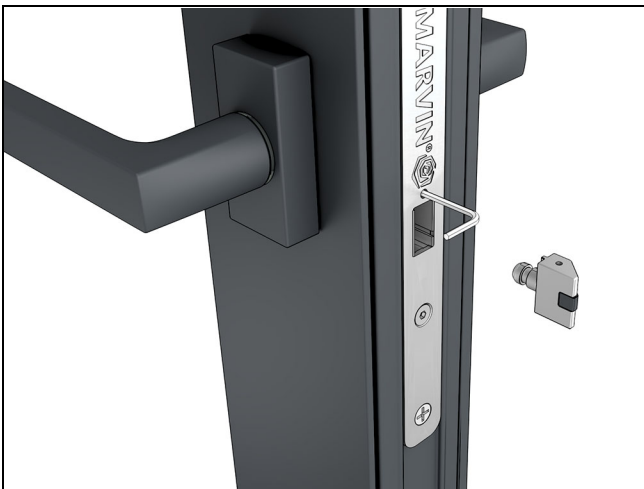


Figure 38



Figure 39

Flashing the Installation-Method A1 (Flashing After Installation)

IMPORTANT

Nailing fin is not designed to be a weatherproof flashing.

NOTE: For units with an integral nail fin/rigid head flash proceed to [step 3 on page 19](#).

1. On units that use nailing fin, apply a 2" x 4" strip of flashing material at 45 degrees to the corner, bridging the gap between the nailing fin. Do this at all 4 corners. [See Figure 40](#).

NOTE: If your unit came with nailing fin corner gaskets, apply them according to the instructions sent with the packaging.

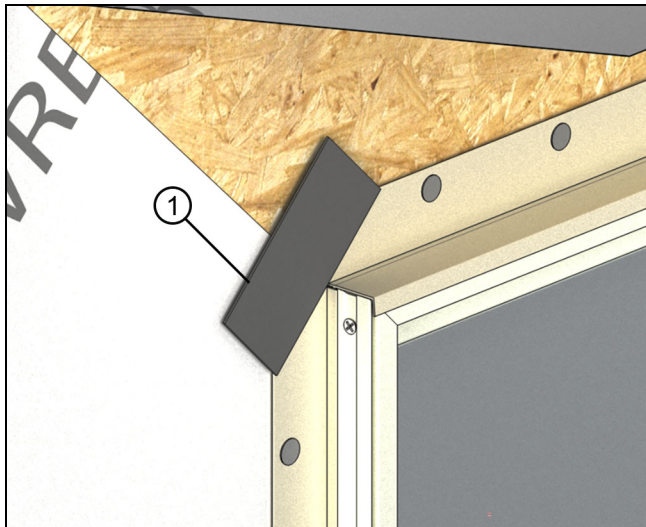


Figure 40

1	2" x 4" strip of flashing material
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2. Required on wood units/optional on clad units: Install a rigid head flash at the head jamb. Be sure to apply a bead of sealant along the back sides of both vertical and horizontal surfaces of the cap that come in contact with the door, door casing, and/or sheathing. When an integral vinyl drip cap is installed, cut the vinyl drip off before using a rigid head flash. [See Figure 41](#).

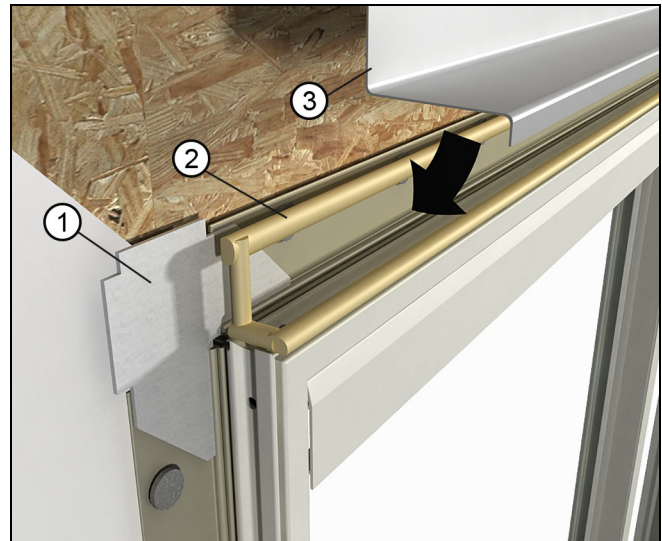


Figure 41

1	Corner gasket/flashing material
2	Sealant
3	Rigid head flash

3. Lap vertical strips of flashing onto the unit or casing and out over the weather resistive barrier. Make small cuts at the head jamb to allow the flashing to fold back onto the exterior. [See Figure 42](#).

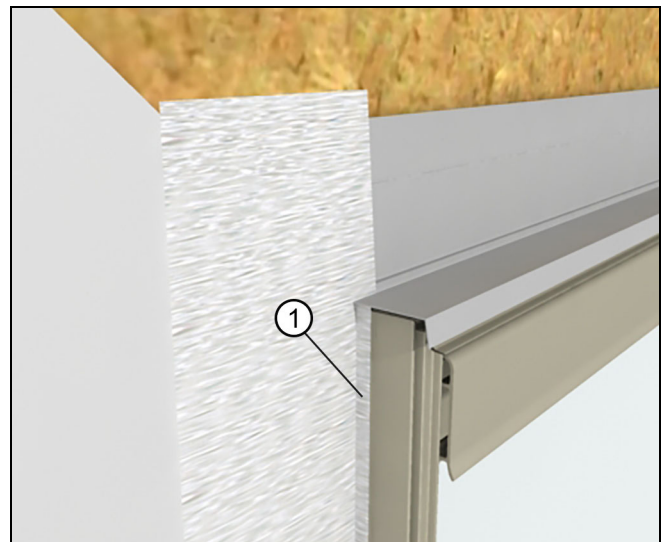


Figure 42

1	Lap onto unit (or casing if applicable)
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4. Install a layer of flashing over the vertical leg of the rigid head flash and lapped onto the horizontal leg. The flashing should extend past the jamb flashing installed earlier. [See Figure 43](#).

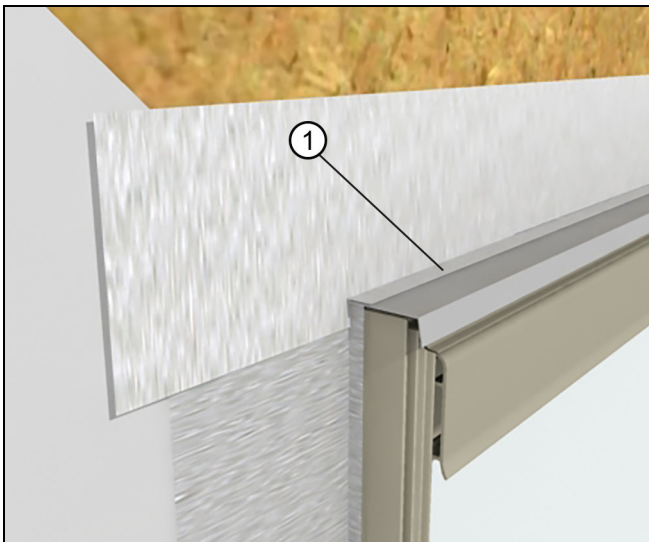


Figure 43

1	Lap head jamb flashing onto rigid head flash
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5. Fold the head jamb air barrier down over the head jamb flashing. Apply seam seal tape over the diagonal cut in the air barrier. Make sure the tape laps onto the unit or casing. Cut 3" (76) strips of tape and install every 12" (305) along the head jamb. Tape and seal any seams and fasteners directly above the unit. [See Figure 44.](#)

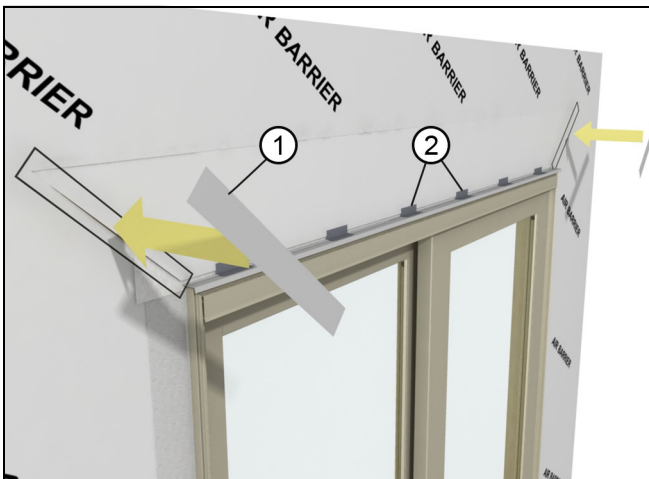


Figure 44

1	Seam seal tape over diagonal cuts, lap onto unit
2	3" seam seal every 12" along head jamb

Insulating and Sealing the Installation-Nailing Fin

We recommend two ways of insulating and sealing the rough opening cavity. Both follow the principle that stopping air intrusion will aid in managing water intrusion into the RO.

1. Loose Fill Fiberglass Insulation. Insulate the RO cavity with loose fill fiberglass insulation. Install a backer rod and sealant at the interior plane of the RO to create a continuous air seal. See Figure 45.

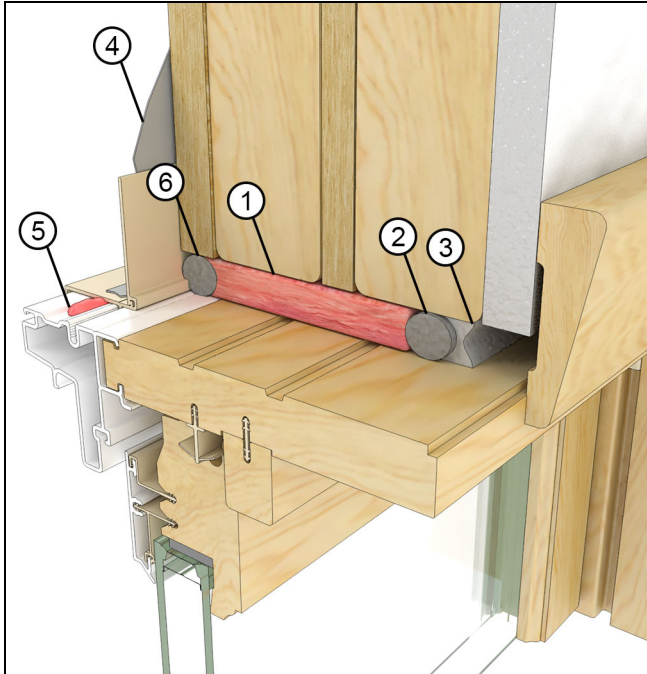


Figure 45

1	Loose fill fiberglass insulation
2	Backer rod
3	Continuous air seal (sealant)
4	Flashing
5	Sealant underneath drip
6	Backer rod

2. Low Expansion Foam. Install a backer rod at the exterior plane of the RO. Apply a low expansion/low compression closed cell foam in the cavity. Install a backer rod and sealant at the interior plane of the RO to create a continuous air seal. See Figure 46.

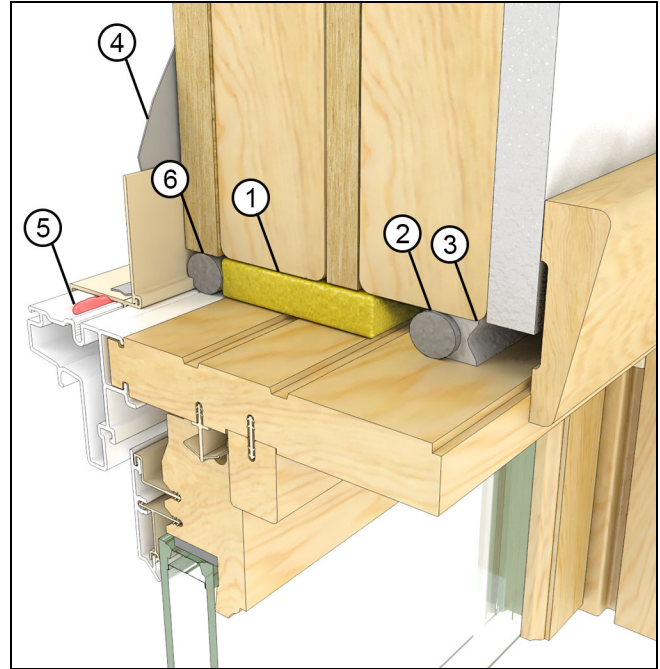


Figure 46

1	Low expansion foam
2	Backer rod
3	Continuous air seal (sealant)
4	Flashing
5	Sealant underneath drip cap
6	Backer rod

Insulating and Sealing the Installation-Casing

We recommend two ways of insulating and sealing the rough opening cavity. Both follow the principle that stopping air intrusion will aid in managing water intrusion into the RO.

1. Loose Fill Fiberglass Insulation. Insulate the RO cavity with loose fill fiberglass insulation. Install a backer rod and sealant at the interior plane of the RO to create a continuous air seal. See Figure 45.

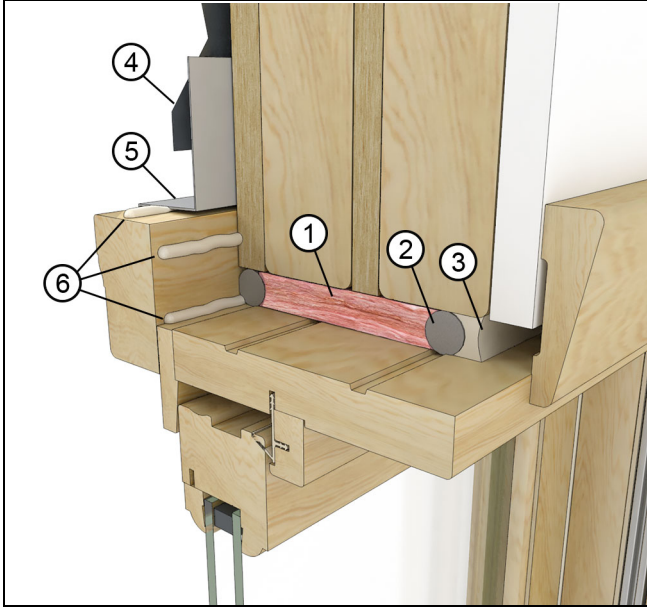


Figure 47

1	Loose fill fiberglass insulation
2	Backer rod
3	Continuous air seal (sealant)
4	Flashing
5	Rigid head flash
6	Sealant

2. Low Expansion Foam. Install a backer rod at the exterior plane of the RO. Apply a low expansion/low compression closed cell foam in the cavity. Install a backer rod and sealant at the interior plane of the RO to create a continuous air seal. See Figure 46.

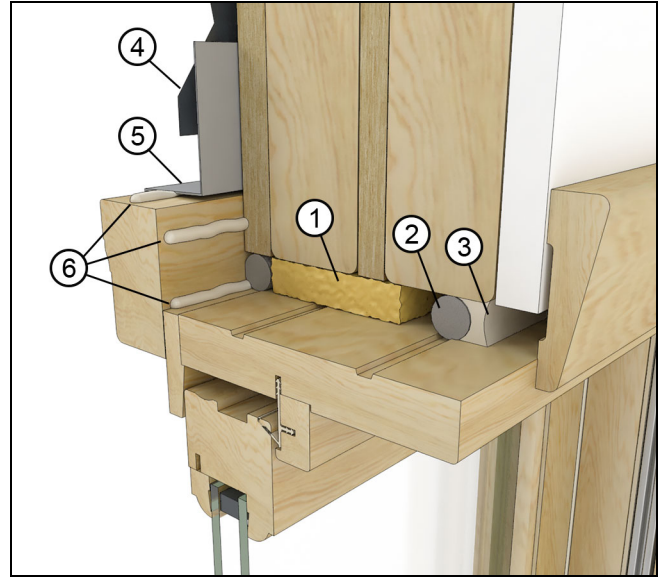


Figure 48

1	Low expansion foam
2	Backer rod
3	Continuous air seal (sealant)
4	Flashing
5	Rigid head flash
6	Sealant

Exterior Sealing Procedures

1. For ALL applications: Once the exterior finish such as siding or brick veneer is installed, apply bead of sealant between the finish and the frame exterior or casing along the sides. Apply additional beads approximately 1"- 2" (25-51) at the ends on top of the drip cap. Use a backer rod when necessary. See [Figure 49](#) and [Figure 50](#).

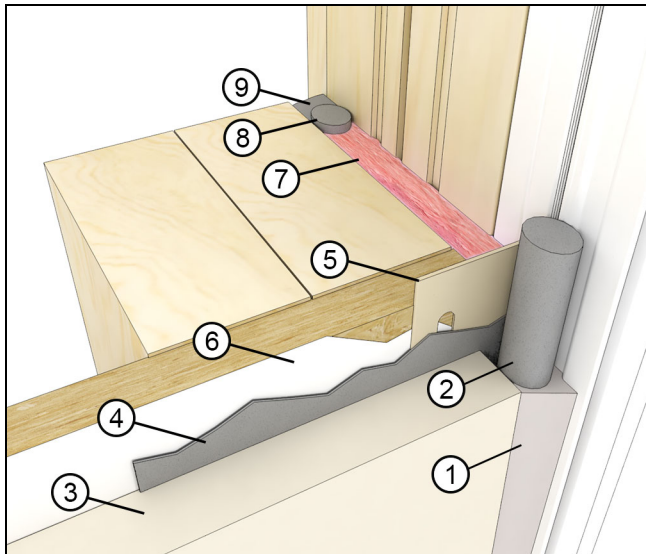


Figure 49

1	Exterior sealant
2	Backer rod
3	Exterior cladding/finish
4	Flashing
5	Nailing Fin
6	Weather resistive barrier
7	Insulation
8	Backer rod
9	Interior air seal



Figure 50 Apply sealant between unit and exterior finish at head jamb.

! CAUTION!

Perimeter sealant must be Grade NS Class 25 per ASTM C920 and compatible with the window product and the finished exterior(s) of the building. Using improper sealant could result in sealant failure causing air and water infiltration.

Technical Installation Specifications

The following details are specified for proper installation and for the unit to meet the advertised performance grade (PG) rating.

- Rough Opening Width: 1/4" - 1" (6-25)
- Rough Opening Height: 1/4" - 1/2" (6-13) higher than window/door frame outside measurement.
- Masonry Opening Width: 1/4" - 1/2" (6-13) higher than window/door frame outside measurement.
- Masonry Opening Height: 1/8" - 1/4" (3-6) higher than window/door frame outside measurement.
- Sealants used for installation must be Grade NS Class 25 per ASTM C920 and compatible with the building exterior, window exterior surface, and flashing/water management materials.
- Flashing materials must comply with ASTM E2112-01, section 5.13 and be compatible with all materials used in installation including panning systems, air barriers and building papers, sheathing, and the window unit. **Flashing material must not contain asphalt and must be compatible with flexible PVC (vinyl) when used in conjunction with nailing fin.**

NOTE: Architectural Detail Manual Specifications
Rough Opening: Width 1" (25); Height 1/2" (13). Masonry Opening: Width 1/2" (13); Height 1/4" (6).

- If using less than a nominal 2" x buck in masonry openings; the rough opening must be no more than 1/2"(13) wider and 1/4" (6) taller than the outside measurement of the frame. Installation methods are limited to Jamb Screw method using 3/16" concrete screws
- Marvin recommends the use of sloped sills on all concrete openings (either pre-cast or poured).
- **Regarding recessed masonry openings:** the window frame must not come in direct contact with masonry/concrete/concrete block. Construct framing from treated lumber or plywood and fasten to the masonry opening jambs, header, and sill. This framing must be designed (and anchored to the opening) properly to withstand certified and advertised DP ratings for your particular unit.
- For installations in typical wood frame construction (with sheathing and building paper or air barrier material) where a continuous air barrier system is used, refer to ASTM E2112 or reference the "Continuous Air Barrier Systems" section for details on preparing the rough opening and sealing the installation.
- For installations in concrete block, or masonry construction, etc., follow local codes for sealing and water management details.
- Optional foams used for installation must be low expansion only. Foam and foam application must comply with ASTM E2212.
- Shims are required between the window frame and framing members at all locking points and at every point of attachment (excluding nailing fin and brick mould casing) as well as at all points detailed within these instructions.
- For units with flat casing install with installation brackets, structural masonry brackets, or jamb screws.
- Do not use chemically treated products for shim material. Fasteners penetrating chemically treated lumber must be a minimum of 0.90 oz/ft² zinc hot dipped galvanized or stainless steel type 304 or 316.
- Clad window frames must not come into direct contact with chemically treated wood products

IMPORTANT

Flashing material must not contain asphalt and must be compatible with flexible PVC (vinyl) such as that found in Marvin vinyl nailing fin.

⚠ CAUTION!

Be aware that the use of sill pans and other barriers will decrease the rough opening height clearance. Adjust opening dimensions accordingly.

- Properly flash and/or seal all windows at the exterior perimeter.