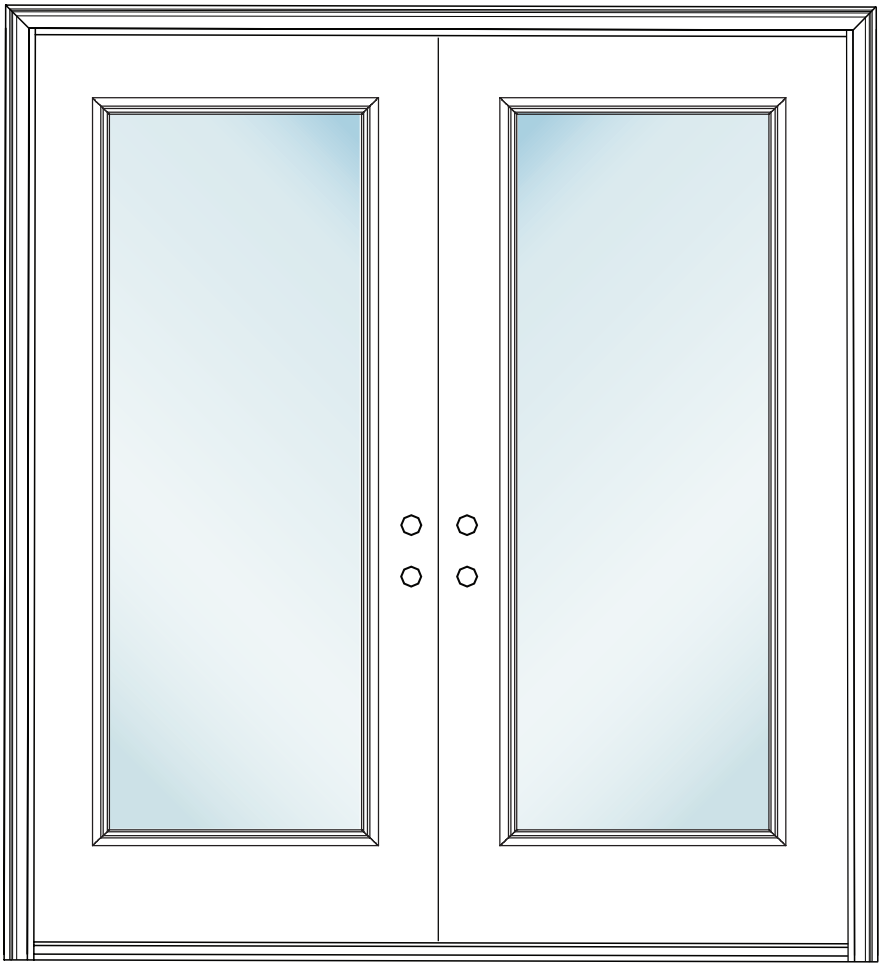
INSTALLATION INSTRUCTION MANUAL

DOUBLE ENTRY DOOR FUSIONFRAME™



**** Find QR Codes inside for additional information, helpful installation tips, and videos.***

Contact the local recycling waste management center for waste disposal in the area. Always check local waste requirements and carefully dispose of waste in accordance with Federal and other regulations.

Homes built before 1978 may contain lead paint. All replacement installations must comply with the U.S. EPA's Lead-Based Paint Renovation, Repair, and Painting Program (RRP Rule). Read more about the RRP Rule and lead-safe work practices on the U.S. EPA's website at: www.epa.gov/lead

GETTING STARTED

MATERIALS YOU WILL NEED

- (1) Box 3" Smooth Shank Exterior Screws
- Shims
- Siding Removal Tool (Recommended)



- Table Saw to Rip Brickmold (Optional)
- AAMA approved Low-Expanding Window Insulation Foam in accordance with ASTM C1620
- High Quality Silicone Caulking in accordance with ASTM C920, Class 25 & Caulking Gun

PROVIA INSTALLATION KITS AVAILABLE FOR ORDER

- **Installation Kit with Wood Shims (P-HW-ACCS00-80)**
  (26) #8 x 3" Galvanized Drywall Screws
  (1) Wood Shim Pack
  (1) Silirub® N1 100% Silicone
  (1) 1" x 3" x 20' Fiberglass Insulation
- **Installation Kit with Composite Shims (P-HW-ACCS00-81)**
  (26) #8 x 3" Galvanized Drywall Screws
  (14) Composite Shims
  (1) Silirub® N1 100% Silicone
  (1) 1" x 3" x 20' Fiberglass Insulation

REMEMBER: ALWAYS USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

Read these instructions carefully before starting installation. Product warranty does not cover damages resulting from improper installation.

IMPORTANT NOTES BEFORE YOU BEGIN

- Inspect your package(s) for any visible damage to the product. In addition, double check your paperwork with label on product(s) and verify all information is a match. Open packaging to confirm style, color and that order was shipped complete. Double check size of new unit by comparing it for fit to opening.
- If damage or irregularities are found, please scan the product's packaging QR Code label using your phone's QR Code Scanner to access ProVia's After Sale Product Support to enter a request and post pictures/videos to the order, or you can call the Customer Support Team at 1-800-669-4711.
- If you have ordered optional items, verify that they are included in packaging contents. This includes checking for multiple packages (For example, 1 of 2 and 2 of 2).
- For the entry door measuring guide and video, please tap or scan the QR codes.

GUIDE VIDEO

- For a FusionFrame™ installation tip video, please tap or scan the QR code.

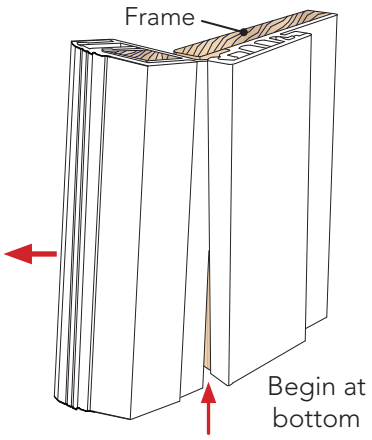
⚠ IMPORTANT INFORMATION!

• ProVia® understands there are various methods and conditions affecting the installation of an entry door. We feel the most critical steps are plane adjustment, securing, and shimming as instructed in this document.

A. FUSIONFRAME™ PREPARATION

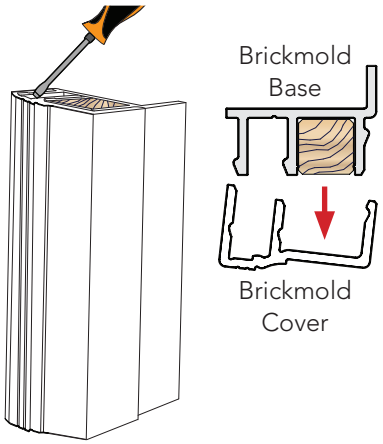
IMPORTANT! REMOVE FusionFrame BRICKMOLD and JAMB COVERS before installation! DO NOT re-install until instructed.

REMOVE BRICKMOLD ASSEMBLY



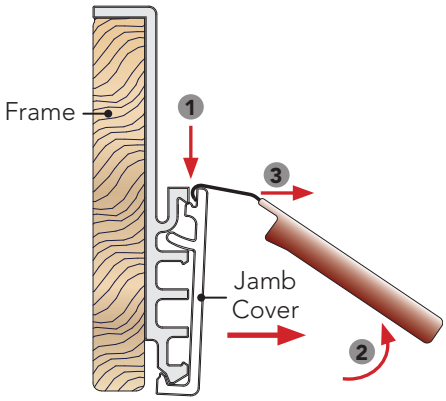
(Figure A.1)

REMOVE BRICKMOLD COVER



(Figure A.2)

REMOVE VERTICAL JAMB COVER



(Figure A.3)

1. Remove the BRICKMOLD ASSEMBLY (base piece with cover) from the door frame. Begin at the bottom, pull the brickmold leg away from the frame groove. Carefully set aside to prevent damage. *(Figure A.1)*

2. Remove the BRICKMOLD COVER from each BRICKMOLD BASE PIECE using the pull tabs. If the cover cannot be removed using the pull tabs, use a flat screwdriver, beginning at one end, to carefully pry the cover from the base. **Take CAUTION to not crack the cover.** *(Figure A.2)*

3. Remove the vertical JAMB COVERS using the factory pull tabs or by following the ProVia recommendation below. Carefully set aside to prevent damage. ***The head jamb cover is NOT removable.*** *(Figure A.3)*

RECOMMENDATION!

Use siding removal tool to remove jamb covers



(Figure A.4)

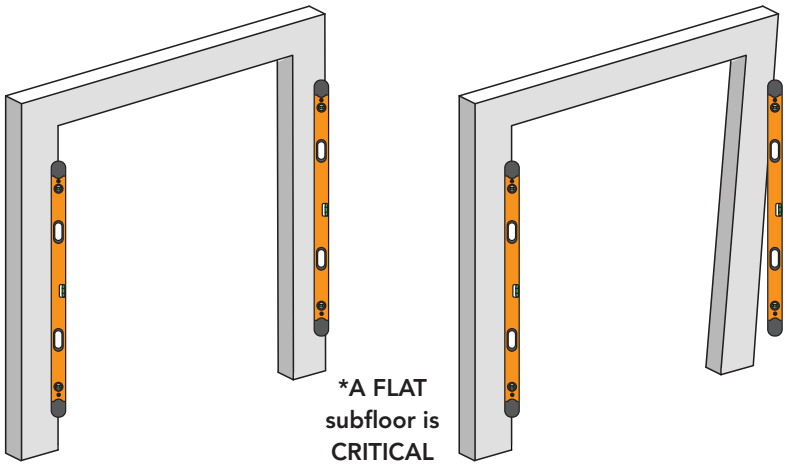
⚠ ***PROVIA® RECOMMENDED!*** *Use a siding removal tool to assist with removing the composite jamb covers. To remove, place the siding tool at the bottom corner of the cover, push tool into and behind the weatherstrip to grab the back edge, rotate the tool approximately 90°, then carefully pull to release the cover. (Figure A.4)*

4. **TRANSOMS!** Units with a transom, remove each vertical transom jamb cover. ***The transom sill and header covers are NOT removable.***

5. Remove shipping slats from the bottom of the threshold.

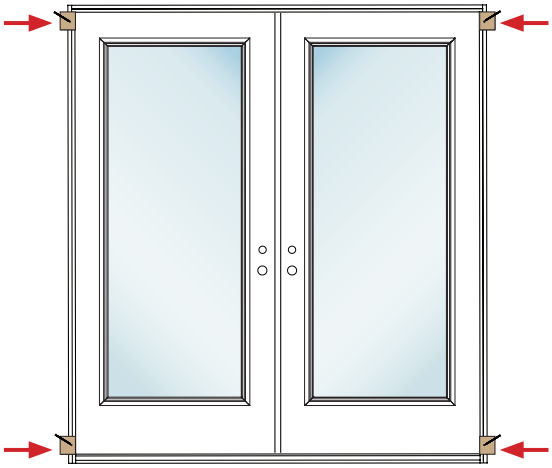
B. OPENING PREPARATION

CHECK WALL PLANE AND SUBFLOOR



(Figure B.1)

TEMPORARY WOOD BLOCKS



(Figure B.2)

1. Confirm unit size with the proposed opening.

2. Leave protective plastic bag on each door slab.

3. **For replacement applications**, remove the existing unit to expose the rough opening. *Rough opening will be from jack stud to jack stud, and subfloor to underside of header.* Clean opening of all dirt, debris, and obstructions.

4. Check if the opposing wall framing is on the same plane. If not, the new unit will need to be adjusted to plane during installation. Each vertical jamb side of the unit should be equal and parallel to the other and cannot follow the wall framing if framing is out of plane. *(Figure B.1)*

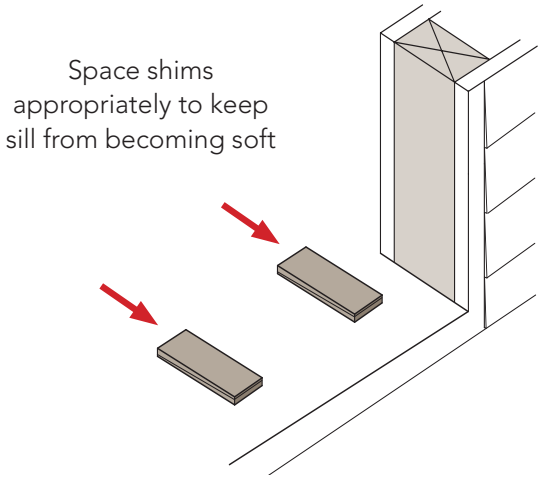
5. Check the subfloor for flat. NOW IS THE BEST TIME TO MAKE CORRECTIONS TO THE SUBFLOOR. Measure and check to be sure the new door slab will clear carpet, hardwood, rug, etc. Subfloor may need to be built up.

6. Screw a temporary wood block to each exterior frame corner to aid with installation and adjustment. *(Figure B.2)*

7. **Dry fit unit to confirm opening clearances and plane of door unit.** Remove unit and make any necessary modifications to opening.

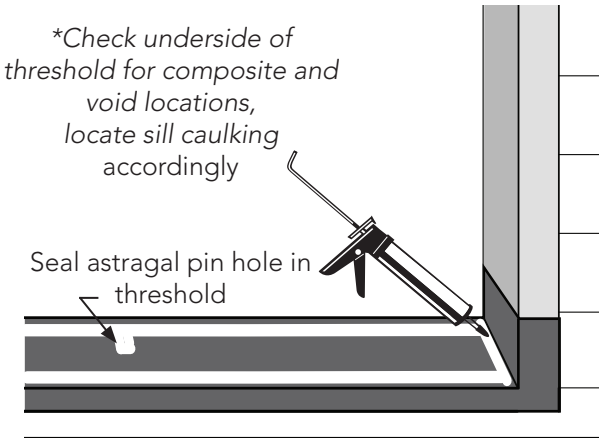
B. OPENING PREPARATION *(CONTINUED)*

LEVELING SUBFLOOR



(Figure B.3)

SILL FLASHING AND CAULKING



(Figure B.4)

8 Check to be sure exterior threshold edge is fully supported. Support as needed.

⚠ ***IMPORTANT! A flat sill is critical. If sill is NOT flat and straight, it must be shimmed for proper operation of door. Be careful to NOT over shim. Improper shimming may change the margins and jeopardize door operation.***

9 Re-check sill for flat. If minor leveling and margin adjustments are needed (⅛" or less), place wood shims between subfloor and threshold. *(Figure B.3)*

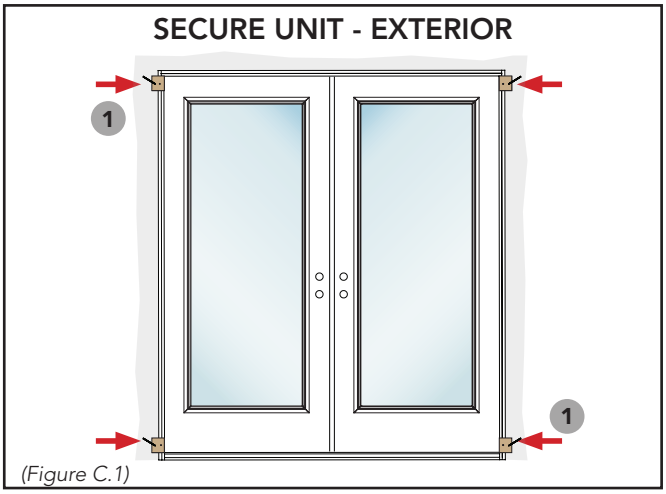
10 Apply flashing to sill opening in accordance with local building codes and best practices. *(Figure B.4)*

11 Add or replace the drip cap at the top of the opening if necessary.

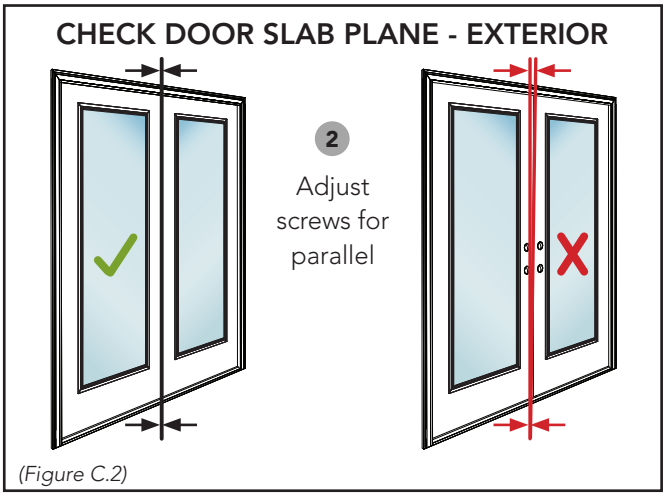
12 Caulk sill flashing as follows *(Figure B.4)*:

1. Apply (2) generous beads of premium caulk for the full LENGTH of opening. Check underside of threshold to make sure caulk will contact threshold. Some thresholds have voids.
2. Apply (1) bead of caulk for the WIDTH of sill at each end of the opening.
3. Apply an extra bead of caulk in the center to seal the threshold hole for the astragal pin.

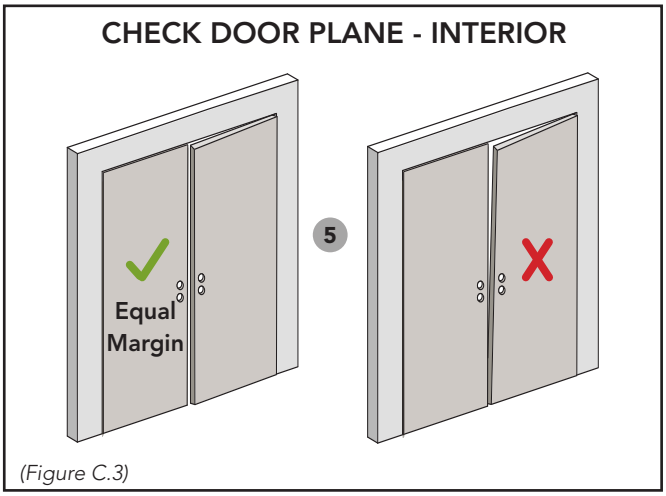
C. INSTALLATION



(Figure C.1)



(Figure C.2)



(Figure C.3)

1. Set unit in the opening, sill first. From the interior side, center door on the existing baseboard or paint lines. Measure corner to corner to square unit, then install the decking screws through the wood blocks to secure. Double check square by ensuring active and inactive door slabs are equal in height at the center. *(Figure C.1)*

2. ADJUST PLANE from the EXTERIOR. Check the plane between the closed **ACTIVE** slab and the astragal on **INACTIVE** slab. Use the top and bottom blocking screws to adjust the frame to straight and parallel with the slabs. *(Figure C.2)*

3. For units WITHOUT hardware, remove the shipping block located over the **ACTIVE** door slab header.

4. Remove bag from each door slab. Start at open end of bag, remove (4) hinge screws on slab, (1) hinge at a time to slide off.

5. From the INTERIOR, re-check plane. Compare the edge of the **ACTIVE** slab with the edge of the closed and locked **INACTIVE** slab. Edges need to be parallel. If door is out of plane *(the door slabs are not parallel)*, use wood blocking screws to adjust frame as required. *(Figure C.3)*

6. With **ACTIVE** door in plane, unlock the **INACTIVE** door to make sure hardware operates easily. If top of door moves inward when unlatched or if the flip lever is difficult to operate, the **INACTIVE** door is out of plane and needs adjusted. If the **INACTIVE** door is adjusted, then the **ACTIVE** door may need readjusted. Refer back to the previous step. ***Both doors must be in plane before continuing. Plane adjustment steps may need repeated multiple times.***

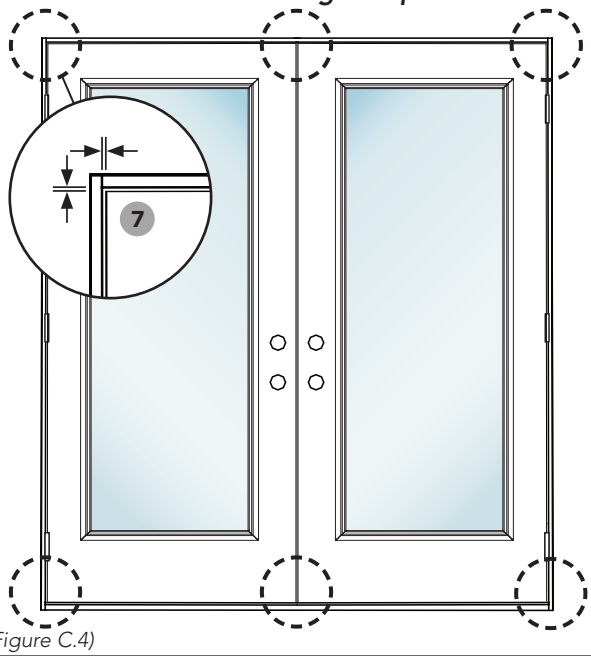
⚠ ***IMPORTANT! Plane adjustment is critical for operation and sealing. Plane needs to be monitored throughout installation. Adjustments to plane after completing install may require removal and re-installation.***

C. INSTALLATION *(CONTINUED)*

CHECK SLAB TO FRAME MARGINS - INTERIOR

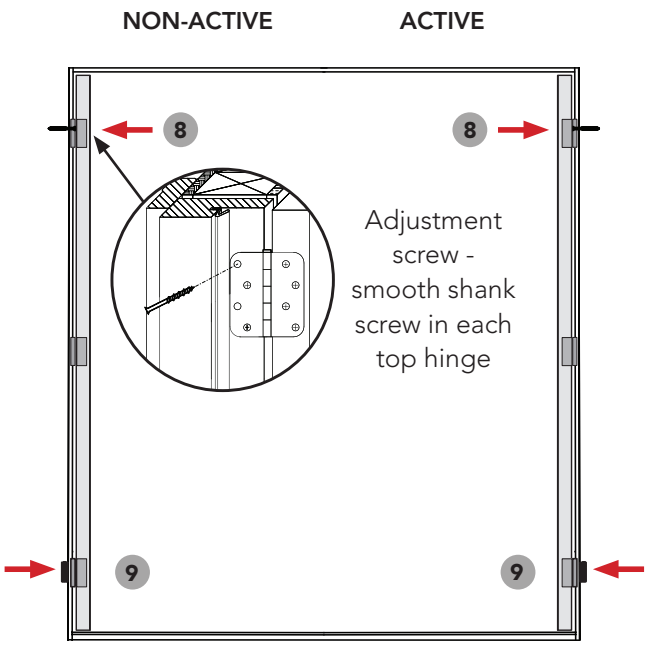
Achieve and maintain a **⅛" to 3⁄16" margin**, all corners

**** 3⁄16" center margin required***



(Figure C.4)

SECURE AND SHIM JAMBS - INTERIOR

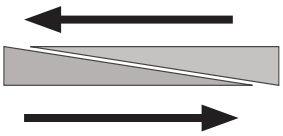


(Figure C.5)

7 Throughout installation, continuously monitor the slab to frame margins and center margin. Shims and screws must be installed and adjusted as instructed to achieve a ⅛" - 3⁄16" margin at all corners of door unit and center margin. ***Note, the strike plates are surface mounted. This will require a 3⁄16" CENTER margin for proper clearance.*** *(Figure C.4)*

⚠ ***IMPORTANT! PRE-DRILL FRAME FOR ALL SCREWS TO BE INSTALLED. Use a ⅛" drill bit to protect frame from splitting.***

⚠ ***IMPORTANT!*** ***CORRECT*** *shimming application; stack wedge shaped shims contrasting and plane to plane. See diagram below. To avoid twisting the frame,* ***DO NOT*** *use a single wedge shim.*



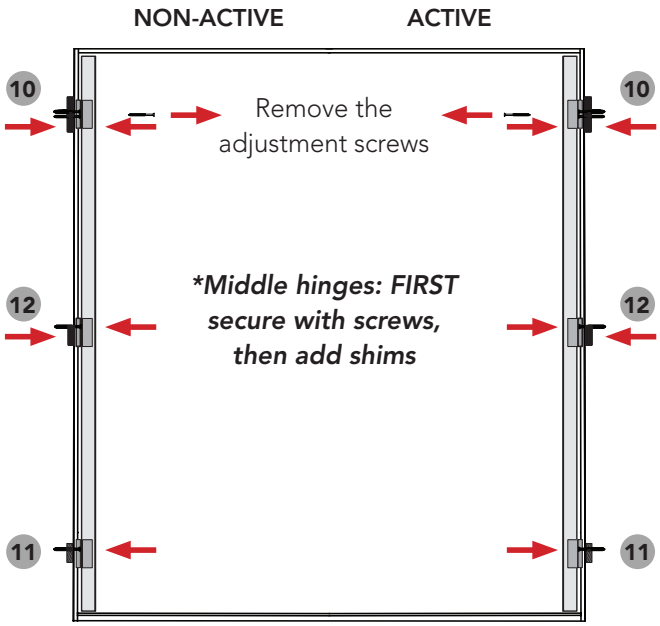
⚠ ***IMPORTANT! For the remainder of the installation, BOTH doors need to be adjusted equally and simultaneously to keep the top of door slabs even in the center.***

8 Install a smooth shank screw *(not provided)* into each top hinge. Use these screws to draw door slabs upward until margin above each top hinge is similar, the center top margin is correct, and the doors are even. *(Figure C.5)*

9 Install stacked shims behind each bottom hinge to counteract weight of door slab until the margin below each bottom hinge is similar, the bottom center margin is correct, and the doors are even. *If needed, repeat Step 8 for minor adjustments after shimming. (Figure C.5)*

C. INSTALLATION *(CONTINUED)*

SECURE AND SHIM JAMBS - INTERIOR



(Figure C.6)

⚠ ***IMPORTANT!*** ***Constantly monitor the center margin between door slabs throughout remaining installation.***

10 Install shims behind the top hinge of each door slab until tight to the adjuster screws. Install a #10 x 2½" screw *(provided)* in the remaining open hole in each hinge, then install an additional shim tight to each screw. Remove the adjustment screws and replace with #10 x 2½" screws. *(Figure C.6)*

NOTE: The #10 x 2½" hinge screws are included in the hardware box or stapled to the jamb side.
- For a 3-HINGE DOOR, (8) screws provided.
- For a 4-HINGE DOOR, (10) screws provided.

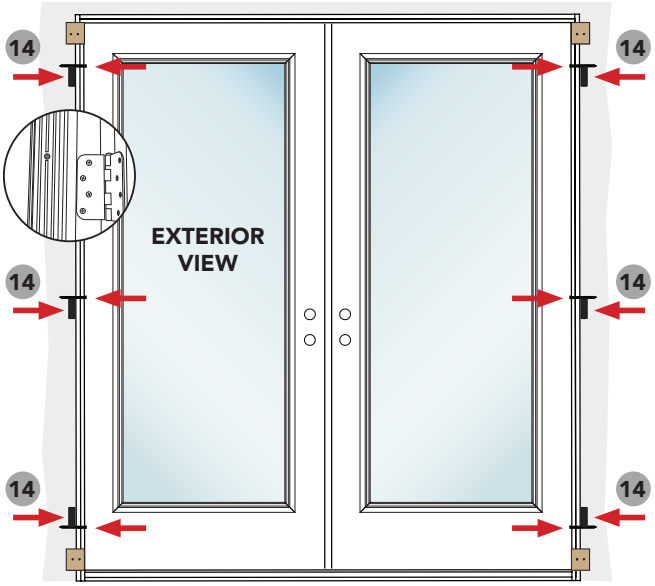
11 At each bottom hinge, install a #10 x 2½" screw in open hole. *(Figure C.6)*

12 At each middle hinge(s), install a #10 x 2½" screw in open hole(s). Snug up screws, **DO NOT OVER TIGHTEN**. Shim tight to each screw. Monitor margins during adjustment. *(Figure C.6)*

13 Check corner margins and center slab margin for parallel. *(Figure C.4)*

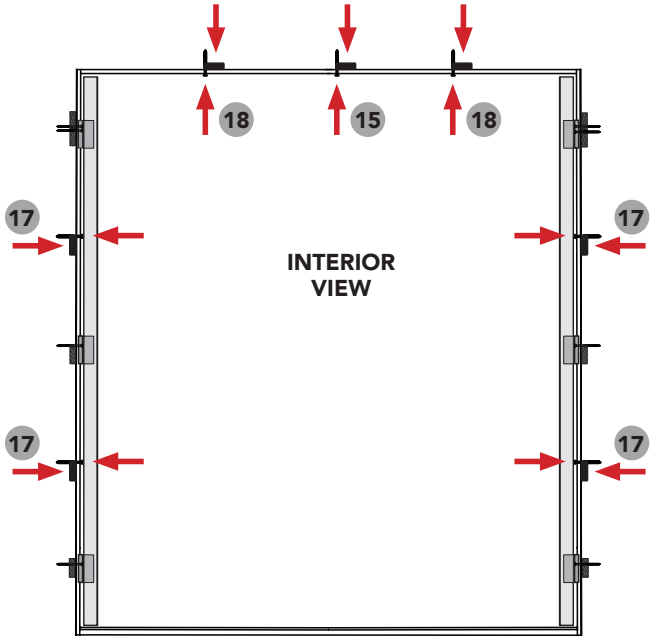
C. INSTALLATION *(CONTINUED)*

SECURE AND SHIM - EXTERIOR



(Figure C.7)

SECURE AND SHIM ADDITIONAL - INTERIOR



(Figure C.8)

14 On the EXTERIOR, install a decking screw in each jamb's top, middle, and bottom factory prepped screw hole. Place stacked shims at each screw location. Pre-drill and secure additional areas if needed. *(Figure C.7)*

NOTE: For wider jamb depths and units with extended brickmold, also install jamb screws and shims towards the outer edge of the frame.

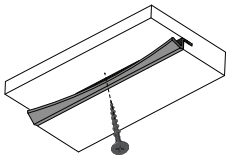
***REMINDER: CORRECT** shimming application; use stacked wedge shaped shims contrasting and plane to plane.*

15 On the interior, shim above header strike plate (header strike plate is factory installed). Remove (2) #8 x ¾" Phillips flat head screws (factory installed) and replace with (2) #8 x 3" Phillips flat head screws (included in the Astragal Component Pack). *(Figure C.8)*

16 Check for proper operation and alignment of top bolt pin. Close active door and engage bolt pin. Pin must engage within the center hole of the header strike plate.

17 On the interior, perform a final check on margins. Adjust interior shims and screws as needed to achieve and maintain a ⅛" - 3⁄16" margin around the entire door and a 3⁄16" center margin. Shim and secure additional areas to achieve and maintain margins. *(Figure C.8)*

⚠ ***IMPORTANT! Locate additional installation screws behind weatherstrip for a clean, professional appearance.***

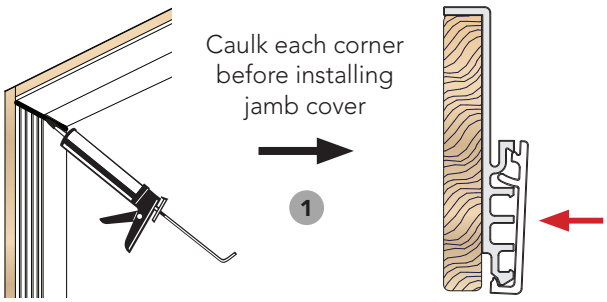


18 On the interior, shim and secure header. Center stacked shims over each door slab. Pull back weatherstrip, pre-drill and install a decking screw at each shim location. ***Tip**, the frame header's interior edge is not secured to the vertical jambs at either end, therefor the header margin can be slightly adjusted. (Figure C.8)*

19 Remove temporary wood blocks from exterior frame.

D. BRICKMOLD AND COVERS

JAMB COVERS



(Figure D.1)

1. Apply color matched caulk to each corner. Next, install the composite jamb covers. Use a rubber mallet or the heel of your hand to set. Remove excess caulk immediately. *(Figure D.1)*

2. Both the STANDARD 2" and the FLAT 3½" brickmold covers can be field ripped. *Note, standard 2" can be ripped a maximum of ⅝" (DO NOT go past the inner snap leg) and the 3½" can be ripped a maximum of 1½".* Measure from the brickmold groove to the exterior finished surface. Place masking tape on the finished face before cutting to protect surface. *Note, cutting the brickmold will leave an unfinished edge exposed, unless installed in a brick opening.*

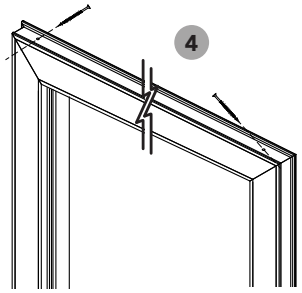
3. Check to be sure all composite brickmold covers have been removed from the loose brickmold base pieces.

BRICKMOLD BASE PIECES

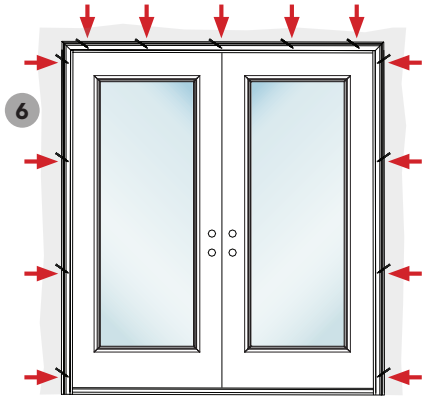
Secure Miters

Standard 2" brickmold base, secure with 1⅝" max. screw

Flat 3½" brickmold base, secure with 2½" max. screw



Attach To Structure



(Figure D.2)

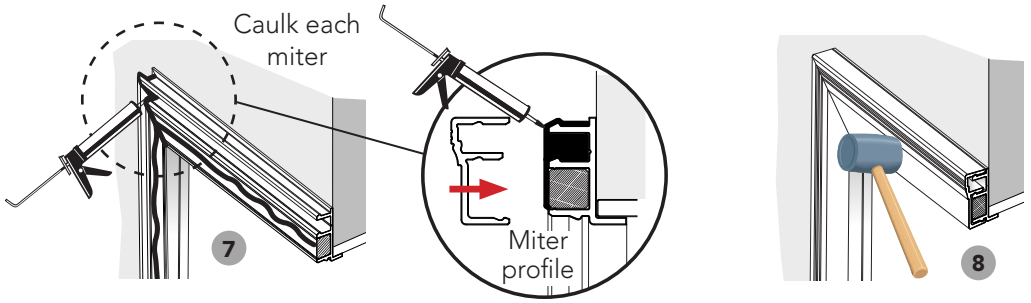
4. Before installing, place and align all brickmold base pieces on a level surface. Install a screw (not provided) through each pre-drilled hole to secure miters. This will keep miters tight and prevent miters from opening after cover is re-installed. ***Gaps in miters will result if not fastened.*** *(Figure D.2)*
   - **For STANDARD 2" brickmold, secure with a 1⅝" maximum screw length.**
   - **For FLAT 3½" brickmold, secure with a 2½" maximum screw length.**

5. On the sheathing face, apply a bead of caulk around door to seal brickmold. Tie each vertical bead of caulk to the sill caulk to create a continuous seal.

6. Align the brickmold insertion leg with jamb groove. Carefully tap brickmold in place until fully seated. Secure the brickmold to the structure or to the door frame. Install (4) screws in each vertical jamb and (3 to 4) in the header. ***DO NOT roll brickmold miters when installing screws.*** *(Figure D.2)*

D. BRICKMOLD AND COVERS *(CONTINUED)*

INSTALL BRICKMOLD COVERS



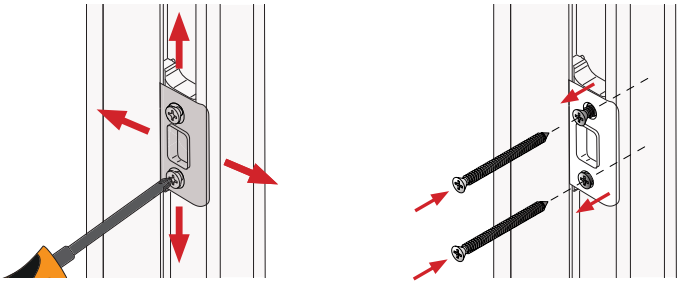
(Figure D.3)

7 Apply a bead of caulking along the top and front face of each brickmold miter BEFORE the covers are installed to provide a complete seal. If desired, apply caulk along the face of each brickmold base piece. *(Figure D.3)*

8 Install the brickmold covers. Use a rubber mallet or the heel of your hand to firmly set in place. Immediately remove any excess caulk from miters. Make sure corner miters are tight. *(Figure D.3)*

E. ADJUST STRIKE PLATES

LOCKSET AND DEADBOLT STRIKE PLATES



(Figure E.1)

⚠ ***IMPORTANT!*** ***Handle set and deadbolt strike plates are factory installed. Each plate will adjust up and down as well as in and out.***

1 Install handle set according to manufacturer's instructions included in hardware box.

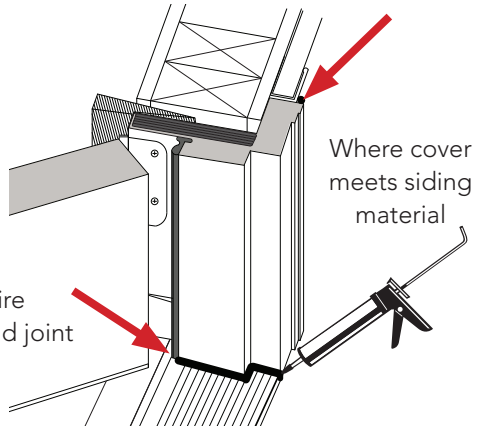
2 Adjust lockset strike plate by loosening screws until plate moves freely. Move plate to desired location and re-tighten screws to a test location. Once the final location is reached, remove (1) short screw and drill a ⅛" hole through the strike retainer and astragal body into the slab. Next, install a #8 x 2½" screw (provided) to set the strike plate. Repeat procedure for the second screw to permanently lock strike plate in place. *(Figure E.1)*

NOTE: In the unlikely event an up/down adjustment is needed, the trim fin cover can be cut to a shorter length or replaced with a longer piece. Re-order part number P-AS-ACC-94 for white or P-AS-ACC-97 for bronze.

3 Adjust the deadbolt strike plate using the same procedure as the lockset. Ensure the deadbolt throws freely when the door is latched. The deadbolt plate can be set with long screws, but it is not required.

F. INSULATE AND SEAL

CAULK AND SEAL CLADDING



(Figure F.1)

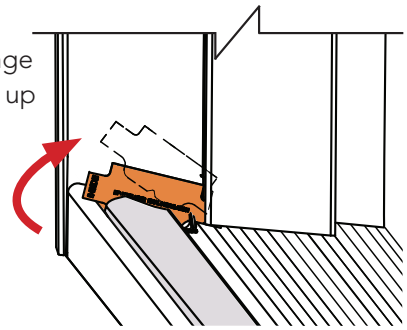
1. Caulk along entire joint of threshold, where the jamb and brickmold meet the threshold. *(Figure F.1)*

2. Caulk around the entire perimeter where the cover meets the exterior siding material. *(Figure F.1)*

3. From the interior, insulate with an AAMA approved ASTM C1620 low-expanding foam to fill cavities between frame and opening. ***Over use of low-expanding foam may cause frame to bow, jeopardizing door operation.***

G. THRESHOLD: Z-AC™ (AUTO-ADJUST) THRESHOLD ONLY

REMOVE COVERS



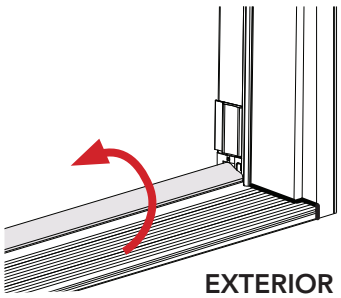
(Figure G.1)

1. Remove the orange protective covers located at each jamb. Grasp tab on the orange protective cover, marked 'Pull-Up'. Gently and slowly, lift up and away from the sill base *(pliers may be required)*. **DO NOT** remove any portion of foam gasket during removal of the orange tab. *Note, a small portion of the outside gasket edge will be removed with protective cover, this is typical. (Figure G.1)*

REMOVE PROTECTIVE CAP

Remove cream protective sill cap

**Refer to QR code at the end of this document for a helpful how-to video*



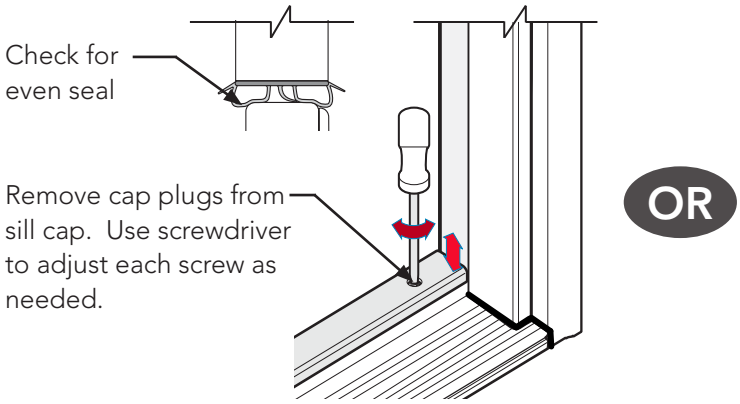
(Figure G.2)

2. Remove the cream protective sill cap cover. For inswing door units, grasp cover from the exterior side, lift and roll toward the interior. The cap cover may break, this is typical. *(Figure G.2)*

H. THRESHOLD: ZAI (ADJUSTABLE) THRESHOLD ONLY

The ZAI (Adjustable) threshold allows for adjustment of the sill height, thus providing a consistent and even seal. To adjust sill cap height, follow one of the two methods shown below:

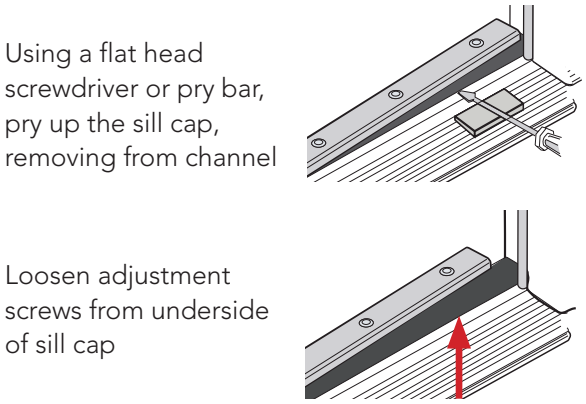
(A) REMOVE THRESHOLD CAP PLUGS



(Figure H.1)

OR

(B) REMOVE THRESHOLD SILL CAP



(Figure H.2)

(A) REMOVE CAP PLUGS ONLY:

A.1 Place tape around the cap plugs to protect finish. Use a flat blade to pry the plugs away from cap.

A.2 Use a screwdriver to adjust each screw as needed to achieve necessary height. *(Figure H.1)*

A.3 Open and close door to check adjustments.

A.4 Check for an even seal along full length of door sweep. Repeat process until proper seal is achieved. *(Figure H.1)*

A.5 Re-install the cap plugs. Use a rubber mallet if needed to secure plugs in place.
If cap plugs are damaged during adjustment, replace with new plugs.

(B) REMOVE SILL CAP ONLY:

B.1 **DO NOT REMOVE CAP PLUGS.**
Place a small piece of wood blocking on sill deck to prevent damage. At one end of the sill, use a flat head screwdriver or pry bar to pry sill cap upward and away from the sill channel. Continue to work for the full length of threshold until fully removed from channel. *(Figure H.2)*

B.2 Access adjustment screws from underside of the sill cap. Using a screwdriver, adjust screws as needed to achieve necessary height. *(Figure H.2)*

B.3 Re-install sill cap by snapping into channel. If needed, use a rubber mallet to tap into place. Leg of sill cap should touch the threshold deck when properly seated.

B.4 Open and close door to check adjustments.

B.5 Check for an even seal along full length of door sweep. Repeat above steps until proper seal is achieved.

TROUBLESHOOTING & TIPS

PROBLEM	CAUSE	SOLUTION
Center margin is smaller at top than bottom	Over/under shimmed.	Adjust shims behind top and bottom hinges. Increase shims behind bottom hinges and decrease shims behind top hinges.
Center margin is larger at top than bottom	Over/under shimmed.	Adjust shims behind top and bottom hinges. Decrease shims behind bottom hinges and increase shims behind top hinges.
Center margin is wide	Unit is under shimmed.	Increase shims behind hinges as needed.
Header margin is smaller above astragal	Over shimmed at strike plate.	Decrease shims above header strike plate.
Header margin is larger above astragal	Under shimmed at strike plate.	Increase shims above header strike plate.
Top of door slabs are uneven at center margin, active door is above inactive door	Over shimmed on active door side.	Decrease shims behind active door bottom hinge.
Top of door slabs are uneven at center margin, active door is below inactive door	Under shimmed on active door side.	Increase shims behind active door bottom hinge.
Inconsistent margin above top hinge, margin is larger at the hinge	Unit is under shimmed.	Increase shims behind hinges as needed.
Inconsistent margin above top hinge, margin is smaller at the hinge	Unit is over shimmed.	Decrease shims behind hinges as needed.
Inconsistent margin below bottom hinge, margin is larger at the hinge	Unit is under shimmed.	Increase shims behind hinges as needed.
Inconsistent margin below bottom hinge, margin is smaller at the hinge	Unit is over shimmed.	Decrease shims behind hinges as needed.
Top of active door slab protrudes inward, past frame header and away from astragal weather strip	Door out of plane.	One or a combination of the following: 1. Shift bottom of inactive hinge-side door jamb toward the exterior. 2. Shift the top of active hinge-side door jamb toward the exterior.
Interference of Z-AC cap with door slab	Sill cap may not be fully seated.	Snap front leg of sill cap into place. Leg of the sill cap should touch the threshold deck when properly seated. If needed, use a rubber mallet to tap into place.

TROUBLESHOOTING & TIPS

PROBLEM	CAUSE	SOLUTION
Bottom of active door slab protrudes inward, past threshold and away from astragal weather strip	Door out of plane.	One or a combination of the following: 1. Shift top of inactive hinge-side door jamb toward the exterior. 2. Shift bottom of active hinge-side door jamb toward the exterior.
FusionFrame™ brickmold covers have separated at the miters	Improper brickmold base piece installation.	Screw base pieces together at the miters and securely fasten to the house framing or door frame.

Please call Customer Support for additional installation inquiries at 1-800-669-4711.

FOR ADDITIONAL INFORMATION AND HELPFUL VIDEOS, SCAN OR TAP ON THE QR CODES:

INSTALLATION SUPPORT HOMEPAGE (Access to all our instructions and how-to-videos)

VIDEO: FusionFrame™ Installation Tips

VIDEO: ZAC Threshold Prep

VIDEO: How to Install Double Door (Inspect & Prepare, Part 1)

VIDEO: How to Install Double Door (Installation, Part 2)

VIDEO: How to Install Double Door (Inspect & Operate, Part 3)

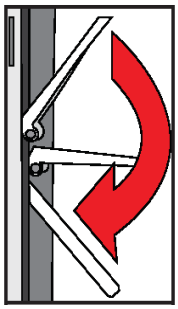
Condensation, Humidity, and Dew Point

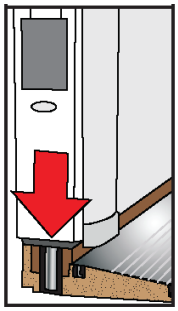
How to Fix a Squeaky Sweep (Slider Slicker)

REMINDER TO INSTALLERS:

Demonstrate function of the double (French) door astragal to the Homeowner.

The best way to ensure the astragal pins are correctly seated is to close the door until the interior side of door slab is flush with the interior side of the threshold. Then throw the flip lever. If needed, wiggle the top of slab to engage the top pin. This process will ensure the astragal is properly secured in the designated locations.





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THE PROFESSIONAL WAY

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