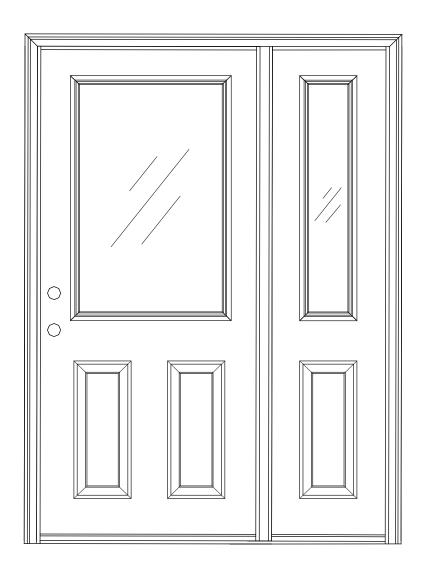


INSTALLATION INSTRUCTIONS

FUSIONFRAME™ WITH SIDELITE(S) ENTRY DOOR



* 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

TOOLS & MATERIALS YOU WILL NEED

- Measuring Tape
- Pencil
- Utility Knife
- Reciprocating Saw
- Carpenter's Square
- Hammer or Mallet
- Level
- Shims
- Drill & Drill Bits

- Stiff Putty Knife
- (1) box 2½" 3" Exterior Decking Screws
- (1) box 2½" Smooth Shank Screws
- High Quality Silicone Caulking in accordance with ASTM C 920, Class 25 & Caulking Gun
- AAMA approved Low-Expanding Window Insulation Foam in accordance with ASTM C, 1620
- Siding Removal Tool (Recommended)



- Masking tape (Optional for Flat Brickmold)
- Table Saw (Optional for Flat Brickmold)



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 for any visible damages 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 damages or irregularities are found, please scan the product's packaging QR Code label using your QR Code Scanner App to access ProVia's **After Sale Product Support** to enter a request for assistance or call Customer Service at 1-800-669-4711. Please be sure to provide order # and document with photos and/or videos.
- 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).

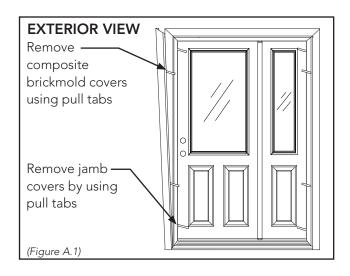
 GUIDE
 VIDEO
- For the entry door measuring guide and video, please tap or scan the QR codes shown.

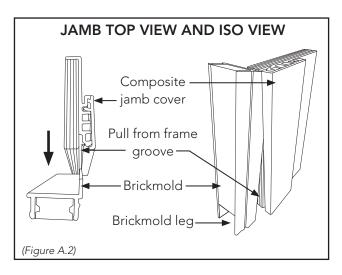


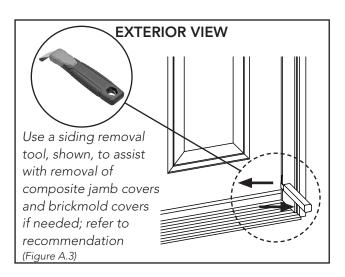
For FusionFrame™ installation tips video, tap or scan the QR code shown.



A. PREPARE FUSIONFRAME™ ENTRY DOOR









FusionFrame brickmold covers and jamb covers are designed to be removed before installation. DO NOT re-install until indicated within this instruction.

- Remove the side and header composite brickmold covers using the factory installed pull tabs or by following the recommendation given below. Carefully set aside to prevent damage. (Figure A.1)
- Remove the side and header brickmold pieces. Begin at threshold, pulling brickmold leg away from the frame groove. Carefully set aside to prevent damage. (Figure A.2)
- Remove side composite jamb covers by using the factory installed pull tabs or by following the recommendation given below. Carefully set aside to prevent damage.

 The header composite jamb cover is NOT removable. (Figure A.1 & A.2)
- For units with a transom, remove each transom vertical jamb cover in addition to door unit jamb covers instructed in Step 3.

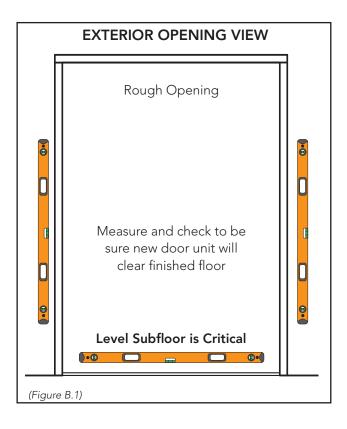
 The transom sill cover is NOT removable.

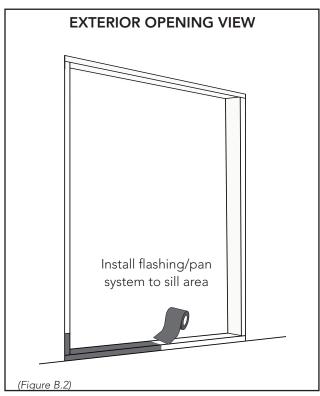


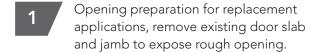
ProVia® Recommended! Use a siding removal tool to assist with the removal of composite jamb covers or brickmold covers. Place tool at bottom corner of jamb cover, push tool into weathershipping to grab back edge and tap back end of tool to pop cover. For brickmold cover removal, align tool with joint of cover, tap tool into joint and pull straight away from brickmold. (Figure A.3)

Remove shipping slats from the bottom of threshold.

B. INSTALL PREPARATION







NOTE: The rough opening will be from jack stud to jack stud, and sub-floor to underside of header. (Figure B.1)

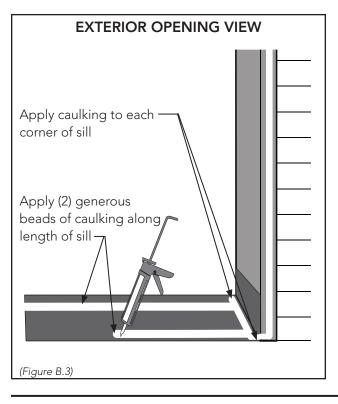
- Clean rough opening of all dirt, debris, and obstructions.
- Check for level subfloor. Measure and check to be sure new door unit will clear carpet, hardwood, rug, etc. Subfloor may need to be built up for clearance.
- Check to see if opposing walls are on the same plane. If not, new door unit will need to be adjusted to plane during installation.



IMPORTANT! Be sure shipping slats have been removed from bottom of threshold before dry fit.

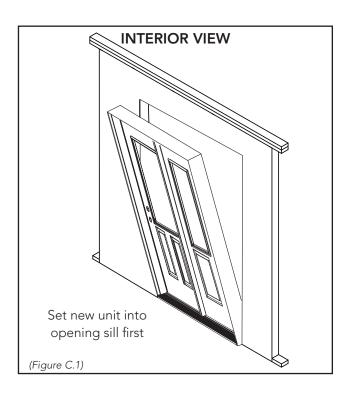
- Dry fit unit to confirm opening clearances, dust cup clearance (if applicable), plane of door, and support of exterior edge of threshold.
- Remove door unit from opening and make any necessary modifications to the opening.
- Install flashing/pan system to sill area in accordance with local building codes and best practices. Replace drip cap if necessary. (Figure B.2)

B. INSTALL PREPARATION (CONTINUED)



- If exterior edge of threshold requires support, add material to the exterior surface of the structure at the sill.
- Apply (2) generous beads of premium caulking compound in a STRAIGHT LINE, on top of flashing and along entire length of rough opening sill. Place first bead of caulking to the exterior leading edge of sill. The second bead of caulking should be placed along a composite edge of the threshold, towards interior. Apply caulking in each corner of sill. (Figure B.3)

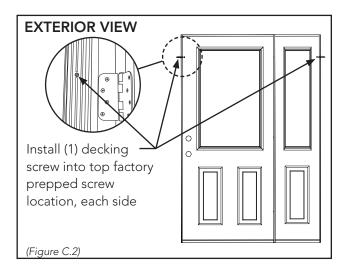
C. INSTALL NEW DOOR UNIT

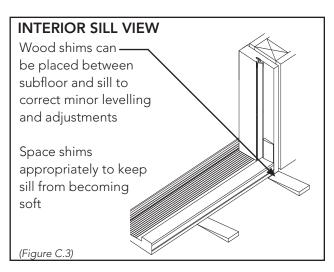


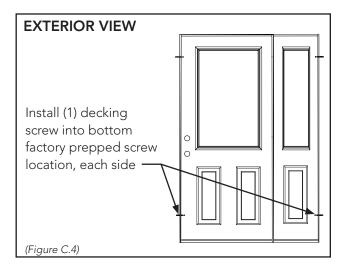
- Set new door unit into opening sill first, as shown in illustration. (Figure C.1)
- From the interior side, center door on existing base board or paint lines.



IMPORTANT! This unit is installed without brickmold attached, therefore utilizing cleats on interior wall or exterior jamb face may assist. Be sure door jamb does NOT protrude past exterior sheathing to avoid compromising FusionFrame™ brickmold installation.









Check and note plane of door in rough opening. Door plane needs to be continuously monitored throughout the installation. Refer to Section C, Step 8 and Figure C.6 for more information.



IMPORTANT! Plane adjustment is critical for door operation and sealing performance. Confirm all adjustments made do not compromise plane. Adjustments to plane after complete install may require removal and reinstallation.

4

Install (1) decking screw into the top factory prepped screw location, each exterior jamb side. DO NOT over tighten screws. (Figure C.2)

5

Check for level sill. If necessary, place wood shims between subfloor and jamb to correct minor leveling and margin adjustments,

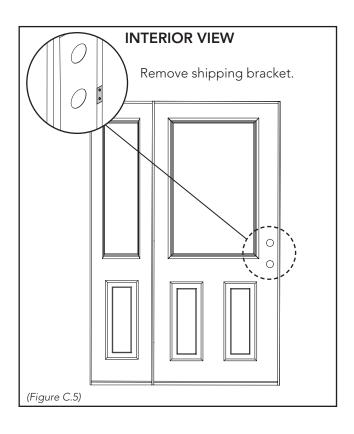
1/8" or less. (Figure C.3)

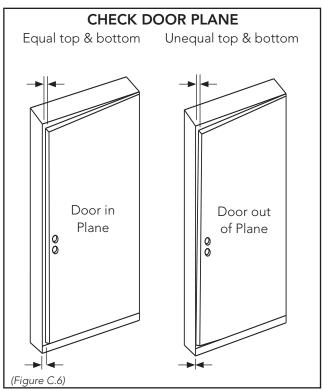


IMPORTANT! A level sill is critical. If sill is not flat, straight and level, it must be shimmed for proper operation of door. Be careful to NOT over shim. Improper shimming may change the margins and jeopardizing operational performance of door.

6

Install (1) decking screw into the bottom factory prepped screw location, each exterior jamb side. DO NOT over tighten screws. (Figure C.4)







IMPORTANT! Be careful with initial opening of door slab. Shipping brackets WILL DAMAGE JAMB if door slab is opened without lifting to unweight it.

Remove jamb screws from shipping bracket. Before opening the door, use handle set prepped holes to lift door slab to unweight and then open. Remove bracket and discard. (Figure C.5)

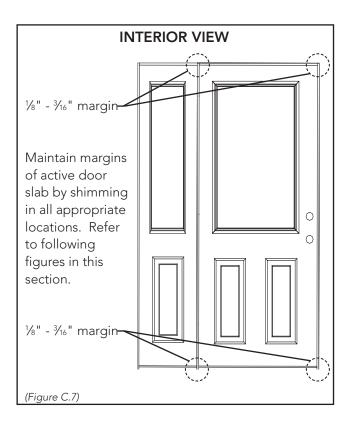
Inspect plane of door by comparing edge of door slab to edge of strike jamb. The edges should be parallel. If door is out of plane (the slab and jamb edge are not parallel), refer to troubleshooting table and adjust accordingly. (Figure C.6)

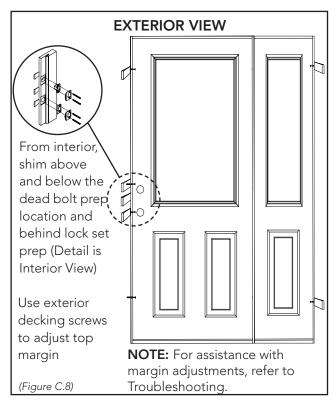


IMPORTANT! Pre-drill for all hinge and interior shim screws to be installed using a 1/8" drill bit.



IMPORTANT! Do not allow initial setting screws, installed in Steps C4 and C6, to interfere with future adjustments required during remaining installation.





10

For ALL door unit combinations, shim and secure to achieve and maintain a 1/8" - 3/16" margin between door unit and jamb at all (4) corners of active door slab. Refer to following steps for specific shimming information per door unit configuration. (Figure C.7)



IMPORTANT! Proper shimming application; stack wedge shaped shims contrasting and plane to plane.



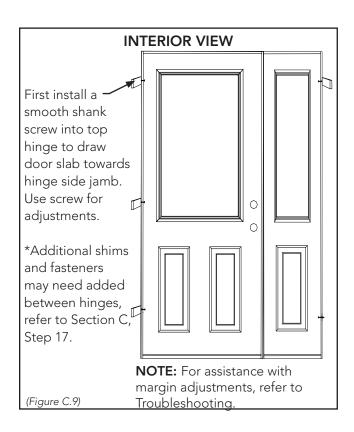
11

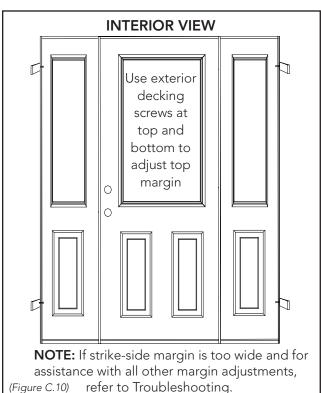
For units with a hinge-side sidelite:

- a. Use the top and bottom exterior decking screws, previously installed, to adjust top margin above active door slab. Decking screws may need to be tightened or backed out to position slab correctly. (Figure C.8)
- b. Install shims behind the jamb at the bottom of the sidelite. Use the exterior decking screws at top and the shims behind bottom jamb to set a 1/8" 3/16" margin between door slab and jamb at all (4) corners. (Figure C.8)
- c. Install shims behind the top exterior screw locations until tight to the adjuster screw. (Figure C.8)
- d. From interior, install shims above and below the deadbolt prep location and behind lockset prep. Pre-drill and install #8 x 2½" screws to secure the deadbolt and lock set strike plate. (Figure C.8)

NOTE: (4) #8 x 2½" hardware installation screws will be included in the hardware box or stapled to the side of the jamb.

e. Proceed to Section C, Step 14 to continue installation instruction.





12

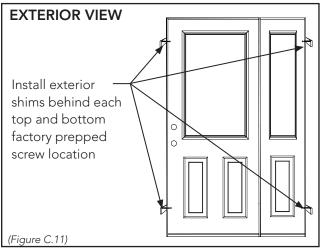
For units with a strike-side sidelite:

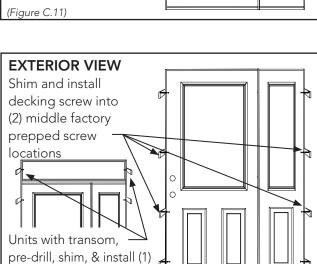
- a. Install (1) 2½" smooth shank screw (not provided) into top hinge to draw the top of the door slab towards the hinge side jamb. Use screw for adjustments. (Figure C.9)
- b. Install shims behind the bottom hinge location. Use the adjustment screw in top hinge and the shims behind bottom hinge to set a 1/8" 3/16" margin between door slab and jamb at all (4) corners. (Figure C.9)
- c. Install shims behind top hinge until tight to the adjuster screw. Install (1) #10 x 2½" screw (provided) in the remaining hole location of hinge. Then replace the adjustment screw with (1) #10 x 2½" screw. The #10 x 2½" hinge screws will be included in hardware box or stapled to side of jamb. For a 3-HINGE DOOR, (4) screws provided. For a 4-HINGE DOOR, (5) screws provided.
- d. Shim behind the middle hinge and install (1) #10 x 2½" screw in open hole. (Figure C.9)
- e. Pre-drill and install #8 x $2\frac{1}{2}$ " screws to secure the deadbolt and lock set strike plate.
- f. Proceed to Section C, Step 14 to continue installation instruction.



For units with a sidelite on each side:

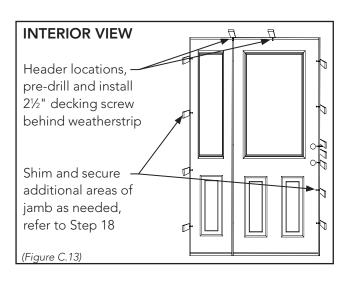
- a. Use the top and bottom exterior decking screws, previously installed, to adjust top margin above active door slab. Decking screws may need to be tightened or backed out to position slab correctly. (Figure C.10)
- b. Install shims behind the jamb at bottom of each sidelite. Use the adjustment screws at top and the shims behind bottom jamb to set a 1/8" 3/16" margin between door slab and jamb at all (4) corners. (Figure C.10)
- c. Install shims behind each top exterior screw locations until tight to the adjuster screws.
- d. Pre-drill and install #8 x $2\frac{1}{2}$ " screws to secure the deadbolt and lock set strike plate.
- e. Proceed to Section C, Step 14 to continue installation instruction.





screw ea. jamb side

(Figure C.12)



- On the exterior of door, install shims at each top and bottom factory prepped screw location, if not installed in previous steps of both active and non-active. (Figure C.11)
- Shim and install (2) decking screws into the middle factory prepped screw locations, each exterior jamb side. Shims added only if not installed in previous steps.

 (Figure C.12)



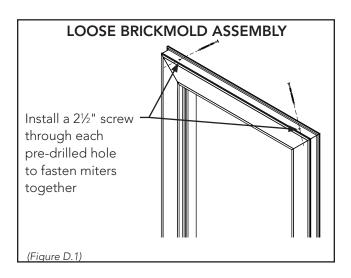
IMPORTANT! If exterior shims are to align with interior hinge locations, additional exterior hinge shims may not be required.

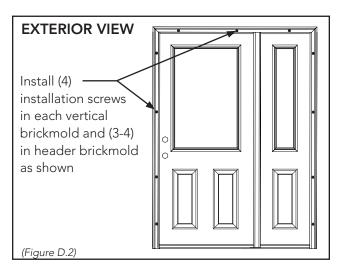
- ONLY for units WITH a transom, center (1) shim on each transom vertical jamb.

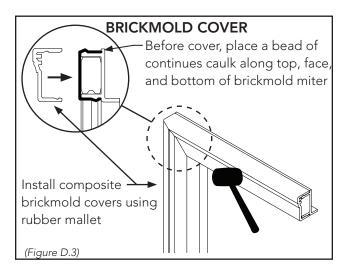
 Pre-drill and install a 2½" decking screw at each transom shim location. Shim at least (1) interior location on transom header, do not secure with screw. (Figure C.14)
- ONLY for units WITHOUT a transom, shim at least (1) interior location on the header. Pull back weatherstripping, pre-drill and install a decking screw at the shim location. (Figure C.13)
- Final check on all margins. Adjust shims and screws as needed to achieve and maintain a 1/8" 3/16" margin around the entire door. Refer to Troubleshooting Section.

NOTE: Shim and secure additional areas of interior jamb as needed to achieve and maintain required margins. (Figure C.13)

D. INSTALL FUSIONFRAME™ JAMB COVERS & BRICKMOLD

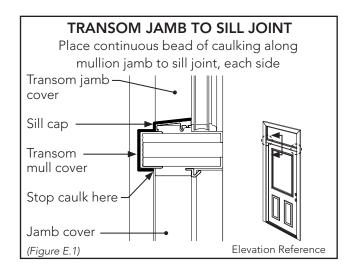


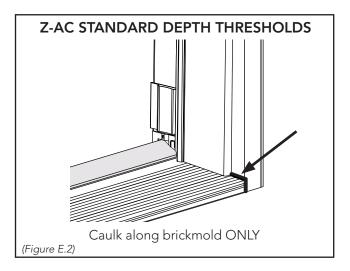




- Install composite jamb covers. Use a rubber mallet or heel of hand to firmly set.
- Be sure all composite brickmold covers have been removed from loose brickmold.
- Units ordered with 3½" flat trimmable brickmold covers can be field trimmed with a circular saw. Measure from the brickmold groove to the exterior veneer. Place masking tape on the finished face before cutting to protect the finished surface. Note, cutting the flat trim will likely leave an unfinished edge exposed, unless trim is installed in a brick veneer opening.
- Before installation, place loose brickmold header and each side leg on a level surface. Install a 2½" screw through each pre-drilled hole to fasten miters together. This will keep miter tight after composite cover is re-installed. (Figure D.1)
- Apply caulking to each vertical and header face of exterior sheathing to seal brickmold to sheathing. Tie each vertical bead of caulk to sill caulking to create a continuous seal.
- Before re-installation of brickmold, apply caulking to top end of mull post to seal. Wipe any excess from each vertical face of post.
- Align insertion leg of brickmold with groove of jamb. Carefully, tap each vertical and header brickmold into place until fully seated.
- Install (4) installation screws in each vertical brickmold and (3-4) in header brickmold to secure. **DO NOT roll brickmold miters when installing screws.** (Figure D.2)
- 9 Before installing composite brickmold covers, place a bead of continues caulk along top, face, and bottom of brickmold miter, each side and as shown (Figure. D.3)
- Install composite brickmold covers. Use a rubber mallet or heel of hand to firmly set in place. Immediately remove any excess caulking from miter areas. (Figure. D.3)

E. INSULATE AND SEAL









Insulate by using an AAMA approved ASTM C 1620 Low-Expanding Foam to fill cavities between frame and opening.



IMPORTANT! Over use of Low-Expanding Foam or use of any non Low-Expanding Foam may cause frame to bow, jeopardizing operational performance of door.

2

For units with a transom, place a bead of continuous caulking at the transom mullion jamb cover to sill joint; along top, front face, and underside of cover, each jamb side and as shown. (Figure E.1)

3

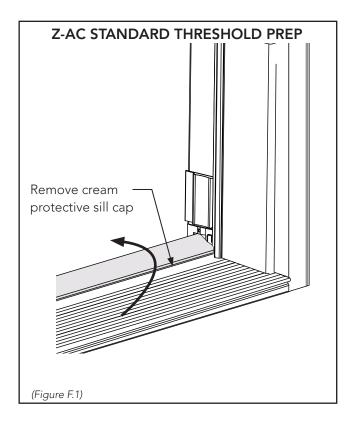
For units with a direct set glass sidelite, place a bead of continuous caulking along the bottom corner, where sidelite base meets the jamb cover notch.



Caulk threshold:

- **Z-AC™** thresholds with a 4%6" or 6%6" jamb depth, only need caulked at the brickmold and threshold intersection. If desired, caulk along entire joint where jamb meets the threshold. (Figure E.2)
- **Z-AC** threshold with custom jamb depth: caulk along entire joint of threshold where the jamb meets the threshold and along the brickmold joint. (Figure E.3)
- **ZAI** threshold: caulk along entire joint where jamb meets the threshold and along the brickmold joint. (*Figure E.3*)

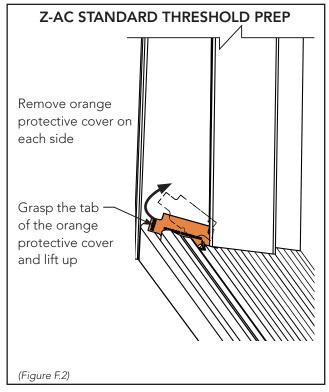
F. THRESHOLD: Z-AC™ (AUTO-ADJUSTING) THRESHOLD ONLY





Remove the cream colored protective sill cap cover. For inswing door units, grasp cover from the exterior side, lift and pull. The cream cover may break, this is typical. (Figure F.1)

NOTE: If Z-AC sill cap is not allowing door slab to close or function properly, refer to Troubleshooting Section.



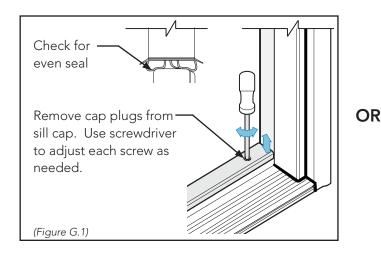
2

Remove the orange protective covers located at each jamb. Grasp the tab of the orange protective cover, marked "Pull-Up". Lift up and away from the sill base (pliers may be required). (Figure F.2)

NOTE: A small portion of the gasket, at the outside edge **ONLY**, will be removed with the protective cover, this is typical. **DO NOT** remove any portion of foam gasket in removal of orange tab.

G. 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:



Using a flat head screwdriver or pry bar, pry up the sill cap, removing from channel

Loosen adjustment screws from underside of sill cap

(Figure G.2)

REMOVE CAP PLUGS:

- Place tape around the cap plug to protect the finish. Use a flat blade to pry the cap plugs away from cap.
- Use a screwdriver to adjust each screw as needed to achieve necessary height. (Figure G.1)
- Open and close door to check adjustments.
- Check for an even seal along full length of door sweep. Repeat process until proper seal is achieved. (Figure G.1)
- 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.

REMOVE SILL CAP:

- 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 the cap upward and away from the sill channel. Continue to work along the full length of threshold until fully removed from channel. (Figure G.2)
- Access adjustment screws from the underside of the sill cap. Using a screwdriver, adjust screws as needed to achieve necessary height. (Figure G.2)
- Re-install sill cap by snapping into channel. If needed, use a rubber mallet to tap into place. Leg of the sill cap should touch the threshold deck when properly seated.
- Open and close door to check adjustments.
- Check for an even seal along full length of door sweep. Repeat above steps until proper seal is achieved.



TROUBLESHOOTING & TIPS

Units with hinge-side sidelite

| Problem | Cause | SOLUTION |
|---|---|--|
| Strike-side margin is too small. Door slab hits frame on strike- side. | Over-shimmed. | Slightly loosen strike-side shims and pull strike-side frame towards stud by tightening screws behind weatherstripping. |
| Strike-side margin is too large, more than 3/16". | Under-shimmed. | Increase shim depth behind jamb on strike-side. |
| Tapered header margin. Margin is larger on strike-side. | Sill is not level. Improperly shimmed. | Shim directly under threshold in mullion area and under end sidelite jamb to raise door slab within frame, ½" max. Decrease shim depth behind top hinge-side sidelite jamb, and/or increase shim depth behind bottom hinge-side sidelite jamb. |
| Tapered header margin. Margin is smaller on strike-side. | Sill is not level. Improperly shimmed. | Shim directly under jamb on the strike-side to raise the jamb, creating proper margin, ½" max. Increase shim depth behind top hinge-side sidelite jamb and/or decrease shim depth behind bottom hinge-side sidelite jamb. |
| Door slab is not sealing against weatherstrip and/or strike-side, top of door slab protrudes past frame. | Door unit is out of plane with frame. | Shift strike-side, bottom corner of frame towards exterior. Shift sidelite side, top corner of frame towards exterior. |
| Door slab is not sealing against weatherstrip and/or strike-side, bottom of door slab protrudes past frame. | Door unit is out of plane with frame. | 1. Shift strike-side, top corner of frame towards exterior. 2. Shift sidelite side, bottom corner of frame towards exterior. *Tip: if ordered with brickmold attached, using full-thread screws will allow the frame to be 'held' out from exterior sheathing in order to adjust plane. |

Units with sidelite on strike-side

| Problem | Cause | SOLUTION |
|--|--|---|
| Tapered header margin. Margin is larger on strike-side. | Sill is not level. Improperly shimmed. | Shim directly under threshold in mullion area and under end strike-side jamb to raise door slab in frame, 1/8" max. Decrease shim depth behind top hinge-side jamb, and/or increase shim depth behind bottom hingeside jamb. |
| Tapered header margin. Margin is smaller on strike-side. | Sill is not level. Improperly shimmed. | Shim directly under threshold in mullion area and under end strike-side jamb to raise sidelite and door header away from door slab, 1/8" max. Increase shim depth behind top strike-side sidelite jamb and/or decrease shim depth behind bottom strike-side sidelite jamb. |
| Strike-side margin is too small. Door slab hits frame on strike- side. | Over-shimmed. | Slightly loosen hinge-side shims and pull hinge-side frame towards stud by tightening screws behind weatherstripping. |
| Strike-side margin is too large, more than ¾6". | Under-shimmed. | Increase shim depth behind jamb on hinge-side. |



(ROUBLESHOOTING & TIPS (CONTINUED)

Units with sidelite on both sides

| Problem | Cause | SOLUTION |
|--|---|--|
| Tapered header margin. Margin is larger on strike-side. | Sill is not level. Improperly shimmed. | Shim directly under hinge-side jamb to raise door slab within frame. Decrease shim depth behind top hinge-side sidelite jamb, and/or increase shim depth behind bottom hinge-side sidelite jamb. |
| Tapered header margin. Margin is smaller on strike-side. | Sill is not level. Improperly shimmed. | Shim directly under threshold in mullion area and under end sidelite jamb to raise sidelite and door header away from door slab, ½" max. Increase shim depth behind top hinge-side sidelite jamb and/or decrease shim depth behind bottom hinge-side sidelite jamb. |
| Strike margin is to wide. | Various. | Using a putty knife, cut corrugated fasteners in location of wide margin. Loosen or remove sidelite screw(s) in order to shim as needed in this location to achieve proper margin. Re-install sidelite screws. |

All units with Z-AC™ (Auto-Adjusting) Threshold

| Problem | Cause | SOLUTION |
|--|-----------------------------------|--|
| 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. |

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

*For additional information and helpful videos, visit our Homepage for Installers by TAPPING or SCANNING the QR code shown.





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