JELD-WEN WINDOWS & DOORS

INSTALLATION INSTRUCTIONS
for Replacement Exterior Entry Doors (JII113)

Thank you for selecting JELD-WEN products. Attached are JELD-WEN's recommended installation instructions for Inswing Exterior Steel and Fiberglass Replacement Doors. Read these instructions thoroughly before beginning. They are designed to work in most existing applications; however, existing conditions may require changes to these instructions. If changes are needed, they are made at the installer's risk. For installations other than indicated in these instructions, contact a building professional. Areas such as Florida and the Texas TDI region have different anchoring requirements based on product certification. For information on specific products, visit www.floridabuilding.org or www.tdi.texas.gov and follow the anchoring schedule given in the drawings for the product instead of the anchoring schedule in this document.

Newer construction methods have led to an increase in air and water tightness in buildings. This frequently leads to negative air pressure inside the house, which can draw water through very small openings. Our installation method seals the door to the weather barrier (typically building wrap) and uses a sill pan to capture and drain incidental storm water from under the door.

IMPORTANT INFORMATION AND GLOSSARY

Replacement doors are designed to be installed on top of the sill on older styles (typically made before 1970) where the existing sill and threshold are separate pieces or in place of a one-piece combination sill and threshold supplied as an all-in-one component. One-piece combination sills must be completely removed.

Not all door types may be installed into every wall condition in all areas. Consult your local building code official (or Authority having Jurisdiction) for applicable building codes and regulations. Local building code requirements supersede recommended installation instructions.

Please Note! Any exterior door installation where the sill is higher than 35 feet above ground level or into a wall condition not specifically addressed in these instructions must be designed by an architect or structural engineer. Failure to install square, level and plumb and on a flat surface (without twist or warp) could result in denial of warranty claims for operational or performance problems.

Note to Installer: Provide a copy of these instructions to the building owner. By installing this product, you acknowledge the terms and conditions of the limited warranty as part of the terms of the sale.

GLOSSARY

Existing Opening

The framed opening in a wall where a door is to be installed after the old slab, hardware and door seal have been removed.

Hinge Jamb

The side of the jamb on which the hinges of a door are installed.

Replacement Door

A pre-assembled unit consisting of a door slab (prepared for the locking or passage hardware) hung on hinges in a metal frame intended to be installed into an existing inswing wood door frame after the old slab, hardware and door seal have been removed.

Shiplap

The layering method in which each layer overlaps the layer below it so that water runs down the outside.

Shipping Clips

Small, metal or plastic clips that come attached to a door system. These clips help keep a door slab closed and aligned before and during installation.

Stop

The part of the jamb that the door slab closes against and is visible when the door is closed.

Strike Jamb

The side of the jamb that makes contact with the latch on a door slab.

Please allow sufficient time to properly prepare the existing opening, install the entry door, and ensure its proper operation.

Estimated Install Time	First Time: 4.0 hr. Experienced: 2.5 hr. Professional: 1.5 hr.

SAFETY AND HANDLING

SAFETY

- Read and fully understand ALL manufacturers' instructions before beginning. Failure to follow proper installation and finishing instructions may result in the denial of warranty claims for operational performance problems.
- Do not work alone. Two or more people are required. Use safe lifting techniques.
- Use caution when handling glass. Broken or cracked glass can cause serious injury.
- Wear protective gear (e.g. safety glasses, gloves, ear protection, etc.).
- Operate hand/power tools safely and follow manufacturer's operating instructions.
- Use caution when working at elevated heights.
- If disturbing existing paint, take proper precautions if lead paint is suspected (commonly used before 1979). Your regional EPA (www.epa.gov/lead) or Consumer Product Safety Commission offices provide information regarding regulations and lead protection.
- **WARNING:** Drilling, sawing, sanding or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Use a respirator or other safeguards to avoid inhaling wood dust.

MATERIALS AND DOOR HANDLING

- Make sure the operating slab is secured prior to installation.
- Heed material manufacturer's handling and application instructions.
- Protect adhesive surfaces from dirt, moisture, direct sunlight and folding over onto themselves.
- Handle in vertical position; do not drag on floor.
- Do not put stress on joints, corners or frames.
- Store door in dry, well-ventilated area in vertical, leaning position to allow air circulation; do not stack horizontally.
- Protect from exposure to direct sunlight during storage.
- Install only into vertical walls and when conditions and sheathing are dry.

IF INJURY OCCURS, IMMEDIATELY SEEK MEDICAL ATTENTION!

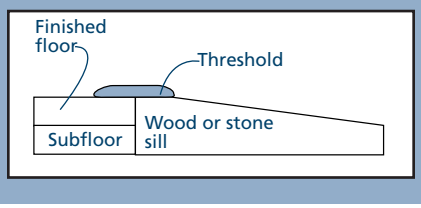
SILL CONDITIONS

These instructions cover installations on two types of sill conditions: The ***separate component sill*** and the ***combination sill***. For installations not specifically addressed in these instructions, consult a building professional.

SEPARATE COMPONENT SILL

The existing threshold will need to be unscrewed and removed to provide a flat surface for the replacement door sill to sit on.

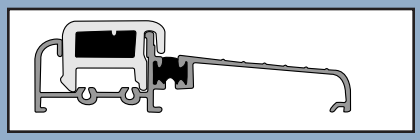
Separate Component Sill System



COMBINATION SILL

The entire combination sill must be removed. A spacer block (oak or water-proof material recommended) will need to be fashioned to fit under the existing jamb stops and water-proofed before installing the replacement door. The replacement door sill will sit on the new spacer block.

Combination Sill and Threshold



MATERIALS AND TOOLS

INCLUDED MATERIALS

- 1 Deadbolt strike plate
- (15) 6d common nails for interior nailing fin
- (30) 8d standard finish nails for interior casing (trim)
- (15) 6d galvanized finish nails for exterior weatherstrip stops
- (14) #9 x 2 1/2" screws to secure new frame to existing jambs
- 3 pieces of exterior stop with weatherstrip (1 head, 2 side jamb)
- 2 weatherstrip corner pads

NEEDED MATERIALS

Note! JELD-WEN exterior window and door products should be installed in accordance with JELD-WEN's recommended installation and flashing directions, which are shipped with the products or can be found on our website: www.jeld-wen.com. Note that alternative installation methods and flashing systems may be utilized at the installer's or owner's discretion and, in such situations the installation should be done in accordance with the flashing manufacturer's instructions. Follow all material manufacturers' instructions for proper use and compatibility. When using flashing, spray adhesive/primer, sealant and foam products, we recommend using the same manufacturer and verifying compatibility. It is the End User's responsibility to determine if dissimilar materials are compatible to the substrates in the application.

- Lockset and deadbolt
- Finishing materials (paint, masking tape, drop cloths etc.)
- Non-compressible and non-water degradable shims
- Sealant: We recommend OSI® QUAD® Max Sealant or equivalent. This can be used in any application and can be painted or ordered in a color matched product, if desired.
- Combination sills: oak or equivalent support blocking material, liquid applied or self adhesive flashing and #8 x 2" screws (wood sub floors) or construction adhesive (concrete sub floors).

NEEDED TOOLS

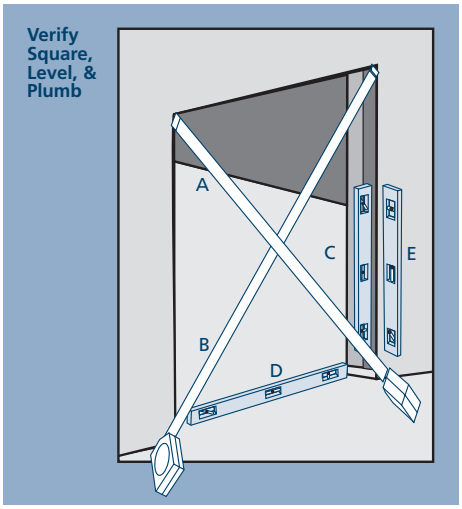
Note! Every tool is not required for all installations.

- Tape measure
- Utility knife
- Level (4 ft. minimum recommended)
- Caulking gun
- Drill with bits
- Hammer
- Punch
- Screwdrivers
- Square
- Pencil
- Pry bar
- Hacksaw
- Wood saw
- Putty knife
- Finishing supplies (paint brush, roller, sprayer, etc.)

Note! Follow all material manufacturers' instructions for proper use and compatibility.

1 QUALIFY EXISTING OPENING

- Verify the existing jambs are square. The (A) and (B) measurements should be the same. Maximum allowable deviation from square is 1/4".
- Verify the existing jambs are level and plumb (C). The maximum allowable deviation is 1/8".
- The existing sill must not be crowned or sagged (D) A 5 degree sloped sill is recommended. The sill must be in good condition and not leaking; replacement doors will not correct current water damage or infiltration issues.
- Fix all problems prior to installation.

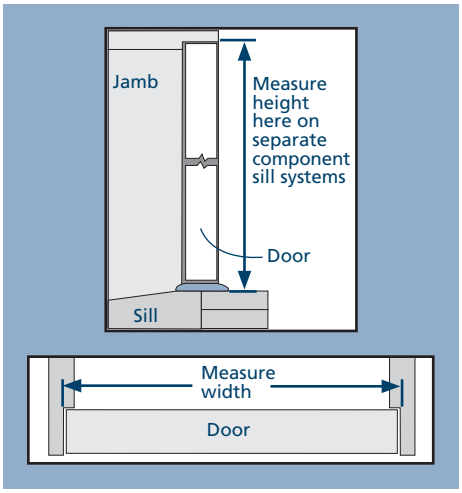


VERIFY MEASUREMENTS

When taking measurements, measure jambs as shown (not any weatherstrip or hardware) height/width on both ends and in the middle, use the smallest measurement from each. The space between the replacement door and existing jamb must between 5/16"- 1"on width and 5/16"- 13/16" on height.

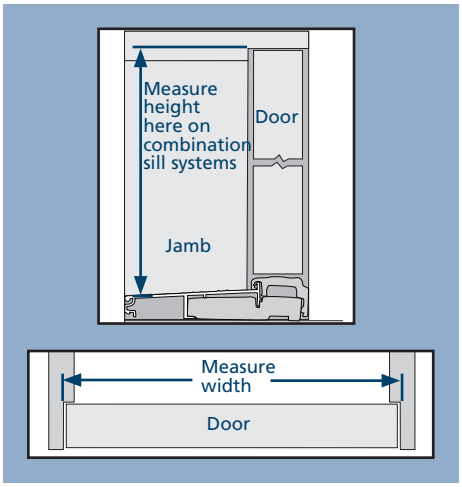
SEPARATE COMPONENT SILL MEASUREMENTS

Measure height from the bottom of the threshold (remove if necessary) to the tallest part of the bottom of the head jamb as shown. Measure width between the widest part of the side jambs.



COMBINATION SILL MEASUREMENTS

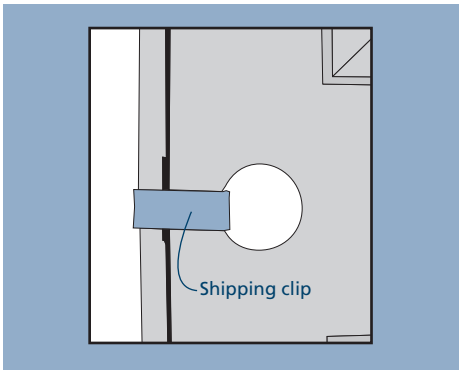
Measure height from the bottom of the side jamb stop to the tallest part of the bottom of the head jamb. Measure width between the widest part of the side jambs.



2 REMOVE PACKAGING AND INSPECT DOOR

REMOVE PACKAGING

Remove shipping materials such as corner covers, shipping blocks or pads. Leave glass protective films. **DO NOT remove shipping clip until instructed to do so. This clip holds the door system aligned and closed during installation.**



INSPECT DOOR

- Cosmetic damage
- Correct product (size, color, grid pattern, handing, glazing, energy-efficiency requirements, etc.)

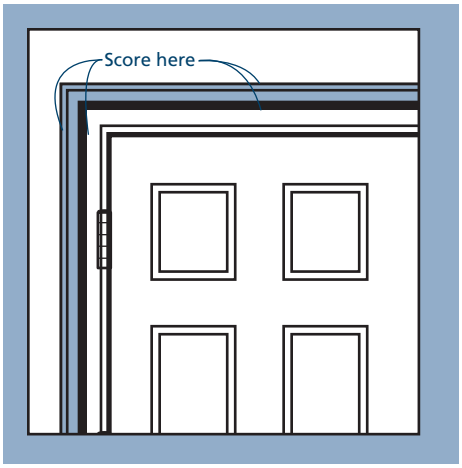
If any of the above conditions represent a concern, or if you expect environmental conditions to exceed the door's performance rating, do not install the door. Contact your dealer or distributor for recommendations.

FOR RETROFIT INSTALLATIONS

After removing the old door, contact your local waste management entities for proper disposal or recycling of products being removed.

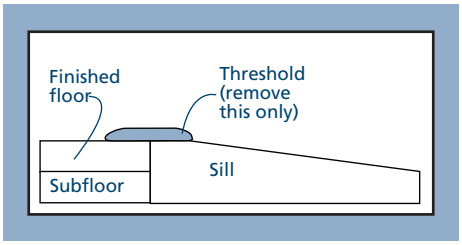
3 PREPARE EXISTING OPENING

1. On the inside, score through paint/ sealant around the existing casing (trim) with a utility knife.
2. Carefully remove casing with a pry bar.
3. Remove existing slab from the frame. The hinge pins can be driven out with a punch or the hinges unscrewed from the jamb.
4. Remove all hardware from the existing jambs (hinges, strike plates etc.).



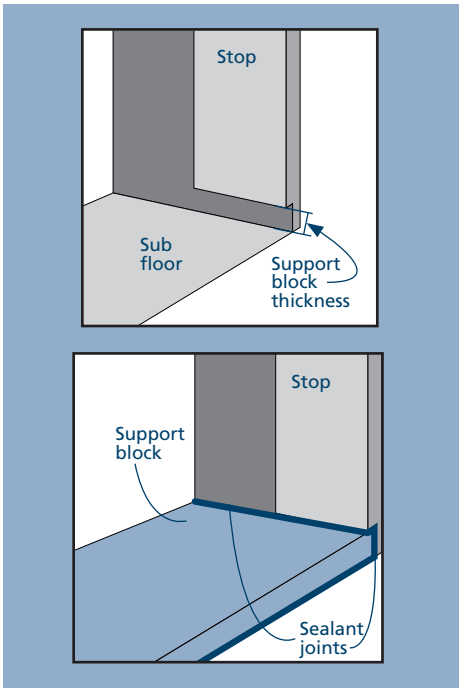
SEPARATE COMPONENT SILL

Remove existing threshold (not entire sill) by removing the screws or nails and prying up from the sill.



COMBINATION SILL

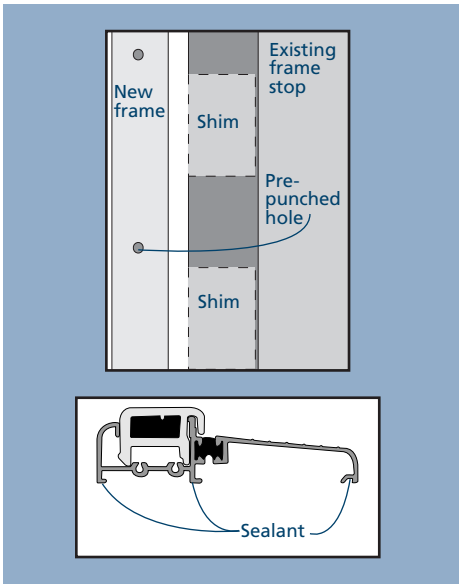
1. Remove existing sill by cutting through the middle and prying out of the opening as carefully as possible to limit damage to the jambs. Existing fasteners at each side jamb may need to be cut. Remove any old sealant, debris, etc.
2. Cut a new support block from oak or other waterproof material. This block should be fashioned to be long enough to fit in between both side jambs beneath the stops and any trim and extend the full width of the previous threshold. From the exterior, slide in place under the jamb stops and secure with screws if on wood or construction adhesive if on concrete.



3. Cover the support block and any exposed subfloor with liquid applied flashing or self adhesive flashing. If using self adhesive flashing that requires multiple pieces, begin from the exterior and work in, overlapping the previous piece (shiplap method). Run a bead of sealant on both ends where the blocking material meets the jambs.
4. Test fit the replacement door in the existing jambs. Notch the jamb stops as necessary to allow the new threshold to fit.

BOTH INSTALLATIONS

1. Shim the strike jamb so that the door is centered in the opening. Tack shims to the existing jamb just above or below each pre-drilled hole in the frame and between the latch and deadbolt strike plates. Either measure each screw hole location and transfer to the jamb or use the frame as a template as shown.

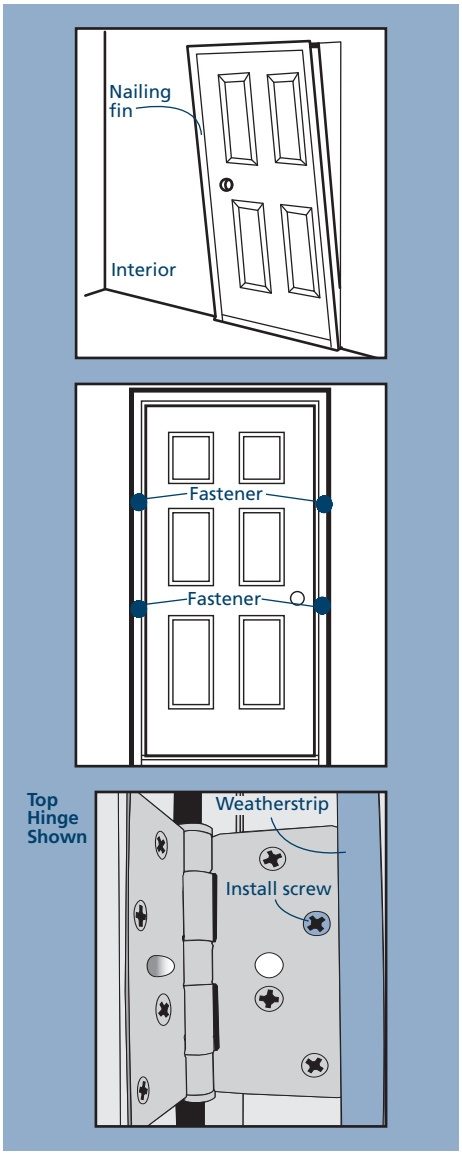


2. On the bottom of the replacement threshold, apply a full length bead of sealant to each leg or measure the locations and mark the existing opening sill. Apply a continuous 3/8" bead of sealant to each line.

4 INSTALL DOOR

Warning! To avoid injury, use at least two people to install. Adequately support the door until fully installed.

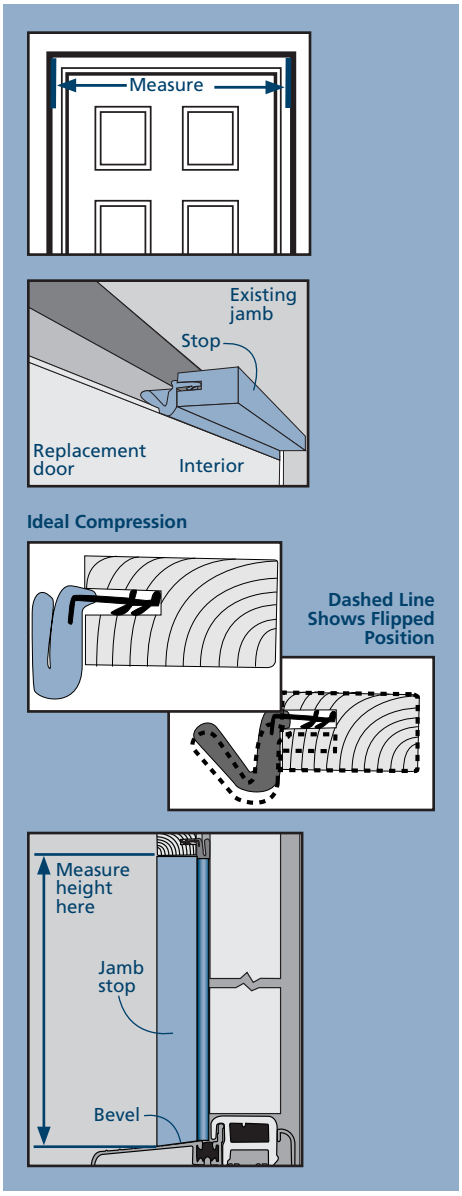
1. Apply a 3/8" continuous bead of sealant to the interior face the existing jambs. From the inside, tilt the entire pre-hung door into the center of the opening.
2. Temporarily fasten the door by driving a 6d common nail through four narrow slots in the nailing fin into existing jambs (not into drywall). Do not completely set nails yet.
3. Remove the shipping clip. Be sure the door opens freely and that the space between the door and the jamb is even on all sides. Adjust if necessary.



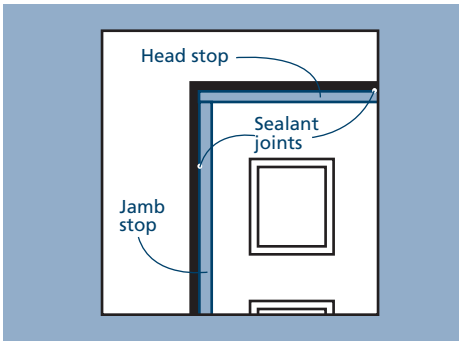
4. Install one of the provided #9 x 2 1/2" screws in the top hinge through the open hole as shown, driving it through the hinge jamb and into the studs.
5. In the same manner, install one screw into each of the remaining hinges.
6. Verify the door unit is square, then securely fasten the strike jamb through each pre-drilled hole with the provided #9 x 2 1/2" screws. Use the deadbolt strike supplied with the door (not the one that comes with the lockset) and latch strike from lockset. Drive screws through all four holes.
7. If adjusting is necessary, loosen the appropriate fasteners and adjust until the unit is square.
8. Completely drive in temporary fasteners and drive additional nails through the remaining narrow slots in the frame.
9. Install lockset hardware per manufacturer's instructions.

INSTALL WEATHERSTRIP STOPS

1. On the exterior, measure the head at the inside of the jambs and cut a stop to fit.
2. Make sure door is latched in closed position. Set the stop with the weatherstrip against the door (projecting side up) until the weatherstrip is compressed on the door. If the gap is too large for the weatherstrip to properly contact the door, the weatherstrip can be positioned 1/16" lower by removing the weatherstrip from the stop and flipping the stop over. Push the weatherstrip back into the stop and secure 2" from each end and in the middle with three 6d galvanized finish nails.
3. The jamb weatherstrip stops will be installed in a similar manner as the head stop. The stops have a pre-cut bevel on both ends to conform to the sill profile. Make sure when trimming, the bevel is on the correct end. Measure between the bottom of the head trim and the top of the new sill and cut jamb stops to fit. At the head, trim the jamb weatherstrip to fit around the head weatherstrip. Secure with five of the provided 6d galvanized finish nails on each jamb.



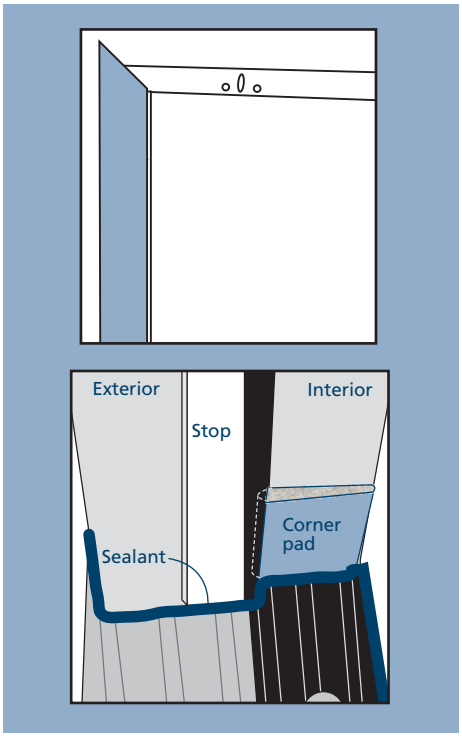
4. Run a continuous bead of sealant where each stop meets the existing jambs.



4 INSTALL DOOR - CONTINUED

FINISH INSTALLATION

1. Shim underneath of the new threshold and existing sill if necessary to create a flat surface for the new door sill.
2. Apply new casing to the inside or reuse the casing previously removed. Secure with new 8d finish nails supplied.
3. Adjust threshold cap if necessary. It is shipped in the lowest position. Sweep should contact threshold and compress slightly. To raise, remove protective caps and turn screws clockwise to desired height.
4. The included corner pads are used to complete the weatherstrip seal at each bottom corner between the jamb and operating slab when closed. Position the thick edge behind the weatherstrip, remove the backing paper and adhere to the jamb as shown.
5. Seal all joints and gaps at the sill around the new threshold and along the back and sides as shown.



FINISH INSTALLATION - CONTINUED

6. Finish all six sides of the door slab and weatherstrip stops. Failure to finish the slab according to our finishing instructions may result in denial of warranty claims. The metal frame is pre-finished and does not require finishing.
7. If any subfloor was exposed and covered with flashing, cover this flashing with a thin piece of wood or similar material. Adhere with construction adhesive and run a bead of sealant all the way around with a discontinuous joint on the exterior face.
8. Remove protective film from glass (if applicable).
9. Sealant joints will need to be inspected at least once a year and repaired as necessary.

Please visit jeld-wen.com for warranty and care and maintenance information.

Thank you for choosing

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