



Thank you for selecting JELD-WEN products. Attached are JELD-WEN's recommended installation instructions for Fiberglass Sliding Patio Doors with Applied Nailing Fin. 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 home, which can draw water through very small openings. Our installation method seals the patio door to the weather barrier (typically building wrap) and uses a sill pan to capture and drain incidental storm water from under the patio door.

IMPORTANT INFORMATION AND GLOSSARY

Consult your local building code official for applicable building codes and regulations. Local building code requirements supersede recommended installation instructions.

Please Note! Any patio 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

Applied Nailing Fin

A piece of vinyl or aluminum that is slid into a track in the outside of a window or patio door frame.

Backer Rod (backing material)

A material (e.g. foam rod), placed into a joint primarily to control the depth of the sealant.

Buck

A wood framework attached to the masonry inside a window or patio door rough opening.

Pilot Hole

A drilled hole that is no larger than the body of the screw (minus the threads).

Shiplap

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

Sill Pan

A flashing component installed in the sill of the rough opening underneath the door. Sill pans have upturned walls along the interior edge and at both ends, creating a three-sided box. This component serves as a collection device to drain incidental water to the exterior of the building and should be properly sealed to the opening. The best sill pan design has a positive slope to the exterior and offers continuous support to the door's sill.

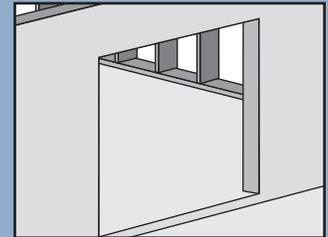
Weep Hole (weep channel)

The visible exit or entry part of a water drainage system used to drain water out of a door.

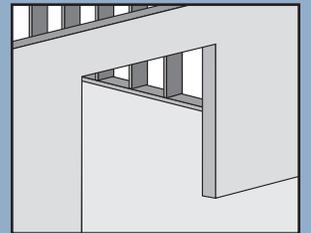
LANDINGS

These instructions cover two patio door sill conditions: the **step-down landing** and the **continuous slab landing**. The installation methods vary slightly between landing types.

Step-Down Landing



Continuous Slab Landing



Estimated Install Time for New Construction	<input type="text"/>	First Time: 1.75 hr.
	<input type="text"/>	Experienced: 1.25 hr.
	<input type="text"/>	Professional: 0.75 hr.

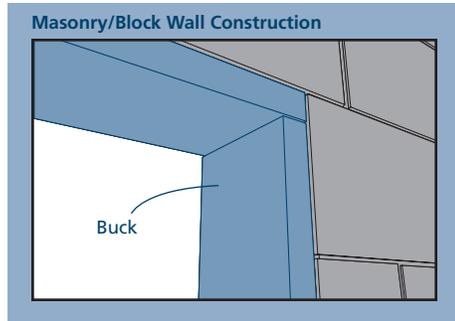


ROUGH OPENINGS

This installation guide specifically addresses masonry/block wall, sheathed wall and open-stud construction.

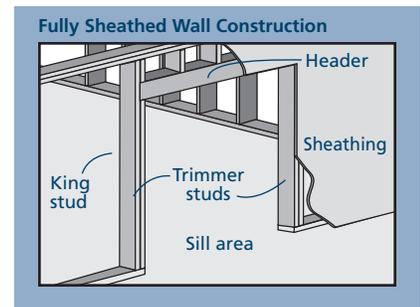
MASONRY/BLOCK WALL CONSTRUCTION

This installation assumes that a framework of 2x studs (often called a buck) has already been properly fastened and sealed to the concrete/masonry wall by a building professional.



FULLY SHEATHED WALL CONSTRUCTION

The wall framing is covered by sheathing. This installation assumes building wrap is properly installed prior to installation.



OPEN-STUD CONSTRUCTION

Wall framing is not covered by sheathing.

SAFETY AND HANDLING

SAFETY

- Read and fully understand ALL manufacturer's instructions before beginning. Failure to follow proper installation instructions may result in the denial of warranty claims for operational or 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 PATIO DOOR HANDLING

- Make sure the operating panel 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 patio 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.
- Never use solvent-based sealants on vinyl products.

IF INJURY OCCURS, IMMEDIATELY SEEK MEDICAL ATTENTION!

MATERIALS AND TOOLS

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 manufacturer's 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.

- #8 x 1" truss head corrosion-resistant screws. Do not use drywall screws.
- 3/16" x 2 1/2" self-tapping concrete screws (if securing into concrete/masonry).
- Non-compressible or non-water degradable shims.

- 4", 6", or 9" (as required by local code and window configuration) wide self-adhered flashing: We recommend OSI® Butyl Flash Tape or equivalent.
- Spray adhesive/primer for self-adhered flashing. Such as Loctite® 300 or equivalent. Follow manufacturer's instructions for application methods.
- 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.
- Backer rod 1/8" larger than the widest portion of the gap (used in conjunction with sealant bead).
- Plastic drain screen with crisscross or woven pattern (sold in 6" widths to protect rain gutters) for step-down landings.
- Sill pan: It is best practice to use a pre-formed, rigid, positively sloped, pvc pan that provides continuous support. **We recommend using SureSill™ Sloped Sill Pan™, manufactured by SureSill™, Ltd.** An alternative would be a non-sloped pre-formed sill pan or one that can be fabricated on site from metal or vinyl sheet material with the proper tools.

MATERIALS AND TOOLS - CONTINUED

- 3/8" staples for step-down landings.

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

NEEDED TOOLS

- Cutting shears - (sill pan)
- Tape measure
- Utility knife
- Level (4' minimum recommended)
- J-roller
- Caulking gun
- Drill
- Construction stapler
- Clean rags
- Phillips screwdriver

1 REMOVE PACKAGING AND INSPECT PATIO DOOR

REMOVE PACKAGING

Remove shipping materials such as corner covers, shipping blocks or pads. Remove any temporary handles just prior to installation into the rough opening.

INSPECT PATIO DOOR

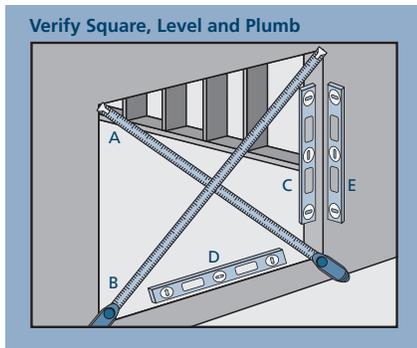
- Cosmetic damage.
- Product squareness (diagonal measurements must be within 1/4" difference).

- Correct product (size, color, grid pattern, handing, glazing, energy-efficiency requirements, etc.).
- For side-by-side mulled units, a drip cap that extends the length of the frame plus 1/8" overhang on each end is required.

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

2 INSPECT ROUGH OPENING

- Verify the width and height of the patio door are each 1/2"-3/4" smaller than the rough opening width/height. Mulled units should be 3/4" smaller.
- Verify the rough opening is square. The (A) and (B) measurements should be the same. Maximum allowable deviation from square is 1/4".
- Verify the rough opening is plumb (C, E and D). The maximum allowable deviation is 1/8".



- The rough opening sill must not be crowned or sagged (D), but rather be level or sloped (positive slope) to the exterior.
- The exterior face of the rough opening must be in a single plane (E) with less than 1/8" twist from corner to corner.
- Minimum double studs should be used at all wood framed rough openings.
- The header must be supported by trimmer studs.

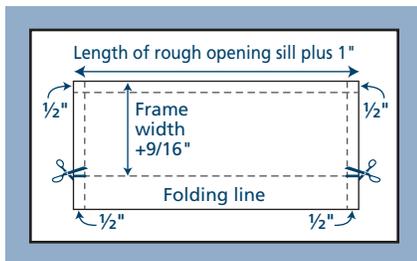
FOR RETROFIT INSTALLATIONS

After removing the old patio door, remove sufficient cladding (siding, stucco, etc.) to expose enough intact building wrap to properly seal the patio door to the opening. If damaged, apply new building wrap in shiplap manner. Verify the rough opening framing is structurally sound. Contact your local waste management entities for proper disposal or recycling of products being removed.

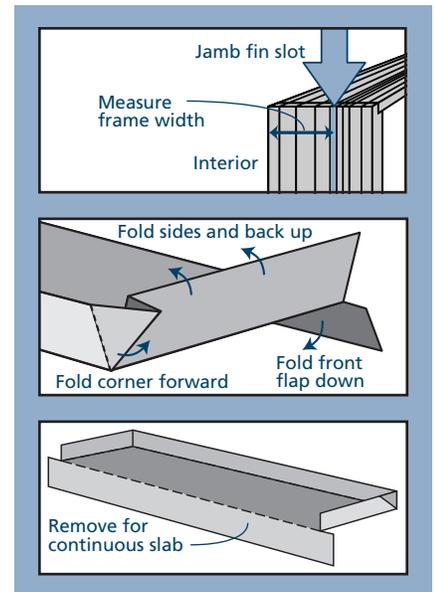
3 PREPARE SILL PAN

The sill can be prepared using one of two methods: **We recommend SureSill™ Sloped Sill Pan™**, available from SureSill at www.suresill.com, building supply stores, and some manufacturing locations. As an alternative, a sill pan can be fabricated on site, by following the instructions below. **If installing a SureSill™ sill pan, follow SureSill's instructions for installation and skip to section 4 "PREPARE STUD-FRAMED WALL".**

1. Cut a piece of sheet material to the length shown.
2. Lightly crease folding lines 1/2" in from the two short sides and one long side.
3. Measure the width of the frame from the interior to the nailing fin slot and add 9/16".
4. Take this distance from the back edge and lightly crease a folding line across the sheet material.
5. For step-down landings, cut 1/2" in at the folding line on both sides of the sheet material.



6. For continuous slab, cut across the folding line.
7. Fold the three back sides up to make a 3-sided box, and for step-down landings, fold the front flap down.



4

PREPARE STUD-FRAMED WALL

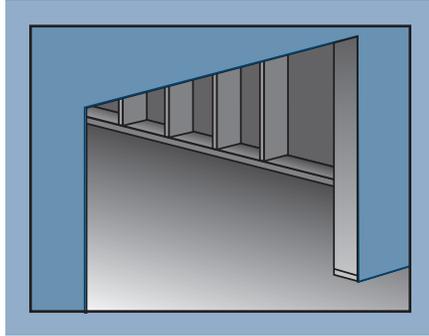
Note! This section covers stud-framed wall instructions. Masonry/buck instructions begin after with "PREPARE BUCK."

FOR RETROFIT INSTALLATIONS

Remove the old patio door. If installing into stud framing, remove sufficient siding to expose at least 9" of intact building wrap. If damaged, apply new building wrap in a shiplap manner. Verify header and trimmer studs are structurally sound. If installing into a block wall, removing the stucco is not necessary if the existing rough opening is waterproof and the patio door is downsized. Continue with the instructions.

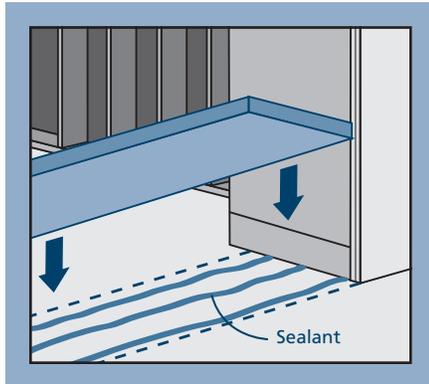
PREPARE BUILDING WRAP

Cut flush with the edges of the rough opening, or follow building wrap manufacturer's instructions for proper methods of preparing the weather barrier.



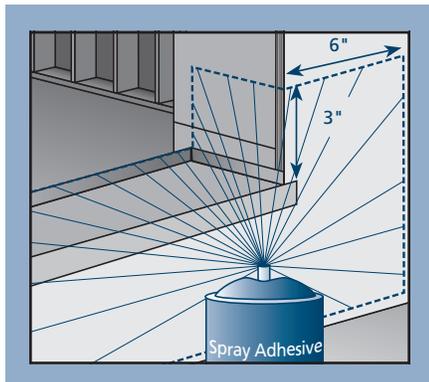
PREPARE SILL

1. Set the sill pan in the rough opening, aligning the front edge (for continuous slab, shown) or folded down edge (for step-down) with the exterior of the rough opening.
2. Mark a line across the front and back of the sill pan and remove.
3. Apply three 3/8" beads of sealant between the marked lines.

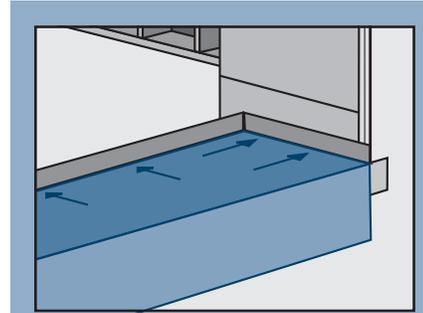


INSTALL SILL PAN

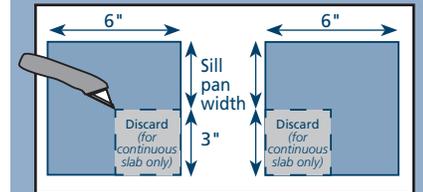
4. Place the sill pan in the rough opening. Firmly press the sill pan in place with a J-roller.
5. Apply spray adhesive/primer to the sill pan and surrounding area. Follow manufacturer's instructions for application methods.



6. Cut a piece of JELD-WEN self-adhered flashing the length of the sill and apply over the sill pan as shown. The bottom of the sill pan should be completely covered by the self-adhered flashing. For step-down landings, fold flashing down as shown. For continuous slabs, trim flush with rough opening.

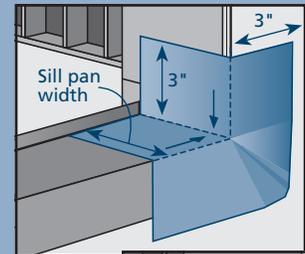


Self-Sealing Corner Flash



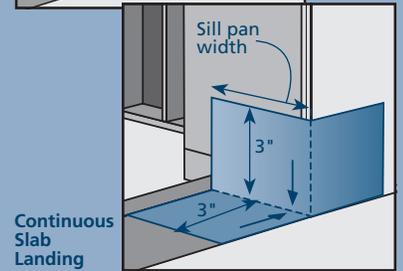
7. Cut two pieces of JELD-WEN self-adhered flashing 6" wide by the sill pan width + 3" long.
 - a. For continuous slab landings only, cut out the inside corner.

Step-Down Landing



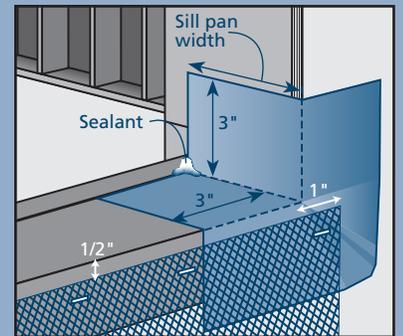
- b. Adhere the pieces of flashing to the inside corners. Stretch flashing as needed to cover corners and lay flat.

8. Smooth gaps or bubbles beneath self-adhered flashing with a J-roller (remove and replace if necessary).



9. Seal back corners of sill pan with sealant.

10. For step-down landings only, cut plastic drain screen to length of sill + 2" and staple 1/2" below sill edge. The drain screen provides a path for air to dry any incidental moisture in the rough opening.



5

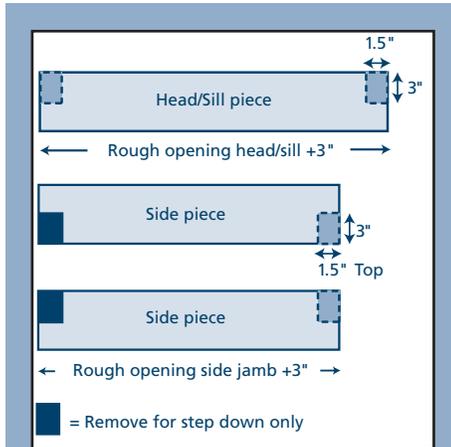
PREPARE BUCK

PREPARE BUCK (MASONRY/BLOCK WALL ONLY)

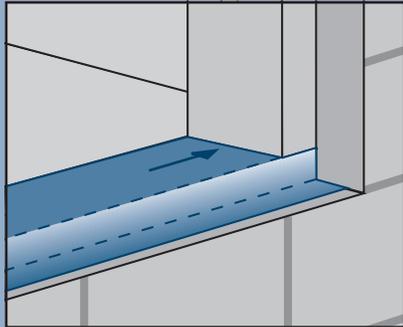
1. On the exterior, coat the buck and surrounding concrete/masonry with self-adhered flashing primer. Follow manufacturer's instructions for application procedures.
2. Seal the joint between the buck and the concrete/masonry with JELD-WEN self-adhered flashing as follows:

Note! Do not allow gaps or bubbles beneath the flashing (remove and replace if necessary).

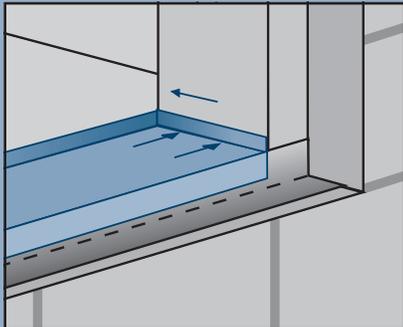
- a. Cut five pieces of self-adhered flashing for the sill, sides, head, and sill pan as shown.



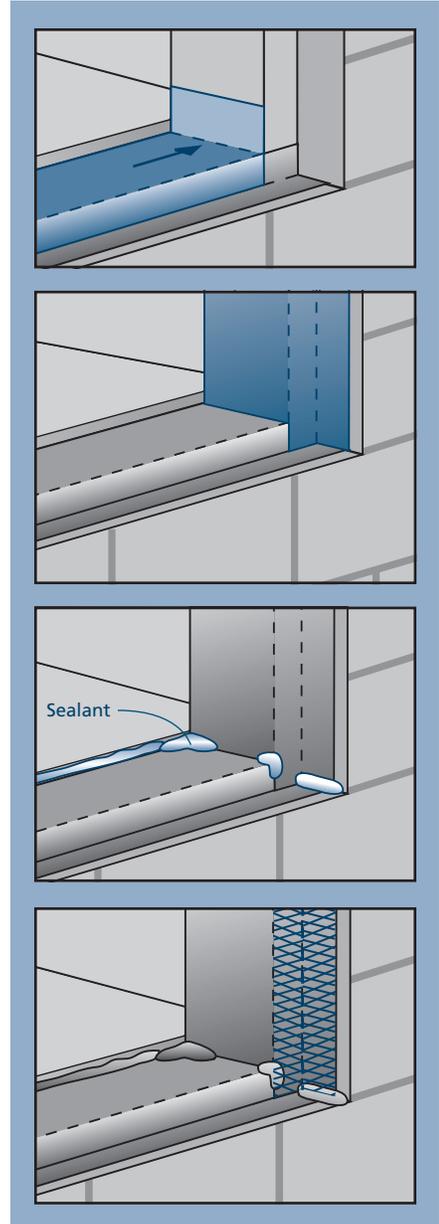
- b. Apply the sill piece as shown.



- c. Place the sill pan in the rough opening.



- d. Apply the sill pan piece of self-adhered flashing over the sill pan as shown. The bottom of the sill pan should be sealed by the flashing.
 - e. Remove the upper end corner of each side piece, and for step-down landings, remove the lower end corner.
 - f. Apply the side pieces of self-adhered flashing.
 - g. Remove the corners of the header piece and apply.
3. Apply sealant across flashing/masonry joints at corners of masonry opening.



4. Apply diamond lath to all flashed surfaces to be covered by stucco.

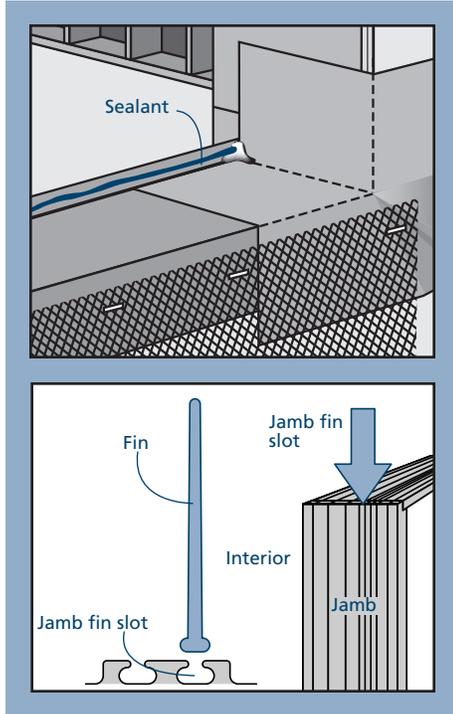
6 INSTALL PATIO DOOR

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 across the sill pan back dam.
2. Install nailing fins into the appropriate jamb fin slots on the side jambs and the head jamb.

Note: Be careful to apply the nailing fin intersection gaskets at the top corners (one in each side jamb and one in the head jamb).

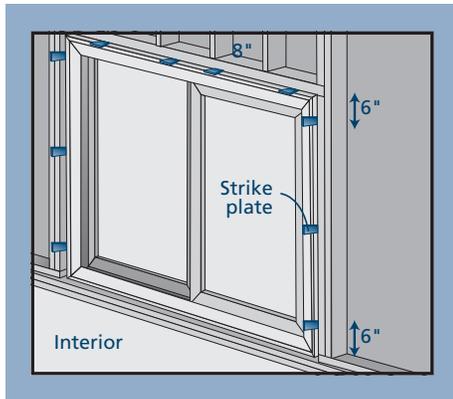
3. Tilt patio door into the rough opening. Make sure the back of the door makes solid contact with the sealant.



SHIM THE JAMBS

Note! Secure all shims with sealant.

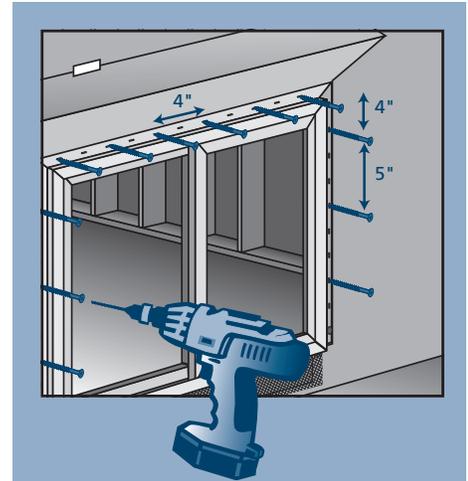
4. From the interior, shim the side jambs 6" from the corners and then at the center point. Shim the head 6" from the corners and then at 8" intervals. Shim so the door is square, level and plumb.
5. Temporarily secure both top corners through the nailing fin until door is fully installed.
6. Verify the door is square, level and plumb.



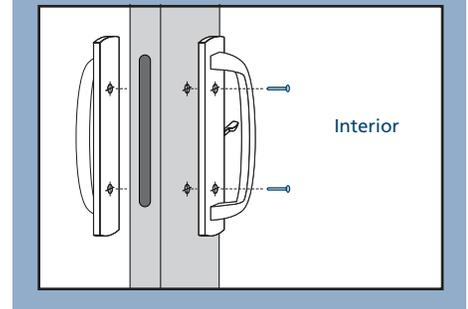
SECURE PATIO DOOR

Note! Do not over tighten fasteners and do not allow fasteners to deform the nailing fin, it must be kept flat and straight.

7. At each remaining corner and at 5" intervals, fasten patio door through the nailing fin with #8 x 1" washer or pan head screws. For step-down landings, secure the sill in the same manner.



8. Install handle on the operating panel with the provided screws.



7

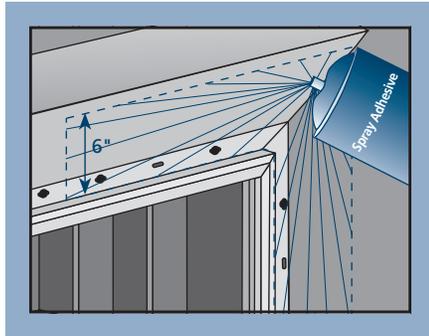
FLASH PATIO DOOR

PREPARE FLASHING

1. Cut pieces of JELD-WEN self-adhered flashing to length as follows:
 - One header piece 14" longer than the header.
 - Two side pieces: for continuous slab landings, 5" longer than the sides, or for step-down landings, 5" + the height of the step.
 - For step-down landings only, one sill piece 10" longer than the sill and 1" narrower than the height of the step.

SPRAY ADHESIVE/PRIMER

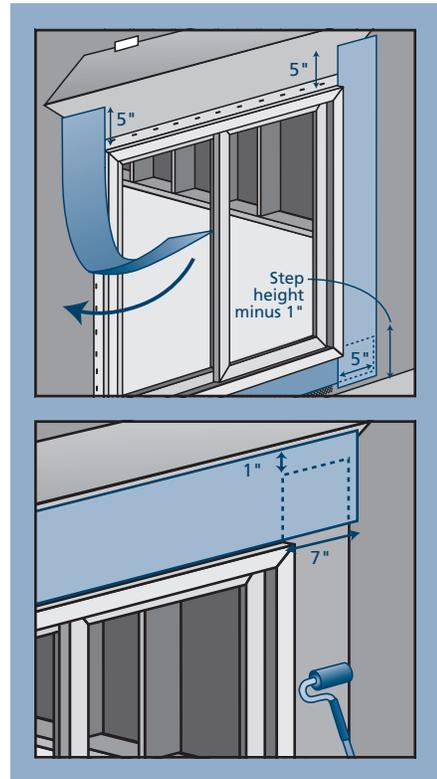
2. Apply spray adhesive per manufacturer's instructions (protect door from overspray) to nailing fin, sheathing, and building wrap around the patio door as shown.



APPLY THE SELF-ADHERED FLASHING

Note! Keep the edge of the JELD-WEN self-adhered flashing as close to the patio door frame as possible.

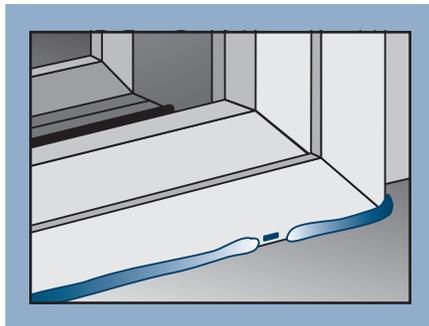
3. If applicable, center and apply the sill piece underneath the sill (bottom 1/2" of the drain screen must remain visible).
4. Apply the side pieces starting 5" above the header.
5. Center and apply the header piece above the header.
6. Press the flashing down with a J-roller.
7. Do not allow gaps or bubbles beneath self-adhered flashing (remove and replace if necessary).



8

COMPLETE INSTALLATION

1. For continuous slab landings, apply a 1/4" bead of sealant around the sill where it meets the slab. Leave 1" gaps at the weep holes as shown.
2. Ensure sealant on back dam of the sill pan fully seals to the inside face of the sill. Apply more sealant as necessary to ensure an airtight seal.



PATIO DOOR ADJUSTMENT

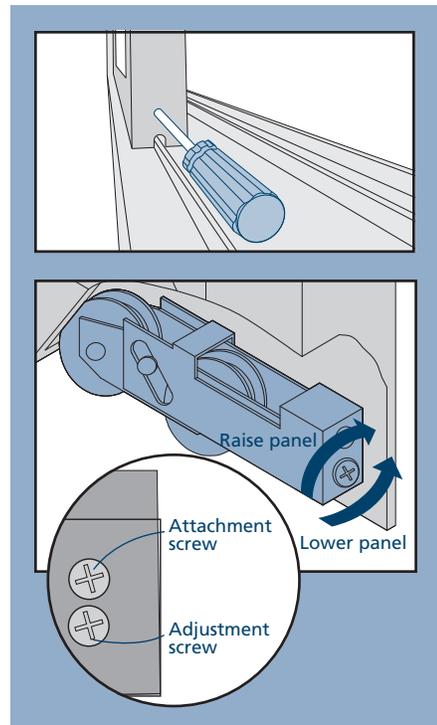
Roller Adjustment

Note! Adjusting door too high may allow water and air leakage. Adjust rollers just high enough to clear sill track and still roll smoothly.

1. An adjustment screw is located on each lower end of the operating panel.
2. Open operating panel enough to compare with frame jamb.

Note! Roller adjustment screws are in close proximity to the attachment screw. Adjust only the lower screw as shown because loosening the attachment screw will detach the roller from the operating panel.

3. Using a #2 Phillips head screwdriver, turn the adjustment screw clockwise to raise the panel, and counterclockwise to lower the panel.
4. Adjust as needed until interlocks, grid patterns and jambs line up.
5. Test the operating panel for proper operation.
6. Re-apply the small vinyl caps over the roller adjustment screw holes if applicable.



8

COMPLETE INSTALLATION - CONTINUED

Lock Adjustment

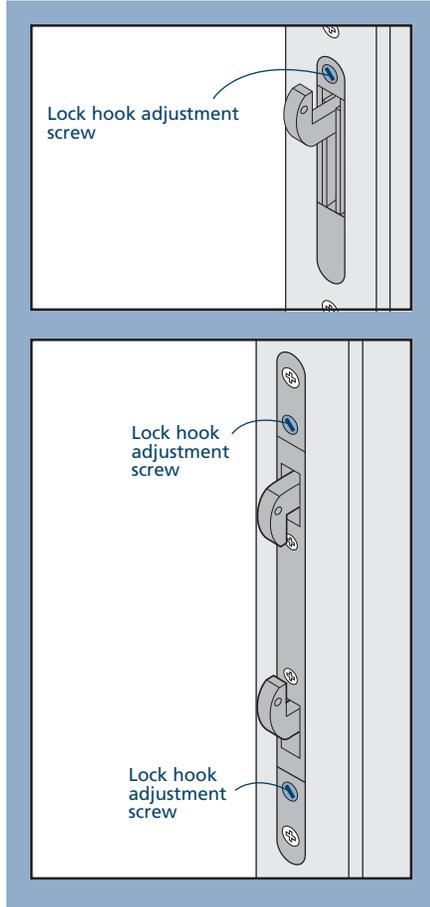
Some locks will have a single latch and some will have a double latch. Both adjust in the same manner.

If the lock does not properly engage the strike plate:

- Loosen the strike plate screws and move up or down until the latch engages properly.

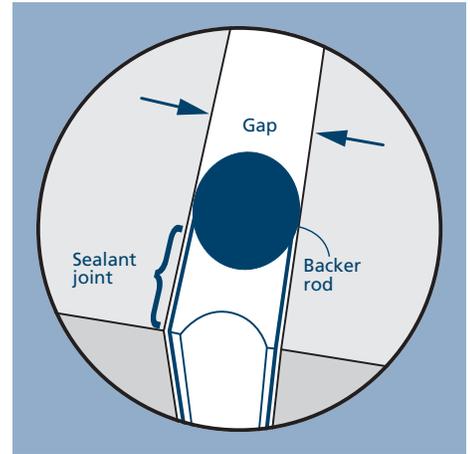
If the door does not lock or is loose when locked:

- Turn the latch adjustment screw(s) in 1/2 turn increments: clockwise to loosen or counterclockwise to tighten.



AFTER INSTALLATION

- Install exterior wall surface within seven days of patio door installation.
- Seal any gaps or openings at end of horizontal mull joints with sealant.
- Insulate the void between the rough opening and the frame with low expansion foam. Seal with backer rod and sealant on the exterior.
- Clean and finish all exposed interior and exterior parts of each panel with at least two topcoats of an exterior grade finish. Primer alone is not a suitable barrier.
- Protect recently installed units from damage from plaster, paint, etc. by covering the unit with plastic.



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

Thank you for choosing

