



Thank you for selecting JELD-WEN® products. Attached are JELD-WEN's recommended installation instructions for Custom Folding 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.

To adequately protect your door, please refer to "Appropriate Protection for Exterior Doors" for information on protection requirements at www.jeld-wen.com/resources.

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

Please Note! Doors must be installed square, level and plumb and on a flat surface (without twist or warp). We also recommend that all components be finished prior to installation. See our recommended finish maintenance instructions at www.jeld-wen.com/resources. Poor installation or finish may 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.

SAFETY & HANDLING

SAFETY

- Read and fully understand ALL manufacturers' instructions before beginning.
- 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.

MATERIALS & PATIO DOOR HANDLING

- Heed material manufacturers' 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 to allow air circulation.
- 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!

NEEDED MATERIALS & TOOLS

Installation Materials Required:

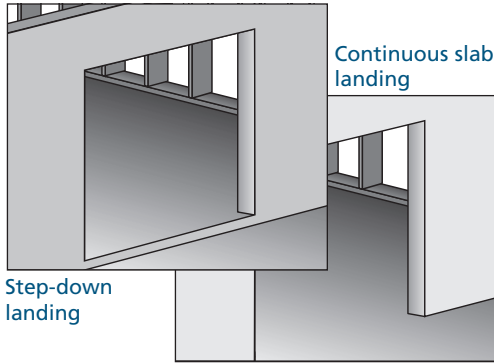
- Shims
- #12 x 3" corrosion resistant screws
- Exterior silicone sealant
- Low pressure foam
- Sill pan made from plastic sheeting
- 6" self-adhesive flashing
- Spray adhesive
- Backer Rod

Tools Required:

- 3-foot level
- 6-foot level
- Tape measure
- 1/8" drill bit
- Caulking gun
- Safety glasses
- Screw gun
- Utility knife

PREPARE ROUGH OPENING

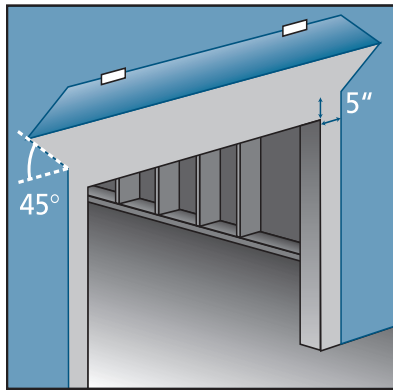
These instructions cover two sill conditions: **the step-down landing** and the **continuous slab landing**. The installation methods vary slightly between the two landing types.



Prepare the rough opening. The rough opening is to be 1/2" to 3/4" wider, and 1/2" to 3/4" taller, than the net outside jamb dimension of the unit. Check floor for level (measurements must be within 1/8"). Check walls or studs for straightness (measurements must be within 1/4") and plumb (measurements must be within 1/8"). Correct before installing.

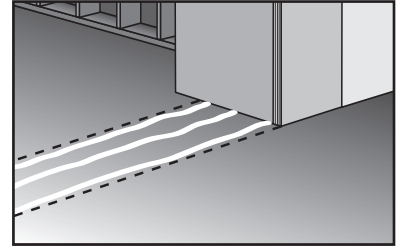
- 1 Clean rough opening and surrounding sheathing with a clean, dry cloth, beginning at the top.
- 2 If building wrap was applied prior to door installation,

- If attaching brickmold, then trim building wrap 5" away from rough opening on header and sides, if not, only cut back 3"; trim building wrap flush with sill edge if door has a rise.
- Slit building wrap at header corners 6", if product does not have brickmold, or 9", if product has brickmold, at 45° angle; tape out of the way until door is installed and flashing applied; staple any other loose sections of building wrap around rough opening.



- 3 For continuous slab, apply three 3/8" beads of low expansion foam sealant across the sill as follows:

- One 1/2" from the interior edge.
- One 1/2" from the exterior edge.
- One across the center of the sill.

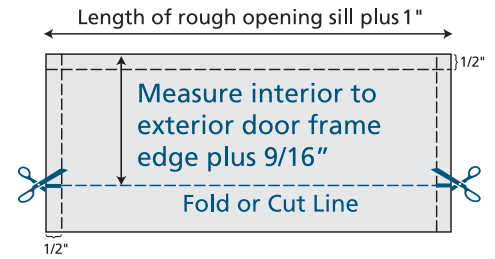


PREPARE SILL PAN

The sill pan is a three-sided box made of sheet metal flashing that the door sits in on the rough opening. It is designed to catch water that infiltrates into the rough opening and divert it to the outside. This prevents damage from water collecting on the rough opening sill. Door installations that have a step-down landing (as opposed to a door that sits directly on a continuous slab) have slightly different sill pans.

- 1 Prepare the sill pan as follows:

- For a 2" x 4" wall, the width of the sheet metal flashing should be at least 6".
- For a 2" x 6" wall, the width of the sheet metal flashing should be at least 9".
- The length should be determined by measuring the length of the rough opening plus 1".



- 2 Crease lines in sill pan using a straight edge as follows:

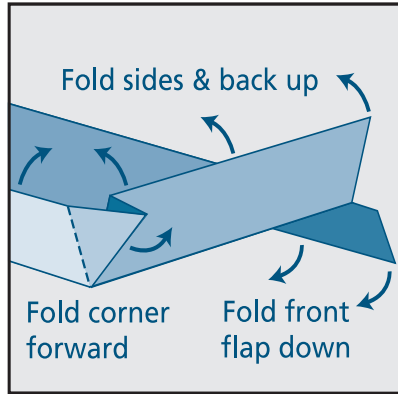
- Lightly crease a line inset 1/2" along both ends and one side of the sheet metal flashing.
- Measure the width of the door frame (not including the brickmold), and add 9/16".
- Take this distance and measure out from the back side; crease a line the length of the flashing.

- 3 Cut 1/2" in on both ends of this line.

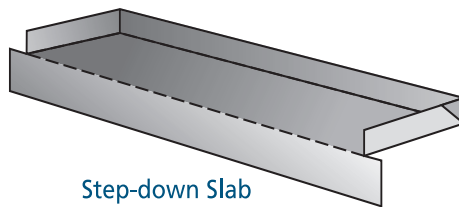
PREPARE SILL PAN - CONTINUED

4 Fold the sill pan as follows:

- Fold the three 1/2" sides up; use duckbill pliers to fold corners to outside of pan on short sides.
- For door with step-down landing: fold down at remaining crease line.
- Trim height of fold-down to rise of step if necessary.



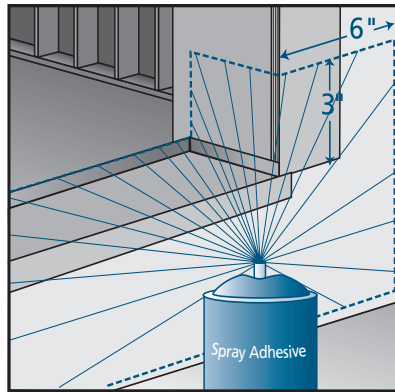
- For door on continuous slab, cut along the remaining crease line.



5 Place sill pan in rough opening so the open side faces the exterior.

NOTE: Door sits inside sill pan; back dam of the sill pan should just clear the back edge of door sill when it is placed in the rough opening.

- ### 6 Coat the sill pan with spray adhesive extending 3" up both side jambs; spray the vertical face of the rise, if applicable, as shown.
- (Follow manufacturer's instructions for tack time.)

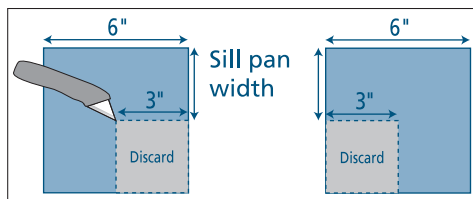


7 Apply self-adhesive flashing to the sill pan floor as follows:

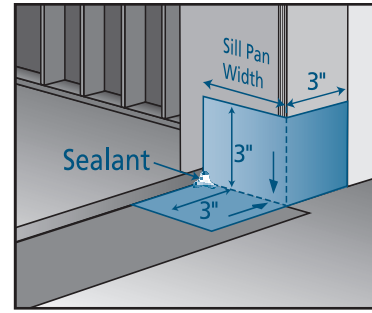
- Cut adhesive flashing to sill length; for continuous slab, cut to width of sill pan.
- Remove backing paper.
- Carefully apply to rough opening sill, flush with back dam of sill pan and fully covering the bottom of the sill pan.
- Fold flat onto rise (if applicable) or cut to sill pan width if on continuous slab.
- Smooth out any bubbles or creases with a j-roller.

8 Apply self-adhesive flashing to lower corners as follows:

- Cut two pieces (one for each corner of the rough opening sill) 6" x distance between the exterior and the interior edge of the door frame + 3".

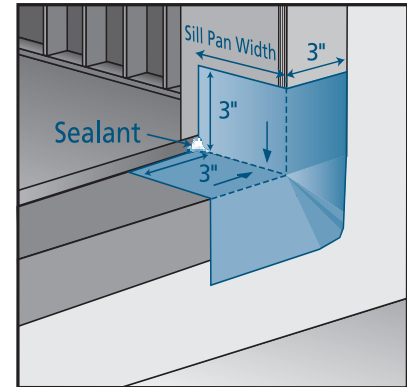


- For doors on continuous slab, cut out the inside corner.
- Remove paper backing from one piece.
- Adhere to one bottom corner tightly at 90° with 3" up the side and wrap flashing onto wall sheathing; do not stretch or tear flashing; eliminate as many wrinkles as possible.



For step-down landings:

- Remove paper backing from one piece.
- Adhere to one bottom corner tightly at 90° with 3" up the side and overlap onto the vertical face of the rise; do not stretch or tear flashing; eliminate as many wrinkles as possible.
- Press self-adhesive flashing tight into corners with j-roller.
- Repeat in opposite bottom corner.

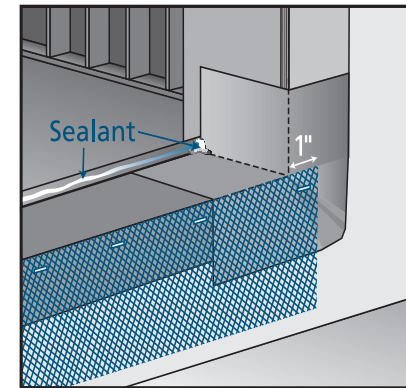


9 Seal back corners of sill pan with low expansion foam sealant.

NOTE: Step 9 is only needed for doors with a step-down landing.

10 Apply plastic drain screen as follows:

- Cut screen to the length of the sill plus 2"; cut the width 1/2" shorter than the vertical face of the rise (if applicable).
- Staple to vertical face of the rise with the top side flush with the rough opening sill edge.



11 All fasteners must be flush against sheathing within 6" of rough opening on all sides.

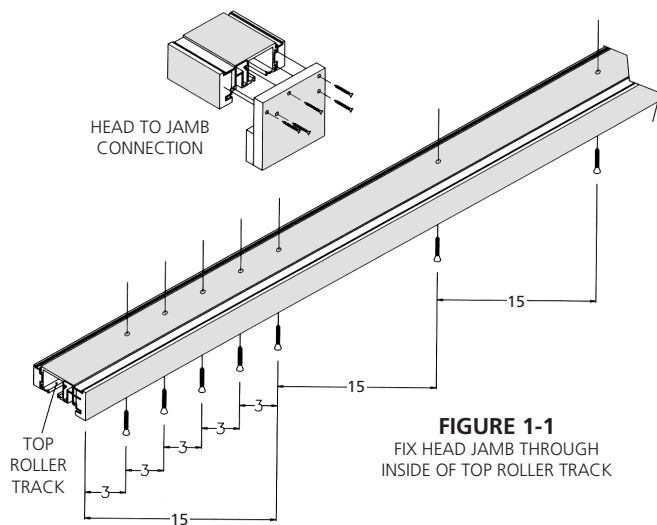
THE MOST IMPORTANT CRITERIA FOR A SUCCESSFUL JOB ARE A SQUARE OPENING, A RIGID HEAD AND A CLEAN TRACK.

- The installation of a folding door system requires that the sill, head and jambs are perfectly straight and square. **It is recommended that the head be installed with a slight bow upward (typically 1/8" at the center of the opening) to allow for the door's weight pulling down.** The sill should be installed flat and straight, ensuring that there is no upward bowing. The frame should be checked for square and twist.
- The weight of the doors is carried by the header. Therefore it is imperative that the jamb head be securely fixed to the header. Installation screws are NOT provided. Be sure to clean any metal shavings from the head track to avoid damage to the rollers.
- Ensuring your frame is square, plumb, and attached properly to an adequate header will alleviate problems in the future.
- Installation of flashing to ensure a proper water seal is the responsibility of the installer.

Note: The packet of drawings supplied with your system show minimum size and location of screws for attachment as tested. The size and location of screws and attachments shown in these installation instructions are suggested for more strength and reliability.

FRAME ASSEMBLY

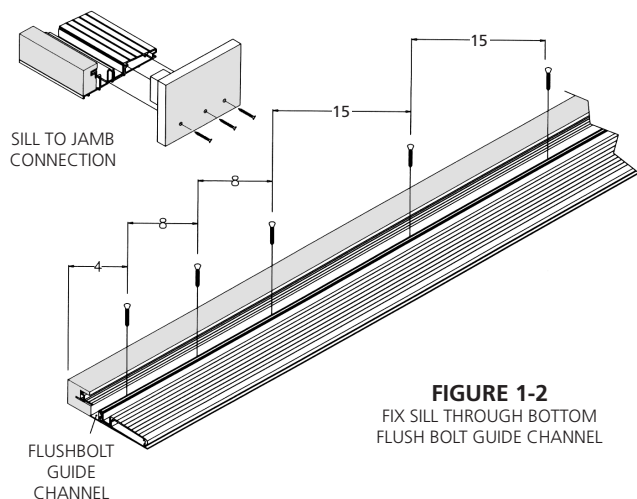
- Being careful to protect all surfaces, lay frame components (jamb head, jambs and sill) out on a flat surface with the wood interior facing down. Using silicone and #12, 3" pan screws, assemble the frame by sealing and connecting the jamb head and sill to the jambs at points A, B, C, D. Clamp the frame corners as needed to ensure that the frame sections fit together flush.
- Check the dry fit of the assembled frame in opening to ensure a proper fit. Set the frame in the opening and shim to ensure that the frame is square and plum. The sill should be level and **the head should have a 1/8" upward bow. Use X string lines on the frame to verify.**
- Attach the jamb head to the header through the top roller track using flat head screws every 3" on center for the first 15" out from the jamb and then every 15" on center as shown.



Pre-drill the head track with holes to fit the installation screws. For timber beams, coated deck screws are recommended (example: Woodscrew #12, 3" or stronger). Ensure screws penetrate the header at a minimum of 2 inches. Ensure the screw heads do not damage the rollers.

CLEAN THE TOP ROLLER TRACK OF ALL METAL SHAVINGS.

- Attach the sill through the bottom flush bolt guide channel; 4" from jamb at each end, 8" on center for the first 16" and then every 15" as shown. Screw close to the weather-stripping. Alternatively, the sill can also be attached through the main guide track with countersunk screws. Ensure that the pre-drilled holes are filled with silicone to prevent water leakage below the sill. Attach the jambs vertically behind the weather-stripping.



- Ensure that all screws can be removed if necessary during the installation process. Do not fix off frame permanently prior to final adjustment. Remove the shims across the head.

HANGING DOORS

Study the door configuration before installation. Begin panel installation from the pivot panel at jamb end and continue away from jamb in **EACH DIRECTION** according to configuration. **DOORS ARE NUMBERED FROM THE OUTSIDE, LEFT TO RIGHT.**

FIRST DOOR (PIVOT PANEL)

- Holding the door vertically, drop the pivot panel onto the pivot pin. Ensure that the pivot pin does not bend. Screw the top pivot hinge onto the door.
- Using a slotted screwdriver in the bottom of the top pivot, adjust the door upwards until the top of door panel is 3/16" from the underside of the top track (the bottom reveal should be 3/8").

SECOND DOOR (HINGE PANEL)

- Hold the first door in the open position. Place the second door next to first and align the tops of the doors and the hinges.
- **IN SOME CASES THE CARRIER HINGES WILL BE ON THE SECOND DOOR. IF SO, USE THE FOLLOWING INSTRUCTIONS.**

THIRD DOOR (CARRIER PANEL)

- Place the bottom roller bearing into the sill guide.
- Holding the door vertically, screw the top carrier hinge onto the door.
- Slide the door against the preceding door in the open position. Using a slotted screwdriver adjust the screws at the bottom of top hinge until the third door is flush with second (first) door at the top.
- Make sure the center pull handle is to the inside and join door hinges.

ADDITIONAL DOORS

- Repeat the above procedures for additional hinge and carrier panels until all doors are hung for **THAT DIRECTION**. When completed, repeat for the opposite direction.

MAKE FINAL ADJUSTMENTS

- Slide doors into closed position and secure the flush bolts.
- Adjust the doors vertically using a screwdriver to achieve a consistent 3/16" top reveal across the opening. Check for adequate clearance above the sill (3/8" typical).
- Adjust the doors horizontally using a horizontal Phillips head screw, make adjustments to the top and bottom pivots to maintain equal spacing between the panels and jambs. Check to ensure the lock functions properly.
- If your configuration has the passage door meeting with a strike door, check to make sure the doors are in alignment along the full height of the door when in a closed position. If the doors are not aligned, the jambs may have to be adjusted vertically for the doors to align.
- Open and close the door system to check for smooth operation.
- Remove the yellow shipping clips and make sure all locking pins are in their slots and are secure. Insert the caps into the pivot hinges.
- **PERMANENTLY SECURE THE FRAME.**
- **REMOVE STICKERS FROM THE GLASS PROMPTLY AFTER INSTALLATION.**
- We recommend leaving protective film on the system until other job-site construction is completed to protect from damage.

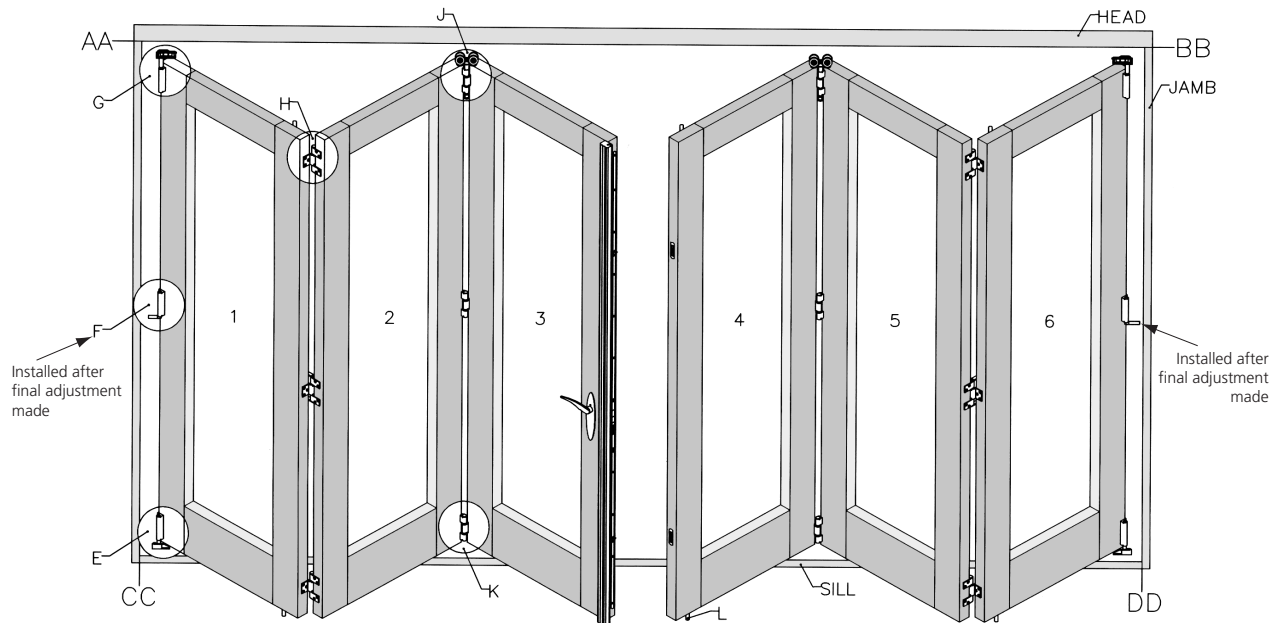


FIGURE 2-1 (EXTERIOR ELEVATION)

DOORS ARE NUMBERED FROM THE OUTSIDE, LEFT TO RIGHT (EXAMPLE: 3 LEFT, 3 RIGHT SYSTEM)



MAINTENANCE

All hardware is subject to deterioration from everyday use and exposure to the elements. The following maintenance procedures are recommended to maintain proper operation of the system and hardware.

TRACKS AND BEARINGS

Remove surface contaminants by wiping visible track surfaces with a damp soft cloth and a mild detergent, then wipe dry with a clean cloth. Using a suitable applicator spread a small amount of clear petroleum jelly or similar lubricant. Ensure that the carrier wheels pass through the lubricant so that it is distributed evenly along the track. Place additional lubricant around the bearings. The lubrication reduces wear, improves operation and protects against corrosion. In severe environments, apply a thin film of WD40.

HANGERS, PIVOTS AND BRACKETS

Exposed surfaces should be wiped down with warm soapy water and a soft rag, and then rinsed clean before applying new surface protectants. A light spray application of WD40, followed by a light wipe with a dry cloth to remove excess is recommended for all hangers, pivots and brackets.

HINGES

Wipe down the visible surfaces with warm, soapy water and a soft rag, then rinse off and dry by wiping with a clean rag. Application of a thin film of WD40 will help maintain the original luster of the metal finish, and lubricate the moving contact surfaces. ***Be careful not to get these compounds on any wood components as it may cause staining.*** For oil-rubbed bronze finish, care should be taken when cleaning or re-applying surface protectants.

FLUSHBOLTS

Spraying WD40 to the sliding pin inside the bolt and to the lock cylinder is recommended. There are access holes or slots on all drop bolts so that this can be completed without removing the locks from the doors.

FREQUENCY

Maintenance procedures need to be carried out as often as necessary to prevent deterioration of the system. However, we recommend the following minimum frequency:

General every 6 months

Marine or industrial environments every 3 months

Please visit www.jeld-wen.com/resources for warranty, finishing instructions and care and maintenance information.

Thank you for choosing



Official window, door and millwork provider
of the PGA TOUR and Champions Tour



JELD-WEN is proud to support
a better way to build

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