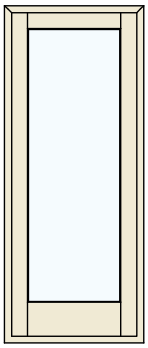
JELD-WEN

Installation Instructions

for Wood Sliding Patio Doors without Exterior Trim or Nailing Fin (JII027)

Thank you for selecting JELD-WEN products. Attached are JELD-WEN's recommended installation instructions for Wood Patio Doors without Exterior Trim or 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. Contact a building professional for installations other than those indicated in these instructions. JELD-WEN does not endorse the installation of our products into a barrier-type install system unless a sill pan is present, incorporated with through-wall flashing and can drain to the exterior (along with other "required" components). Failure to do so may result in the denial of any warranty claims. 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.

Configurations



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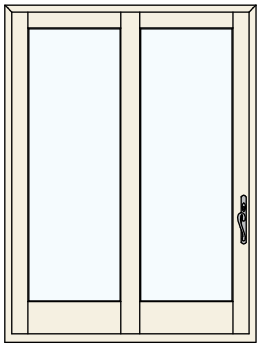

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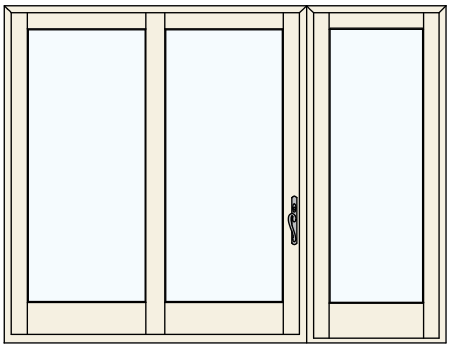

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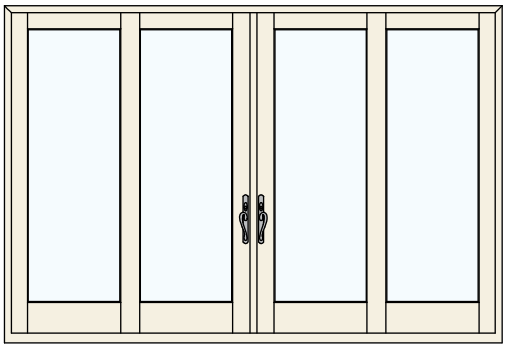

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⚠CAUTION

A minimum of 2-people will be needed to assemble and safely move door units.

IMPORTANT INFORMATION, TABLE OF CONTENTS AND GLOSSARY

JELD-WEN does not endorse the installation of our products into a barrier-type install system unless a sill pan is present, incorporated with through-wall flashing and can drain to the exterior (along with other "required" components). Failure to do so may result in the denial of any warranty claims.

PLEASE NOTE: Any patio door installation where the sill is higher than 35 feet above ground level 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.

Table of Contents

NOTICE

JELD-WEN advises against product installation in high interior water exposure environments such as showers, steam rooms and enclosed pool areas. These areas are beyond the tested/certified design intent of the product and any related warranty claims could be denied on that basis.

Glossary

Backer Rod (backing material)
A material (i.e., 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.

Continuous Air Seal
Backer rod and sealant or low expansion foam applied to the interior gap between the product and the building in a continuous fashion used to block air flow between the interior and exterior of the building envelope.

Mulled Unit
Two or more door units structurally joined together.

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.

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 can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information, go to www.P65Warnings.ca.gov/wood.

Materials and Patio Door Handling

- Make sure the operating panel is secured prior to installation.
- Swinging Patio Doors: engage the multi-point lock after installation.
- Heed material manufacturer's handling and application instructions.
- Protect adhesive surfaces from dirt, moisture, direct sunlight and folding over onto themselves.
- Handle in a vertical position; do not drag on the floor.
- **DO NOT** put stress on the joints, corners or frames.
- Store patio door in a vertical, leaning position to allow air circulation; **DO NOT** stack horizontally.
- Ensure the storage area is dry, well-ventilated and **protected from exposure to direct sunlight**.
- Only install into vertical walls when conditions and sheathing are dry.

IF INJURY OCCURS, IMMEDIATELY SEEK MEDICAL ATTENTION!

MATERIALS AND TOOLS

JELD-WEN exterior window and door products should be installed in accordance with JELD-WEN's recommended installation directions, which are shipped with the products or can be found on our website: www.jeld-wen.com. **NOTE:** 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 with the substrates in the application.

Provided Materials

Some provided fasteners/screws could be left over depending on the product line. Reference section 5 for needed fasteners.

- Doors with a fiberglass sill may include fasteners for use in the sill. Follow the instructions in the fastening section for applicable uses.
- 2 - #8 x 2" head bracket replacement screws (for products with "**exposed**" fixed panel clip, not on all products).
- Strike plate screws to secure to the rough opening.

Needed Materials

- Wood: #8 x 2 1/2" flat-head, corrosion-resistant screws. Minimum embedment of 1 1/4" into the structural framing (or as required by local code).
- Masonry/Concrete: 3/16" x 2" self-tapping concrete screws. Must penetrate at least 1 1/4".
- **Siteline/W5500 product lines only:** #8 x 2" (min) pan-head, corrosion-resistant screws to replace the factory-applied 5/8" screws in the head track.
- Non-compressible, non-water degradable shims.
- Sill Pan: A pan flashing system (as defined in **ASTM E2112**) is **required** at the sill prior to window/door product installation. A sill pan should have a positive slope, **must be** installed onto the sill of the R.O. in a weather-tight manner and tied into the drainage plane of the building envelope. For sill pans without a positive slope, place a 3/16"-1/4" tall plastic shim 2" from each corner and no more than 8" on-center in between (excludes Canada and potentially large door systems). If an aftermarket sill pan is preferred, then we suggest the Manufacturer's instructions be followed.
- Sealant: An exterior grade (**High-Performing, Low VOC**) sealant is recommended for installation practices. Check with the sealant manufacturer for color-match options and paintability.
- Polyurethane Low-Expansion Window and Door Foam: A low-expansion, polyurethane window and door foam is recommended for installation practices. Avoid using moderate to high-expansion products as operational issues or damage may occur.
- Backer Rod: 1/8" larger than the widest portion of the gap (used in conjunction with sealant bead).
- Drip cap material (if not supplied) is required only for side-by-side mulled units that extend the length of the frame plus 1/8" overhang on each end.

Masonry Straps (if applicable)

- 20 ga. Galvanized Masonry Strap
- 2 - #8 x 1/2" pan-head, coated, corrosion-resistant screws for attaching masonry straps to the window.
- 2 - #8 x 2" pan-head, coated, corrosion-resistant screws for attaching masonry straps to the structure. Screws must penetrate at least 1 1/4" into structural framing.

Needed Tools

- Hacksaw or Cutting shears (sill pan)
- Tape measure
- Utility knife
- Level (4' minimum recommended)
- J-roller
- Caulking gun
- Drill
- Drill bits
- Screwdrivers

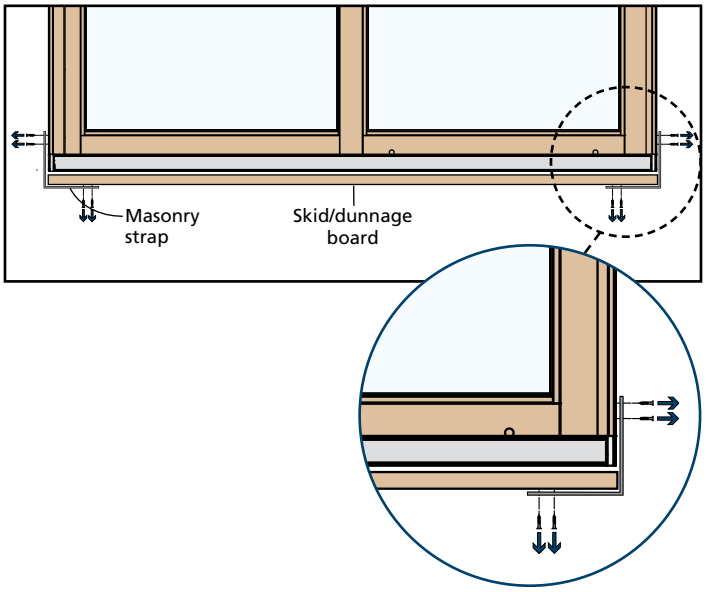
1 INSPECT PRODUCT

Remove Packaging/Shipping Materials

- Corner covers, skid/dunnage board, shipping blocks, strapping or pads.
- If a trimset/hardware bag is attached to the door, remove and place in a safe location.

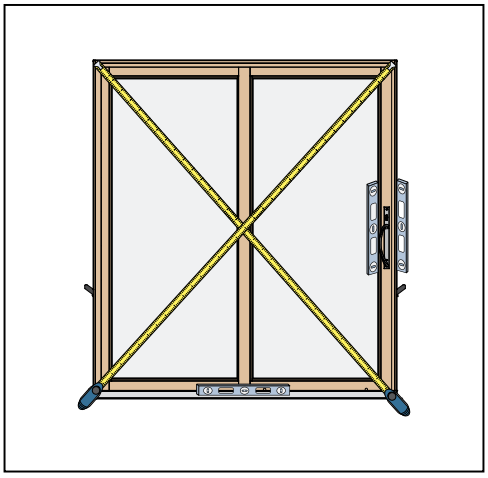
NOTICE

Door units that have masonry straps holding the shipping board in place will need to be removed prior to installation.



Inspect Patio Door

- Cosmetic damage and/or shipping damage.
- Manufacturing abnormalities (e.g., warp, bow, squareness).
- For side-by-side mulled units, a drip cap that extends the length of the frame.
- Correct product (size, color, grid pattern, handing, glazing, energy-efficiency requirements, etc.).
- Frame or panel damage.



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 (R.O.)

Weatherproofing of the rough opening, along with the flashing and proper integration of the fenestration product with the water-resistive barrier (WRB), is the responsibility of the installer. A drainage path to the water-resistive barrier (WRB) must be left open for water to exit from the required sill pan beneath the window/door product. For flanged products, no flashing should be applied over the bottom nail fin. For non-flanged products gaps in the exterior sealant joint should be left along the bottom. JELD-WEN recommends strict adherence to the current version of ASTM E2112.

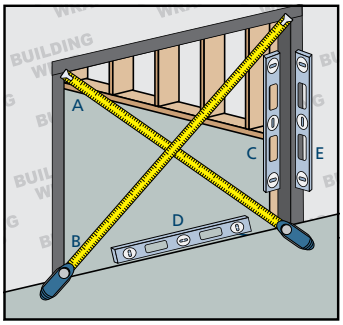
⚠CAUTION

The use of a sill pan and other barriers will decrease the rough opening height clearance. Adjust the opening dimensions accordingly.

Rough Opening Requirements

- Verify the width and height of the rough opening is 3/4" larger than the patio door width and height.
- Verify the rough opening is square. The (A) and (B) measurements should be the same. Suggested deviation from square is no more than 1/4".
- Verify the rough opening is level and plumb (C, D and E). Suggested deviation is no more than 1/4".
- The rough opening sill should not be crowned or sagged (D), but rather level or sloped (positive sloped) to the exterior.

Verify Square, Level and Plumb



- The exterior face of the rough opening should be in a single plane (E) with less than 1/8" twist from corner to corner.
- Minimum double studs (king and jack/trimmer) should be used to support the header at all rough openings.

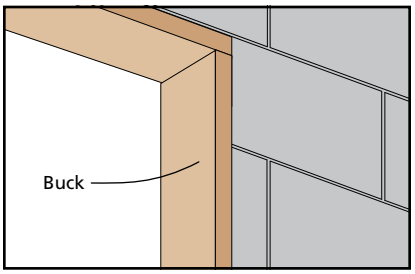
For Retrofit Installations

Verify the rough opening framing is structurally sound. Contact your local waste management entities for proper disposal or recycling of products being removed.

This installation guide only addresses masonry/block wall, sheathed wall and open-stud construction. If installing into an opening other than what is identified, consult a building professional.

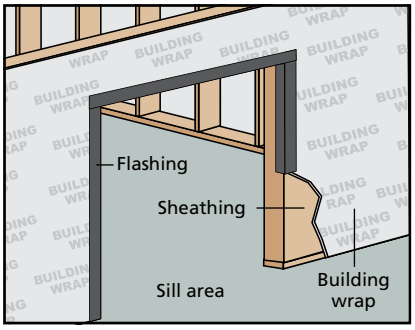
Masonry/Block Wall Construction

This installation assumes that a framework of studs (often called a buck) has already been properly fastened in a weatherproof manner to the concrete/masonry wall. The patio door will be installed into the buck in a weatherproof manner.



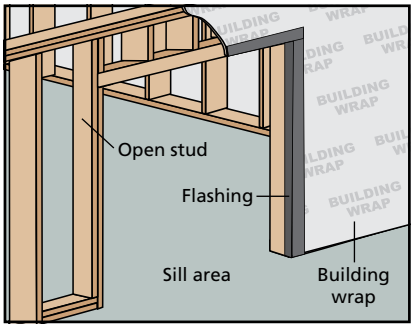
Fully Sheathed Wall Construction

Sheathing is applied to the exterior of the wall framing. The patio door will be mounted flush against the sheathing or building wrap in a weatherproof manner.



Open-Stud Construction

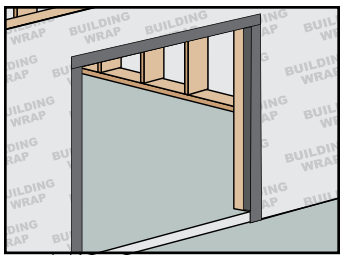
Sheathing is absent and building wrap is applied atop of the wall framing. The patio door will be mounted flush against building wrap and/or framing members (studs) in a weatherproof manner.



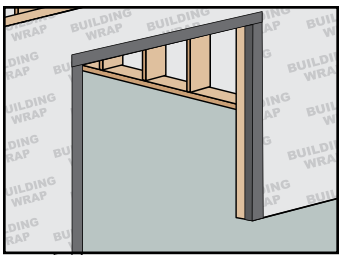
3 INSTALL SILL PAN

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



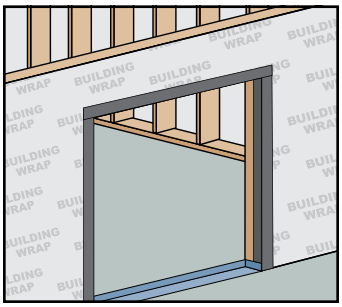
Continuous Slab Landing

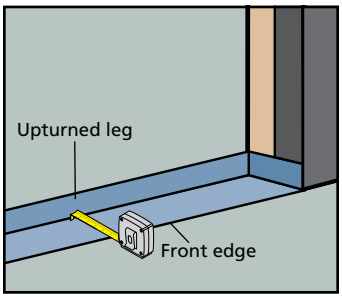
Prepare Sill

1. A pan flashing system (as defined in **ASTM E2112**) is **required** at the sill prior to window/door product installation. Always allow water to drain out of the pan and onto the building wrap, drainage plane or to the exterior.

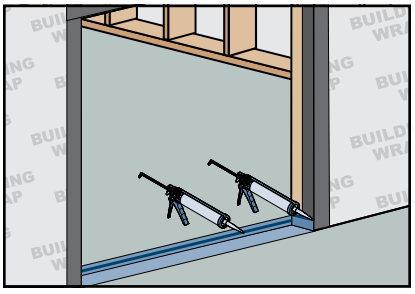
NOTE: Sill pans for step-down landings will have a folded-down edge in the front to accept the step-down landing.

2. Ensure you have the proper sill pan depth to door jamb depth. Measure from the upturned leg to the front edge of the sill pan. If needed, dry-fit the door to confirm the door will sit properly.





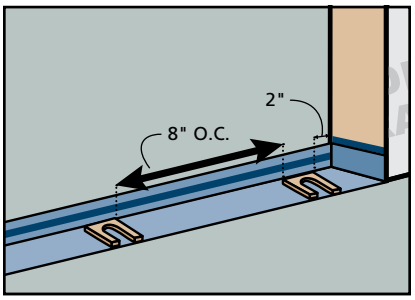
3. Apply a continuous bead of sealant to the interior upturned leg and end dams of the sill pan (if using a rigid sill pan).



Shim the Sill

See **Product Installation Tolerance Table** for tolerances.

1. Unless installing into a sill pan with a positive sloped draining system, shims should be aligned as defined by the label on the patio door or as stated below:



- Shims (1/4" maximum) should be placed near the exterior edge of the sill pan.
- Place one shim 2" from each side of the rough opening (if the rough opening is sized correctly, this should be approximately 1 1/2" - 2" from the corner of the patio door).
- Shims should be no more than 8" on-center.
- There should always be a drainage path to the exterior out of the sill pan.
- Shims can be held in place with sealant.
- Increased shim height may be needed or may interfere with bar/grill alignment of adjacent windows/doors.

4 TEMPORARILY FASTEN AND SHIM PRODUCT

⚠WARNING

To avoid injury, use at least 2-people to install. Adequately support the door until fully installed.

1. Tilt the patio into the rough opening.
2. Temporarily fasten the patio door by placing a fastener 4" from the upper corner (pre-drilling is recommended). **NOTE:** For larger units, both upper corners may need to be fastened to adequately hold the door unit.

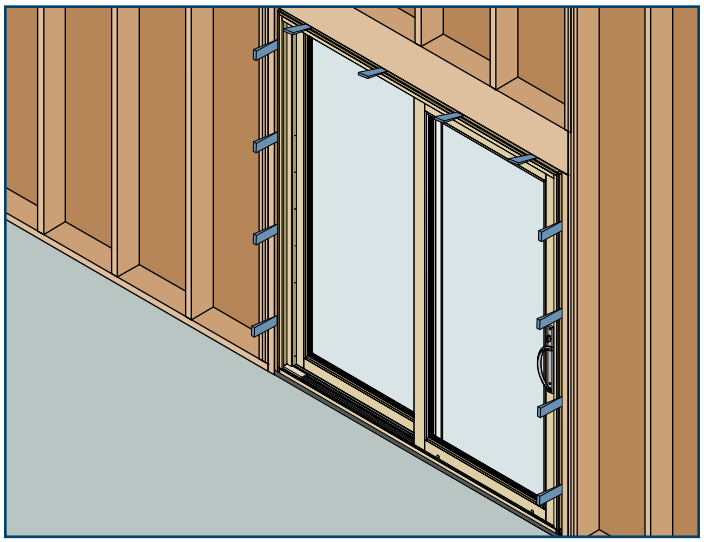
⚠WARNING

The first screw should be placed at the top corner rather than the bottom corner. Support is REQUIRED at all times.

Shim the Jambs

1. From the interior, shim 3" - 4" from each corner, at the center of the head jamb and both side jambs. **NOTE: Each location should be shimmed with two opposing shims (if tapered). Secure all shims with sealant.**
2. Evaluate the door position within the opening for plumb, level, square and twist. See **Product Installation Tolerance Table** for tolerances.

Product Installation Tolerance Table Products must be installed in a manner that **Does Not** exceed the tolerance below.	
Plumb	+/- 1/8"
Level	+/- 1/8"
Twist	+/- 1/8"
Square	+/- 1/8" product sized up to 20 sq. ft. +/- 1/4" product sized over 20 sq. ft.



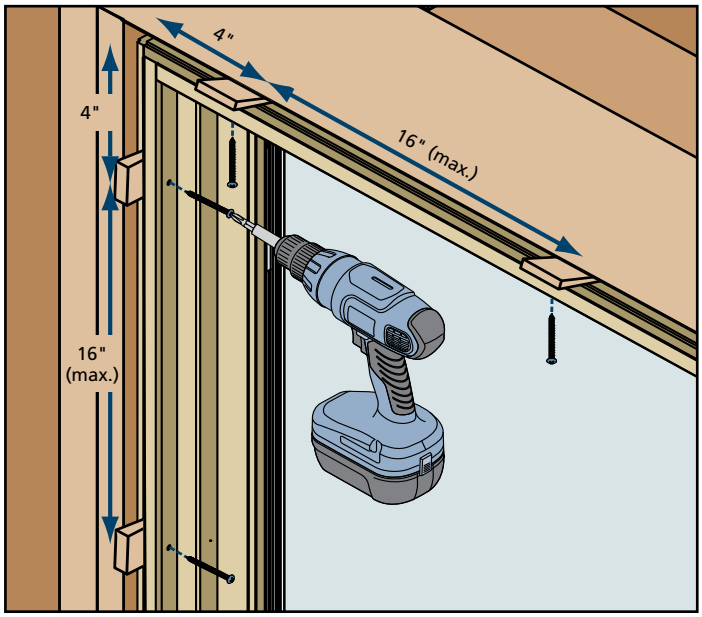
3. Add additional shims as necessary to ensure proper support and alignment of the door frame. Larger door frames need additional shims.
4. For 2 panel door configurations, place additional shims between the door frame and rough framing where the strike plate is located. The longer strike plate screws should penetrate through the shims.
5. Temporary fasteners can be used to hold the product within tolerance until properly fastened.
6. Test for operation. Remove and reinstall if necessary.

5 FASTEN PRODUCT (SIZE AND SPACING)

Doors with exterior trim must be fastened through the frame. On the interior, place a screw 4" from the corners and 16" (max.) along the head and side jambs. **NOTE:** A shim should be used at each fastener location to prevent frame deflection.

Secure Patio Door

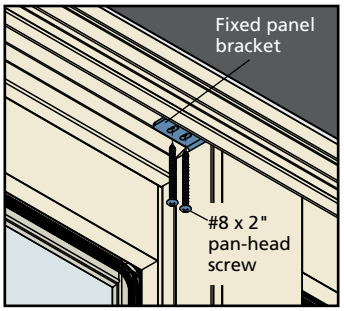
1. Fasten the patio door through the frame 4" from the corners and 16" (max.) on-center along the head and side jambs.



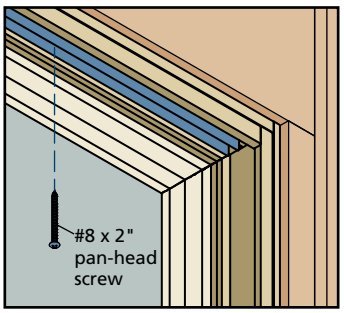
2. For doors with a strike plate against a jamb, fasten with provided 3" screws through the holes in the strike plate, replacing the existing strike plate screws if necessary. Does not apply to center post latched doors.

Siteline and W5500 Product Line ONLY

1. For doors with an exposed fixed panel bracket, back out the visible screws from the bracket and replace with a #8 by 2" (or longer) pan-head screw.



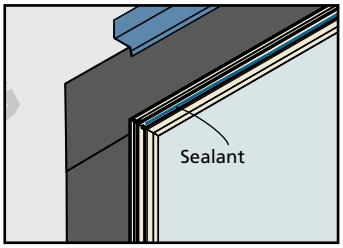
2. Replace the factory-applied 5/8" head track screws with #8 x 2" pan-head, corrosion-resistance screws. **NOTE:** Shim at these locations as needed to prevent frame deflection.

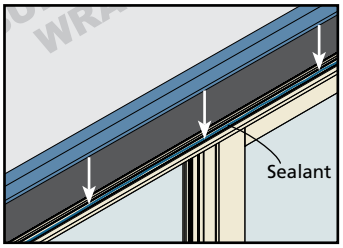


6 INSTALL DRIP CAP

Apply Drip Cap (doors with and without factory applied trim)

1. Apply 1/4" bead of sealant to the head of the door frame or to the top of the trim as shown.
2. Position the drip cap above the door/trim to allow for 1/8" overlap on each end.





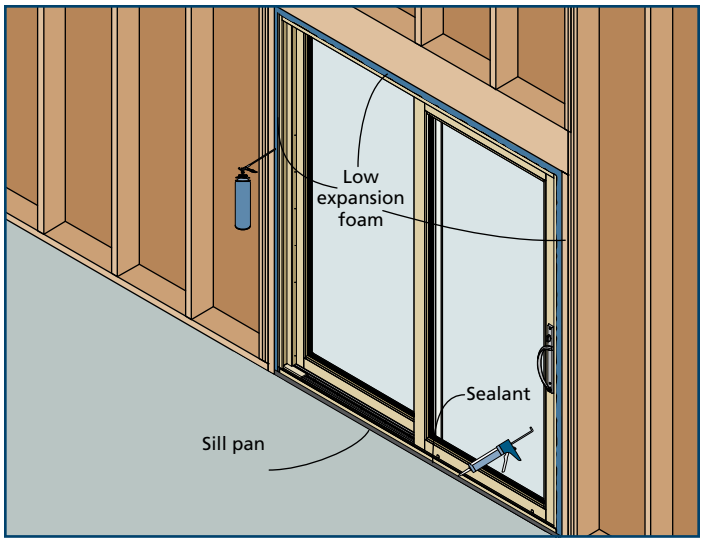
3. Apply sealant underneath the drip cap where it meets both ends of the trim.
4. If sealant is applied above the drip cap, ensure the sealant bead is discontinuous to allow for drainage.

7 CREATE INTERIOR AIR SEAL

Continuous "Interior" Air Seal

NOTE: Shims may need to be cut back 1/4" – 1/2" from the interior face of the main door frame, so the interior air seal is "**continuous**" between the patio door frame and the rough opening.

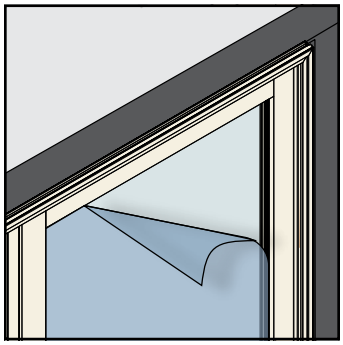
Create a **required** continuous air seal on the interior by integrating the rough opening and the patio door frame with low-expansion polyurethane foam or backer rod and sealant. **NOTE:** If foam is used, a 1/2" - 1" depth is prescribed. Backer rod can be used to control the depth.



8 REMOVE PROTECTIVE FILM

NOTICE

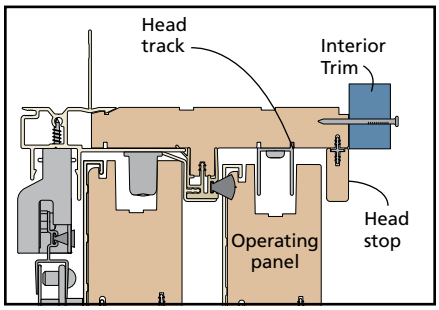
If applicable, remove any protective film immediately from all surfaces of the frame/panel and within six months from any glass.



9 AFTER INSTALLATION

Weatherproofing of the rough opening, along with the flashing and proper integration of the fenestration product with the water-resistive barrier (WRB), is the responsibility of the installer. A drainage path to the water-resistive barrier (WRB) must be left open for water to exit from the required sill pan beneath the window/door product. For flanged products, no flashing should be applied over the bottom nail fin. For non-flanged products gaps in the exterior sealant joint should be left along the bottom. JELD-WEN recommends strict adherence to the current version of ASTM E2112.

- **DO NOT** nail interior trim to the head stop.
- If the panel is difficult to operate, check for shipping blocks under the panel or adjust the rollers.
- **Ensure weep holes/ channels are clear of debris for proper water drainage. DO NOT seal weep holes/channels.**



- Seal any gaps or openings at end of horizontal mull joints with sealant.
- Install lock set hardware per manufacturer's instructions.
- Leave an expansion/contraction gap of approximately 3/8" between the door frame and the final exterior wall surface (siding, stucco, etc.).
- Finish all exposed wood surfaces **immediately** following installation.
- Review and heed all directions on labels.
- On the exterior of the step-down landings, install support trim underneath the sill where it extends past the landing. **DO NOT** apply sealant between the trim and the sill.
- Protect recently installed units from damage from plaster, paint, mortar, acid wash, etc. Refer to the most current version of **AAMA CW-10** for guidance on the proper Care and Handling of aluminum-clad windows and doors.

Please refer to our product guide: JPG012 on jeld-wen.com for lock adjustments.

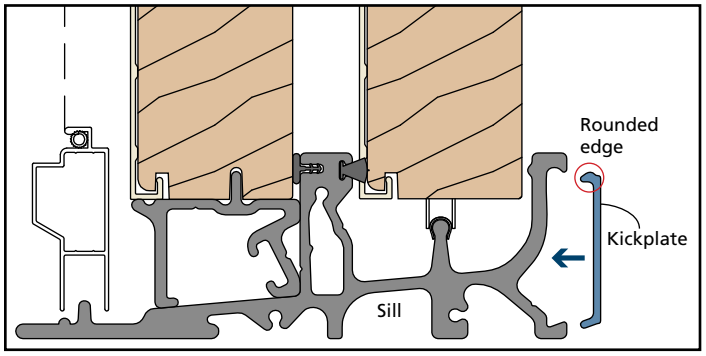
Adjust Sliding Door Panel Rollers

NOTES TO CONSIDER:

- Locate the roller adjustment screw holes along the bottom of the active panel.
- With the use of an extra person or a small pry bar, lift the panel to take weight off the rollers.
- Use a Phillips screwdriver to rotate the adjustment screws (counterclockwise to raise and clockwise to lower).
- Adjust the panel high enough to avoid drag. Keep the door panel parallel to the jamb by almost closing the door and looking for an even reveal/gap.
- To assist with the operation, apply a dry silicone spray to a rag and wipe the stainless-steel roller sill track and head track. Additionally, inspect the head track screws to ensure they are **snug** and not overdriven/tight.

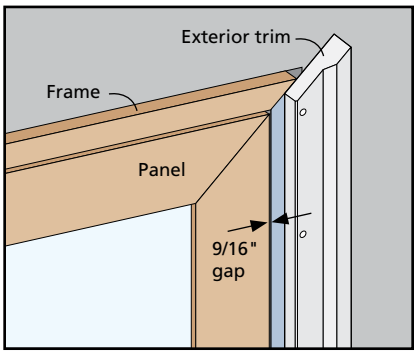
Gen. 1 - Fiberglass Sill with Kickplate

- Locate the kickplate taped on the glass.
- The kickplate will be applied to the interior of the sill to provide a more finished look.
- Insert the bottom leg of the kickplate first and then push the top-rounded edge flush with the sill. Tap the kickplate into position with the aid of a non-marring mallet.



Install Exterior Trim

When applying exterior trim **after** the door has been installed, follow the recommended steps below:



- Measure and pre-cut to fit the frame.
- Position the trim to allow an approximate 9/16" reveal from the interior perimeter of the frame.
- Secure the trim with 2 1/2" casing nails.
- Apply caulking at the trim to the door frame joint. Putty or caulk over the nail heads.
- Apply exterior grade finish to door and/or trim.

9 AFTER INSTALLATION (CONTINUED)

For care and maintenance information, please scan the QR code or reference Care and Maintenance for Wood Windows and Patio Doors (JCM003) at www.jeld-wen.com.

For product guide information, please scan the QR code or reference Wood Patio Door Product Guide (JPG012) at www.jeld-wen.com.

For patio door panel removal and installation information, please scan the QR code or reference Sliding/Gliding Patio Door Panel Removal and Installation (SVC008) at www.jeld-wen.com.

For Siteline Quad Panel information, please scan the QR code or reference Supplemental Assembly Instructions for Siteline Quad Panel Sliding Patio Doors (SVC006) at www.jeld-wen.com.

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

Thank you for choosing

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