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 patio door in a weather-tight manner and uses a sill pan to capture and drain incidental storm water from under the patio door.

Thank you for selecting JELD-WEN products. Attached are JELD-WEN's recommended installation instructions for Vinyl Patio Doors with 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.

Not all patio 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! Any patio door installation such that 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 peak and valleys) 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**

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

**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, which serves 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.

**Score**
Make a cut mark in the same location multiple times.

**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 frame.

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

**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.

**REVERSE PATIO DOOR HANDING**
Only pre-installed 6’8” and 6’10” Builders sliding patio doors without blinds between the glass that have weep holes on the top and bottom are reversible, or specially designed to be converted to be opened either from the left or the right. Patio doors that are set up for left hand operation (door opens from the left on the exterior) or vice versa, can be converted to open from the opposite side by following the instructions in our document SVC001, available at www.jeld-wen.com. Do not install the patio door until after completion of the reversing instructions and the fixed panel is on the desired side. Please contact us with questions:

Email: customerserviceagents@jeld-wen.com
Phone: (800)-JELD-WEN/(800)-535-3936
This installation guide specifically addresses sheathed wall and open-stud construction.

FULLY SHEATHED WALL CONSTRUCTION

The wall framing is covered by sheathing. This installation assumes building wrap is properly installed over the sheathing and the door will be mounted with the nailing fin flush against the building wrap.

SAFETY AND HANDLING

SAFETY

- Read and fully understand ALL manufacturers’ 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.

MATERIALS AND PATIO DOOR HANDLING

- Make sure the operating panel is secured prior to installation.
- 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.
- 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.
- Only use recommended sealants on vinyl products.

IF INJURY OCCURS, IMMEDIATELY SEEK MEDICAL ATTENTION!

PROVIDED MATERIALS

4 - #10 x 2 1/2" screws (to secure the strike plate)

NEEDED MATERIALS

Note! 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.

- #8 x 1 1/4" (minimum) washer head or pan head corrosion-resistant screws (stainless steel recommended); fasteners must penetrate at least 1" into framing.
- Non-compressible or water degradable shims.
- 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.
- Sealant: If left exposed use 100% silicone. If painted use a polyurethane such as OSI® TeQ::Seal™ or Protecto Wrap Protecto Sealant 25XL or equivalent.
- Backer rod 1/3 larger than gap (used in conjunction with sealant bead).

MATERIALS AND TOOLS

- Polyurethane low expansion Window and Door foam (such as OSI® TeQ::Foam™ or Dow Great Stuff™ Window and Door or equivalent).
- 4", 6", or 9" (as required by local code) wide self-adhesive flashing (such as OSI® TeQ::Flash™ butyl or Protecto Wrap BT25XL or equivalent 100% butyl flashing.
- Spray Adhesive/Primer. Recommended as a best practice to promote initial and/or adverse condition adhesion, or if required by the self adhesive flashing manufacturer.
- For step-down landings only: Plastic drain screen with crisscross or woven pattern (sold in 6" widths to protect rain gutters) and 3/8" staples. The drain screen provides a path for air to dry any incidental moisture in the rough opening.
- Drip cap material, if not supplied, required only for side-by-side mulled units that extends the length of the frame plus 1/8" overhang on each end.

NEEDED TOOLS

- Hacksaw (used only for SureSill sill pan)
- Cutting shears (used only for fabricated sill pan)
- Tape measure
- Utility knife
- Level (4 ft. minimum recommended)
- J-roller
- Caulking gun
- Drill with bits
- Construction stapler
1. REMOVE PACKAGING AND INSPECT PATIO DOOR

REMOVE PACKAGING
Remove shipping materials such as corner covers, shipping blocks or pads.

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.).

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 level and plumb (C). The maximum allowable deviation is 1/8”.
• The rough opening sill must not be crowned or sagged (D).
• 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.

3. INSTALL 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”.

JOBSITE FABRICATED SILL PAN
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 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 this 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.
INSTALL SILL PAN - CONTINUED

1. Set the sill pan in the rough opening, aligning the front edge (for continuous slab) 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.

3. Apply three 3/8" beads of sealant between the lines.

4. Place the sill pan in the rough opening. Firmly press the sill pan into the sealant with a J-roller.

FOR RETROFIT INSTALLATIONS

Remove the old patio door. Add at least 2" to the width of the flashing and use that measurement to remove trim/siding and expose intact building wrap. If damaged, apply new building wrap in a shiplap manner. Verify trimmer studs and header are structurally sound. Continue with the instructions.

PREPARE BUILDING WRAP

Verify these steps are allowed by the building wrap manufacturer.

Note! Steps 1 and 2 apply only to new construction.

1. Trim building wrap flush with the edges of the rough opening.

2. Slit building wrap corners 45° as shown and high enough to allow flashing to adhere to sheathing (usually at least 1" higher than the width of the flashing). Tape up as shown.

INSTALL JOBSITE FABRICATED SILL PAN

Note! The rest of the steps in this section only apply to a job site fabricated sill pan. If installing a sill pan that you have purchased, follow manufacturer’s instructions for installation and skip to section 5, “INSTALL PATIO DOOR.”

1. If installing a metal sill pan on concrete, cut a piece of self-adhesive flashing the length of the sill pan and adhere it to the entire bottom surface where the pan will sit on the concrete.

2. If fasteners are required through the sill, apply spray adhesive/primer to the sill pan and surrounding area. Follow spray adhesive manufacturers’ instructions for application methods.

3. Cut a piece of self-adhesive flashing the length of the sill and apply over the entire sill pan. For step down landings, fold flashing down as shown. For continuous slabs, trim flush with rough opening.

4. Cut two pieces of self-adhesive flashing 6" wide by the sill pan width + 3" long.
   a. For continuous slab landings only, cut out the inside corner.
   b. Adhere the pieces of flashing to the inside corners. Stretch flashing as needed to cover corners and lay flat.

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

6. Seal back corners of sill pan with sealant.

7. For step-down landings only, cut plastic drain screen to length of sill + 2", center, and staple 1/2" below sill edge.
INSTALLATION INSTRUCTIONS
for Vinyl Patio Doors with Integral Nailing Fin (JII006)

5

INSTALL PATIO DOOR

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

1. For continuous slab landings only, score and remove nailing fin at sill.
2. If installing a pre-formed sill pan, follow manufacturer’s instructions and skip this step. If installing a job site fabricated sill pan, run a continuous 3/8” bead of sealant along the sill pan back dam. When the frame is installed, make sure the frame makes solid contact with the sealant. Add more sealant if necessary.
3. Shim the head jamb 4” from the corners of each panel.
4. Confirm the patio door for square, level, and plumb. Test for proper operation (remove and reinstall if necessary).

SECURE PATIO DOOR

Note! Fastener heads must be flush. Do not dent nailing fin. Always use pre-punched holes or pre-drill with a 3/16” bit.
Patio doors will be fastened according to performance rating. This rating is located on the gold AAMA label fixed somewhere on the frame, generally in the head jamb. Look for something like this example: R-PG20-3645X2426 (144X96)-SD. If this label is missing, use the PG35 and above fastener pattern below. Fasten through nailing fin holes as follows:
• PG20—4” from the corners and every 12” on center.
• PG35 and above—4” from each corner and every 8” on center.

SHIM THE JAMBS

Note! Secure all shims with sealant.

1. From the interior, shim the operating panel side jamb 4” from the corners and at the strike plate. Align shims so that strike plate screws (installed later) will each penetrate a shim.
2. Shim the stationary panel side jamb 4” from the corners and at center.

Applying spray adhesives/primer

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

6

FLASH PATIO DOOR

PREPARE FLASHING

Cut pieces of self-adhesive flashing to length as follows:

<table>
<thead>
<tr>
<th></th>
<th>4” Flashing</th>
<th>6” Flashing</th>
<th>9” Flashing</th>
</tr>
</thead>
<tbody>
<tr>
<td>One header piece</td>
<td>10” longer</td>
<td>14” longer</td>
<td>20” longer</td>
</tr>
<tr>
<td></td>
<td>the header</td>
<td>the header</td>
<td>the header</td>
</tr>
<tr>
<td>Two side pieces</td>
<td>for continuous slab landings, 3” longer than the sides, or for step-down landings, 3” + the height of the step</td>
<td>for continuous slab landings, 5” longer than the sides, or for step-down landings, 5” + the height of the step</td>
<td>for continuous slab landings, 8” longer than the sides, or for step-down landings, 8” + the height of the step</td>
</tr>
<tr>
<td>For step-down landings only, one sill piece</td>
<td>6” longer than the sill and 1” narrower than the height of the step</td>
<td>10” longer than the sill and 1” narrower than the height of the step</td>
<td>16” longer than the sill and 1” narrower than the height of the step</td>
</tr>
</tbody>
</table>
1. Apply the self-adhesive flashing:
   - Keep the edge of the self-adhesive flashing as close to the patio door frame as possible.
   - If applicable, center and apply the sill piece underneath the sill (bottom 1/2" of the drain screen must remain visible). Trim drain screen and/or flashing as necessary to fit the specific wall condition.
   - Apply the side pieces at a point above the head jamb that is 1" less than the width of the flashing and proceed downward along the side jambs.

3. Seal the upper corners of the patio door to flashing with a 1/4" bead of sealant. Tool into a fillet shape.

2. Release the building wrap from above the header (previously taped up) and overlap the header flashing. Seal the ends with self-adhesive flashing or building wrap tape.

4. Press the flashing down with a J-roller.

5. Do not allow gaps or bubbles beneath self-adhesive flashing (remove and replace if necessary).

6. For continuous slab landings, apply a 1/4" bead of sealant around the sill where it meets the slab. Leave gaps at the weep holes as shown.

7. Ensure sealant on back dam of the sill pan fully seals to the inside face of the door frame sill. Apply more sealant as necessary to ensure an airtight seal.

**SUPPORT TRIM (STEP-DOWN LANDING ONLY)**

On the exterior, install support trim underneath the sill where it extends past the landing. Position trim snugly against the underside of the door frame.

**INSTALL BUMPER (WHERE APPLICABLE)**

For Builders vinyl series doors, install the bumper in the stationary panel side jamb at vertical center using the 1" self-tapping screw provided.

For Premium vinyl doors, locate the bumper in the hardware pack and install so that it lays over the track and against the jamb opposite the operating panel as shown.
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. Builders doors have an adjustment screw on each lower end of the operating panel(s). Premium doors have access holes on the face of each lower end of the operating panel(s). Remove small vinyl plugs from each hole (if present).

2. Open operating panel enough to expose a 1/4” gap between the panel and frame jamb. Verify the gap is even along the entire height of panel to frame. If uneven, adjust by referring to the following steps.

3. Using a #2 Philips 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.

**Lock Adjustment**

**Note!** If the strike plate was not previously installed, line up the screw holes with the dimples in the operating panel side jamb and drive screws through the two slotted screw holes.

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) 1/2 turn increments: clockwise to loosen or counterclockwise to tighten. Premium doors have a double latch and two adjustment screws.

**Note!** Builders roller adjustment screws are in close proximity to the attachment screw. Adjust only the lower screw (as shown); loosening the attachment screw will detach the roller from the operating panel.
FINISH INSTALLATION

1. Drive two #10 x 2 1/2" screws (included in hardware pack) through the open screw holes in the strike plate.
2. Remove the pre-installed screws from the strike plate and replace them with the remaining #10 x 2 1/2" screws from the hardware pack. This will increase security by attaching the patio door to the structure.

CONTINUOUS AIR SEAL

Create a continuous air seal on the interior between the rough opening and the door frame with backer rod and sealant or low expansion foam. Allow the foam to fully cure and cut flush with a sharp knife. Make sure the foam cuts cleanly and doesn’t tear.

AFTER INSTALLATION

1. Install exterior wall surface per manufacturer’s guidelines.
2. Seal any gaps or openings at end of horizontal mull joints with sealant.
3. Maintain gap of 1/4" - 3/8" between door frame and final exterior wall surface (siding, stucco, etc.). For a finished look and additional protection, seal this gap on the sides with backer rod and sealant. If sealant is applied above the drip cap ensure the sealant bead is discontinuous to allow for drainage.
4. 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 JELD-WEN.
Thank you for selecting JELD-WEN products. Attached are JELD-WEN’s recommended installation instructions for vinyl patio doors without nailing fin, including flush 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.

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 in a weather-tight manner and uses a sill pan to capture and drain incidental storm water from under the patio door.

Not all patio 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!** 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.

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**的重要信息和词汇表**

所有类型的露台门可能都需要根据每种墙壁条件在所有区域安装。请咨询您当地建设法规指定的适用建筑规范和条例。当地建设法规要求超出推荐的安装说明。

请注意！任何露台门安装，当门槛高于35英尺地面或安装于未在这些说明中特别提及的墙壁条件时，必须由建筑师或结构工程师设计。

安装时，平安装在平面上（没有扭曲或变形）以防止保修索赔中的操作或性能问题。

请注意安装人员：提供这些说明的副本给建筑业主。通过安装此产品，您承认保修条款作为销售条款的一部分。

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**重要信息和词汇表**

不是所有露台门类型都可以安装到每个墙壁条件在所有区域。咨询您当地建设法规官方，适用建筑规范和条例。本地建设法规要求超过推荐的安装说明。

**请注意！**任何露台门安装，当门槛高于35英尺地面或安装于未在这些说明中特别提及的墙壁条件时，必须由建筑师或结构工程师设计。

安装时，请确保安装在平面上（没有扭曲或变形）。

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**词汇表**

**背衬杆（背衬材料）**

一种材料（如泡沫杆），放置于接头以控制密封材料的深度。

**桶**

一种木制框架，安装于窗户或露台门的粗糙开口的砌筑物内。

**连续空气密封**

背衬杆和密封剂或低膨胀泡沫应用于接头的内侧和外侧，以防止气流在接头的内侧和外侧之间流动。

**探孔**

一个钻孔，其直径小于螺钉的主体（不包括螺纹）。

**计分**

在相同位置多次标记。

**衬板**

层压方法，其中每层覆盖在下面的一层，使得水流到外面。

**门槛**

一个闪光组件安装在门槛的粗糙开口下。门槛有向上的侧壁，接头的内侧和外侧。两端各创建一个盒子。该组件作为水收集装置，将水从接头的外侧导向外部。该门槛设计具有向外部的正斜坡，提供连续的支持到门的门槛。

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**水孔（水道）**

可见的出口或入口部分，用于将水排出门框。

**逆向露台门操作**

只有预安装的6’8”和6’10”建之滑动露台门，其玻璃上没有水孔，顶部和底部是可互换的（专门设计用于在左侧和右侧打开，或者反之亦然）。露台门设置为使用左手操作（门从左侧打开），然后安装逆向操作的说明，并且固定面板在所需的左侧。请随时联系我们，解决问题：

**电子邮件**：customerserviceagents@jeld-wen.com
**电话**：(800)-JELD-WEN/(800)-535-3936

请确保在准备粗糙开口和安装露台门之前，留出足够的时间，以确保其正常运行。

**估计安装时间**

新建筑

- 首次安装：1.75小时
- 经验丰富的：1.25小时
- 专业：0.75小时

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**安装说明**

这些说明覆盖两种露台门门槛条件：**阶梯式露台**和**连续的板式**。安装方法会根据不同的门槛类型有所不同。

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**陆地**

这些说明适用于两种露台门门槛条件：**阶梯式露台**和**连续的板式**。安装方法会根据不同的门槛类型有所不同。

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新建筑

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- 经验丰富的：1.25小时
- 专业：0.75小时

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**安装说明**

这些说明覆盖两种露台门门槛条件：**阶梯式露台**和**连续的板式**。安装方法会根据不同的门槛类型有所不同。

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**逆向露台门操作**

只有预安装的6’8”和6’10”建之滑动露台门，其玻璃上没有水孔，顶部和底部是可互换的（专门设计用于在左侧和右侧打开，或者反之亦然）。露台门设置为使用左手操作（门从左侧打开），然后安装逆向操作的说明，并且固定面板在所需的右侧。请随时联系我们，解决问题：

**电子邮件**：customerserviceagents@jeld-wen.com
**电话**：(800)-JELD-WEN/(800)-535-3936

请确保在准备粗糙开口和安装露台门之前，留出足够的时间，以确保其正常运行。

**估计安装时间**

新建筑

- 首次安装：1.75小时
- 经验丰富的：1.25小时
- 专业：0.75小时
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.

SAFETY AND HANDLING

SAFETY

- Read and fully understand ALL manufacturers’ 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.
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MATERIALS AND PATIO DOOR HANDLING

- Make sure the operating panel is secured prior to installation.
- 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.
- 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

PROVIDED MATERIALS

- 4 - #10 x 2 1/2" screws (to secure the strike plate)
- Vinyl caps to cover screw holes

NEEDED MATERIALS

Note! 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.

- #8 x 1 1/4" (minimum) washer head or pan head corrosion-resistant screws (stainless steel recommended). Fasteners must penetrate at least 1" into framing.
- 3/16" x 2 1/2" self-tapping concrete screws (if required to secure the sill into concrete/masonry).
- Non compressible or water degradable shims.
- 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 can be fabricated on site from metal or vinyl sheet material with the proper tools.
- Sealan:t: If left exposed use 100% silicone. If painted use a polyurethane such as OSI® TeQ::Seal™ or Protecto Wrap Protecto Sealant 25XL or equivalent.
- Backer rod 1/3 larger than gap (used in conjunction with sealant bead).
- Polyurethane low expansion Window and Door foam (such as OSI® TeQ::Foam™ or Dow Great Stuff™ Window and Door or equivalent).
- 4", 6", or 9" (as required by local code) wide self-adhesive flashing (such as OSI® TeQ::Flash™ butyl or Protecto Wrap BT25XL or equivalent 100% butyl flashing (for use with sill pan material).
- Drip cap if required because of door location and exposure. Doors with an adequate overhang (see our Appropriate Protection document at www.jeld-wen.com) may not need a drip cap. In addition to sill pans, SureSill™ also offers types of head flashing.

For installations into a Buck:

- Liquid applied flashing (Protecto Wrap LWM 200 or equivalent).
MATERIALS AND TOOLS - CONTINUED

NEEDED TOOLS

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

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. Flush fin doors will have a wood or cardboard support on the sill. Remove the support and then remove the nailing fin if present. To remove the nailing fin, score the nailing fin with a utility knife as close to the frame as possible, then bend back and forth until it snaps off.

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 mullled units, a drip cap that extends the length of the frame plus 1/8" overhang on each end is required.
- Included parts (See Parts List above)

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

FOR RETROFIT INSTALLATIONS

For finless/block frame doors, remove the entire old patio door. Removing the exterior wall surface is not necessary if the opening has been evaluated to be structurally sound and water tight. Repair any problems before continuing.

For flush fin doors, remove the old door panels and the sill. Remove enough of the bottom of both side jambs to allow for a sill pan to be installed - details in following section.

ALL INSTALLATIONS

- Verify the width and height of the patio door are each 1/2" - 3/4" smaller than the rough opening width/height. Mullled 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 level and plumb (C) and (D). The maximum allowable deviation is 1/8".
- The rough opening sill must not be crowned or sagged (D).
- 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.

Verify Square, Level, and Plumb

A B C D E
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. If installing a SureSill™ sill pan, follow SureSill’s™ instructions for installation and skip to section 4 “PREPARE BUCK”, or to section 5, “PREPARE STUD-FRAMED WALL” as it applies to your situation. If fabricating a sill pan on the job site, follow the instructions below.

JOBSITE FABRICATED SILL PAN

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 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 this line on both sides of the sheet material.
6. For continuous slab, cut across the folding line.

INSTALL SILL PAN

1. Set the sill pan in the rough opening, aligning the front edge (for continuous slab) 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.
3. Apply three 3/8” beads of sealant between the lines.
4. Place the sill pan in the rough opening. Firmly press the sill pan into the sealant with a J-roller.

INSTALL SILL PAN

7. Fold the three back sides up to make a 3-sided box, and, for step-down landings, fold the front flap down.
5. If fasteners are required through the sill, cut a piece of self-adhesive flashing the length of the sill and apply over the entire sill pan. For step down landings, fold flashing down as shown. For continuous slabs, trim flush with rough opening.

6. Cut two pieces of self-adhesive flashing 6" wide by the sill pan width + 3" long.
   a. For continuous slab landings only, cut out the inside corner.
   b. Adhere the pieces of flashing to the inside corners. Stretch flashing as needed to cover corners and lay flat.

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

8. Seal back corners of sill pan with sealant.

9. For step-down landings only, allow for the drainage and drying of incidental moisture out of the rough opening. Do not apply sealant to the face of the sill and/or trim pieces so that they block water drainage.

End of Stud-Framed Wall Instructions, continue with section 6, "INSTALL DOOR."

PREPARE BUILDING WRAP

Verify these steps are allowed by the building wrap manufacturer.

**Note!** Steps 1 and 2 apply only to new construction.

1. Trim building wrap flush with the edges of the rough opening.

2. If the door extends beyond the exterior plain of the building and a drip cap is desired, at the head, slit building wrap 6" at 45°. Tape up as shown. We recommend installing a drip cap because this integrates the building wrap and drip cap to protect the structure and the product from incidental water.

**Note!** The rest of the steps in this section only apply to a job site fabricated sill pan. If installing a sill pan that you have purchased, follow manufacturer's instructions for installation and skip to section 6, "INSTALL DOOR."

3. If installing a metal sill pan on concrete, cut a piece of self-adhesive flashing the length of the sill pan and adhere it to the entire bottom surface where the pan will sit on the concrete.

4. Apply spray adhesive/primer to the sill pan and surrounding area. Follow manufacturer's instructions for application methods.
Warning! To avoid injury, use at least two people to install. Adequately support the door until fully installed.

IF INSTALLING A FLUSH FIN PATIO DOOR

If installing a door with a flush fin, apply at least one continuous 3/8” bead of sealant to the exterior face of the jambs and head. Continue with the instructions.

ALL INSTALLATIONS

1. If installing a pre-formed sill pan, follow manufacturer’s instructions and skip this step. If installing a job site fabricated sill pan, run a continuous 3/8” bead of sealant along the sill pan back dam. When the frame is installed, make sure the frame makes solid contact with the sealant. Add more sealant if necessary.

2. Tilt the frame into the rough opening. Adequately support the frame until fully installed.

3. Align the exterior of the frame, or flush fin, with the most exterior surface of the structure (the exterior face of the concrete wall, framing or sheathing).

SHIM THE JAMBS

Note! Secure all shims with sealant.

3. From the interior, shim the head and side jambs 4” from the corners and at the strike plate so that strike plate screws (installed later) will each penetrate a shim. Shim so the door is square, level and plumb.

Patio doors will be fastened according to Performance Grade (PG) rating. This rating is located on the gold AAMA label fixed somewhere on the frame. Look for something like this example: R-PG20-3645X2426 (144X96)-SD. Mark fastener locations in the interior frame track of the side jambs and head as follows:

- PG20--4” from each corner and every 24”.
- PG35--4” from each corner and every 18”.
- PG50 and above--4” from each corner and every 12”.

4. At each fastener location, insert shims and only through the first wall of the jamb, drill a 3/8” clearance hole. Then, drill a 1/8” pilot hole through the jamb wall, shim and into the framing.

5. Drive a washer or pan head screw through the shim located 4” from one lower corner.

6. Confirm the patio door is square, level, and plumb. Test for proper operation (remove and reinstall if necessary).

SECURE PATIO DOOR

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

1. At each remaining corner, fasten patio door through shims in the same manner above.

2. Drive screws through each of the remaining fastener locations.
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.

INSTALL BUMPER

For Builders vinyl series doors, install the bumper in the stationary panel side jamb at vertical center using the 1" self-tapping screw provided.

For Premium vinyl doors, the bumper lays over the track and against the jamb opposite the operating panel.

INSTALL DRIP CAP - OPTIONAL UNLESS REQUIRED BY LOCAL CODE

We recommend as a best practice to install a drip cap. For finless doors, use z flashing and integrate into the weather barrier. For doors with a flush fin, cut a groove in stucco, fill with sealant and insert horizontal leg of drip cap.

Components shown after installation is complete.
3. Using a #2 Philips head screwdriver, turn the adjustment screw clockwise to raise the panel, and counterclockwise to lower the panel.

4. Premium vinyl doors may have different types of rollers. To identify the roller, look inside the adjustment hole. If the roller has a plus (+) sign, clockwise rotations will lower the panel and counterclockwise will raise the panel. If the roller has a minus (-) sign, the operations are reversed.

5. Adjust as needed until interlocks, grid patterns and jambs line up.

6. Test the operating panel for proper operation.

7. Re-apply the small vinyl caps over the roller adjustment screw holes if applicable.

Lock Adjustment

**Note!** If the strike plate was not previously installed, line up the screw holes with the dimples in the operating panel side jamb and drive screws through the two slotted screw holes. 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. Premium vinyl doors have a double latch and two adjustment screws.
FINISH INSTALLATION

- Drive two #10 x 2 1/2” screws (included in hardware pack) through the open screw holes in the strike plate.

- Remove the pre-installed screws from the strike plate and replace them with the remaining #10 x 2 1/2” screws from the hardware pack. This will increase security by attaching the patio door to the structure.

CONTINUOUS AIR SEAL

Create a continuous air seal on the interior between the rough opening and the door frame with backer rod and sealant or low expansion foam. Allow the foam to fully cure and cut flush with a sharp knife. Make sure the foam cuts cleanly and doesn’t tear.

AFTER INSTALLATION

1. Cover the screw holes in the frame with the provided vinyl caps.
2. Install exterior wall surface (if applicable) per manufactures’ guidelines.
3. Seal any gaps or openings at end of horizontal mull joints with sealant.
4. For flush fin doors, apply sealant on the exterior where the flush fin meets the wall. For finless doors, seal the gap between the door frame and rough opening (or as wall detail dictates) with backer rod and sealant.
5. Protect recently installed units from damage from plaster, paint, etc. by covering the unit with plastic.
6. Remove labels or other materials adhered to glass within 30 days after installation.

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

Thank you for choosing JELD-WEN Windows & Doors