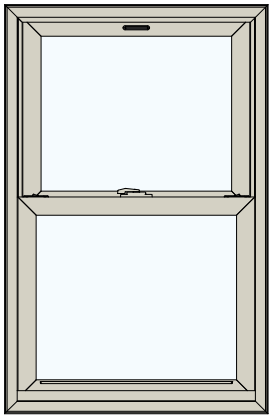
JELD-WEN

Installation Instructions

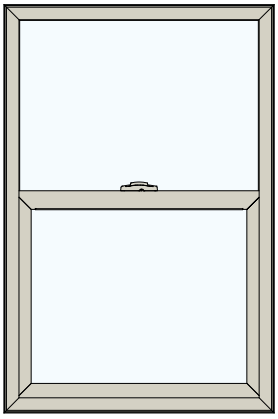
for Vinyl Windows without Nailing Fin (JII011)

Thank you for selecting JELD-WEN products. Attached are JELD-WEN's recommended installation instructions for vinyl windows without an integral nail fin (including finless, applied/non-integral flush fin and flange). Not all window 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. 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.

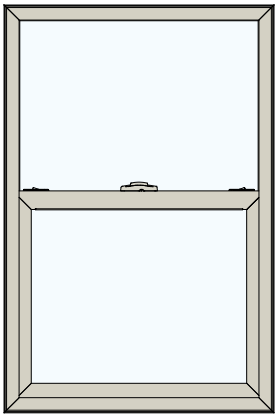
Double Hung



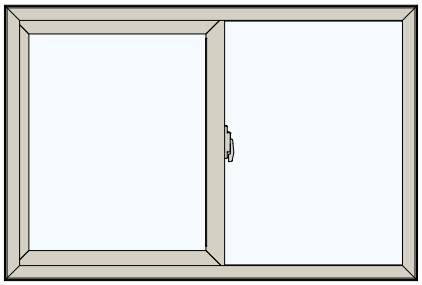
Single Hung (Side Load)



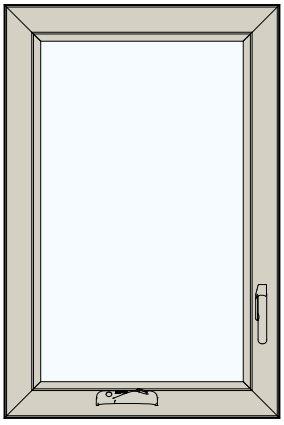
Single Hung (Tilt)



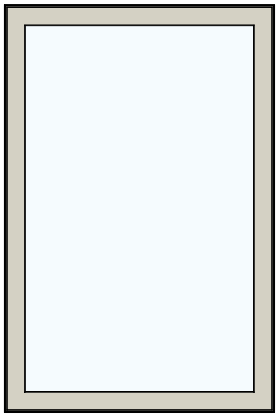
Horizontal Slider



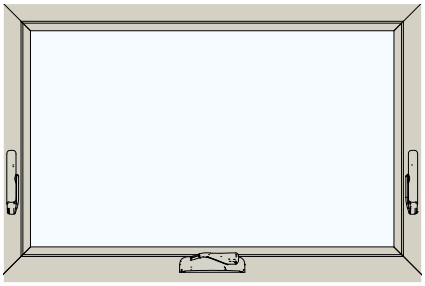
Casement



Picture



Awning



IMPORTANT INFORMATION | TABLE OF CONTENTS | 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: Installations where the sill is higher than 35 feet above ground level, or any product installation into a wall condition not specifically addressed in these instructions, must be designed by an architect or structural engineer. Failure to install windows into a square, level, and plumb openings 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 product warranty as part of the terms of the sale.

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 window and any related warranty claims could be denied on that basis.

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Glossary

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.

Finless Window
A window without a nailing fin commonly referred to as finless, replacement, block frame, box frame or pocket.

Flush Fin Window
A window without a nailing fin that has a face flange (trim only). Flush fin windows may also be known as flange, stucco flange or Florida flange windows.

Head Expander
A vinyl accessory used to cover the head of the window in some retrofit applications.

Installation Clip
A vinyl accessory that snaps into the accessory groove of some fixed windows used to secure the window to the rough opening.

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

Sill Adapter
A replacement frame component attached to the sill of a finless window being installed into an existing window frame with a sloped sill. The component cancels out the sloped sill of the existing double-hung, helping to support the front edge of the window sill.

Stop
The trim pieces on the frame that retains the sashes.

Weep Hole (weep channel)
The visible exit or entry part of a water drainage system used to direct and drain water out of a window.

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 the 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.

Window Handling

- Make sure operable windows are locked prior to installation.
- Heed material manufacturers' handling and application instructions.
- Handle in a vertical position; **DO NOT** carry flat or drag on the floor.
- **DO NOT** put stress on joints, corners or frames.
- Store window 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 instructions, which are printed on the product label 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.

Needed Materials

- #8 pan-head or washer-head, corrosion-resistant screw. Minimum embedment of 1 1/4" into the structural framing (or as required by local code).
- For securing the sill in masonry applications, 3/16" self-tapping concrete screws (gasket-head optional or as required by local code). Minimum embedment of 1 1/4" into the structural framing (or as required by code). Apply sealant to the self-tapping concrete screw threads and head of the screw.
- For Wind Zone 3 (WZ3) Products (Tilt Single Hung, Side Load Single Hung, Tilt Double Hung and Horizontal Slider Windows): #8 x 2 1/2" flat-head screws (**stainless steel required**) are needed to go through and anchor the bracket to the rough framing (two screws per bracket).
- 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 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 foam 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 for interior air seal).
- Non-compressible, non-water degradable shims.
- Drip cap (if not supplied).

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 the structural framing.

Additional Materials Needed if Installing into an Existing Window Frame:

- Composite or solid wood (cedar or redwood recommended) or exterior grade plywood for shimming.
  - If installing into an existing aluminum window, dimensions should be 1/2" shorter than the length of the sill track and 1/4" taller than the depth of the track.
  - If installing into an existing wood window, dimensions should be 1/4" thick, length of the existing frame sill minus 1" and the width of the new vinyl window side jamb minus 1/4".

Potential Needed Tools

- Utility knife/shears
- J-roller
- Hammer
- Tape measure
- Caulking gun
- Level (4' minimum recommended)
- Drill with bits
- Pry bar
- Screwdriver
- Hacksaw
- Putty knife

1 INSPECT PRODUCT

Remove Packaging

- Remove shipping materials such as corner covers, shipping blocks, shrink wrap or pads. If there is a protective film on the glass, **DO NOT** remove it until installation and construction are complete.
- **DO NOT** remove the installation label until after the inspection of the job is complete.

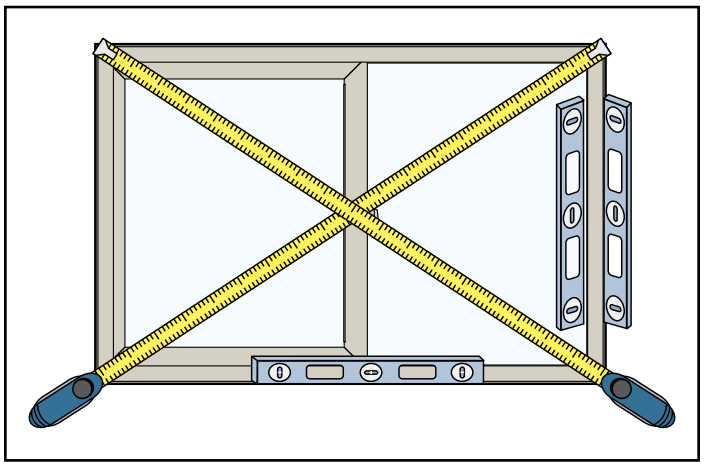
NOTICE

DO NOT open/close the sash until the window is installed and properly shimmed.

Inspect Window

- Cosmetic damage and/or shipping damage.
- Product squareness (diagonal measurements not more than 1/4" different).
- Correct product (size, color, grid pattern, handing, glazing, energy-efficiency requirements, etc.).
- Cracked frame welds or other frame damage.
- Manufacturing abnormalities (e.g., warp, bow, squareness).
- 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 window's performance rating, **DO NOT** install the window. Contact your dealer or distributor for recommendations.



2 INSPECT ROUGH OPENING (R.O.)

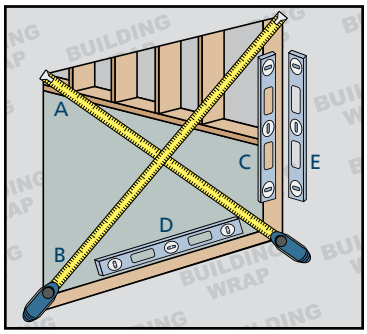
Weatherproofing of the rough opening, along with the flashing and proper integration of the fenestration product with the water-resistive barrier, is the responsibility of the installer. JELD-WEN recommends strict adherence to the current version of ASTM E2112.

⚠CAUTION

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

- Verify the width and height of the rough opening is 1/2" larger than the window width and height. Openings for mulled units should be 3/4" larger than the window 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 slope) to the exterior.
- 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.

Verify Square, Level and Plumb



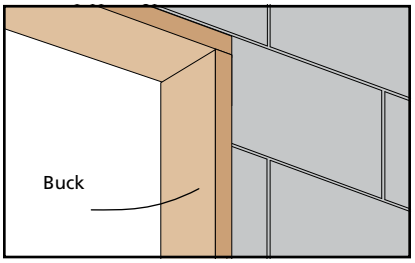
For Retrofit Installations

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, open-stud construction and existing window frame. If installing into an opening other than what is identified, consult a building professional.

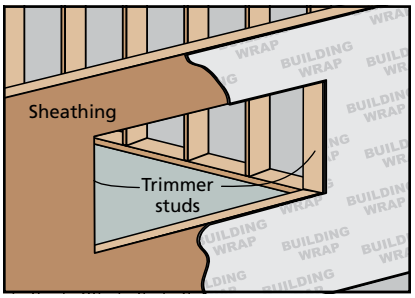
Masonry/Block Wall Construction

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 window will be mounted to the buck in a weatherproof manner.



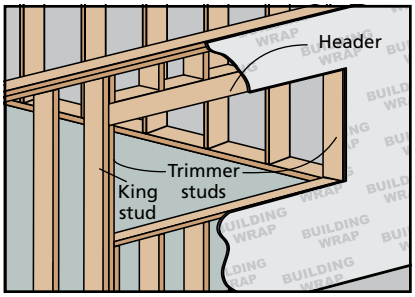
Fully Sheathed Wall Construction

Sheathing is applied to the exterior of the wall framing. The window will be mounted into the rough opening in a weatherproof manner.



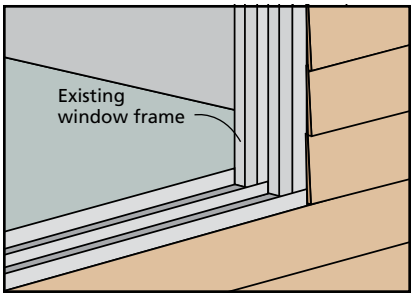
Open-Stud Construction

Sheathing is absent and building wrap is applied atop of the wall framing. The window will be mounted into the rough opening in a weatherproof manner.



Existing Window Frame Installation

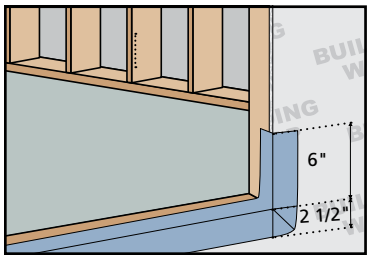
The existing window frame is left in place and the window will be installed into the frame in a weatherproof manner.



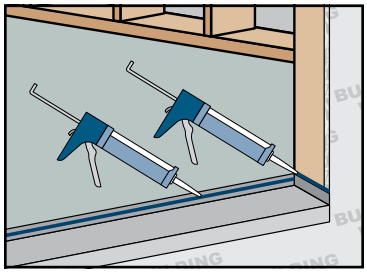
3 INSTALL SILL PAN FLASHING SYSTEM

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.



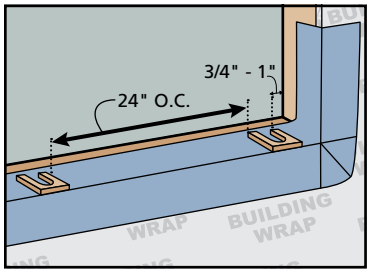
2. Apply a continuous bead of sealant to the interior of the upturned leg and end dams of the sill pan (if using a rigid sill pan).



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.

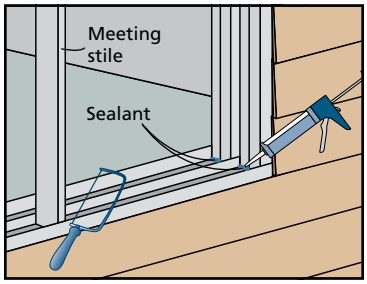


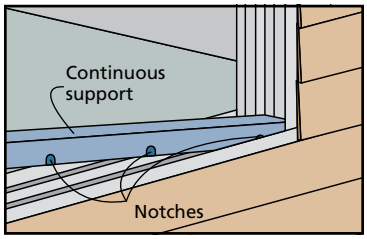
   - Place one shim 3/4" to 1" from each side of the rough opening (if the rough opening is sized correctly, this should be approximately 1/2" from the corner of the window).
   - Shims should be no more than 24 inches on-center.
   - For mulled units, ensure there is a shim located 1/2" either side of the mull joint.
   - There should always be a drainage path to the exterior out of the sill pan.
   - Shims may be held in place with sealant.
   - Increased shim height may be needed or may interfere with bar/grill alignment of adjacent windows/doors.
   - Steps may not pertain to existing aluminum frames or sloped sill.

NOTE: For large (36" or wider), heavy or mulled units, shim at 8" on-center and no more than 2" from each corner to maintain proper sill alignment. This shimming schedule also pertains to regions where the ambient air temperature reaches or exceeds 95°F (35°C).

Prepare Existing Window Frame (Aluminum Frame):

1. Remove the sashes and/or glass in the existing window.
2. Remove all hardware and window components not a part of the frame (meeting stile, jamb liners, locking mechanisms or other hardware etc.).
3. Seal all four corners of the window frame as shown.
4. Notch grooves across the bottom of the continuous support (see materials list) to allow for water drainage through the weep holes. Set the continuous support into the exterior sill track, creating a level surface at the sill.





4 TEMPORARILY FASTEN AND SHIM PRODUCT

⚠WARNING

To avoid injury, use at least 2-people to install. Adequately support the window until completely fastened.

General Installation Considerations

Installation Clips: If installation clips are to be used, reference **Section 5** for proper clip application prior to setting the window.

Existing Window Frame: If installing into an existing window frame with a sloped sill, reference **Section 5** for proper stop-in application prior to setting the window.

Through Frame Fastening: If installing by placing screws through the main window frame begin by shimming the product in place using the steps below.

Window Install and Shimming

NOTE: Review **Section 6 – Install Drip Cap** before setting the window.

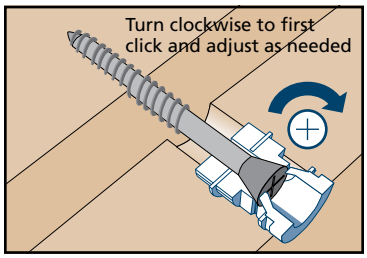
1. Place the window onto the shims and tilt into the rough opening. The shims must fully and evenly support the sill of the window. Adjust the shims as needed.
2. Temporarily fasten the window through the frame between 3" - 7" from one upper corner.

⚠WARNING

Prior to removing the sash from the frame for through frame fastening, install and properly shim the frame. Removal of the sash prior to proper shimming may cause balance operational issues.

NOTE: On some double-hung operating units only, jamb adjuster hardware is mounted in the middle installation holes to allow for some jamb adjustment. Install jamb adjuster screws until captured (first 'click'), the screw may then be screwed in or out to adjust the jamb as needed.

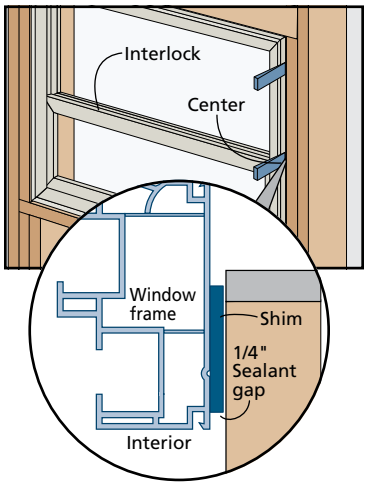
Jamb Adjuster



3. **Shim at each interlock of hung windows or in the center for other style windows.**
4. Shim within 4" - 6" of each corner on the side and head jambs. Apply additional shims to the side and head jambs as necessary to ensure window positioning within the opening is plumb, level and square. **Larger windows will need additional shims**. Shims can be secured with sealant or adhesive (**Reference the Product Installation Tolerance Table**).

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.

5. Inspect the window for level, square and twist. Test for proper operation (remove and reinstall if necessary). **NOTE:** Shims should be cut back 1/4" - 1/2" from the interior face of the main window frame.



5 FASTEN PRODUCT (SIZE AND SPACING)

Window Fastening

Vinyl windows without a nailing fin can be installed in a variety of ways. These instructions address the installation into a framed opening, existing non-sloped window frame and existing sloped sill (pocket) window frame. Each of these methods is described below as well as some general considerations.

General Installation Considerations

- **Stud Framed Opening:** These instructions address securing the window by **A.) Through frame fastening** or **B.) Installation clips.**
- **Existing Non-Sloped Sill Window Frame:** This is a non-pocketing installation method. These instructions address securing the window by **A.) Through frame fastening**
- **Existing Sloped Sill Window Frame:** This is a pocketing installation method. The window will typically come with additional components (i.e., sill adapter). These instructions address securing the window **A.) Through frame fastening** or **C.) Stop-in method.**

General Fastening Considerations

- **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.**
- A #8 corrosion-resistant, pan-head screw is recommended.
- Screws must be long enough to embed into the structural framing by a minimum of 1 1/4".
- Screw heads should be mounted flush against the outer wall of the window frame and/or installation clip.
- Shims should be located at each screw location to prevent deflection of the frame.
- Removing certain components before pre-drilling installation holes and/or installing the window frame (e.g., track filler, sash, etc.) may be beneficial.
- Screw spacing is based on the product performance grade (PG), refer to "**Fastener Spacing Table**" for proper spacing.

The removal of the hung sash may cause operational issues with the balance system. Scan the QR Code for our **Product Guide for Vinyl Single and Double Hung Windows (JPG006)** or locate the document in the Product Support section at jeld-wen.com.

Fastener Spacing Table

Products are fastened according to performance grade (some holes may be pre-drilled). Performance Grade (PG) is located on the purchase paperwork or gold AAMA label fixed somewhere on the frame, generally in the head jamb. Look for something like this example: R-*PG20*-122X76 (48X30)-HS. If this label is missing, use the PG50 and above fastener pattern.

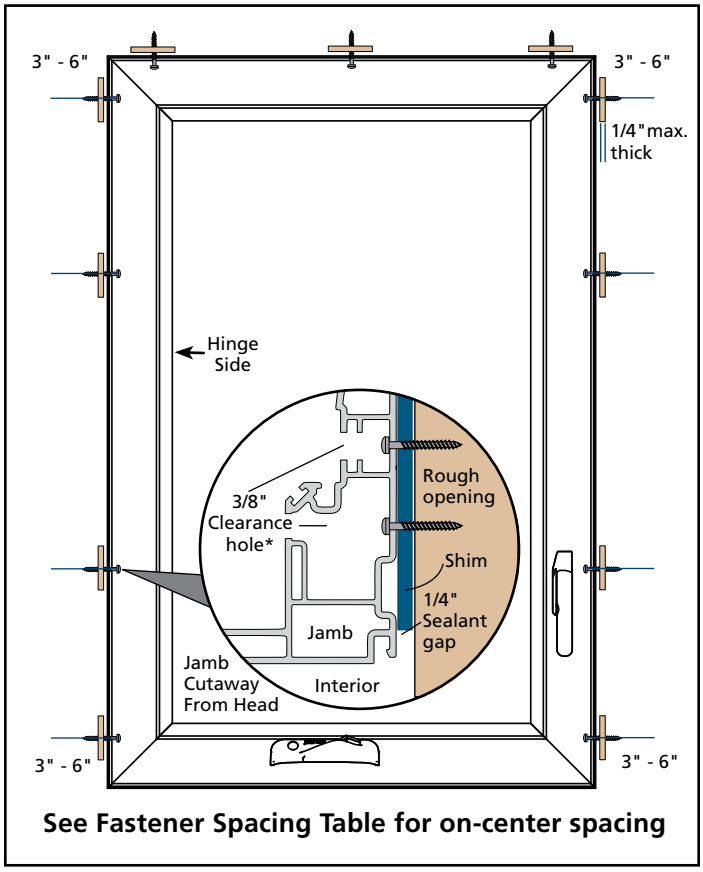
Fastener Spacing Table	
PG20	3" – 6" from the corners and every 24" (max.) on-center.
PG35	3" – 6" from the corners and every 18" (max.) on-center.
PG50 and above	4" from the corners and 12" on-center on both jambs, head and sill.
Mull Joints	From the middle of the mull joint, apply a fastener at 2" and at 4". Repeat for the opposite side of the mull joint.

5 FASTEN PRODUCT (SIZE AND SPACING) (CONTINUED)

A.) FASTEN THROUGH FRAME:

1. Use a pencil to mark the screw locations on the window frame as defined in the "**Fastener Spacing Table**".
2. At each screw location drill a 3/8" clearance hole through the first wall of the frame only. **DO NOT** drill through the outer wall of the window frame.

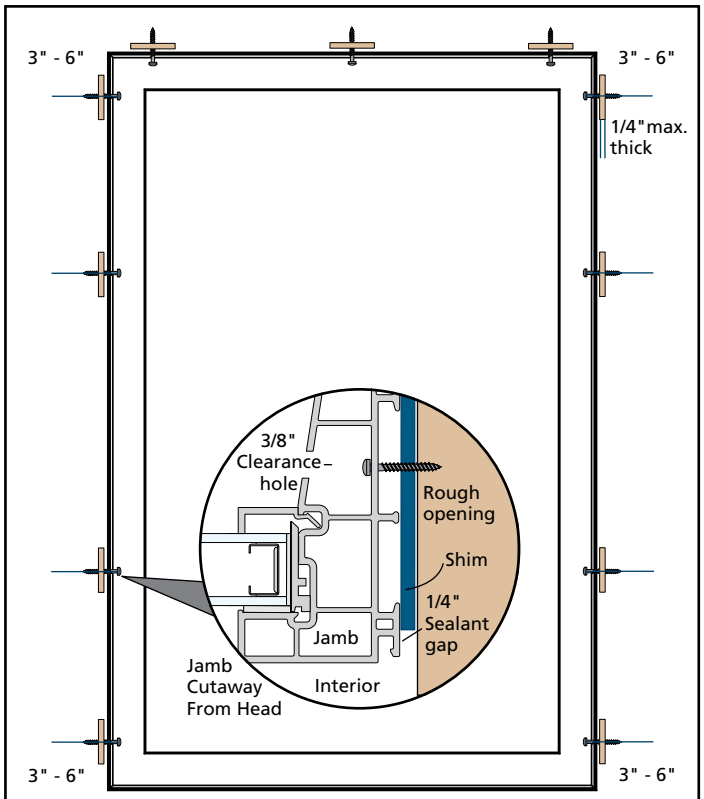
Casement/Awning



See Fastener Spacing Table for on-center spacing

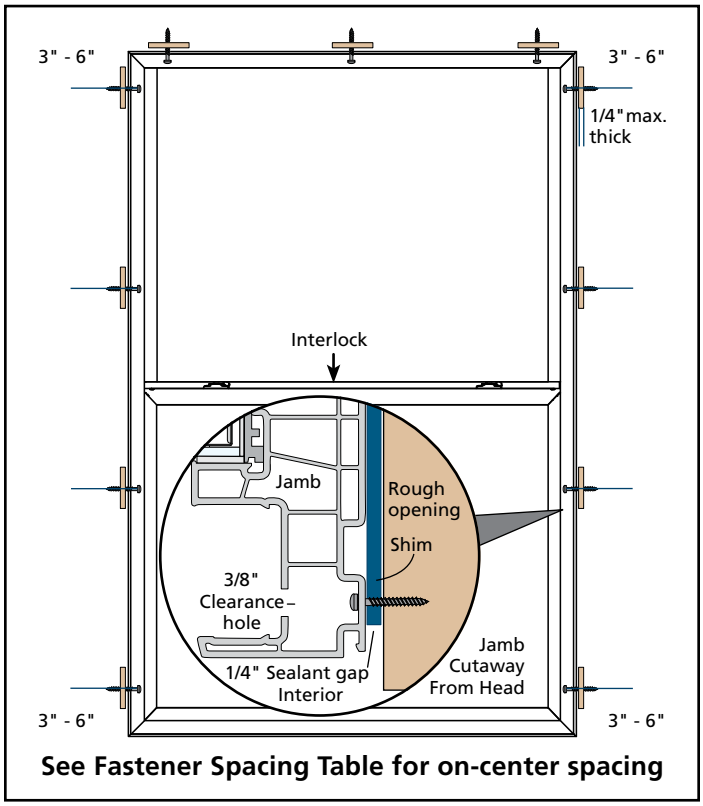
*Fastener location will be dependent on frame setback

Picture



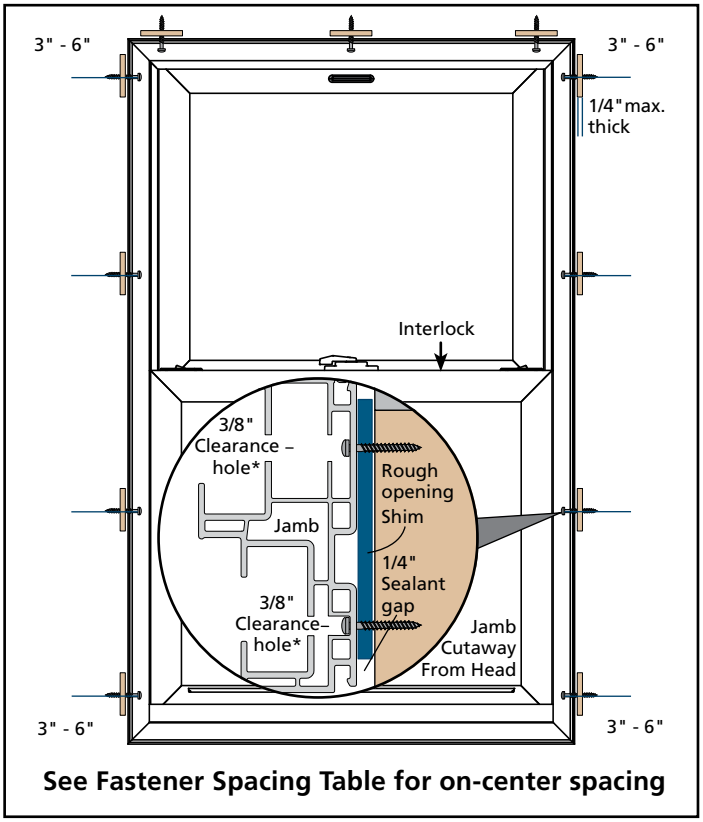
See Fastener Spacing Table for on-center spacing

Single-Hung Side Load/Horizontal Slider



See Fastener Spacing Table for on-center spacing

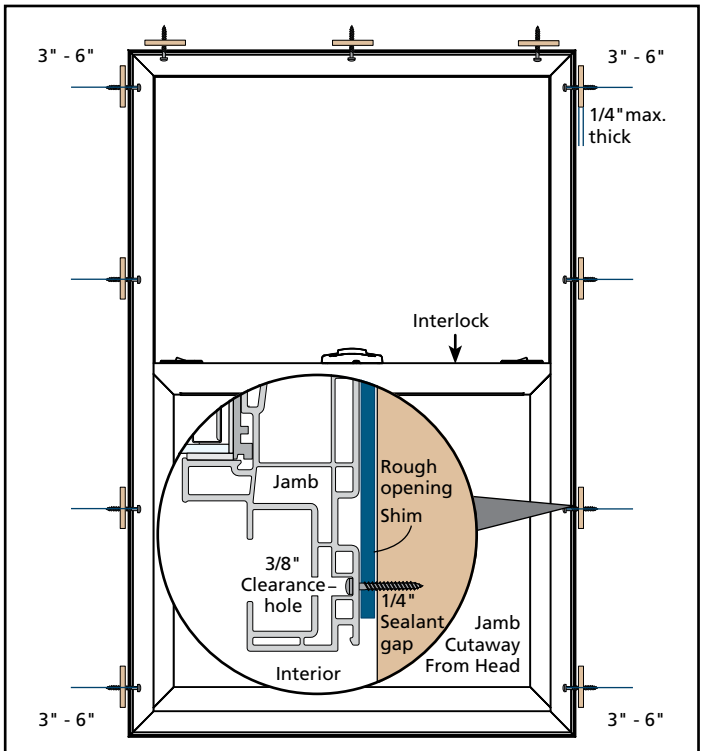
Double-Hung Tilt



See Fastener Spacing Table for on-center spacing

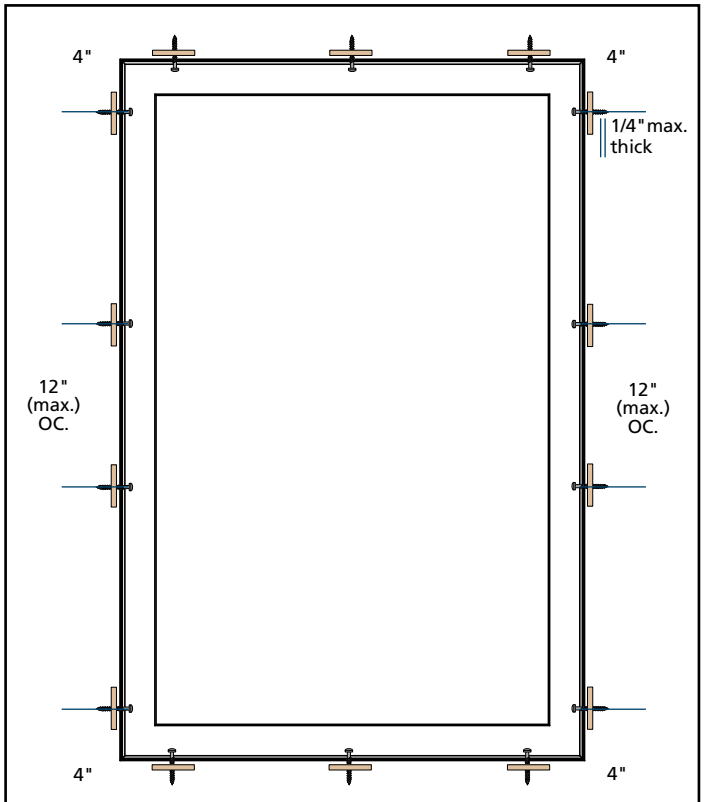
*Fastener location will be dependent on frame setback

Single-Hung Tilt



See Fastener Spacing Table for on-center spacing

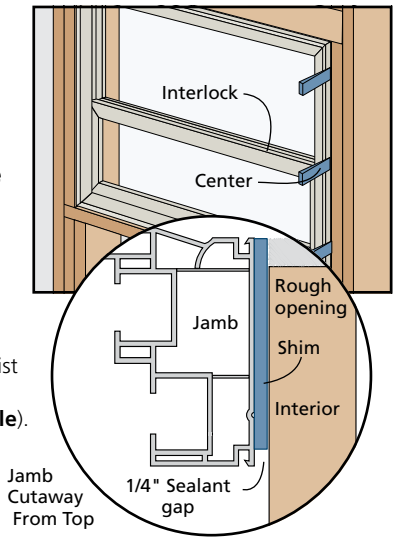
All Window Configurations PG50 and Above



See Fastener Spacing Table for on-center spacing

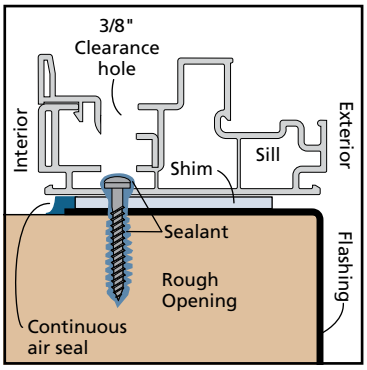
5 FASTEN PRODUCT (SIZE AND SPACING) (CONTINUED)

3. Once all the fastener holes have been identified, secure one of the upper frame corners by placing a screw through the frame. **A shim is required at each screw location to prevent frame deflection.**
   NOTE: Shims should be cut back 1/4" - 1/2" from the interior face of the main window frame.
4. Inspect the window for square, level, plumb and twist (**Reference the Product Installation Tolerance Table**).



5. Repeat the steps above for each remaining pre-drilled screw hole. **NOTE: If installing screws in the sill, apply sealant to the screw threads and the head of the screw in the window frame (use more sealant as necessary to completely seal the screw head to the frame).**
6. Insert dust plugs into screw clearance holes if applicable. Replace any removed components (e.g. track filler, sash, etc.).

Fasten Window

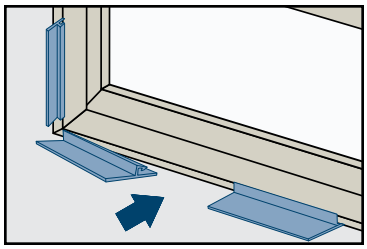


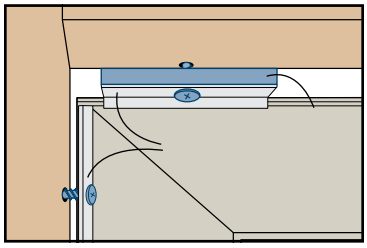
7. For products with a rating of PG 50 or WZ3-Impact refer to "**Special Fastening Requirements**".
8. Once the window is secured proceed to **Section 6 – Install Drip Cap**.

B.) INSTALLATION CLIP:

NOTE: Installation clips cannot be used on windows with applied jamb extension or along the bottom if a rigid sill pan is utilized. In such cases, through frame fastening is recommended.

1. If installation clips have not already been applied, use a pencil or tape to mark screw locations on the window frame as defined in the "**Fastener Spacing Table**".
2. Snap Installation clips into the "interior" accessory groove at each pre-determined screw location.
3. Secure one of the upper frame corners by placing a screw through the installation clip. Drive screws until the screw head is flush with the installation clip. **A shim is required behind each clip to prevent deflection.**
4. Inspect the window for square, level, plumb and twist (**Reference the Product Installation Tolerance Table**).
5. Repeat the steps above for each installation clip.





6. For products with a rating of PG 50 refer to "**Special Fastening Requirements**". Installation clips are not meant to be used on WZ3-Impact products.
7. Once the window is secured proceed to **Section 6 – Install Drip Cap**.

C.) STOP-IN METHOD

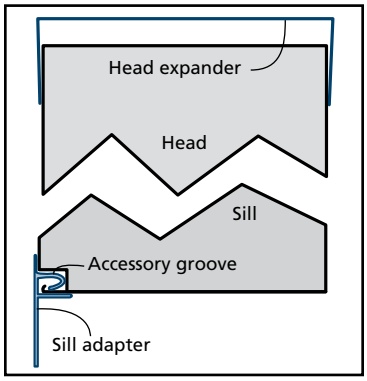
NOTICE

This installation method excludes windows with pre-applied extension jambs and impact units.

NOTE: This method is typically used in a "pocket" style installation where a vinyl window is set into an existing window frame that has a sloped sill. The existing opening should be sound and weather-tight prior to installing the vinyl window.

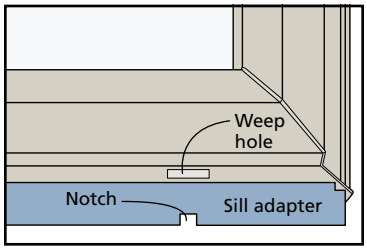
1. Make sure the sloped sill adapter has been installed onto the window and the weep holes are clear.

Window Frame and Accessories Shown from the Side

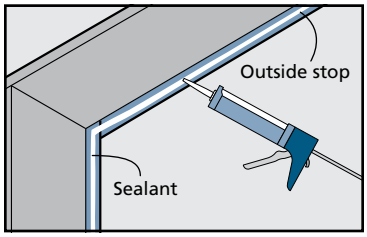


5 FASTEN PRODUCT (SIZE AND SPACING) (CONTINUED)

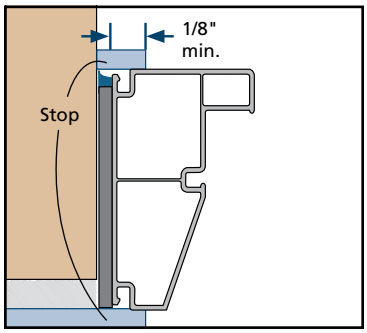
2. The opening should be prepped so that only the exterior stops are in place. Make sure stops are of adequate size so they will overlap the exterior face of the frame by a minimum of 1/8" on both sides and the head. **NOTE:** If a stop is present along the bottom make sure this will not block drainage from the weep holes or from under the sloped sill adapter.



3. Apply a continuous bead of sealant to the interior face of the side and head stop.
4. Set the window into the opening so the exterior face of the frame makes full contact with the sealant and stops.



5. Along each side apply a shim 4"- 6" from each corner and in the middle of the window frame (shims should be cut 1/4" - 1/2" back from the interior face of the window frame). **NOTE:** Some hung windows have a "jamb jack" along each side. Engage the #8 x 2" flat-head screws until the first "click" is heard and then adjust the jamb jack as needed prior to adding shims.
6. Apply additional shims to the side and head jambs as necessary to ensure the window position within the opening is plumb, level, square and without twist. Larger windows usually need additional shims. Shims can be secured with sealant or adhesive (**Reference the Product Installation Tolerance Table**).
7. Apply head expander if needed. Insulating material may be placed atop the window frame prior.
8. Create a continuous interior air seal by applying low-expansion polyurethane foam or backer rod and sealant between the newly installed window frame and the existing opening. The depth of the air seal should be approximately 1/2".

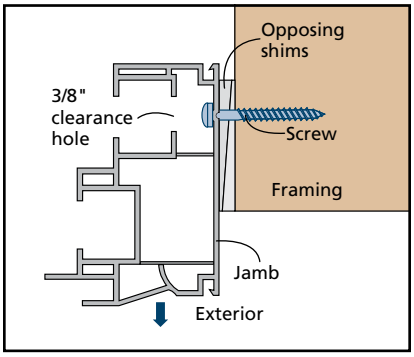


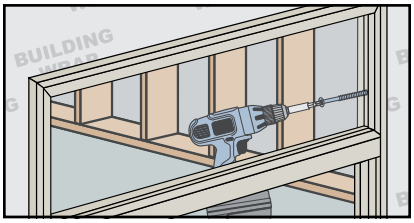
9. Secure the interior stops to all four sides of the opening. Stops should overlap the interior face of the frame by a minimum of 1/8".
10. Refer to **Section 8** – **After Installation** for relevant information.

Special Fastening Requirements For PG50 OR ABOVE Tilt Hung Windows Only

1. From the interior, just above the interlock (where the sash both meet at the center), align with shims and drill a 3/8" clearance hole through **ONLY** the first wall of the interior jamb (as shown). This will allow the screw head to pass through.
2. Drive one screw through the jamb and shim. Repeat for the opposite side. Ensure to achieve a minimum of 1 1/4" embedment into the structural framing.

Double-Hung Jamb Cutaway from Top





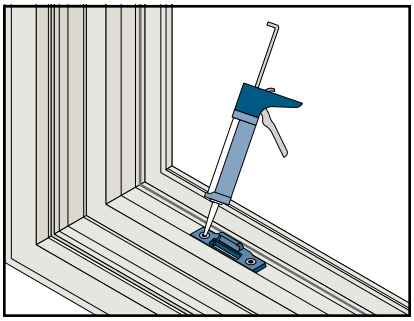
Special Fastening Requirements For WZ3-IMPACT Tilt Single Hung, Tilt Double Hung and Horizontal Slider Windows Only

⚠CAUTION

Fasteners through the sill will breach the sill pan flashing. Following the sealant application steps outlined below is imperative.

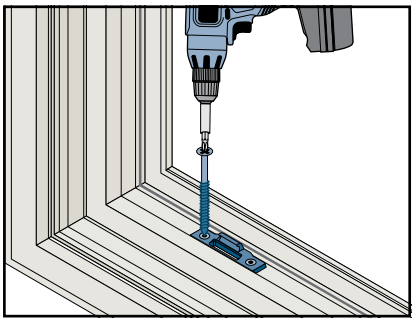
Additional brackets are applied to the Wind Zone 3 (WZ3) products listed below. The factory screws must be backed out of the bracket and replaced with a #8 x 2 1/2" (minimum) **stainless steel** (**required**) screw.

1. Double-check that the windows are installed level, square and without twist.
2. Operate the window to verify bracket location is correct and has no clearance issue. If a clearance issue is identified, adjust brackets as necessary for proper operation.
3. Remove one screw from the bracket attached to the frame. Apply enough sealant to the bracket hole to cover the existing screw hole and so there will be adequate squeeze out around the head of the screw to be applied next.



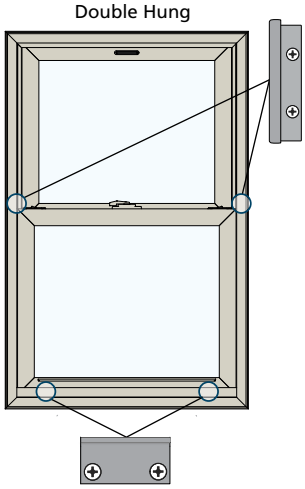
5 FASTEN PRODUCT (SIZE AND SPACING) (CONTINUED)

4. Place a shim between the window frame and rough opening, in line with the bracket. Align the shim so the screw goes through the bracket and holds the shim in place.
5. Apply sealant to the treads of a #8 x 2 1/2" (minimum) **stainless steel** (**required**) screw and apply it to the bracket hole. Tighten until snug and squeeze out is observed around the screw head. Wipe off excess sealant and repeat for the other screw.

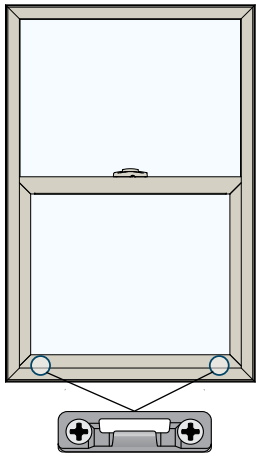


6. Repeat for any remaining holes/brackets.

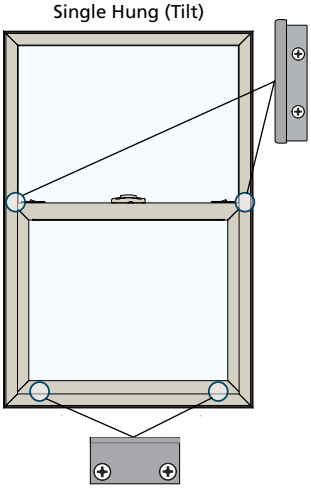
Double Hung



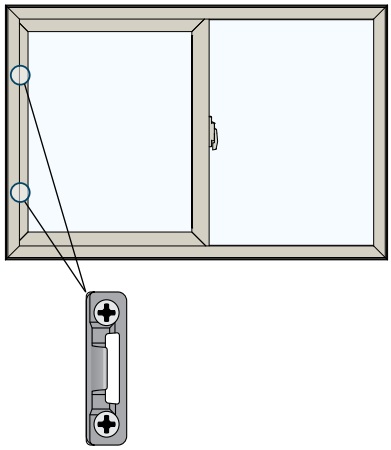
Single Hung (Side Load)



Single Hung (Tilt)



Horizontal Slider

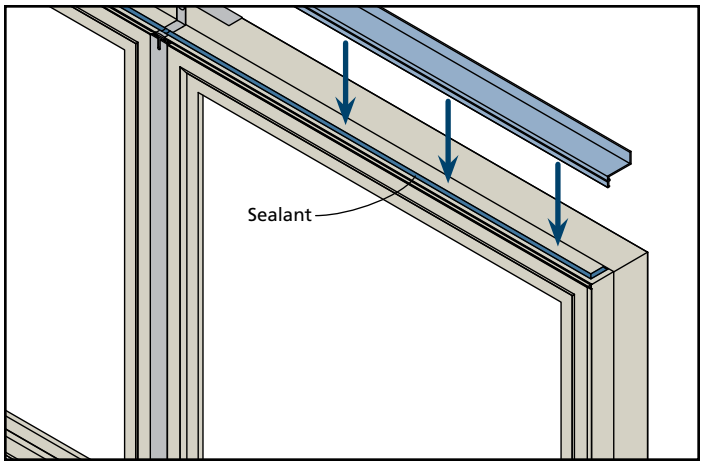


6 INSTALL DRIP CAP

NOTE: A drip cap is *required* for all vertically mulled units and recommended for all products.

1. Apply a continuous bead of sealant to the top of the window frame. See drawing.
2. Position the drip cap on top of the window frame and seat into position with the aid of a wooden block and hammer or non-marring mallet.

NOTE: Barb maybe trimmed back 1/4" on each end to better assist in seating the drip cap into the accessory groove.



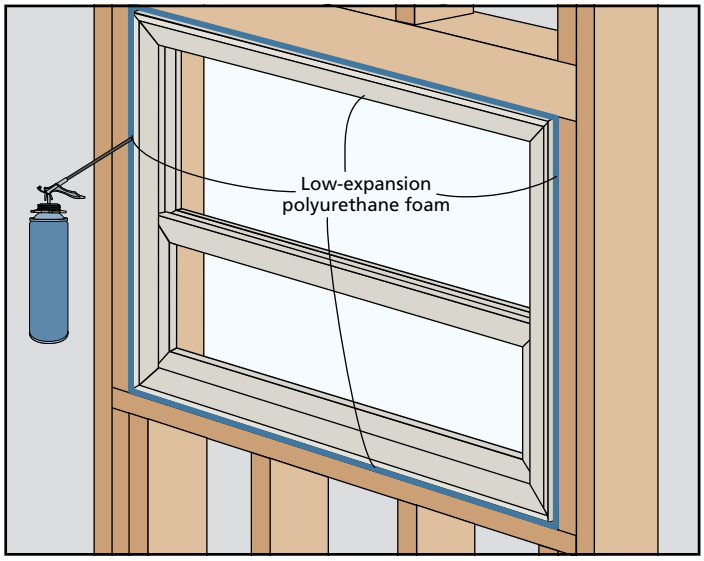
7 CREATE "INTERIOR" AIR SEAL

Continuous Air Seal

NOTE: Shims may need to be cut back, so the interior air seal is "**continuous**" between the window frame and the rough opening.

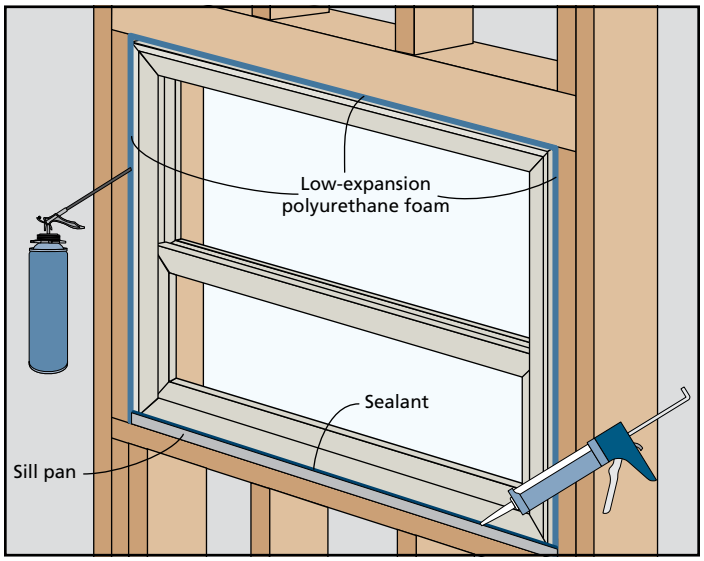
Create a **required** continuous air seal on the interior by integrating the rough opening and the window frame with low-expansion polyurethane foam or backer rod and sealant. **NOTE:** If foam is used, a 1/2" - 1" depth is prescribed. Backer rod can be used to control the depth.

Self-Adhered Flashing Sill Pan



If using a ridged sill pan, apply a bead of sealant to the upturned leg of the sill pan and the window frame.

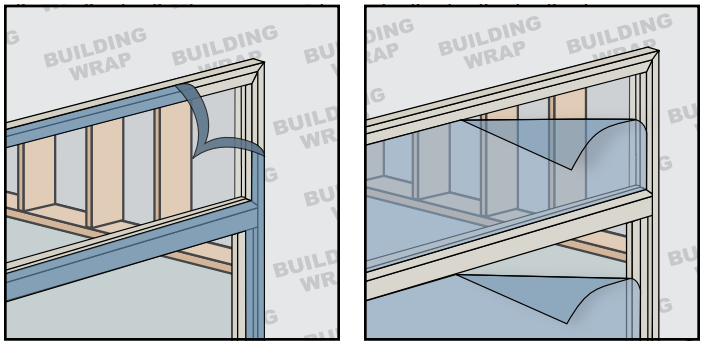
Rigid Sill Pan



8 REMOVE PROTECTIVE FILM

NOTICE

If applicable, remove any protective film immediately from all surfaces of the frame/sash 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, is the responsibility of the installer. JELD-WEN recommends strict adherence to the current version of ASTM E2112.

- **Ensure weep holes/channels are clear of debris for proper water drainage. DO NOT seal weep holes/channels.**
- Leave an expansion/contraction gap of approximately 3/8" between the window frame and final exterior wall surface (siding, stucco, etc.).
- Protect recently installed units from damage from plaster, paint, etc.
- Apply sealant to the backside of the dust plugs. Sealant will secure the plug and make it weather-tight. Wipe any excess sealant from around the dust plug.

WARNING

DO NOT operate the casement sash in the extended position for long periods of time or leave unattended in the fully open position, as potential damage may occur from environmental factors (i.e., unexpected strong wind gusts).

For care and maintenance information, please scan the QR code or reference Care and Maintenance for Vinyl Windows and Patio Doors (JCM002) at www.jeld-wen.com.

For product guide information, please scan the QR code or reference Product Guide for Vinyl Casement and Awning Windows (JPG005) at www.jeld-wen.com.

For product guide information, please scan the QR code or reference Product Guide for Vinyl Single and Double-Hung Windows (JPG006) at www.jeld-wen.com.

For product guide information, please scan the QR code or reference Product Guide for Vinyl Horizontal Slider Windows (JPG007) 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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