Thank you for selecting JELD-WEN products. Attached are JELD-WEN’s recommended installation instructions for vinyl bay, bow and garden windows which incorporate an integral nailing fin. While the use of these installation instructions is recommended, installation in strict compliance with AAMA specifications (2400-02) is an alternate method of window installation. Use of the AAMA specifications (2400-02) will not affect application of the JELD-WEN limited warranty.

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 integrates the window with the weather barrier (typically building wrap).
INSTALLATION INSTRUCTIONS
for Vinyl Projecting Windows with Integral Nailing Fin (JII023)

SAFETY AND HANDLING

SAFETY

• Read and fully understand ALL manufacturers’ instructions before beginning.
• Do not work alone. Two or more people are required. Use safe lifting techniques.
• Use caution when handling glass. Broken or cracked glass can cause serious injury.
• Wear protective gear (e.g. safety glasses, gloves, ear protection, etc.).
• Operate hand/power tools safely and follow manufacturer’s operating instructions.
• Use caution when working at elevated heights.

MATERIALS

Note! Follow all material manufacturers’ instructions for proper use and compatibility.
• 1 3/4” galvanized roofing nails. Nails must penetrate at least 1” into framing (or as required by local code).
• #10 x 3 1/2” corrosion resistant pan head screws. Screws must penetrate at least 1” into framing (or as required by local code).
• Non water-degradable or compressible shims to level the sill
• 4”, 6”, or 9” (as required by local code and window configuration) wide self-adhesive flashing: We recommend OSI® QUAD® Butyl Flashing Tape or equivalent.
• Spray adhesive/primer for self adhesive flashing. Such as Loctite® 300 or equivalent
• Sealant: We recommend OSI® QUAD® Max Sealant or equivalent. This can be used in any application and can be painted or ordered in a color matched product, if desired.

WINDOW AND MATERIALS HANDLING

• Backer rod 1/8” larger than the widest portion of the gap (used in conjunction with sealant bead).
• Polyurethane low expansion Window and Door foam: We recommend OSI® QUAD® Foam or equivalent).
• Non water-degradable or compressible shims

TOOLS

• Tape measure
• Utility knife
• Level (4’ minimum recommended)
• J-roller
• Caulking gun
• Drill with 1/8” tapered bit and 3/8” countersink
• Construction stapler with 3/8” staples
• Hammer

REMOVE PACKAGING AND INSPECT WINDOW

REMOVE PACKAGING

Remove shipping materials such as corner covers, shipping blocks or pads. If there is a protective film on the glass, do not remove it until installation and construction are complete.

INSPECT YOUR WINDOW

• Cosmetic damage
• Product squareness (diagonal measurements not more than 1/8” different)
• Correct product (size, color, grid pattern, handing, glazing, energy-efficiency requirements, etc.)
• Cracked frame welds

Splits, cracks, holes, missing sections or other damage to the nailing fin longer than 6” and/or within 1/2” of window frame

For units with integral head and seat boards, ensure the top of the mull joints are covered and sealed with silicone.

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

- Verify the width and height of the bay or bow window are each 1/2” smaller than the rough opening width and height. The rough opening for the garden window should be the same size as the window frame.

- Verify the rough opening is square. The (A) and (B) measurements above should be the same. Maximum allowable deviation from square is 1/8” for windows 20 sq. ft. and smaller, and 1/4” for windows larger than 20 sq. ft.

- Verify the rough opening is level and plumb (C). The maximum allowable deviation is 1/16” for every 2’ of rough opening (not to exceed 1/8”).

- The rough opening sill must not be crowned or sagged (D). A 5 degree sloped sill is recommended.

- Verify the exterior face of the rough opening is a single plane (E) with less than 1/8” twist from corner to corner.

- Verify the header is supported by trimmer studs.

3 PREPARE ROUGH OPENING

FOR RETROFIT INSTALLATIONS

1. Remove sufficient siding to expose enough intact building wrap to properly seal the window to the opening.

2. Remove the old window. If building wrap is damaged, apply new building wrap in shiplap manner. Verify trimmer studs/header are structurally sound. Continue with the instructions.

3. Trim the sides sufficiently to allow the nailing fin to be mounted against the sheathing.

PREPARE BUILDING WRAP

Note! Check with the building wrap manufacturer to verify the following steps will not void their product warranty. Follow manufacturers’ instructions.

1. Trim building wrap flush with the rough opening.

2. At the head, cut building wrap at 45° and tape up as shown.

3. Trim the sides sufficiently to allow the nailing fin to be mounted against the sheathing.

Note! If installing a bay or bow window, proceed with section 4 “PREPARE SILL FOR BAY/BOW WINDOW.” If installing a garden window, skip to section 8, “PREPARE SILL FOR GARDEN WINDOW.”
PREPARE SILL FOR BAY/BOW WINDOW

1. Use self adhesive flashing to waterproof the sill.
2. Flashing must have at least 2" of visible material below nail fin. Flashing width must be at least measurement \(1 + 2 + 1\frac{3}{4}\)".
3. Measure the width of the frame from the interior to the nail fin (measurement 1) and subtract 1/4". Transfer this measurement from the outside edge of the rough opening sill and draw a line all along the rough opening sill. This is where the back of the flashing will sit.
4. Cut a piece of flashing the length of the sill plus 12".
5. Place flashing on rough opening sill, wrapping the flashing up 6" on each jamb as shown.
6. Pull release tape and set flashing into place.
7. Fold the flashing down onto the sheathing. Staple flashing to the wall and seal the corner edges as shown.

INSTALL BAY/BOW WINDOW

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

Note! Window should be pre-drilled and countersunk before placing inside the rough opening.

1. Pilot holes should be spaced 1 1/2" from interior edges, 4" from each corner and then evenly spaced no more than 12" around the inside perimeter. Drill 1/8" pilot holes and countersink.
2. Place window onto the drain mat in the rough opening. The window sill must rest on and be fully supported by the rough opening framing.
3. Fasten window with a galvanized roofing nail through the nailing fin between 3" and 7" from one lower corner.
4. Align side jamb shims with the pre-drilled holes so fasteners will penetrate shims. Shims must be set back at least 1/4" from the interior of the jamb. Secure shims with sealant.
5. Inspect window for square, level, and plumb. Test for proper operation (remove and reinstall if necessary).
6. Using #10 x 3 1/2" pan head screws, fasten the jambs, head, and seat board through the pre-drilled and countersunk pilot holes. Screws should penetrate the previously installed shims.
INSTALLATION INSTRUCTIONS
for Vinyl Projecting Windows with Integral Nailing Fin (JII023)

6 FLASH BAY/BOW WINDOW

PREPARE FLASHING
1. Cut four pieces of self-adhesive flashing as follows:
   - One head board piece 6” longer than the head board
   - One header piece 12” longer than the header
   - Two side pieces 7” longer than each side

SPRAY ADHESIVE/PRIMER
Note! Protect window from overspray.
2. Apply spray adhesive/primer as instructed to nailing fin, sheathing and building wrap at the sides and head as shown.

APPLY THE SELF-ADHESIVE FLASHING
Note! Keep the edge of the self-adhesive flashing as close to the window frame as possible.
3. Fold the head board piece lengthwise into “L” shape. Center and apply one leg to head board and the other to the wall above the rough opening header. Cut the corners to allow the flashing to lay flat against the wall.
4. Starting 2” above the header, apply the side pieces.
5. Center and apply the header piece above the header.
6. Press the flashing down with a J-roller.
7. Inspect self-adhesive flashing for gaps or bubbles (remove and replace if necessary).

7 COMPLETE BAY/BOW WINDOW INSTALLATION

1. If the window has a pre-installed cable support system, follow the instructions provided by the manufacturer.
2. If the cable support system is not used, build seat board bracing to support at least 750 lbs of total weight (window plus window contents). Primary support should be provided under the mull joints of the unit.
3. Remove temporary support after full support is installed.
4. 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.
5. Seal all four corners of the window with a 1/4” bead of sealant. Tool into a fillet shape.
6. The head and seat boards should be protected and insulated with a structure designed and built as required by local code.
7. Create a continuous air seal on the interior jambs and head between the rough opening and the window frame with low expansion polyurethane foam or backer rod and sealant. On the sill, run a continuous bead of sealant along the foam wedge where it meets the window frame or seat board.

AFTER INSTALLATION
1. Adjust window for best operation.
2. Install exterior wall surface within 30 days of window installation.
3. Maintain gap of 3/8” between window frame and final exterior wall surface (siding, stucco, etc.).
4. Protect recently installed units from damage from plaster, paint, etc. by covering the unit with plastic.

Note: End of bay/bow installation instructions.
PREPARE SILL FOR GARDEN WINDOW

Note! The sill lip is the garden window’s only source of support inside the rough opening. It is very important that the sill be level and flat.

1. Measure the length of the sill and cut a piece of flashing the exact length of the sill.
2. Measure and draw a line 1/2" from the exterior edge of the sill; this is where the flashing will sit.
3. Remove foam backing and release tape under foam backing.
4. Press the adhesive section of the flashing onto outside section of sill.
5. Pull release tape on remaining section of the flashing.
6. Fold the flashing down onto the house wrap.
7. Staple flashing to the wall and seal the corner edges.

INSTALL GARDEN WINDOW

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

1. Place window sill onto the drain mat and tilt into the rough opening. The window sill must rest on and be fully supported by the rough opening framing.
2. Fasten window with a galvanized roofing nail through the nailing fin between 3"-7" from one lower corner.
3. Inspect window for square, level, and plumb. Test for proper operation (remove and reinstall if necessary).

Note! Fastener heads must be flush. Do not dent nailing fin. Always use pre-punched holes or pre-drill with a 3/16" bit.
4. Fasten window through nailing fin holes 3"-7" from the corners and 8" apart all the way around the window.
INSTALLATION INSTRUCTIONS
for Vinyl Projecting Windows with Integral Nailing Fin (JII023)

10 FLASH GARDEN WINDOW

PREPARE FLASHING
1. Cut three pieces of self-adhesive flashing as follows:
   • One header piece 12” longer than the header
   • Two side pieces 7” longer than each side

SPRAY ADHESIVE/PRIMER
Note! Protect window from overspray.
2. Apply spray adhesive/primer as instructed to nailing fin, sheathing and building wrap at the sides and head as shown.

APPLY THE SELF-ADHESIVE FLASHING
Note! Keep the edge of the self-adhesive flashing as close to the window frame as possible.
3. Apply the side pieces starting 2” above the header.
4. Center and apply the header piece above the header.
5. Press the flashing down with a J-roller.
6. Do not allow gaps or bubbles beneath self-adhesive flashing (remove and replace if necessary).
Garden windows are rated for a weight handling load of 8 lbs. per square foot. Although it is not required, the installer may provide extra support to the garden window with "L" brackets. Build seat board bracing under the mull joints of the unit. To reduce heat loss, the bottom of the window may be insulated. Check local building code requirements.

**COMPLETE INSTALLATION**

1. 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.
2. Seal the top corners of the window with a 1/4" bead of sealant. Tool into a fillet shape.
3. Create a continuous air seal around the entire interior perimeter of the window with a bead of sealant where the window contacts the structure.

**AFTER INSTALLATION**

1. Adjust window for best operation.
2. Install exterior wall surface within seven days of window installation.
3. Maintain gap of 3/8" between window frame and final exterior wall surface (siding, stucco, etc.).
4. Ensure weep holes/channels are clear of debris for proper water drainage; do not seal weep holes/channels if present.
5. Protect recently installed units from damage from plaster, paint, etc. by covering the unit with plastic.

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

Thank you for choosing JELD-WEN.

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