

Retro Window Installation Instructions - Without a Nail Fin

(Advantage and Envision)



Please ensure that you thoroughly review these instructions before commencing the installation process. Please be aware that damage resulting from incorrect installation is not covered by the product warranty.

Proper Flashing and Sealing: It's crucial to ensure the unit is properly sealed and or flashed properly. Therefore, it is essential to follow these instructions carefully to guarantee a successful installation.

Stay Updated: Please be aware that this installation procedure may change over time due to ongoing product improvements, updated test results, and evolving industry best practices. For the most current installation guides, removal instructions, and additional installation information, please visit our website at vectorwindows.com.

Consult your local building code official to identify and confirm compliance with local building code requirements.

Always wear the correct personal protective equipment.

Retro Installation Pack Contents:

Materials

- (4) 3/8" Low Profile Hole Plug
(Not used on Envision Single-Hung or Double-Hung as it may cause interference with the balance system.)
- (4) #8 x 3" Phillips Pan Head Screws

Required Tools & Materials (Not Supplied)

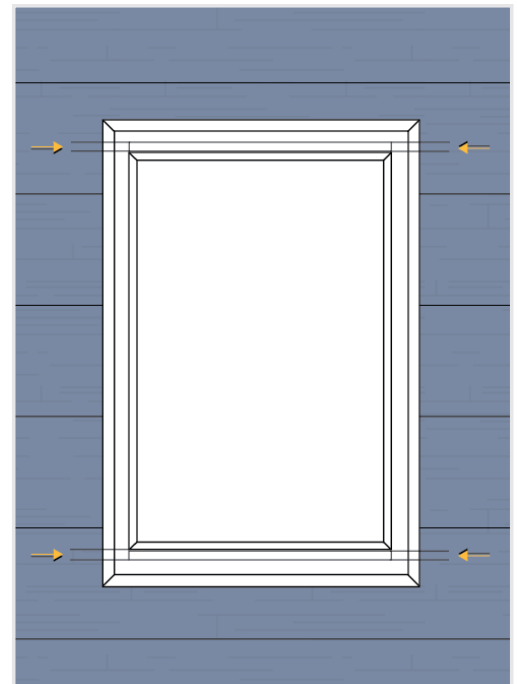
Materials

- Tape Measure
- Pencil
- Square
- Level
- Hammer or Mallet
- Utility Knife
- Putty Knife
- Shims
- Drill & Drill Bits
- Caulking Gun
- AAMA approved Low-Expanding Window Insulation Foam in accordance with ASTM C-1620
- High-Quality Silicone Caulking in accordance with ASTM C-920, Class 25

1.0

Step 1. Prep Window Unit

- Examine the new Vector window unit and screen to make sure there are not any signs of damage. Carefully inspect all movable components, including locks, balances, glass, and rails.
- Take out the screen and set it aside with care; it will be re-installed once the installation is completed.
- After the inspection, close and lock the window unit.
- Examine your package for any visible product damage.
- Ensure the new unit's size fits the opening. Maintain consistent margins between sash and master frame to maximize window performance.
- Make sure to use proper sizing, support, and installation techniques, which depend on the surrounding wall structure.
- Choose a high-quality silicone sealant with a neutral base. Avoid silicone that emits acetic acid during curing, as it will not adhere properly to the vinyl.
- Do not obstruct the weep holes with flashing or sealant. Weep holes at the bottom sill of the window are essential to prevent water accumulation. Also make sure that any trim or coverings are applied properly to allow for proper drainage.
- Account for the window unit's expansion and contraction when contacting exterior finish material during installation.



2.0

Step 2. Prepare Opening

Remove the sashes in the current opening according to local waste disposal requirements and lead paint safety compliance.

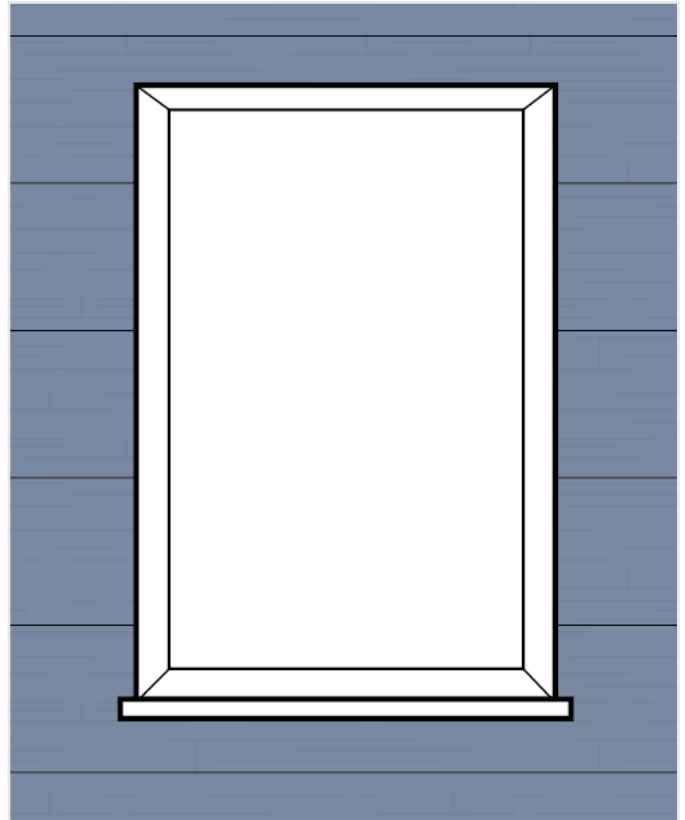
Waste Disposal: Contact the local recycling waste management center for waste disposal in the area. Always check local waste requirements and carefully dispose of waste in accordance with Federal and other regulations.

Lead Paint Awareness: Homes built before 1978 may contain lead paint.

Lead-Based Paint Compliance: All replacement installations must comply with the U.S. EPA's Lead-Based Paint Renovation, Repair, and Painting Program (RRP Rule).

Learn More: Read more about the RRP Rule and lead-safe work practices on the U.S. EPA's website at: www.epa.gov/lead.

- A.** Thoroughly clean the opening, removing any debris, or obstructions. Inspect the existing window frame for any signs of damage. If you find deteriorated components, it is essential to address and repair these issues beforehand.
- B.** After removing the old sashes, fill any voids or open cavities with AAMA approved low-expanding window insulation foam that complies with ASTM C 1620.
- C.** Ensure the sill base is level, flat, and provides proper structural support for the opening to facilitate a correct installation and seal of the window unit.



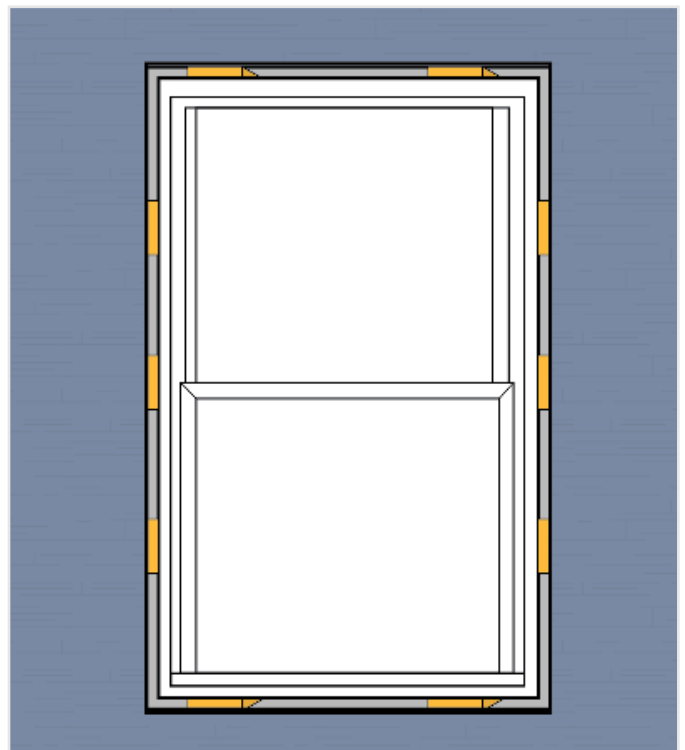
3.0

Step 3.

A. Make sure that a 3-1/4" pocket exists or can be created for the new window. Modify pocket as necessary.

B. (Optional) If you plan to use an optional head expander, lightly insert batt insulation between the header and expander. Allow for compression without distorting the header, place the head expander on the top of the new window. Apply three beads of silicone at the head of the opening, running the entire width.

C. Stack and level shims along each jamb side of the opening. Be cautious to prevent the shims from tilting the sill inward. For mullion sets, also place stacked shims under all side jambs, including mullion locations.

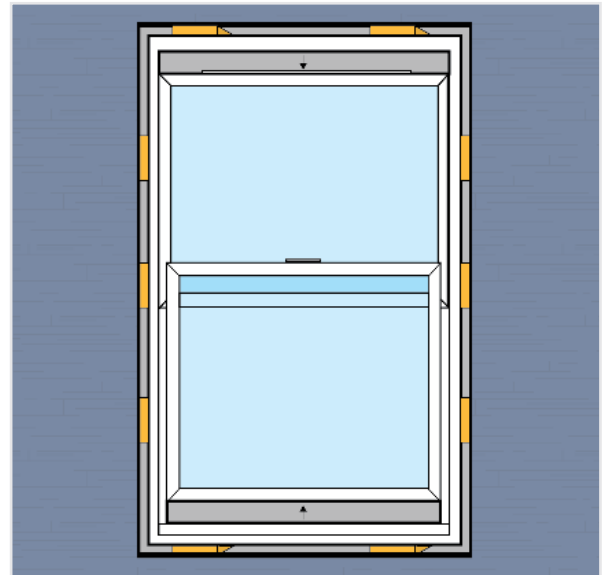


4.0 Start Installation

- A.** Unlock the sash. Remove the vinyl top sash stops (if applicable) and balance covers to reveal the installation screw holes.
- B.** Carefully place the unlocked window unit into the opening, by setting the bottom of the window in first and tilt the top into place ensuring it rests on the sill shims. Center the unit within the opening.
- C.** Gently lower the top sash slightly and raise the bottom sash slightly. Check to ensure there is an even margin between the sash and the sill. Adjust the shims beneath the side jambs to achieve a consistent margin across the entire width of the window unit.

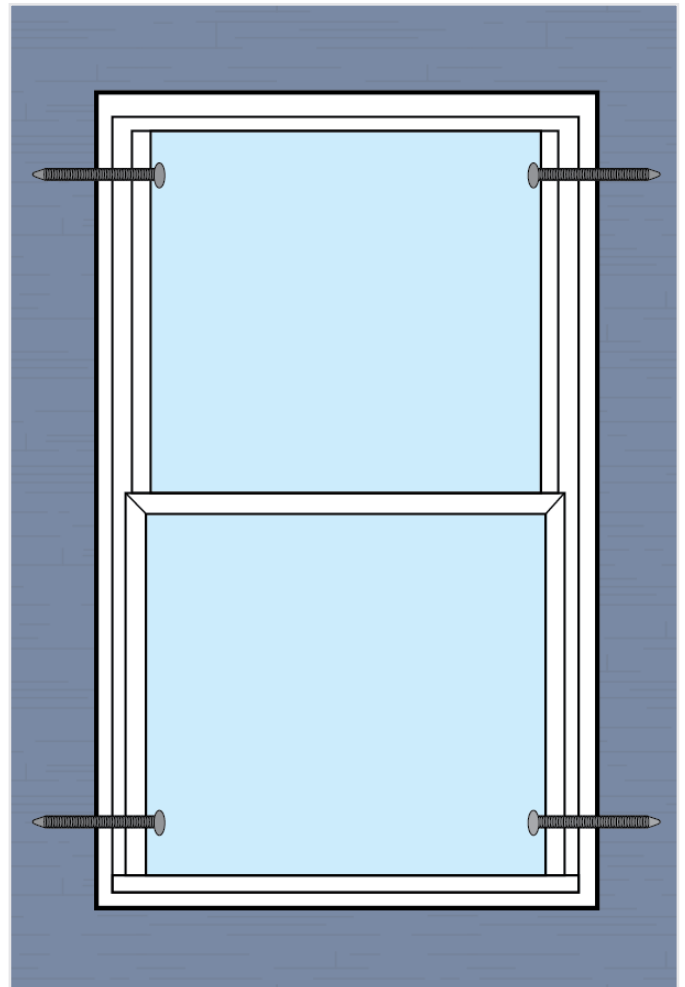
Note: The recommended acceptable margin variance for the width of the window unit is $\frac{1}{2}$ inch.

- D. (Optional)** If using a Head Expander, once the new unit is in the opening, lift the window up to seat the Head Expander to the Silicone, then gently lower the window back down.



5.0

- A.** Install one #8 x 3" Phillips pan head screw into each factory-prepped top jamb screw location to secure the unit in place. Do not fully tighten screws. over-tightening the screws could cause the frame to shift. Use the top screws to align the frame, adjusting the top of the frame to achieve a parallel top margin. Ensure the bottom margin remains parallel as well.
- B.** To access the top factory-prepped holes, gently tilt the bottom sash inward.
- C.** Check for plumb, level and squareness by taking diagonal measurements. Measurements must be within $\frac{1}{8}$ ". Adjust as needed. Tighten screws being careful not to bow the jambs.
- D.** If the margins are not parallel, follow the provided shimming instructions to correct them. Be cautious not to over-shim.
- E.** Double-check that the required head and sill margins are maintained throughout the installation process.
- F.** Ensure the proper use of shims by stacking them in a wedge shape, aligning them in contrast and flush with each other.
- G.** Once you've established the top and bottom jamb side margin gaps, adjust the remaining vertical margin to match.
- H.** The ideal vertical margin gap should fall between $\frac{1}{2}$ inch and $\frac{3}{4}$ inch. A gap narrower than $\frac{1}{2}$ inch can be overly tight, while if the weatherstrip does not make compressive contact with the jamb, the gap is too wide. Make sure to maintain weatherstrip contact between the sash and frame.
- I.** Double-check that the required head and sill margins are maintained throughout the installation process.



6.0

- A.** From the interior, close and lock the sash to visually inspect the sash-to-jamb margins. These margins must be equal and run parallel from the top to the bottom of the unit. The widths of the sash-to-jamb margins are crucial for achieving optimal air resistance performance.
- B.** Continuously monitor all margins throughout the entire installation process.
- C.** Position stacked shims adjacent to each factory-prepped screw location, with three shims on each side.
- D.** Place three shims next to each factory-prepped jamb screw location on each side. Ensure that the top shims are positioned 4 to 6 inches from the top of the unit, and the bottom shims are located 4 to 6 inches from the bottom of the unit. If the spacing between the side jamb shims exceeds 12 inches, include additional shims to maintain margins and stabilize the frame.
- E.** To accommodate vinyl expansion, avoid over-shimming, as excessive shimming may alter the margins and affect operational performance.
- F.** Perform a final check on all margins. Adjust both shims and screws as necessary to achieve and uphold equal and straight margins on all four sides. Verify the proper operation of the sashes.
- G.** If applicable, re-install the sash stops and balance covers.

