

eGLASS WINDOWS: Installation Instructions

FIXED VINYL WINDOWS WITH SWITCHABLE LC PRIVACY GLASS

Read these instructions completely before starting any installation of your eGlass Window. Failure to install and maintain our product according to these instructions may void the product warranty. These are generic instructions intended to cover most common installation conditions. They may not be appropriate for all installations due to your local building code requirements, building design, other construction materials or methods being used and/or building or site conditions. Inspect all units for any damage or defects prior to installation.

Tools Required by Installer:

- Safety Glasses
- Drill/Driver
- 7/8" Diameter Drill Bit
- Phillips #2 Screwdriver
- Level
- Hammer
- Putty Knife
- Utility Knife
- Caulk Gun
- Tape Measure
- J-Roller
- Staple Gun

Materials Required by Installer:

- Foam Backer Rod
- Shims (waterproof)
- Flashing Tape (Self-Adhering)
- Fasteners (Weather Resistant)
- Minimally Expanding Spray Foam
- Window & Door Silicone Sealant
- Water Resistive Barrier/House Wrap (WRB)
- Denatured Rubbing Alcohol

Installation Steps:

1. **Required:** Measure and verify the opening is sized correctly. The rough opening should be a minimum 1/2" (but not to exceed 1") wider and taller than the unit. Allow additional space for flashing thickness and the Romex wire attached to the window jamb.
2. **Required:** Check that the opening is square. The diagonal measurements need to be within 1/8" of each other.
3. **Required:** Verify the rough opening is plumb and level. The sill plate beneath the unit must be level for proper installation.
4. **Required:** Test glass with provided test cables.
5. **Recommended:** If a weather resistant barrier is used, follow the barrier manufacturer's instructions for treatment of window openings.
6. **Recommended:** If pan flashing is used, it should be installed at this time. Follow the manufacturer's instructions (or ASTM 2112 standards), making sure that the product provides an adequate sill dam height to the interior.
7. **Required:** Determine the location of the Romex wire on the window (top, left or right side). Use a 7/8" diameter drill bit to drill a hole through the rough opening framing for the wire to be pulled/ fed through. You may continue to pull/feed the wire all the way to its final destination now, or leave it for a later time.

8. **Required:** Apply a generous (at least 3/8" bead), continuous bead of exterior-grade sealant to ensure an adequate seal between the back of the nailing fin and the exterior surface of the sheathing material.

9. **Required:** Take the end of the Romex wire and slip it through the hole drilled into the rough opening framing.

10. **Required:** As the window is raised towards the rough opening, feed the Romex wire through the pre-drilled hole and position the window into the center of the rough opening. Set the bottom of the window on the sill if level, or if necessary, set on weather resistant shims (sill is not level).

11. **Required:** With a single fastener, fasten the window through the nailing fin through one hole nearest the top center.

12. **Required:** Square the window side to side (shimming if necessary) to maintain square and plumb jambs. Make sure the window sill and head are level and not crowned. A properly installed window will measure the same within 1/16" across the top, middle and bottom, and within 1/8" across the diagonals.

NOTE: Shim carefully – Over shimming can lead to bowing and crowning of the window frame.

13. **Required:** After checking for appropriate shimming of the window, complete the fastening by placing fasteners in the provided nailing fin holes all around the window.

14. **Recommended:** Following the flashing manufacturers' recommendations, apply flashing to the nailing fins and surrounding wall surface starting with the bottom, then the sides, and finally the top, creating a shingle effect.

15. **Required:** Fill interior cavity between the window unit and the rough opening framing using low expanding foam or loose insulation.

Precautionary Notes:

- Store windows and doors in an upright position (not horizontally) in a dry, well-ventilated location.
- Keep window and door units out of direct sunlight exposure during storage and remove protective films immediately after installation.

- For trim and siding, allow 1/8"-1/4" gap all the way around the window frame to allow for expansion. If exterior is brick or masonry, leave a 3/8" gap between the bottom sill of the window and the masonry to avoid "brick binding."

- Exterior wall systems like stucco and EIFS must be designed to manage moisture around the window opening.

- Follow the siding manufacturer's requirements for sealing between the siding and window frames.

- Any low-expansion foam used should conform to AAMA 812-04 (see manufacturer's requirements). Any binding or damage of any type caused by the insulation will not be covered under warranty.

- Do not paint any vinyl part of this window for any reason. Painting vinyl will render null and void all warranties.

- Do not block or seal weep holes.

- Foam Backer Rod and Window & Door Silicone Sealant should be used to seal voids to the exterior where water or air might infiltrate.

Wiring and Testing eGlass Windows:

After the window has been installed, and the wires have been routed to their end destination, but not attached to the Power Module, it's suggested that the connections be tested to ensure no shorts were created, and isolation from ground has been maintained. You can use the following procedure.

IMPORTANT: Do not touch either of the probes or test leads when measuring or you will obtain a false reading!

1. Attach an ohmmeter from each lead to ground (or the bx, or the metallic window frame.) There should be a completely open circuit. Any reading other than an open indicates a short somewhere that must be corrected before attaching the Power Surge Module.

2. Next, attach the ohmmeter across the 2 leads coming from each piece of glass. You should get a varying and fluctuating reading, anywhere from 500 ohms up to an "open" circuit.

3. Once you have confirmed the isolated integrity of the connections to each window, you can attach the wires from the window to the leads from the Power Module in accordance with the wiring instructions provided.