

Safe Handling and Installation Instructions for E Glass™

1. RECEIVING AND INSPECTION

- a. Inspect crates upon receipt from carrier for any visible damage to the crate. All glass is shipped in heavy duty wooden crates, and is usually affixed to a pallet in the upright, vertical position. If the crate appears to have been removed from the shipping pallet, carefully open the crate and inspect for damage.
- b. Do not turn glass crate on any edge other than the position and way it shipped, and was affixed to the pallet.
- c. Open crate on marked and designated side for opening. You may angle the entire crate and pallet at a 5 - 7 degree angle to facilitate unloading.
- d. Carefully unpack glass and inspect all wire exit points and nipples for potential shipping damage. Use of adequately sized suction cups is recommended when handling.
- e. Do not pull or stress any wires or connection nipples when unloading and handling the glass.
- f. Always store the glass in a vertical position, on edge, setting on soft wooden blocks, making certain that the wires and nipples are not on the bottom or compressed.
- g. Never lay the glass panels on a flat surface (ie: horizontally)
- h. It is suggested that each piece of glass be electrically tested prior to glazing with the following procedure:
 1. Temporarily attach the wire leads to 110V / 60 HZ electrical source and energize for a few seconds to confirm switching activity.
 2. Be careful when stripping the black Teflon-coated wires exiting the glass, ensuring that no stress is applied to the soldered connections to the busbars.
 3. Please note that once you disconnect from the electricity, the LC Privacy Glass may remain clear for up to 30 seconds. This is normal, and will not occur once hooked up to our Power Surge Modules. **It is important not to leave the glass energized in this manner (without the Power Surge Module) for more than 30 seconds or so, or permanent damage can occur.**

2. GLAZING:

If “Wet” glazing the panels, use only Dow Corning 995 Silicone Adhesive for the glazing bead. This is a non-acetic, neutral cure adhesive that are available in a variety of colors.

If “Butt” glazing the joints, then you can use **Dow Corning 1199**. Do NOT use Dow 1199 in an enclosed channel or frame. It can only be used when the bead is fully exposed to the air when curing. **Use of any other silicones or structural adhesives without the factory’s express written authorization will void the warranty of E Glass.**

- a. Do not attempt to drill or cut any panels. These are laminated, electrified panels, and any cutting, shaping or drilling has to be specified when ordering, and performed at the factory PRIOR TO LAMINATION!!
- b. Make certain that adequate weep holes are provided in the frame to ensure proper water drainage.
- c. Make certain that there are adequate clearance holes in the frames for the wires, nipples, or flexible conduit, to prevent any side or “off axis” pressure and stress.
- d. Make certain that adequately sized setting blocks are installed at quarter points to support the glass edges, as well as to prevent the glass from sitting in standing water.
- e. When installing Insulated Glass Units (IGU’s) make certain that the laminated panel containing the electrified film (Either LC or SPD) is the **INTERIOR** lite.
- f. Carefully insert glass into frames, ensuring that wires are not pinched, skinned or abraded when installing.
- g. If the glass appears tight in the frames, and the glass has been edge sealed around the perimeter, you might be able to trim the edging with a razor in certain areas. Use caution, because the wires could be routed and hidden right below the surface of the edge sealing tape. Do not attempt to cut the glass or grind the glass.

3. WIRING AND TESTING

- a. After the glass has been installed, and the wires have been routed, *but not attached* to the Power Modules, it is suggested that the connections be tested to ensure no shorts were created, and isolation from ground has been maintained using the following procedure:

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. Then 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.
- b. Once you confirmed the isolated integrity of the connections to each glass panel, you can attach to the Power Module in accordance with the wiring instructions provided with the device.