

Handling and Storage of Cardinal's LoE™ Coated Glass Products

Proper handling and storage of Cardinal's LoE coated glass products will assure the coated glass surfaces are not scratched or exposed to conditions which could cause defects in the coating. Listed below are recommendations on proper handling and storage of Cardinal's LoE coated glass products.

- Wear gloves when handling LoE coated glass. Soft cotton gloves are preferred; however, other types can be effective. It is extremely important that gloves be as clean as possible to prevent surface contamination from dirt, perspiration, fingerprints or any type of oil.
- Handle cut sizes by the edges, keeping the thumbs away from the coated surface. This helps reduce the possibility of contaminants from gloves contacting the coated glass surface.
- Handle a single lite at a time if possible. If glass lites must be stacked, do not slide glass lites over each other as this may cause scratching of the LoE coating.
- For stock sheets, vacuum cups should only be used on the non-coated surface. The coated surface should always be up on the cutting table. All processing of LoE coated glass should be with the coated surface away from the conveyer rollers.
- If glass racks become cold during shipping, wait until they reach ambient temperature before opening, as condensation may form.
- All LoE products should be stored in a clean/dry area inside at a recommended temperature of 72°F±10°F. The storage area should be away from areas with high humidity (i.e. washers), external doors, truck exhausts, acids, or other chemicals that may promote LoE corrosion.
- If a portion of the glass in stock sheets or boxed cut sizes is used, the remaining glass lites should be tightly packed, i.e. stretch wrapped to protect the LoE coating from possible corrosion. Non-permeable materials, such as polyethylene, should not be used as they can prevent water from evaporating.
- Storage conditions should be as constant as possible. Use large fans and create space between crates/racks to allow suitable air circulation. Caution should be taken that warm humid air is not drawn into the glass storage area.
- To prevent condensation on the glass the air temperature at the glass surface must be kept above the dew point of the ambient air. A relative humidity less than 60% is recommended.
- Environmental or local conditions not discussed in this TSB can also have an effect on coated glass. Any moisture or airborne volatiles that come in contact to the coating may contaminate it. Every effort should be made to make sure Cardinal LoE products are handled and stored properly.

Shelf Life

- LoE-i89® / LoE-x89®
 - Annealed & Temperable
 - Equivalent to standard float glass.
- All other LoE coatings
 - Annealed
 - Up to 6 months.
 - Temperable – Prior to Heat Treatment
 - Up to 3 months.

Additional handling information for Cardinal's LoE-i89 coating can be found in TSB #CG06

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