

## **WARRANTY**

Each unit of clear and tinted laminated safety sheet glass sold for architectural purposes, to be free from delamination for a period of five (5) years from date of manufacture.

This warranty does not apply to exposed edge laminates.

The warranty shall be void if architectural or security laminated glass products have been damaged in handling or installation or have not been installed with Lami Glass's Glazing Guideline; or have been subjected to stress or strain by reason of localized application of heat which caused excessive temperature differentials over the surface edges; or have not been protected against movement of building structure; or have been installed without provisions required by sound practices for adequate expansion and contraction of framing members; or have not been otherwise properly handled or installed. The manufacturer reserves the right to field inspect any architectural or security laminated glass products which is alleged to be defective.

Architectural or security laminated glass products glazed by materials which do not completely repel water for the life of the warranty, or with materials that deteriorate the architectural or security laminated glass products will not be covered by the warranty.

There is no warranty for glass breakage. The buyer is responsible for processing any and all freight claims.

This warranty does not apply to materials not paid for in full. This warranty does not apply to laminating of customers own products.

This warranty is in lieu of any other warranties, expressed or implied, as to merchant ability, fitness for a particular purpose or any other end purpose or use and there are no warranties that extend beyond the description on the face hereof. Buyer shall assume all risk and liability for result obtained by use of the products whether singly or in combination with other materials or products.

Due to the inclusions of hidden or visible "stones" in glass which are detrimental to the strength and appearance of glass and which may cause "spontaneous breakage" (most often found in tempered glass products). A warranty will not be considered or issued for breakage due to nickel sulfide, quartz, silicone, devitrication, scum, aluminous, cristobalite, batch or other stones formed by insoluble grains of contaminating materials and raw materials.

Liability under any warranty by Lami Glass is limited to the replacement of the materials only without charge, F.O.B. Lami Glass or, at the option of Lami Glass to refund the purchase price of the products. Lami Glass shall not be liable for any incidental or consequential expenses, such as labor costs arising from or alleged to have risen from the use of any glass covered hereby. This warranty does not cover replacement of architectural or security laminated glass products beyond the warranty period applicable to the original architectural or security laminated safety glass product purchased.

Lami Glass is not to be held liable for damages or expenses due to the following: late delivery of raw materials, manufacturing delays, defective or broken glass (except to extent of express warranty), internal errors, improper handling or negligence by buyer, delays due to strikes, fires, delay of carriers, priorities of the government or any department thereof, acts of God or acts that are unavoidable and beyond the control of Lami Glass.

## Caution - Guideline / Restrictions

1. Do not expose the edges of laminated security glass to organic solvents, acids or any cleaner with ammonia, which can react with the plastic components. Many solvents and aggressive cleaners can cause delamination in glass laminates and cracking and/or delamination in polycarbonates.
2. Solvent residue and fumes can damage the edges of both glass laminates and polycarbonates, and cause cracking of polycarbonate. All primers for frame and/or glass surfaces must be checked for polycarbonate, TPU and PVB compatibility.
3. Weep all exterior glazed units to the outside to allow for water drainage. Prolonged exposure to water, water vapor, solvents or solvent vapors may cause delamination, haziness around the periphery or polycarbonate cracking.
4. All glazing accessories are not compatible with polycarbonate, TPU and/or PVB. Always check with the manufacturer of glazing accessories for compatibility.  
*Note: Lami Glass' product warranty will be void if damage, delamination or cracking occurs due to material incompatibility.*
5. Proper lighting ratios are critical for optimum performance of Transparent Mirror.
6. The thermal properties of Lami Glass' security glass products are essentially equal to the same thickness of laminated glass. However, Lami Glass' laminated glass can be combined into insulating units for improved thermal performance.
7. Wire glass is not as strong as annealed glass. Consequently, wire glass is more susceptible to breakage from handling and during installation. Wire glass can be incorporated into some security glass products; however, this does not mean that the end product has been tested or has met its original testing criteria. Incorporating wire glass into laminates does not create a fire-rated product. Holes are not offered in these laminates. Please check with Lami Glass' Inside Sales Department for availability.
8. Lami Glass recommends that you view glass samples if you plan to incorporate reflective or tinted glass samples if you plan to incorporate reflective or tinted glass into security glass products to achieve a uniform exterior building appearance. Varying glass unit thickness] will affect aesthetic appearance. Contact Lami Glass' Inside Sales Department for specific limitations on the use of reflective glass in security laminates.

## Maintenance and Cleaning

### Glass-Clad Polycarbonate and Laminated Glass

Once security glass is installed, the glazing contractor should make provisions to ensure that the security components are protected from possible damage caused by the construction practices of other trades.

Take special care during the initial cleaning, the construction period or when glass surfaces are severely soiled. This prevents glass damage caused by abrasive contaminants. First, flush glass surfaces with clean water to remove as many contaminants as possible. With the glass surfaces still heavily wetted, carefully work a squeegee from top to bottom removing excess water. Ensure that any remaining abrasive materials do not become trapped between the glass surface and the rubber squeegee; otherwise, the glass surfaces may become scratched.

Then, clean the glass with a clean, soft, grit-free cloth and a mild, non-abrasive, non-alkaline cleaning solution. Rinse immediately with clean water and remove any excess water from the glass surfaces with a squeegee.

For routine cleaning, use a mild soap or detergent and lukewarm water. Uniformly spray the cleaning solution or apply it with a clean, soft, grit-free applicator and rinse thoroughly. Dry the glass surface with a clean, grit-free cloth or a squeegee. Do not allow any metal or hard parts of the cleaning equipment to contact the glass surfaces.

## **Laminated Polycarbonate and Unbalanced Glass and Polycarbonate Laminates**

Exposed polycarbonate or Spallshield surfaces require additional care to avoid damage and scratches. Do not use abrasive cleaners or cleaning products that can mar or gouge the surfaces. Wash polycarbonate laminates with a mild soap or detergent (e.g. Formula 409 All Purpose Cleaner) and lukewarm water, using a clean sponge or soft cloth. Rinse well with clean water. Dry thoroughly with a chamois or moist cellulose sponge to prevent water spots. *Do not use a squeegee or clean in the hot sun. Avoid cleaners that contain ammonia.*

Fresh paint splashes, grease and smeared glazing compounds can be removed easily before drying by rubbing lightly with a quality grade of VM&P naphtha or isopropyl alcohol. Afterward, finish with a warm wash, using a mild soap or detergent solution and ending with a thorough rinsing of clean water.

## **Inspection Guidelines**

Black specks are an inherent, allowable characteristic of the polycarbonate material used in Lami Glass' security glass products. Specifications regarding the allowable limits for size are set by industry standards. The extrusion process of polycarbonate material may produce a minor distortion that is noticeable under certain conditions. Holes, notches, pass-through's, etc. produce greater distortion around specific fabricated areas.