

INSTALLATIONS

Vertical Panels (Walls, Partitions, Doors, Cladding)

Vertically installed glass produced by Nathan Allan Glass Studios Inc. can be installed using various methods and hardware. It is very common to use wood or metal moldings on all 4 edges of our glass panels (both sides of glass), as well as using U-Channel for the top and bottom edges of our glass. When U-Channel is used top and bottom with multiple side x side panels, the vertical edges of the glass may remain clear without any adhesives or silicone, or the edges may be siliconed to provide additional rigidity in the panels, as well as additional sound proofing.

Glass Clips are another option available, and typically require holes or notches in the glass, to accommodate each clip.

Glass panels are often "pinned" onto back wall surfaces using Stainless Steel standoffs and mounting caps. Holes are required in the glass panels, and the installer must be aware of the "Rules of Thumb", regarding hole diameter sizes and the positions of each hole. This information can be provided by Nathan Allan Glass Studios Inc to each installing company, upon receiving the thickness and size of each glass panel.

In a cladding application, glass panels are often glued to the back vertical surface. It is important to make sure, where possible, that heavy panels receive support on the bottom edge of each panel, so that the full weight of the panel is not supported by the adhesive only. With certain types of colored glass, and specific types of installations, recommended adhesives are a Must, and installer must contact Nathan Allan for recommended brand of adhesives.

Horizontal Panels (Glasstops, Flooring, Stairtreads)

Glasstop panels are often connected to the millwork surface underneath the glass. Hardware discs may be used to adhere the glass to the millwork surface, or holes can be drilled through the glass with the glass attached to the millwork surface by a connecting bolt. Other attachment options include adhering the inside edges of the glasstop panels to the edge of the scabbard. Typically a clear silicone is used as it is not very visible. It's also important to use mildew resistant silicones in water/moisture areas.

Colored Glasstops and Colored Flooring panels are often glued to the underside supporting surface. Whether the supporting surface is concrete or wood, a proper adhesive is required. As a safety feature, it is important to limit contact between a glass surface and a hard surface, such as metal or concrete. Wood cladding over a hard surface is a common option. As well, spreading

an adhesive over the entire supporting surface helps to act as a cushion between the hard surface and the glass panel. Nathan Allan will provide information on the recommended adhesives.

Elevated Stairtreads require a "Special" set of installation instructions. Each set will be specific to the job at hand, based upon the type of structure supporting the glass and the makeup of the glass treads. This specialized installation information will be provided by our engineer and must be followed.

IMPORTANT NOTE: the installation information provided here is a basic guideline. We strongly recommend that clients consult with their installation company (often a glazier or millworker) who is able to visit the site to make specific recommendations.

MAINTENANCE

An incredible feature of kiln-formed glass is that is essentially a No-Maintenance product. As the surface of the glass is sealed during the casting process, the textured side never has to be cleaned. Even the smooth side of the glass is difficult to mark. Fingerprints will not show, or if they can be applied, the texture helps to camouflage the prints.

It is recommended that if the glass does not look dirty, do not clean it. If any marks do appear, use a standard glass cleaner or warm water. Always use a soft cloth or paper towel. Do not use anything abrasive, such as steel wool. Kiln-formed Glass will remain clear new in appearance for years to come.

WARRANTY

Nathan Allan provides a 1-year industry standard warranty against unnatural deterioration or defects, which may, but should not occur. We do not cover any breakage that may occur during the handling and installation of the product.

During the shipping process, from our factory to your location, Nathan Allan is responsible for any breakage. Upon arrival, product must be inspected for breakage. Any claim for breakage will only be honored if the driver of the common carrier is advised that product is broken upon delivery.

SAFETY GLASS WARNINGS

ALWAYS INSPECT GLASS FOR DAMAGE BEFORE HANDLING

USE SAFETY AND HEALTH PRACTICES APPROPRIATE FOR HANDLING GLASS INCLUDING PROPER PERSONAL PROTECTIVE EQUIPMENT FOR THE HANDS, FEET, HEAD, AND EYES

DAMAGED GLASS PRESENTING A HAZARD MUST BE SAFELY DISCARDED

ANNEALED GLASS is designated a NON-SAFETY GLASS PRODUCT unless permanently assembled in a certified safety laminated glass, as alone it does NOT meet the requirements of CPSC 16 CFR 1201 Cat I & II and ANSI Z97.1-2009 defining safety glass products for architectural safety glazing in the United States of America. Annealed glass must NEVER be used in those instances where an appropriately certified safety tempered or safety laminated glass is required by the law, thermal or mechanical loads, or applicable codes. Any alteration to the stress distribution of our ANNEALED GLASS is expressly PROHIBITED without prior written consultation. Examples of such prohibited alterations include tempering or strengthening by thermal or chemical means.

HEAT-STRENGTHENED GLASS is designated a NON-SAFETY GLASS PRODUCT unless permanently assembled in a certified safety laminated glass, as alone it does NOT meet the requirements of CPSC 16 CFR 1201 Cat I & II and ANSI Z97.1-2009 defining safety glass products for architectural safety glazing in the United States of America. Heat-strengthened glass must NEVER be used in those instances where an appropriately certified safety tempered or safety laminated glass is required by the law, thermal or mechanical loads, or applicable codes. Only glass fabricated by Precision Glass Bending, and issued with an individual permanent logo or certificate stating it has been heat-strengthened, is certified to be heat-strengthened.

All heat-strengthened glass can experience spontaneous breakage, though it is less prone to this than tempered glass. Any alteration to the stress distribution, surface or edge shape, or dimensions of our glass certified as HEAT-STRENGTHENED is expressly PROHIBITED. Examples of prohibited alterations include additional fabrication like cutting or grinding, or changes resulting from damage to the glass. Altered product that is unbroken may be breakage susceptible and must be safely discarded.

TEMPERED GLASS meeting the requirements of CPSC 16 CFR 1201 Cat I & II and ANSI Z97.1-2009 is defined as a SAFETY GLASS PRODUCT suitable for category I & II architectural safety glazing in the United States of America. Only glass fabricated by Precision Glass Bending, and issued with an individual permanent logo or certificate stating it has been tempered to meet the aforementioned requirements, is certified to be tempered with the Category I & II safety glass designation.

TEMPERED GLASS meeting the requirements of FMVSS 205, AS-2 (10.1.00) and ANSI Z26.1:1996 Item 2 is defined as a SAFETY GLASS PRODUCT suitable for AS2 motor vehicle safety glazing in the United States of America. Tempered glass meeting the requirements of FMVSS 205, AS-3 (10-1-00) and ANSI Z26.1:1996

Item 3 is defined as a SAFETY GLASS PRODUCT suitable for AS3 motor vehicle safety glazing in the United States of America. Only glass fabricated by Precision Glass Bending, and issued with an individual permanent logo or certificate stating it has been tempered to meet the aforementioned requirements, is certified to be tempered with the AS2 or AS3 safety designation.

All tempered glass, flat or bent, can experience spontaneous breakage. If broken, tempered glass falls out of its opening in interlocking clumps. For this reason, we recommend against using tempered glass for glazing above populated areas in commercial buildings and skylights in homes. Tempered glass can, on occasion, break into large shards rather than the classic tiny piece pattern.

Any alteration to the stress distribution, surface or edge shape, or dimensions of our glass certified as SAFETY TEMPERED is expressly PROHIBITED. Examples of prohibited alterations include additional fabrication like cutting or grinding, or changes resulting from damage to the glass. Altered product that is unbroken may be breakage susceptible and must be safely discarded.

LAMINATED GLASS meeting the requirements of CPSC 16 CFR 1201 Cat I & II and ANSI Z97.1-2009 is defined as a SAFETY GLASS PRODUCT suitable for Category I & II architectural safety glazing in the United States of America. Only glass fabricated by Precision Glass Bending, and issued with an individual permanent logo or certificate stating it has been laminated to meet the aforementioned requirements, is certified to be laminated with the Category I & II safety designation.

Laminated glass assembled with plies of annealed glass must NEVER be used in those instances where plies of heat-strengthened or tempered glass are required by the law, thermal or mechanical loads, or applicable codes. Only plies fabricated by Precision Glass Bending, and issued with an individual permanent logo or certificate stating they have been heat-strengthened or tempered, are certified to be heat-strengthened or tempered glass. All laminated glass assembled with plies of heat-strengthened or tempered glass can experience spontaneous breakage, though plies of heat-strengthened glass are less prone.

Any alteration to the surface or edge shape, dimensions, stress distribution (HS or Tempered Plies), or interlayer of our glass certified as SAFETY LAMINATED is expressly PROHIBITED. Examples of prohibited alterations include additional fabrication like cutting or grinding, or changes resulting from damage to the glass. Altered product that is unbroken may be breakage susceptible and must be safely discarded.

INSULATING GLASS UNITS are subject to the applicable warnings for each of the component glass products used as lites in the unit assembly. We recommend insulating units assembled using only a single lite of safety laminated glass NOT be installed directly overhead unless the laminated glass is in such a position as to minimize the risk of injury from falling glass in case of breakage. Unless we acknowledge and assemble otherwise, bent glass units assembled with only a single lite of safety laminated glass are assembled with the laminated glass placed as the concave lite.