

Installation Instructions

The following instructions represent general and accepted industry practices for product installation. It is not the intention of Isoclina Specialty Glass, LLC to exclude or prohibit other installation techniques that are appropriate to specific building designs.

Isoclina Specialty Glass, LLC's product must be installed in accordance with proper glazing techniques as set forth in the Glass Association of North America (GANA) Glazing Manual and Sealant Manual (most current edition). Clearance recommendations shown must be followed to protect all products from excessive pressure or glass-to-metal contact, which can cause breakage. Install setting blocks not less than four inches long and slightly wider than the glazing at quarter points. Incorporate a weep system into exterior glazing systems. The installation of glass should be considered a finishing procedure. During glazing, product surfaces should be protected from paint, plaster, chemical splash, grinding or welding spatters. Installed (or uninstalled) glazing containing protective masking that is exposed to direct sunlight, must have masking removed within fifteen (15) days to prevent difficult removal, staining or marring. For suggestions on protection, please reference our storage and handling instructions.

Some PVC, EPDM, neoprene gasket, sealant, and setting blocks are not compatible with Isoclina Specialty Glass, LLC products and can cause cloudiness and delamination. Care must be taken to ensure the edges of the laminates do not see exposure to prolonged moisture/water and solvents. Please refer to Isoclina Specialty Glass, LLC Cleaning Instructions section for cleaning solutions compatible with glass and plastics. Do not apply primers, sealant adhesives, devices, labels, surface applied films directly to the exposed polycarbonate or plastic surface or edge. Assume materials are not compatible unless they have been approved by Isoclina Specialty Glass, LLC. The following materials have been found to be compatible:

Compatible Sealants, Gaskets & Tapes:	
Silicone:	DOW DOWSIL™ 795, DOW DOWSIL™ 999A, GE SCS2000 SilPruf™, GE SCS1200
Gasket:	Tremco Silicone (70D), Tremco EPDM (60, 70D)
Butyl Tape:	KPTI 303, Isocryl 5600, Tremco 440
Setting Blocks:	Sanotoprene or Silicone. Silicone recommended.

Face, Edge, and Bite Clearance (see Figure 1 Below):

Product:	Thickness	Face	Edge	Bite
Laminated Glass	1/4" [6.4mm]	1/8" [3.2mm]	1/4" [6.4mm]	5/8" [15.9mm]
	1/2" to 1" [12.7 to 25.4mm]	1/4" [6.4mm]	3/8" [9.5mm]	5/8" [15.9mm]
Bullet Resistant (All Glass, Secur-Tem+Poly® & LEXGARD™)	3/4-2 1/8" [19.1-54mm]	1/8" [3.2mm]	3/8" [9.5mm]	1" [25.4mm]
Inferno-Lite®	13/16-1 1/8" [20.6-28.6mm]	1/8" [3.2mm]	1/4" [6.4mm]	3/4-1" [19.1-25.4mm]
Secur-Lite®	5/16-9/16" [7.9-14.3mm]	1/8" [3.2mm]	3/8" [9.5mm]	3/4-1" [19.1-25.4mm]
Secur-Temp®/Secur-Lite X®	7/16-15/16" [11.1-23.8mm]	1/8" [3.2mm]	1/4" [6.4mm]	1" [25.4mm]
Detention/Containment (SecurTem+Poly® & LEXGARD™)	7/16-2 1/2" [11.1-63.5mm]	1/8" [3.2mm]	1/4" [6.4mm]	1" [25.4mm]

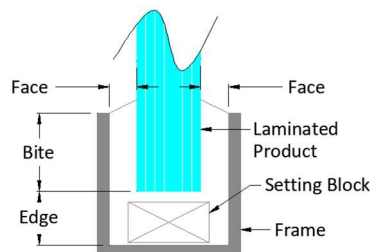


Figure 1 Face, Edge, and Bite.

Cleaning Instructions for Glass and Exposed Plastic

Glass and polycarbonate must be handled and cleaned properly during the installation process. Glass and polycarbonate products can be permanently damaged if improperly handled or cleaned. Isoclina Specialty Glass, LLC recommends strict compliance with the following procedures.

1. Uniformly apply a mild solution of soap (suggested dilution of few drops to a gallon [a few drops to 1L] of clean water) and water to the surface using applicator methods. Ensure cleaning solution does not enter glazing channel.
2. Rinse with clean water. Ensure water does not enter glazing channel.
3. Remove all liquid from the surface with a soft flannel, microfiber cloth or cotton cloth immediately following the application of the cleaning solutions.

Care should be taken to ensure that no metal, sand, or foreign particles become trapped between the cloth and the substrate (from residual debris on cleaning cloth, glazing itself or airborne). These particles, if allowed to contact the glass or polycarbonate surface, will mar, and damage the glazing. All cleaning solutions should be rinsed with clean water and thoroughly dried from the window gaskets and sealants to avoid the potential for deterioration as a result of the cleaning process. Do not apply cleaners in direct sunlight or at elevated temperatures, do not allow cleaning materials to stay on windows for a long duration which can lead to staining or discoloration. Do not use razor blades, or other sharp instruments, brushes, or squeegees to clean. Do not use abrasive or highly alkaline cleaners. Benzene, gasoline, aerosols, brake fluid, methyl alcohol/methanol, ethyl alcohol/ethanol, chloroform, acetone, methyl ethyl ketone (MEK), xylene, toluene, phenol, cutting oils/fluids, and carbon tetra-chloride should never be used on or near polycarbonate or other exposed plastic surfaces.

Cleaning should be done on an as needed basis to limit accidental exposure, streaking or damage to the windows. Cleaning of adjacent materials including but not limited to framing members, table surfaces, door hardware must use similar process & materials to avoid exposure from incompatible materials. Assume materials are not compatible unless they have been approved by Isoclina Specialty Glass, LLC. Cleaning agents found to be compatible with glass and polycarbonate and other exposed plastics are as follows:

Compatible Cleaners and Detergents:
Joy (Recommended 1ml Joy to 1L clean water)
Palmolive (Recommended 1ml Palmolive to 1L clean water)
Isopropyl Alcohol (50-99% concentration, only diluted with clean water)
For spot cleaning of difficult to remove residues:
WM&P Naptha or Isopropyl Alcohol-after spot cleaning: clean localized area as mentioned above, including rinsing and drying area thoroughly

Preventing debris and foreign material from contacting the glazing is key for avoid issues and experiencing a long successful service life. For additional details please see Isoclina Specialty Glass's Recommended Storage and Protection Guideline.



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