

# Installation Instructions

# Cleaning Instructions for Glass and Polycarbonate

The following instructions represent general and accepted industry practices for product installation. It is not the intention of Global Security Glazing to exclude or prohibit other installation techniques that are appropriate to specific building designs.

Global Security Glazing'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 1990 (or 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, or welding spatters. Polycarbonate surfaces exposed to direct sunlight must have masking removed and recovered with plastic film and duct taped to the frames. Failure to do so may cause staining or shadows later.

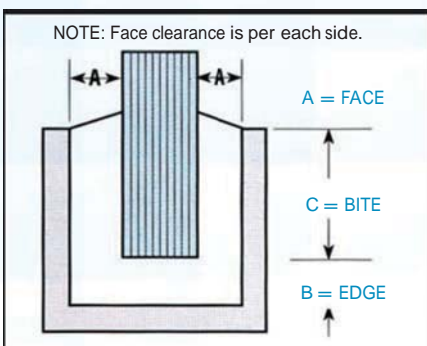
Some PVC, EPDM, neoprene gasket, sealant, and setting blocks are not compatible with Global Security Glazing products and can cause cloudiness and delamination. Please refer to Global Security Glazing Cleaning Instructions document for cleaning solutions compatible with glass and polycarbonate. Assume materials are not compatible unless they have been approved by Global Security Glazing. The following materials have been found to be compatible:

### Compatible Sealants, Gaskets, Tapes

Silicone: Dow 795, Dow 999, GE Silpruf, GE 1200  
 Gasket: Tremco Silicone (70D), Tremco EPDM (60,70D)  
 Tape: Tremco 440  
 Butyl Tape: KPTI 303, Isocryl 5600

### Face, Edge, and Bite Clearance

Product	Thickness	Face	Edge	Bite
Laminated Glass	1/4" 1/2" to 1"	1/8" 1/4"	1/4" 3/8"	5/8" 5/8"
Bullet Resistant (All Glass, Secur-Tem+Poly <sup>®</sup> , & Lexgard <sup>®</sup> )	3/4" to 2 1/8"	1/8"	3/8"	1"
Inferno-Lite <sup>®</sup>	13/16" to 1 1/8"	1/8"	1/4"	3/4" to 1"
Secur-Lite <sup>®</sup>	5/16" to 9/16"	1/8"	3/8"	3/4" to 1"
Secur-Tem <sup>®</sup> / Secur-Lite X <sup>®</sup>	7/16" to 15/16"	1/8"	1/4"	1"
Detention/Containment (Secur-Tem+Poly <sup>®</sup> & Lexgard <sup>®</sup> )	7/16" to 2 1/2"	1/8"	1/4"	1"



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. Global Security Glazing recommends strict compliance with the following procedures.

Uniformly apply a mild solution of soap and water or a non-abrasive commercial window-washing solution to the surface using applicator methods. Remove all liquid from the surface with a soft flannel 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. These particles, if allowed to contact the glass or polycarbonate surface, will mar and damage the glazing. All cleaning solutions should be 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 use razor blades or squeegees to clean hard-to-remove substances. Do not use abrasive or highly alkaline cleaners. Benzene, gasoline, acetone, MEK, and carbon tetra-chloride should never be used on polycarbonate surfaces. Assume materials are not compatible unless they have been approved by Global Security Glazing. Cleaning agents found to be compatible with glass and polycarbonates are as follows:

### Compatible Cleaners and Detergents

Formula 409	Joy
Windex with Ammonia D	Palmolive
VM & P Naphtha Grade	Isopropyl Alcohol



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