

PRODUCT DATA SHEET

SMARTGARD SECURITY GLAZING GCPHG1316

PRODUCT #: GCPHG1316

DESCRIPTION:

A symmetrical composite of two 1/8" clear or tinted glass outer lites, clear adhesive interlayers, and a high quality MAKROLON® HYGARD CG500 laminated polycarbonate core. All AIT security products are custom manufactured to be utilized in secure environments where consistent quality and optimum optical clarity are priorities. MAKROLON® HYGARD CG500 sheet is a three-ply laminated polycarbonate constructed with two 1/8" and one 1/4" layers of MAKROLON® polycarbonate sheet bonded by an adhesive interlayer. MAKROLON® HYGARD CG500 sheet satisfies the requirements of ASTM F1915-Grade 2.

FEATURES:

- Makrolon Hygard Core
- Attack resistant (40 min)
- Ballistic properties (low spall)
- Glass on interior and exterior surfaces.

CONSTRUCTION:	PERFORMANCE DATA:				
Attack side / Outboard / Exterior .125" Annealed or Heat-Treated Clear Glass .050" Bonding Interlayer .118" Uncoated Polycarbonate Sheet .025" Bonding Interlayer .236" Uncoated Polycarbonate Sheet .025" Bonding Interlayer .118" Uncoated Polycarbonate Sheet .050" Bonding Interlayer .125" Annealed or Heat-Treated Clear Glass	Max Dimension: Nominal Thickness: Thickness Tolerance:		60" x 96" (standard) (larger sizes may be available – contact us) 0.872" 0.843" to 0.901" 7.22 Lbs. / Square Foot		
	U-VALUE	SHGC	No bullet penetrat VISUAL LIGHT TRANS.	SHADING	RELATIVE GAIN
	.71	.72	.78	.82	173.6
	*Calculated using LBL Window Software v7.6.4				

COMPLIANCES:

- ASTM C1036 Standard Specification Flat Glass
- ASTM C1172 Standard Specification for Laminated Architectural Flat Glass Made from UL 972 Listed Polycarbonate Sheet
- ASTM C1048 Standard Specification-Heat Treated Glass

INSTALLATION SPECIFICATIONS:

AIT strongly suggests the use of a suitable structural security framing with an appropriate protection rating. Allow for a minimum of a (1) inch edge engagement in the frame with sufficient rabbet depth to allow for expansion (approximately 1/16"/FT). Only use sealants and gaskets that are compatible with polycarbonate. Remove protective masking when installation is complete and before prolonged exposure to sunlight, weather, and moisture.

ADD-ON OPTIONS & ADDITIONAL INFO:

Some additional combination options may include:

- Insulated glass units with
 Tinted glass air or argon gas fills
 - Textured glass
- Spandrel glass
- Smart Glass instantly switchable privacy glass

• ANSI Z97.1 - Safety Materials Used in Buildings

- Various low-e coatings
- Mirropane one-way Logos or signage in glass Custom designs & make-ups

Colored Interlayers

• Smart Designs - decorative options inside glass

- Varied thicknesses
- mirror
- Fire rated glass

Contact an AIT representative for all possible options, or custom makeups.

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