

PRODUCT DATA SHEET

SMARTGARD SECURITY GLAZING

GCPHG1516 - (MAKROLON® HYGARD CG500 Core)

PRODUCT #: GCPHG1516

DESCRIPTION:

A symmetrical composite of two 3/16" 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 .187" Annealed or Heat-Treated 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 .118" Uncoated Polycarbonate Sheet .050" Bonding Interlayer .187" Annealed or Heat-Treated Glass **	Max Dimension: Nominal Thickness: Thickness Tolerance: Weight: Attack Rating: Ballistic Rating:		60" x 96" (standard) (Larger sizes may be available – contact us) 0.996" 0.963" to 1.029" 8.83 Lbs. / Square Foot ASTM F1915 Grade 2 (40-minute attack) HP White TP-0500.03 Level II Forced Entry WMFL Level II (60 minute) No bullet penetration & Low Spall		
	U-VALUE	shgo	.77	SHADING COEFFICIENT .79	RELATIVE HEAT GAIN 167.52
Protection side / Inboard / Interior		*Calci	ulated using LBL Window S	опware v7.6.4	

COMPLIANCES:

- ASTM C1036 Standard Specification Flat Glass
- ASTM C1048 Standard Specification-Heat Treated Glass
- ASTM C1349 Standard Specification-Flat Glass Clad PC
- ANSI Z97.1 Safety Materials Used in Buildings
- CSPC 16 CFR1201 Cat 1 & 2 for Impact
- Made from UL 972 Listed Polycarbonate Sheet

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
 - Textured glass
- Spandrel glass
- Smart Glass instantly switchable privacy glass

- air or argon gas fills
- Colored Interlayers
- Smart Designs decorative options inside glass

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

Varied thicknesses

mirror

• Signals Defense anti-eavesdropping protection

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

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MANUFACTURED BY: THE AIT GROUP

