

PRODUCT DATA SHEET

SMARTGARD SECURITY GLAZING

GCPHG1616 - (MAKROLON® HYGARD CG750 Core)

PRODUCT #: GCPHG1616

DESCRIPTION:

A symmetrical composite of two 1/8" clear or tinted glass outer lites, clear adhesive interlayers, and a high quality MAKROLON® HYGARD CG750 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 CG750 sheet is a three-ply laminated polycarbonate constructed with two 1/8" and one 1/2" layer of MAKROLON® polycarbonate sheet bonded by an adhesive interlayer. MAKROLON® HYGARD CG750 sheet satisfies the requirements of ASTM F1915-Grade 1.

FEATURES:

- Makrolon Hygard Core
- Attack resistant (60 min)
- Ballistic properties (low spall)
- Glass on interior and exterior surfaces.

CONSTRUCTION:	PERFORMANCE DATA:				
Attack side / Outboard / Exterior .125" Annealed or Heat-Treated Glass **	Max Dimension: Nominal Thickness:		60" x 96" (standard) (Larger sizes may be available – contact us)		
.050" Bonding Interlayer .118" Uncoated Polycarbonate Sheet .025" Bonding Interlayer .500" Uncoated Polycarbonate Sheet .025" Bonding Interlayer .118" Uncoated Polycarbonate Sheet .050" Bonding Interlayer .125" Annealed or Heat-Treated Glass ***	Thickness Tolerance: Weight:		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Attack Rating: Ballistic Rating:		ASTM F1915 Grade I (60-minute attack) HP White TP-0500.03 Level III Forced Entry WMFL Level II (60 minute) ASTM F1233 Class 3.5 Sequence 22 HP White TP-0500.03 / UL752. 9mm / .38 Special / .357 - (3 shot) No bullet penetration & Low Spall		
1725 / Williams of Freder Frederica Glass	U-VALUE	SHGC	TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN
Protection side / Inboard / Interior	*Calculated using LBL Window Software 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 Varied thicknesses
- mirror
- Fire rated glass
- Mirropane one-way Logos or signage in glass Custom designs & make-ups • Signals Defense anti-eavesdropping protection

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

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MANUFACTURED BY: