

# PRODUCT DATA SHEET

### SMARTGARD SECURITY GLAZING

## GCPHG2216MOD - (MAKROLON® HYGARD CG750 Core)

PRODUCT #: GCPHG2216MOD

#### **DESCRIPTION:**

A asymmetrical composite of one 1/4" clear or tinted glass outer lite on the attack side, clear adhesive interlayer's, and a high quality MAKROLON® HYGARD CG750 laminated polycarbonate core. The protection side has an abrasion resistant polycarbonate spall shield over 3/16" glass for no spalling. 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	Max Dimension:		60" x 96" (standard)		
.250" Annealed or Heat-Treated Glass **	Nominal Thickness:		(Larger sizes may be available – contact us)  1.491"		
	Thickness Tolerance:		1.441" to 1.541"		
	Weight: 1		12.34 Lbs. / Square Foot		
	Attack Rating: ASTM F1915 Grade I (60-minute attack) ASTM F1233 – Class III				
	Ballistic Rating: UL752 Level III44 mag - (3 shots)			•	
	No bullet penetration & No Spall				
.187" Annealed or Heat-Treated Glass ** .050" Bonding Interlayer	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN
.118 Abrasion Resistant Polycarbonate Spall Shield	.59	.67	.67	.77	161.19
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
- Spandrel glass
- Smart Glass instantly switchable privacy glass

- air or argon gas fills Various low-e coatings
- Textured glass
- Colored Interlayers
- Smart Designs decorative options inside glass

- Varied thicknesses
- mirror
- Mirropane one-way
   Logos or signage in glass
   Custom designs & make-ups
  - · Fire rated glass
- Signals Defense anti-eavesdropping protection

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

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MANUFACTURED BY:



