

## **PRODUCT DATA SHEET**

## SMARTGARD SECURITY GLAZING GCPHG2216 - (MAKROLON® HYGARD CG750 Core) PRODUCT #: GCPHG2216

## **DESCRIPTION:**

A symmetrical composite of two 1/4" 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	Max Dim	Max Dimension: 60" x 96" (standard)				
.250" Annealed or Heat-Treated Glass **			rger sizes may t	oe available – co	ontact us)	
	Nominal Thickness: 1.386"					
.050" Bonding Interlayer	Thickness Tolerance: 1.340" to 1.432"					
.118" Uncoated Polycarbonate Sheet		Weight: 12.11 Lbs. / Square Foot Attack Rating: ASTM F1915-03 Grade 1 (60-minute attack)				
.025" Bonding Interlayer	Attack		1 M F1915-03 G 1FL Level II (60		ute attack)	
.500" Uncoated Polycarbonate Sheet			TM FI233 – Cla		<u>م</u> 22	
.025" Bonding Interlayer	Ballistic	Ballistic Rating: Designed		esigned for .44 mag - (25 shot)		
.118" Uncoated Polycarbonate Sheet	24			let penetration & Low Spall		
.050" Bonding Interlayer				· · · · · ·		
.250" Annealed or Heat-Treated Glass **	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN	
	.62	.66	.69	.76	159.94	
ASTM C1036 – Standard Specification – Flat Glass ASTM C1048 Standard Specification-Heat Treated Gla ASTM C1349 Standard Specification-Flat Glass Clad PC						
				sted i olycai bo		
	ATION SPECIFIC					
	urity framing wit t rabbet depth t rbonate. Remove	h an appropr o allow for e	xpansion (appro	oximately 1/16"	/FT). Only	
INSTALI AIT strongly suggests the use of a suitable structural sec of a (1) inch edge engagement in the frame with sufficien use sealants and gaskets that are compatible with polycal before prolonged exposure to sunlight, weather, and mo	urity framing wit t rabbet depth t rbonate. Remove	h an appropr o allow for e e protective	xpansion (appro masking when ii	oximately 1/16"	/FT). Only	
INSTALI AIT strongly suggests the use of a suitable structural sec of a (1) inch edge engagement in the frame with sufficien use sealants and gaskets that are compatible with polycal before prolonged exposure to sunlight, weather, and mo ADD-ON OF come additional combination options may include: Insulated glass units with • Tinted glass • Sp air or argon gas fills • Textured glass • Co Various low-e coatings • Mirropane one-way • Lo	urity framing wit t rabbet depth t rbonate. Remove isture. PTIONS & ADDIT andrel glass plored Interlayer	h an appropro o allow for e protective IONAL INFO • Sm • Sm • Sm • glass • Cu	xpansion (appro masking when in art Glass – inst art Designs - de	antly switchable corative optio make-ups	/FT). Only mplete and e privacy gla ns inside gla	



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MANUFACTURED BY: THE AIT GROUP

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