



PRODUCT DATA SHEET

SMARTGARD GCPI416 SECURITY GLAZING

with Annealed or Heat-Strengthened Glass

PRODUCT #: GCPI416

DESCRIPTION:

A three-ply symmetrical glass clad polycarbonate composite of two 1/8" layers of clear or tinted annealed or heat-strengthened glass, clear adhesive interlayers, and a core of two high quality 1/4" MAKROLON® polycarbonate sheets bonded by adhesive. Ideal glazing for detention and containment applications requiring glass surfaces.

FEATURES:

- Attack resistant (20 min)
- Ballistic properties (low spall)
- Glass on interior and exterior surfaces.

CONSTRUCTION:	PERFORMANCE DATA:										
.125" Annealed or Heat-Strengthened Glass** .050" Bonding Interlayer .236" Uncoated Polycarbonate Sheet .025" Bonding Interlayer .236" Uncoated Polycarbonate Sheet .050" Bonding Interlayer .125" Annealed or Heat-Strengthened Glass**	Max Dimension: 60" x 96" (standard)										
	Thickness: 0.872"										
	Thickness Tolerance: 0.843" to 0.901"										
	Weight: 7.13 Lbs. / Square Foot										
	Attack Rating: ASTM F1915 Grade 2 (40 min attack)										
	Ballistic Rating: 9mm / .38 Special / .357 - (3 shot) No bullet penetration / Low Spall										
	<table border="1"> <thead> <tr> <th>U-VALUE</th> <th>SHGC</th> <th>VISUAL LIGHT TRANS..</th> <th>SHADING COEFFICIENT</th> <th>RELATIVE HEAT GAIN</th> </tr> </thead> <tbody> <tr> <td>.76</td> <td>.72</td> <td>.78</td> <td>.82</td> <td>174.35</td> </tr> </tbody> </table>	U-VALUE	SHGC	VISUAL LIGHT TRANS..	SHADING COEFFICIENT	RELATIVE HEAT GAIN	.76	.72	.78	.82	174.35
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	<i>*Calculated using LBL Window Software</i>										

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
- 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

Additional options include: Pilkington Mirropane®, Hard Coated Low E, (Wire Glass-Fire Rated-Ref GCPFR0850), Air-Gap Units, Insulated Glass Units, Signals Defenses SD1000 & SD2500 RF/IR Barrier Films, LTI Electrified Switchable Privacy Glass (Smart Glass), and Graphics inside the laminate (Smart Designs).

* Values referenced are for clear product. Tinted glass with translucent bonding interlayers are available, minimums may apply. When specifying tinted or translucent SMARTGARD laminated polycarbonate and/or glass clad polycarbonate contact AIT for details on availability and minimums.

** On larger units AIT recommends increasing exterior glass layer from 1/8" to 3/16" heat-strengthened glass and will do so upon request at no additional cost to our customers - thickness will increase by 1/8" and weight will increase by 1.5 lb/sqft.

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FOR MORE INFORMATION, PLEASE CONTACT:

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