



PRODUCT DATA SHEET

SMARTGARD SECURITY GLAZING GCPI116

PRODUCT #: GCPI116

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 high quality 3/8" MAKROLON® polycarbonate sheet core. 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:										
<p><i>Attack side / Outboard / Exterior</i></p> <p>.125" Annealed or Heat-Strengthened Glass**</p> <p>.050" Bonding Interlayer</p> <p>.375" Uncoated Polycarbonate Sheet</p> <p>.050" Bonding Interlayer</p> <p>.125" Annealed or Heat-Strengthened Glass**</p> <p><i>Protection side / Inboard / Interior</i></p>	<p>Max Dimension: 60" x 96" (standard)</p> <p>Nominal Thickness: 0.719"</p> <p>Thickness Tolerance: 0.694" to 0.742"</p> <p>Weight: 6.17 Lbs. / Square Foot</p> <p>Attack Rating: ASTM F1915 Grade 3 (20 min attack)</p> <p>Ballistic Rating: HP White TP-0500.03 9mm/.38 Special (3 shot) No bullet penetration / Low Spall</p> <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> <p><i>*Calculated using LBL Window Software v7.6.4</i></p>	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN	.76	.72	.78	.82	174.35
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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:

** 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.

Some additional combination options may include:

- Insulated glass units with air or argon gas fills
- Varied thicknesses
- Spandrel glass
- Smart Glass – instantly switchable privacy glass
- Tinted glass
- Colored Interlayers
- Smart Designs - decorative options inside glass
- Various low-e coatings
- Textured glass
- Logos or signage in glass
- Custom designs & make-ups

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

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