



# PRODUCT DATA SHEET

## SMARTGARD SECURITY GLAZING

### CP500

1/2" CONTAINMENT GRADE POLYCARBONATE COMPOSITE

PRODUCT #: CP500

#### DESCRIPTION:

A three-ply laminate composite constructed with polycarbonate core layers bonded together with adhesive interlayers. The exposed surface on the interior and exterior is an abrasion polycarbonate.

#### FEATURES:

- Attack resistant
- Ballistic
- Abrasion resistant surfaces

CONSTRUCTION:	PERFORMANCE DATA:										
<i>Attack side / Outboard / Exterior</i>	Max Dimension: 72" x 96" (standard)										
.118" Polycarbonate Layer (Abrasion resistant)	Thickness: Nominal: 1/2" • Actual: 0.522"										
	Thickness Tolerance: 0.505" to 0.539"										
	Weight: 3.3 Lbs. / Square Foot										
	Forced Entry & Containment Rating: ASTM F1915 Grade 2 (40 min attack) HP White TP-0500.03 Level 2 Step 15 WMFL Level II (60 min attack)										
.025" Urethane Bonding Interlayer	Ballistic Rating: HP White TP-0500.03 .38 Special, 3 shots in 8" circle, 158 grain lead round nose. No bullet penetration										
.236" Polycarbonate Layer											
.025" Urethane Bonding Interlayer											
.118" Polycarbonate Layer (Abrasion resistant)											
<i>Protection side / Inboard / Interior</i>											
	<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>.77</td> <td>.78</td> <td>.78</td> <td>.90</td> <td>189.62</td> </tr> </tbody> </table>	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN	.77	.78	.78	.90	189.62
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	<i>*Calculated using LBL Window Software v7.7.1</i>										

#### COMPLIANCES:

- CPSC 16 1201 (Category I and II)
- 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:

Some additional combination options may include:

- One-way mirror
- Insulated glass units with air or argon gas fills
- Various low-e glass
- Glass cladding (GCP)
- Varied thicknesses
- Tinted appearance
- Machining: shapes, notches, or holes
- Textured glass
- Colored Interlayers
- Logos or signage in-between layers
- Smart Glass – instantly switchable privacy glass
- Smart Designs - decorative options inside glass
- Custom designs & make-ups
- Installation consultation or services

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

v2020.05.04.PTH