



# PRODUCT DATA SHEET

## SMARTGARD SECURITY GLAZING

### BPI250

PRODUCT #: AIT-BPI250

#### DESCRIPTION:

A symmetrical four (4) ply abrasion resistant laminated polycarbonate sheet.

The demands for security glass are increasing. The AIT Group Smartgard Series products are custom manufactured to be utilized in secure environments where consistent quality and optimum optical clarity are priorities.

#### FEATURES:

- All polycarbonate
- Abrasion resistant surfaces

CONSTRUCTION:	PERFORMANCE DATA:										
<i>Attack side / Outboard / Exterior</i>	<b>Max Dimension:</b> 72" x 96"										
.118" Polycarbonate Sheet (Exposed surface abrasion resistant)	<b>Nominal Thickness:</b> 1.311"										
.025" Urethane Bonding Interlayer (Translucent White Available)	<b>Thickness Tolerance:</b> 1.267" to 1.355"										
.500" Polycarbonate Sheet	<b>Weight:</b> 8.19 Lbs. / Square Foot										
.025 Urethane Bonding Interlayer	<b>Forced Entry &amp; Containment:</b> ASTM F1915 Grade I (60 Minute Attack) HP White TP.0500.03 Level V Sequence 44 ASTM F1233 Class 5										
.500" Polycarbonate Sheet	<b>Ballistics:</b> UL 752 Level 3 .44 mag										
.025" Urethane Bonding Interlayer	<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>.54</td> <td>n/a</td> <td>.68</td> <td>.81</td> <td>n/a</td> </tr> </tbody> </table>	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN	.54	n/a	.68	.81	n/a
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.118" Polycarbonate Sheet (Exposed surface abrasion resistant)	<i>*Calculated using LBL Window Software v7.7.1</i>										
<i>Protection side / Inboard / Interior</i>											

#### COMPLIANCES:

- CCI Combustibility Class
- Made from UL 972 Listed Polycarbonate Sheet
- ANSI Z97.1 - Safety Materials Used in Buildings
- CPSC 16 1201 (Category I and II)

#### 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). Larger lites may require deeper edge engagements. It is imperative to the life and durability of certain composite types that compatible sealant or gasket material is used on both sides of the laminate. An appropriate sealant solution can be specified by AIT if required. Remove protective masking when installation is complete and before prolonged exposure to sunlight, weather, and moisture. The AIT Group produces the finest glass and composite laminates in the world, proper care during installation will ensure years of superior performance.

#### ADD-ON OPTIONS & ADDITIONAL INFO:

Some additional combination options may include:

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

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

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