



PRODUCT DATA SHEET

SMARTGARD SECURITY GLAZING BR2

PRODUCT #: BR2

DESCRIPTION:

A bullet resistant, no-spall asymmetrical laminate constructed with glass, and polycarbonate bonded together with adhesive interlayers and an abrasion resistant spall shield. 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:

- Bullet resistant
- No spall
- Abrasion resistant spall shield

CONSTRUCTION:	PERFORMANCE DATA:										
<i>Attack side / Outboard / Exterior</i>	Max Dimension: 60" x 96" (standard) (larger sizes may be available – contact us)										
Proprietary BR2 Layers (Abrasion resistant polycarbonate spall shield)	Nominal Thickness: 0.946"										
	Thickness Tolerance: 0.884" to 1.08"										
	Weight: 10.2 Lbs. / Square Foot										
	Ballistic Rating: UL752 Level 2 .357 Magnum – 3 shots No bullet penetration / No 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>.80</td> <td>.64</td> <td>.77</td> <td>.73</td> <td>156.61</td> </tr> </tbody> </table>	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN	.80	.64	.77	.73	156.61
U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN							
.80	.64	.77	.73	156.61							
<i>Protection side / Inboard / Interior</i>	<i>*Calculated using LBL Window Software v7.6.4</i>										

COMPLIANCES:

- ASTM C1036 – Standard Specification – Flat Glass
- ASTM C1172 – Standard Specification for Laminated Architectural Flat Glass
- ANSI Z97.1 - Safety Materials Used in Buildings
- CPSC 16 CFR 1201

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).

**** ALWAYS INSTALL WITH SPALL SHIELD TO "PROTECTION" SIDE ****

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. 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
- Tinted glass
- Spandrel glass
- Smart Glass – instantly switchable privacy glass
- Various low-e coatings
- Textured glass
- Colored Interlayers
- Smart Designs - decorative options inside glass
- Varied thicknesses
- Mirropane one-way mirror
- Logos or signage in glass
- Custom designs & make-ups
- Fire rated glass

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

v2021.02.25.PTH