

**SCHOOL GUARD GLASS™ SECURITY GLAZING  
1-1/8" LAMINATED INSULATED GLASS UNIT**

## SG5 with Vitro Solarban 70 Low-e on Optigray

ARGON GAS FILLED

PRODUCT #: SGG-IG18.SG5.SB70-OGGRAY-T4.SP6-ARG

**DESCRIPTION:**

An attack resistant insulated glass unit with a tempered 1/4" exterior Optigray Tint glass pane coated with Vitro Solarban 70 low-e on surface #2. SG5 is a laminated glass composite product composed with outer layers of glass with a custom security strengthened substrate core. It is specifically designed to slow down intruders but is not bullet resistant to certain ballistic threats. When shot, it will not shatter like ordinary tempered glass and is far stronger than laminated glass of glass reinforced with security film. SG5 remains in the frame blocking the intruder from entry.

**FEATURES:**

- SG5 attack resistant
- Insulated glass unit
- Argon gas filled
- Solarban 70 low-e on Optigray tint.

CONSTRUCTION:	PERFORMANCE DATA:										
<i>Attack side / Outboard / Exterior</i>	Max Dimension: 48" x 96" (standard)										
1/4" Tempered Optigray Glass w/ Solarban 70 Low-e (#2)  3/8" Argon Gas Filled Space  1/2" Patented School Guard SG5	Nominal Thickness: 1-1/8"										
	Weight: 7.74 Lbs. / Square Foot										
	Attack Rating: 5-aa1 rated for 12 minutes ASTM F1233 Class 1.4										
<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 style="text-align: center;">.23</td> <td style="text-align: center;">.22</td> <td style="text-align: center;">.42</td> <td style="text-align: center;">.25</td> <td style="text-align: center;">53.04</td> </tr> </tbody> </table>	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN	.23	.22	.42	.25	53.04
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	<i>*Calculated using LBL Window Software v7.7.1</i>										

**COMPLIANCES:**

- ASTM C1036 – Standard Specification – Flat Glass
- ASTM C1172 – Standard Specification for Laminated Architectural Flat Glass
- ASTM E2190 – Standard Specification for IGU Performance
- ANSI Z97.1 - Safety Materials Used in Buildings
- CPSC 16 CFR 1201

**INSTALLATION SPECIFICATIONS:**

Follow basic installation specifications detailed by window/door framing vendor and School Guard Glass must also be installed with wet structural glazing techniques outlined by separate SGG install specifications.

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

Some additional combination options may include:

- Monolithic versions
- Air or argon gas fills
- Various low-e coatings
- Various spacers/sizes
- Tinted glass
- Textured glass
- Spandrel glass
- Colored Interlayers
- Logos or signage in glass
- Smart Glass – instantly switchable privacy glass
- Smart Designs - decorative options inside glass
- Custom designs & make-ups

Contact a School Guard Glass or AIT representative for all possible options, or custom makeups.

**School Guard Glass - +1 (844) 744-5277 - [www.schoolguardglass.com](http://www.schoolguardglass.com)**

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