

## SCHOOL GUARD GLASS™ SECURITY GLAZING

### SG5 with Vitro Solarban 90 Low-e on Optigray

1-1/8" LAMINATED INSULATED GLASS COMPOSITE – AIR FILLED

PRODUCT #: SGG-IG18.SG5.SB90-OGRAY-T4.SP6-AIR

#### DESCRIPTION:

An attack resistant insulated glass unit with 1/4" clear tempered glass coated with Vitro Solarban 90 low-e on Optigray tinted glass as the outer lite, and SG5 on the inner lite, separated by a 3/8" spacer. 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
- Air filled
- Solarban 90 low-e
- Optigray tint glass

CONSTRUCTION:	PERFORMANCE DATA:										
<i>Attack side / Outboard / Exterior</i>	<p>Max Dimension: 48" x 96" (standard)</p> <p>Nominal Thickness: 1-1/8" (1.25")</p> <p>Weight: 7.89 Lbs. / Square Foot</p>										
1/4" Tempered Optigray Glass w/ Solarban 90 Low-e (#2)	<p>Attack Rating: 5-aa I rated for 12 minutes ASTM F1233 Class I.4</p>										
3/8" Air Filled Space	<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;">.29</td> <td style="text-align: center;">.20</td> <td style="text-align: center;">.33</td> <td style="text-align: center;">.23</td> <td style="text-align: center;">50.01</td> </tr> </tbody> </table>	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN	.29	.20	.33	.23	50.01
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1/2" Patented School Guard SG5	*Calculated using LBL Window Software v7.7.1										
<i>Protection side / Inboard / Interior</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
- Various spacers/sizes
- Spandrel glass
- Smart Glass – instantly switchable privacy glass
- Air or argon gas fills
- 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 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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