

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

## SG5 with all Low Iron Glass and Vitro SN 68 Low-e

ARGON GAS FILLED

PRODUCT #: SGG-IG16.SG5-LI.SN68-LI-3T.SP5-ARG

**DESCRIPTION:**

An attack resistant insulated glass unit with an outboard 3/16" pane of Vitro Ultraclear low-iron tempered glass coated with Super Neutral 68 low-e on surface two. 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
- All low-iron glass
- Tempered outer lite
- SN 68 low-e
- Argon gas filled

CONSTRUCTION:	PERFORMANCE DATA:										
<i>Attack side / Outboard / Exterior</i>	<p>Max Dimension: 48" x 96" (standard)</p> <p>Nominal Thickness: 1"</p> <hr/> <p>Weight: 7.26 Lbs. / Square Foot</p> <p>Attack Rating: 5-aa I rated for 12 minutes ASTM F1233 Class I.4</p>										
<p>3/16" Tempered Low Iron Glass w/ SN 68 Low-e (#2)</p> <p>5/16" Argon Gas Filled Space</p> <p>1/2" Patented School Guard SG5-LI (SG5 laminate w/ all glass as low-iron)</p>	<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;">.26</td> <td style="text-align: center;">.38</td> <td style="text-align: center;">.65</td> <td style="text-align: center;">.44</td> <td style="text-align: center;">92.07</td> </tr> </tbody> </table> <p style="text-align: center;"><i>*Calculated using LBL Window Software v7.7.1</i></p>	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN	.26	.38	.65	.44	92.07
U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN							
.26	.38	.65	.44	92.07							
<i>Protection side / Inboard / Interior</i>											

**COMPLIANCES:**

- ASTM C1036 – Standard Specification – Flat Glass
- ASTM E2190 – Standard Specification for IGU Performance
- ASTM C1172 – Standard Specification for Laminated Architectural Flat Glass
- 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)**

v2021.11.17.PTH