

**SCHOOL GUARD GLASS™ SECURITY GLAZING  
1-1/16" LAMINATED INSULATED GLASS UNIT**

## SG4 with Vitro Solarban 60 Low-e on Optigray

AIR FILLED

PRODUCT #: SGG-IG17.SG4.SB60-OGGRAY-T4.SP6-AIR

**DESCRIPTION:**

An attack resistant insulated glass unit with an outboard pane of 1/4" Vitro Optigray tinted tempered glass coated with Solarban 60 low-e on surface #2. The SG4™ portion is a laminated glass composite product consisting of 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. SG4™ remains in the frame blocking the intruder from entry.

**FEATURES:**

- SG4 attack resistant
- Insulated glass unit
- Air filled
- Vitro Solarban 60 low-e on Optigray tint

CONSTRUCTION:	PERFORMANCE DATA:				
<i>Attack side / Outboard / Exterior</i>	Max Dimension: 48" x 96" (standard) 72" x 144" (special order)				
1/4" Tempered Optigray Glass w/ Solarban 60 Low-e (#2)  3/8" Air Filled Space  7/16" Proprietary School Guard SG4	Nominal Thickness: 1-1/16"				
	Weight: 7.21 Lbs. / Square Foot				
	Attack Rating: 5-aa I rated for 6 minutes				
	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN
	.31	.30	.48	.35	74.37
<i>Protection side / Inboard / Interior</i>	<i>*Calculated using LBL Window Software v7.7.1</i>				
COMPLIANCES:					
<ul style="list-style-type: none"> <li>• ASTM C1036 – Standard Specification – Flat Glass</li> <li>• ASTM C1172 – Standard Specification for Laminated Architectural Flat Glass</li> </ul>		<ul style="list-style-type: none"> <li>• ASTM E2190 – Standard Specification for IGU Performance</li> <li>• ANSI Z97.1 - Safety Materials Used in Buildings</li> <li>• CPSC 16 CFR 1201</li> </ul>			
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:					
<ul style="list-style-type: none"> <li>• Monolithic versions</li> <li>• Air or argon gas fills</li> <li>• Various low-e coatings</li> </ul>	<ul style="list-style-type: none"> <li>• Various spacers/sizes</li> <li>• Tinted glass</li> <li>• Textured glass</li> </ul>	<ul style="list-style-type: none"> <li>• Spandrel glass</li> <li>• Colored Interlayers</li> <li>• Logos or signage in glass</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Glass – instantly switchable privacy glass</li> <li>• Smart Designs - decorative options inside glass</li> <li>• Custom designs &amp; make-ups</li> </ul>		
Contact a School Guard Glass or AIT representative for all possible options, or custom makeups.					
<b>School Guard Glass - +1 (844) 744-5277 - <a href="http://www.schoolguardglass.com">www.schoolguardglass.com</a></b>					

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