

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

SG4 with Vitro Solarban® R100 Low e on Clear

AIR FILLED IGU

PRODUCT #: SGG-IG18.SG4.SBRI00-CLR-T4-SP7-AIR

DESCRIPTION:

An attack resistant insulated glass unit with an outboard 1/4" pane of Vitro Clear tempered glass coated with Solarban® R100 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
- Solarban® R100 Low e.

CONSTRUCTION:	PERFORMANCE DATA:										
<i>Attack side / Outboard / Exterior</i>	Max Dimension: 48" x 96" (standard) 72" x 144" (special order)										
1/4" Tempered Clear Glass w/ Solarban® R100 Low-e (#2) 7/16" Air Filled Space 7/16" Proprietary School Guard SG4	Nominal Thickness: 1-1/8"										
	Thickness Tolerance: 1.068" to 1.143"										
	Weight: 7.54 Lbs. / Square Foot										
	Attack Rating: 5-aa I rated for 6 minutes.										
<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;">.29</td> <td style="text-align: center;">.23</td> <td style="text-align: center;">.40</td> <td style="text-align: center;">.27</td> <td style="text-align: center;">57.1</td> </tr> </tbody> </table> <p style="text-align: center;"><small>*Calculated using LBL Window Software v7.8 and NFRC 100-2010</small></p>	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN	.29	.23	.40	.27	57.1
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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 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.

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