

## School Guard Glass

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School Guard Glass' products are manufactured by: LTI Smart Glass, Inc. 14 Federico Drive / Pittsfield, MA 01201 / www.LTISmartGlass.com



**PRODUCT NAME:** SG5™ (PATENT PENDING)

PRODUCT DESCRIPTION: SG5™ is a laminated glass product consisting of outer layers of glass with a custom

security, heat strengthened, chemically bonded core. The patent pending SG5™ core reacts to physical abuse like metal and will bend, but will not tear or rip like other security products. SG5™ is designed to replace glass used in openings that would

normally be glazed with  $\frac{1}{4}$ " or  $\frac{5}{16}$ " glass.

**CONSTRUCTION: Proprietary** 

STANDARD DIMENSIONS: Up to 60" X 96"

**MAXIMUM DIMENSIONS:** Up to 96" X 130"

Designed to replace tempered and laminated glass with thicknesses ranging from **NOMINAL THICKNESS:** 

¼" to ¾".

WEIGHT (SQ/FT): 4.6 lbs.

10 Years against delamination. Please refer to the warranty information sheet. **WARRANTY:** 

**COMPLIANCE:** • ASTM C1036 - Standard Specification-Flat Glass

• ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass

• ANSI Z97.1 Safety Materials Used in Buildings

• CPSC 6 CFR 1201

**RATINGS:** 

5-aa1 rated for 12 minutes.

	Ballistic Impact	Concentrated Assault		Forced Entry (sequentially tested)			
Product	5 shots with a .762 round	Brick	Steel Toed Boots	Tools¹ 2 min. test	3lb. Hammer & Bat 3½ min. test	Sledge hammer 6 min. test	Total Time to Failure
1/4" Tempered	Fail - 1 shot	Fail	Fail	Fail	Fail	Fail	0 seconds
1/4" Tempered w/12 mil. Blast Film	Pass <sup>2</sup>	Fail - 4 impacts	Pass	Fail - 8 seconds	Fail - 2 impacts/2 seconds	N/A	4 seconds
5/16" Annealed Laminated Glass w/ 0.060 SGP® Interlayer by DuPont ®	Pass <sup>2</sup>	Fail - 20 impacts	Fail	Fail	Fail	N/A	16 seconds
5/16" Annealed Laminated Glass w/ 0.090 PVB Interlayer	Pass <sup>2</sup>	Pass	Pass	Fail - 40 seconds	Fail	N/A	40 seconds
3/8" Glass Clad Polycarbonate	Pass <sup>2</sup>	Pass	Pass	Fail - 1 min. 12 sec.	Fail	N/A	1 min. 12 sec.
SG5™	Pass <sup>2</sup>	Pass	Pass	Pass	Pass	Pass-6 mins.	12 mins. 10 sec.

l'est failure occurs when a 4" object can pass through the glass or frame material.

<sup>1</sup> See testing methods for tools list. <sup>2</sup>Bullets penetrate but glass stays in place.

Independent Testing Completed by H.P. White Laboratory, Inc. 3114 Scarboro Road, Street, MD 21154-1822