

**COMPONENTS**

Threat Layer 1: Glass

Layer 2: Interlayer

Layer 3: Glass

Layer 4: Air gap

Layer 5: Glass

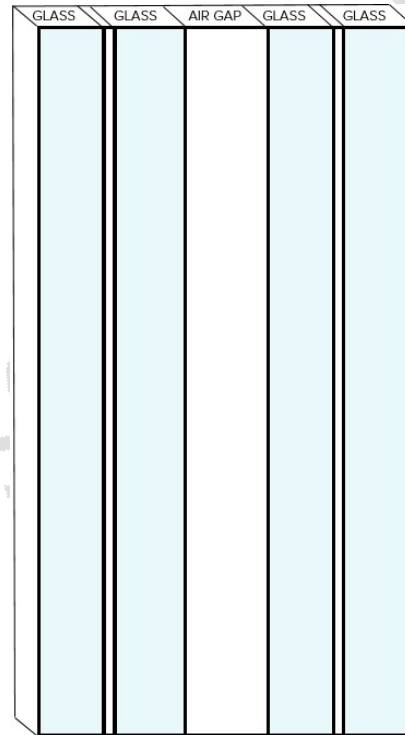
Layer 6: Interlayer

Secure Layer 7: Glass

(Product construction is proprietary. This product is intended for use in TSS Ballistic Frames)

**DEFENDER BALLISTIC  
INSULATED GLASS**

**PRODUCT: TSS IG 001 L/S 1<sup>1</sup>/<sub>4</sub>"**



**OPTIONS**

- Tinted Glass (Gray, Bronze, Green, Blue)
- Translucent White Interlayer (Frosted Layer)
- Insulating Units – Low E

More to choose from – Please inquire, as the size and thickness may not be available for every option. Overall thickness of product may change with addition of features.

**PROPERTIES & SPECIFICATIONS**

<b>Projectile Protection</b>	9 mm
<b>Ballistic Data</b>	Velocity 1: 1175 ft/s Velocity 2: 1292 ft/s
<b>Forced Entry Tests</b>	High Energy Impact- Ball Impact- Thermal In/Outdoor Conditioning
<b>U-Value Btu/hr*ft<sup>2</sup>*F)</b>	Available upon request
<b>R-Value (hr*ft<sup>2</sup>*F/Btu)</b>	Available upon request
<b>Light Transmission</b>	Available upon request
<b>Solar Heat Gain Coefficient</b>	Available upon request
<b>Nominal Thickness (in)</b>	1.250" (1 <sup>1</sup> / <sub>4</sub> "
<b>Weight</b>	7.58 lbs/sqft
<b>Dimensional Tolerance Standard</b>	ASTM C 1349

**STANDARDS**

- NSI Z971 Safety Glazing Materials for Building
- ASTM C 1036 Standard Specifications for Flat Glass
- CPSC 16 CFR 1201 (Category I and II)

**HANDLING INFORMATION**

It is imperative to clean the glazing unit during and after the construction period to maintain optimum performance and aesthetic properties. For best results, use a soft, clean cloth and a mild soap, detergent, or slightly acidic cleaning solution (such as vinegar). Wipe with a clean, lint-free cloth. Other cleaning products are available from TSS.

**BALLISTIC AND FORCED ENTRY RATING**

- U.L. 752 Level 1
- U.L. 972: Burglary Resistant

**WARRANTY**

- Five years from date of manufacture

**TOTAL SECURITY SOLUTIONS**

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