



**BULLETBLOCK**  
BULLET RESISTANT WINDOWS, DOORS & GLAZING  
BY INSULGARD

**BR-233**



## Innovative Glazing Solutions for Ballistic Protection

### PRODUCT DESCRIPTION

BULLETBLOCK BR-233 ALL GLASS LAMINATE HAS BEEN TESTED AND CERTIFIED TO MEET UL752 LEVEL 3 BALLISTIC PERFORMANCE

### TECHNICAL DATA

- Nominal Thickness: 2.136"
- Thickness Tolerance: 1.992" / 2.279"
- Weight: 26.38 lbs per SF
- Available sizes:  
Min 12" x 12"  
Max 60" x 96"
- Dimensional Tolerance: +/- .250
- Light Transmittance: 71%
- U-Value: .74
- SHGC: 53%
- Shading Coefficient: .61

### OPTIONS

- Tinted glass
- Translucent interlayers
- Transparent mirror
- Low Iron glass

### PERFORMANCE

- UL 752 – Level 3 – UL Listed BP844
- .44 Magnum Lead Semi- Wadcutter  
Gas Checked
- No spall, no penetration

### GUIDE SPECIFICATION

Ballistic resistant glass where shown shall be Insulgard's BULLETBLOCK BR-233 glassclad polycarbonate. Each unit for glass type \_\_\_\_\_ shall be BR-233 BULLETBLOCK products are designed for applications where ballistics performance is primary and optical characteristics are secondary. Protected and threat side of window is a glass surface.

### INSTALLATION

Glazing must be installed in a UL Level 3 Bullet Resistant frame system. Holes must be covered with a UL listed device. All glass should be installed in accordance with the guidelines set forth in the current edition of the Glass Association of North America (GANA) Glazing and Sealant Manuals. Glazing systems should incorporate a weep system to allow moisture and water to escape the glazing channel.

Recommended Clearance:

Bite: 1"

Edge Clearance: 3/8"

Face Clearance: 1/8" per side

### APPLICABLE STANDARDS

- ANSI Z97.1
- CPSC 16 CFR 1201 (Category I and II)
- ASTM C 1036
- ASTM C 1172

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