

BUR SERIES

Bullet Resistant Doors & Windows

ABOUT THE PRODUCT

CORE:

Available in two options:

1- Steel Stiffened Core (Used mainly in case of vision panels cut outs):

- Spaces between stiffeners are insulated with fiberglass to the full height of the door.
- Standard infill thickness 50 mm of nominal density 24 kg/m³.
- Thermal Conductance (50 mm): $U=0.123 \text{ Btu/hr.ft}^2 \text{ } ^\circ\text{F}$. (ASTM C177)
- Thermal Resistance: $R\text{-Factor}= 8.11 \text{ hr.ft}^2 \text{ } ^\circ\text{F/Btu}$. (ASTM C518-63T).
- Combustibility: None/IMO Resolution-ASTM E 136-82, BS 476 Pt 4, ISO R1182.

OPTIONS

- Alkide or polyurethane RAL color paint finish (factory applied).
- Supplied with custom made hinges, drop bolt and exit device.
- Available in stainless steel leaf & frame finish.
- Sliding assemblies are available manual or power operated.
- Can be manufactured for multiple performance requirements including acoustical, bullet resistance, thermal protection, radio frequency shielding or any combination thereof.
- BUR-Series doors are offered with standard frame designs and special frame profiles can be engineered to complement wall construction and architectural style.

2- Polyurethane Injected Core:

- Foam-in-place polyurethane thermal insulation core, of nominal density 47 kg/m³ (DIN 53420) to fill the whole leaf thickness.
- Thermal Conductance (at 43mm): $U=0.078 \text{ btu/hr.ft}^2 \text{ } ^\circ\text{F}$. (ASTMC177)
- Thermal Resistance: $R\text{-Factor}= 12.80 \text{ hr.ft}^2 \text{ } ^\circ\text{F/BTU}$ (ASTM C518-63T)
- Polyurethane is a thermo-setting material, which when subjected to heat, merely slowly chars without melting or producing flaming droplets (BRUFMA/ID/2/2001).



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BULLET RESISTANT GLASS (BRG)

BRG is available for various requirements such as door vision panels and bullet resistant windows. Typical applications are VIP offices, banks, court houses, currency exchange booths, embassies, military buildings and jewelry shops.

BRG is designed to withstand one or several rounds of bullets depending on the thickness of the glass and the weapon being fired at it. BRG is basically made by layering a polycarbonate material (lightweight, high-performance plastic material that is tough, durable and heat-resistant) between pieces of ordinary glass in a process of lamination.

WSL B-BALLASTIS GLASS

To complement the BUR-Series of bullet resistant doors, we can offer a complete range of bullet resistant glass, tested for all classes of weapons to the following international standards.

- CEN 1063 BR1 to BR7
- BS5051 G1 to R2ap
- STANAG 4569 Level 1 to 3
- DIN 52290 Levels 1 to 5
- UL752-1991
- UNE 108-131086 levels 1 to 5
- WSL B-Glass is produced using the latest combination of glass and polycarbonate technology, in order to reduce the weight associated with all glass constructions.

In addition, we can also build the WSL B-Glass into sealed units to accommodate any type of solar control or low E Emission glass.

WSL B-Glass is produced in thickness from 17mm to 103mm depending on the required threat level. It is available in the following two main categories:

- Low-Spall On impact, minimum amount of small glass fragmentations to the safe side.
- No-Spall On impact, total prevention of small glass fragmentations to the safe side.

Inquiry based specifications and recommendations are available.

The ability of bullet-resistant glass to stop a bullet is determined by the thickness of the glass.

There are several methods and tests to determine the rating of a ballistic-resistant product. One of those methods is the Underwriters Laboratory (UL) 752 test method. The UL rated levels 1, 2 and 3 can resist a bullet fired from .9 mm, .357 magnum and .44 magnum weapons. The higher UL levels from 4 to 8 are typically applied to government and military applications.



Bullet Proof Window