

Product Data - Hygard Polycarbonate BR750

Ballistic Glazing – Level 1

HYGARD BR750 ballistic grade sheet is a 0.780" thick, three-ply polycarbonate and acrylic laminate that meets the UL 752 Level 1 rating for 9mm ballistic attack. All Hygard products incorporate TUFFAK polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary TUFFAK AR hardcoat that facilitates cleaning and resists marring, chemical, and graffiti attack.

HYGARD BR750 sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing.

Applications

Government and detention facilities, banks, specialty retailers, 24 hour convenience stores, cash transaction windows

Glazing recommendations

- Structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected Hygard laminate are recommended
- HYGARD laminate should be cut to allow for a minimum of (1) inch edge engagement in the frame, with sufficient rabbet depth for material expansion (approx. 1/16"/ft.)
- Use wet or dry sealants/gaskets that are compatible with polycarbonate
- Remove protective masking after glazing operations are completed and before prolonged exposure to direct sunlight, moisture, or high temperature

Standard sheet size

48"x 60", 48"x 72", 38"x 78", 38" x 96", 48" x 96", 60" x 72", 60" x 96"

Product specification

HYGARD BR750 polycarbonate and acrylic laminate:

- Three-ply, clear TUFFAK polycarbonate sheet constructed as follows:
 - 1/8" TUFFAK AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - 1/2" acrylic sheet
 - Polyurethane bonding interlayer
 - 1/8" TUFFAK AR-1 abrasion resistant surface

Typical Properties*

Property	Values
Gauge / tolerance	0.780 in ± 10%
Weight	5.1 lbs / sq ft
Shading coefficient	0.89
U-value	0.65
Light transmission	88%

*Typical properties are not intended for specification purposes.

Product Performance Ratings

BALLISTIC

UL 752 Level 1 (9mm Full Metal Copper Jacket with lead)

AGENCY INFORMATION

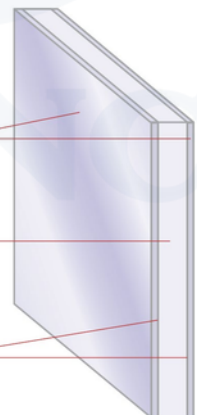
Combustibility Class CC2
Florida Building Code 2017
Miami-Dade NOA: NOA
UL File: BP6864

Hygard BR750 Sheet Construction

1/8" TUFFAK AR-1 sheet

1/2" acrylic sheet

Interlayer Bond



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