

Hygard® BR1000 polycarbonate sheet

BALLISTIC GLAZING -LEVEL 2

Hygard BR1000 ballistic grade sheet is a 1.000", 4-ply polycarbonate laminate that meets the UL 752 Level 2 rating for .357 Magnum ballistic attack and HP White TP 0500 Level IV. Unlike glass-clad products, this all-polycarbonate laminate resists spalling and white-out after repeated high force and ballistic impacts, an advantage in maintaining visibility of a threat during an 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 attack, and graffiti. Hygard BR1000 sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

APPLICATIONS

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

Typical Properties*	
Property	Values
Gauge / Tolerance	1.05 in ± 5%
Weight	6.5 lbs / sq ft
Shading Coefficient	0.85
U-Value	0.60
Light Transmission	72%

^{*}Typical properties are not intended for specification purposes

Product Performance Ratings

BALLISTIC

UL 752 Level 2 (.357 Magnum jacketed lead soft point)

FORCED ENTRY & CONTAINMENT

ASTM F 1233.08 Class 5 Body Passage

ASTM F 1233.08 Class 2.4 Contraband Passage

ASTM F 1915.03 Grade 1

H.P. White TP 0500.03 Level IV Sequence 43

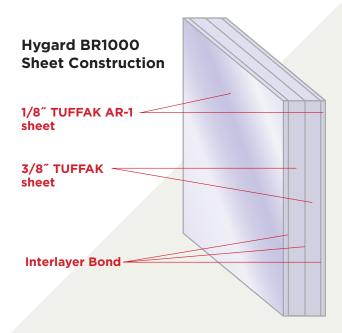
AGENCY INFORMATION

Combustibility Class CC1

Florida Building Code 2017, 6th Ed.

Miami-Dade NOA

UL File: BP6864



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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 one (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" × 60", 48" × 72", 38" × 78", 38" × 96", 48" × 96", 60" × 72", 60" × 96"

Product specification

Hygard BR1000 polycarbonate laminate:

- » Four-ply, clear TUFFAK polycarbonate sheet constructed as follows:
- 1/8" TUFFAK AR-1 abrasion resistant surface
- Polyurethane bonding interlayer
- 3/8" TUFFAK polycarbonate sheet
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- 1/8" TUFFAK AR-1 abrasion resistant surface

