

HYGARD® BR750 POLYCARBONATE SHEET

BALLISTIC GLAZING - LEVEL 1

Hygard BR750 ballistic grade sheet is a 19.8mm, 3-ply polycarbonate and acrylic laminate that meets the UL 752 Level 1 rating for 9 mm 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. 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 METRIC PROPERTIES*

Property	Values
Gauge / Tolerance	19,8mm ± 10%
Weight	24.9 kg / m ²
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 (9 mm Full Metal Copper Jacket with lead)

AGENCY INFORMATION

Combustibility Class CC2

Florida Building Code

Miami-Dade NOA: NOA

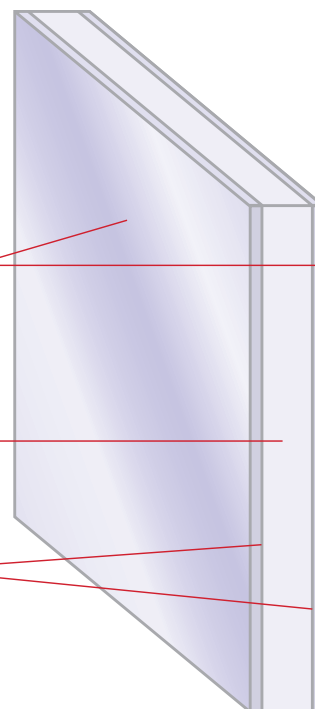
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Hygard BR750 Sheet Construction

3.0mm
TUFFAK AR-1
sheet

9.52mm
acrylic sheet

Interlayer
Bond



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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 2.54 cm edge engagement in the frame, with sufficient rabbet depth for material expansion (approx. 1.59mm/0.3m)
- » 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

1219mm x 1524mm, 1219mm x 1829mm, 965mm x 1981mm, 965mm x 2438mm, 1219mm x 2438mm

Product specification

Hygard BR750 polycarbonate and acrylic laminate:

- » Three-ply, clear TUFFAK polycarbonate sheet constructed as follows:
 - 3.0mm TUFFAK AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - 12.7mm acrylic sheet
 - Polyurethane bonding interlayer
 - 3.0mm TUFFAK AR-1 abrasion resistant surface

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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PLASKOLITE

400 W Nationwide Blvd, Suite 400
Columbus, OH 43215
800.254.1707 • Fax: 800.457.3553
plaskolite@plaskolite.com
www.plaskolite.com

PDS338_HYG_BR750_Metric