

# Hygard BR750 Polycarbonate Sheet



## Ballistic Glazing – Level 1

Hygard BR750 ballistic grade sheet is a 0.750", 3-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.

## 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

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.

## Typical Properties\*

Property	Values
Gauge / tolerance	0.780 in ± 5%
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

Miami-Dade NOA: NOA

UL File: BP6864

### Hygard BR750 Sheet Construction

1/8" TUFFAK AR-1 sheet

1/2" acrylic sheet

Interlayer Bond

