Hygard BR1250 Polycarbonate Sheet

Ballistic Glazing – Level 3

Hygard BR1250 ballistic grade sheet is a 1.250", 4-ply polycarbonate laminate conforms with UL 752 Level 3 rating for .44 Magnum ballistic attack, HP White TP 0500 Level IV, and ASTM F 1233 Class 5. 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 thread 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, and graffiti attack. Applications include security doors, windows, and other areas that require these specific levels of protection.

Applications

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

Typical Properties*

Property	Values
Gauge / tolerance	1.30 in ± 5%
Weight	8.1 lbs / sq ft
Shading coefficient	0.81
U-value	0.51
Light transmission	72%

*Typical properties are not intended for specification purposes.

Product Performance Ratings

BALLISTIC

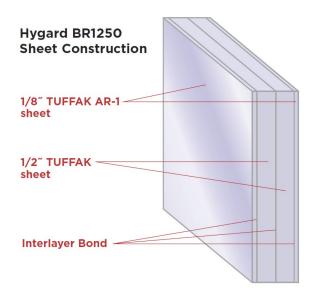
UL 752 Level 3 (.44 Magnum lead semi-wadcuter gas checked) NIJ Level II, Level IIIA

FORCED ENTRY & CONTAINMENT

ASTM F 1233.08 Class 5 Body Passage ASTM F 1233.08 Class 2.5 Contraband Passage ASTM F 1915.03 Grade 1 H.P. White TP 0500.03 Level IV Sequence 43-44

AGENCY INFORMATION

Combustibility Class CC1 ICC-ES ESR-2728 Florida Building Code Miami-Dade NOA





Hygard BR1250 Polycarbonate Sheet

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 BR1250 polycarbonate laminate:

- Four-ply, clear TUFFAK polycarbonate sheet constructed as follows:
 - o 1/8" TUFFAK AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - o 1/2" TUFFAK polycarbonate sheet
 - Polyurethane bonding interlayer
 - 1/2" TUFFAK polycarbonate sheet
 - Polyurethane bonding layer
 - 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.

