



Hygard® BR1250 sheet

Ballistic glazing - Level 3

Hygard® BR1250 ballistic grade sheet is a 1.250", 4-ply polycarbonate laminate that meets 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 threat during an attack. All Hygard products incorporate Makrolon® polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary Makrolon 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. Hygard BR1250 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

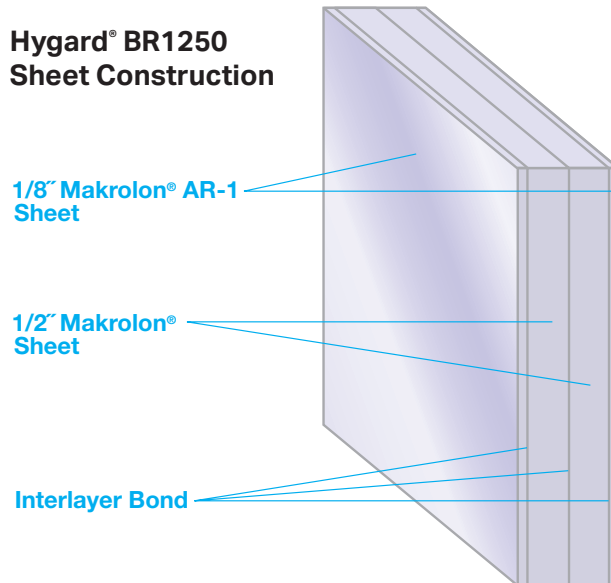
Government and detention facilities, banks, specialty retailers, 24 hour convenience stores, cash transaction windows

Typical Properties*	
Property	Values
Gauge / Tolerance	1.30 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-wadcutter 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	UL File: BP6864 Combustibility Class CC1 Miami-Dade NOA #15-1014.01 Florida Building Code 2014 ICC-ES ESR-2728

Hygard® BR1250 Sheet Construction



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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" 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 Makrolon® polycarbonate sheet constructed as follows:
 - 1/8" Makrolon AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - 1/2" Makrolon polycarbonate sheet
 - Polyurethane bonding interlayer
 - 1/2" Makrolon polycarbonate sheet
 - Polyurethane bonding interlayer
 - 1/8" Makrolon AR-1 abrasion resistant surface



Curbell Plastics is a proud supplier of Covestro materials



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