

# 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

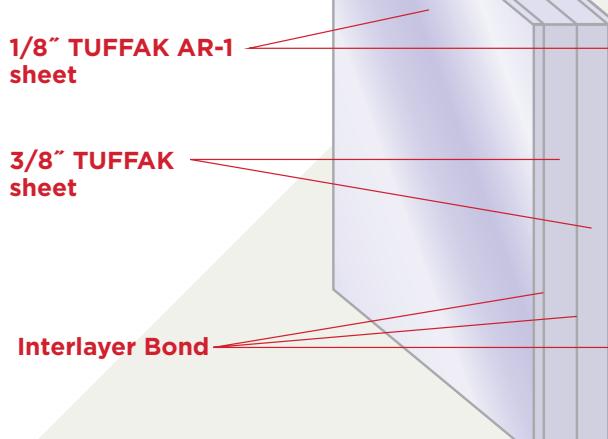
Government and detention facilities, banks, specialty retailers, 24 hour convenience stores, cash transaction windows

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	
<b>BALLISTIC</b>	UL 752 Level 2 (.357 Magnum jacketed lead soft point)
<b>FORCED ENTRY &amp; CONTAINMENT</b>	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
<b>AGENCY INFORMATION</b>	
	Combustibility Class CCI
	Florida Building Code 2017, 6th Ed.
	Miami-Dade NOA
	UL File: BP6864

## Hygard BR1000 Sheet Construction



# Hygard BR1000 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 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 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
  - Polyurethane bonding interlayer
  - 3/8" TUFFAK polycarbonate sheet
  - Polyurethane bonding interlayer
  - 1/8" TUFFAK AR-1 abrasion resistant surface

Distributed by:



Toll Free: 1.800.277.7898  
[www.piedmontplastics.com](http://www.piedmontplastics.com)

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 determine the suitability of our materials and suggestions before adopting them on a commercial scale.

© 2018 **PLASKOLITE, LLC** 082018

TUFFAK® and Hygard® are registered trademarks of Plaskolite LLC

**PLASKOLITE**

400 Nationwide Blvd, Suite 400  
Columbus, OH 43215  
800.254.1707 • Fax: 800.457.3553  
[plaskolite@plaskolite.com](mailto:plaskolite@plaskolite.com)  
[www.plaskolite.com](http://www.plaskolite.com)

PDS005