

Ballistic Glazing

MAKROLON HYGARD BR1250 is a four-ply laminate sheet designed for the high demands of ballistic and forced entry applications. MAKROLON HYGARD BR1250 is a no spall and no white out sheet product. This product features a coating that provides resistance to abrasion, UV, chemical attack and grattiri. MAKROLON HYGARD BR1250 has been tested to the following standards: UL 752, NIJ, ASTM F1233, ASTM F1915 and HP White TP 0500. MAKROLON HYGARD BR1250 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, financial institutions, heavy equipment glazing, speciality retail and 24 hour convenience stores, cash transaction windows

Nominal Gauge	1.30 in +/- 5%
Weight	8.1 lbs / sq ft
Shading Coefficient	.81
U Value	.51
Light Transmittance	72%

Product Performance Ratings

Ballistic

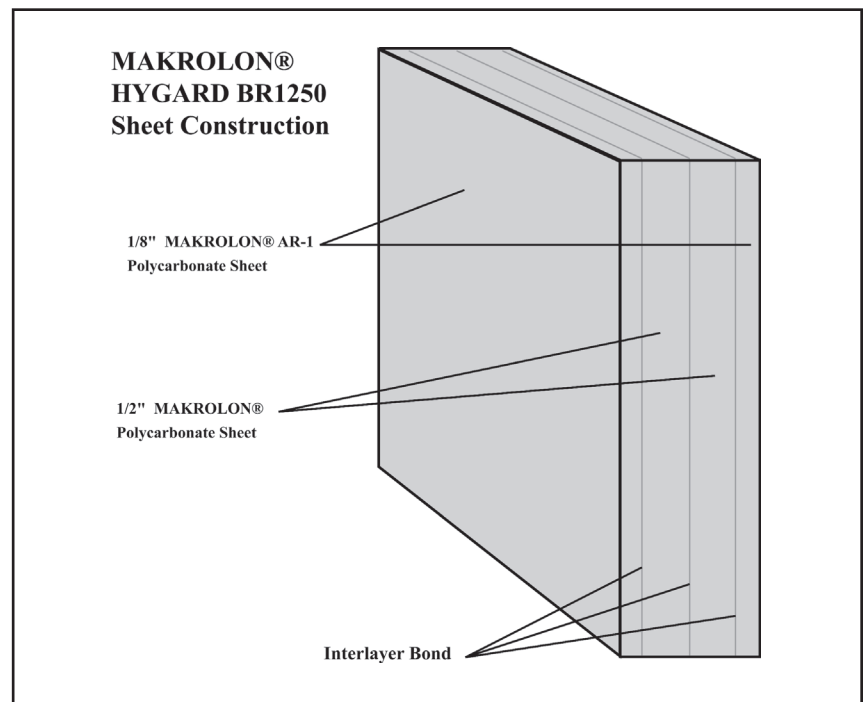
UL 752 Level 3 (.44 Magnum lead semi-wadcutter gas checked)
 NIJ Level II, Level IIIA

Forced Entry & Containment

ASTM F1233.08 Class 4.11 Body Passage
 ASTM F1233.08 Class 3.3 Contraband Passage
 ASTM F1915.03 Grade 1
 HP White TP 0500.03 Level IV Sequence 43-44

Agency Information

Combustibility Class CC1
 UL File: BP6864
 Miami-Dade NOA 08-0926.15



Product Data

MAKROLON® HYGARD BR1250 Sheet

Glazing Information

- Structural security framing systems with equal or greater forced entry and/or ballistics ratings as the selected MAKROLON HYGARD laminate are recommended.
- MAKROLON 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

MAKROLON 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 Sheet
- Polyurethane bonding interlayer
- 1/8" MAKROLON AR-1 abrasion resistant surface

Disclaimer

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

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