



ArmorPlast™ 50 Sheet Construction

1/8" AR-1 Sheet

1/4" Polycarbonate Sheet

Interlayer Bond



ArmorPlast™ 50 Sheet

CONTAINMENT GRADE

ArmorPlast™ 50 containment grade sheet is a 0.500", 3-ply polycarbonate laminate that meets ASTM F 1233-08 Class 1.4 for contraband passage and Class 2.8 for body passage. ArmorPlast™ 50 also meets HP White TP 0500 Level A (.38 Special) and ASTM F1233-08, Level HG1 (.38 Special) for ballistics. 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 ArmorPlast™ products incorporate Polycarbonate Sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary hard coat that facilitates cleaning and resists marring, chemical, and graffiti attack. ArmorPlast™ 50 sheet has a five (5) year Limited Product Warranty against coating failure, yellowing, and hazing. Warranty terms are available upon request.

APPLICATIONS:

Jails, detention centers, psychiatric hospitals, reception areas, convenience stores, check cashing.

TYPICAL PROPERTIES*

PROPERTY	VALUES
GAUGE / TOLERANCE	0.522 IN ± 5%
WEIGHT	3.3 LBS / SQ FT
SHADING COEFFICIENT	0.90
U-VALUE	0.74
LIGHT TRANSMISSION	83%

*Typical properties are not intended for specification purposes

PRODUCT PERFORMANCE RATINGS

BALLISTIC

H.P. White TP 0500.03, Level A • ASTM F 1233-08, Level HG1

FORCED ENTRY & CONTAINMENT

ASTM F 1233.08 Class 1.4 (contraband passage) and Class 2.8 (body passage)
ASTM F 1915.03 Grade 1 • H.P. White TP 0500.03 Level 1 Sequence 15

AGENCY INFORMATION

Combustibility Class CC1 • Miami-Dade NOA #15-1014.01
Florida Building Code 2014





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GLAZING RECOMMENDATIONS

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

38" x 96" • 48" x 96" • 60" x 96"

PRODUCT SPECIFICATION

ArmorPlast™ 50 polycarbonate laminate:

- Three-ply, clear Polycarbonate Sheet constructed as follows:
 - 1/8" AR-1 abrasion resistant surface
 - Polyurethane bonding interlayer
 - 1/4" Polycarbonate Sheet
 - Polyurethane bonding interlayer
 - 1/8" AR-1 abrasion resistant surface

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, information, and recommendations 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 Riot Glass.

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