

**FORCED ENTRY
AND LIGHT
BALLISTIC**

ArmorPlast® —

AP50BR

— **No Spall Sheet**



PRODUCT DESCRIPTION

ArmorPlast® products are manufactured with our industry-leading resins for exceptional forced entry impact resistance.

Years of field experience and laboratory testing has resulted in the AP Series product line. Our premium forced entry barrier satisfies both security and aesthetic requirements.

High optical clarity and shatter resistance ensures that visibility can be maintained for surveillance or visual confirmation, even during a severe attack.

With glass-like transparency, extreme durability, and an extended service life due to our special UV coatings, ArmorPlast® products are the perfect solution for light weight security window and door retrofits.



LIGHT BALLISTIC GLAZING

ArmorPlast® AP50BR light ballistic grade sheet is a 1/2" thick, 3-ply polycarbonate laminate that is tested to ASTM F 3038 15 minute attack, ASTM F 1233 Class 1.5 for contraband passage, and Class 3.2 for body passage. AP50BR has also passed ASTM F 1233, Class HG1 .38 Special LRN. 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 clarity in security glazing laminates. Interior and exterior surfaces have a proprietary AR hard coat that facilitates cleaning and resists marring, chemical attack, and graffiti.

ArmorPlast® AP50BR sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

TYPICAL PROPERTIES

THICKNESS	0.522" ± 5%
WEIGHT	3.3 LBS/SQ FT
SHADING COEFFICIENT	0.90
U-VALUE	0.74
LIGHT TRANSMISSION	83%

RATINGS

FORCED ENTRY & CONTAINMENT

- ASTM F 1233 Class 1.5 (contraband passage)
- ASTM F 1233 Class 3.2 (body passage)
- ASTM F 1915 Grade 1
- H.P. White TP 0500 Level 1 Sequence 15
- ASTM F 3038 15 Minutes

BALLISTIC

- ASTM F 1233, Class HG1 .38 Special LRN

AGENCY INFORMATION

- Combustibility Class CC1
- Florida Building Code 2017
- 2018 International Building Code (ICC ESR 2728)
- Miami-Dade NOA: NOA



DCN100423-2

ArmorPlast® Polycarbonate Security panels

GLAZING RECOMMENDATIONS

- Structural security framing systems with equal or greater forced entry and/or ballistics ratings to the selected AR Series security are recommended.
- ArmorPlast® panels should be sized to allow for a minimum of one 3/4" edge engagement in the frame
- Use wet or dry sealants compatible polycarbonates.
- Remove protective masking after glazing operations are completed and before prolonged exposure to direct sunlight, moisture or high temperature

STANDARD STOCK SIZES*



*Additional Sizes may be available upon special request.

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Buyer acknowledges although components of the Riot Glass, LLC products may contain specific ratings, including ballistics-grade products, such tests were performed in laboratory conditions, in a controlled environment, and only related as a specific component of the overall system. Buyer acknowledges Buyer is purchasing an installed system comprising of multiple components which have been rated, tested, or approved for varying performance levels including ballistics, or fitness of a particular purpose, including but not limited to preventing intrusion by any or limited means. Furthermore, neither Riot Glass, LLC nor its Authorized Dealers can guarantee the installed system will provide the necessary protection to Buyer's property due to the variance of the environment from laboratory conditions. Riot Glass, LLC specifically disclaims any implied warranties, including fitness for a particular purpose and merchantability, and advises Buyer to conduct its own research to determine the best solution for Buyer's unique situation.

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