

FORCED ENTRY
SAFETY
ACOUSTIC CONTROL

AP-Series

AP375-IGU

Security Insulated
Glass Units

PRODUCT DESCRIPTION

ArmorPlast® Security IG Units are available in various configurations:

- Armorplast® Security panels on both sides.
- Armorplast® Security panels on the exterior/attack side with high performance glass options in the interior/safe side.

All units include our patented "Shock-Spacer" designed to absorb high levels of energy from attack.

The interior glass options include UV and tinted coatings, tempered, and frosted treatments with the added benefit of interior signage and window graphics compatibility.

Designed to fit our Gen II framing systems but also compatible with all 1.00" glass pocket storefronts.



SECURITY AND SAFETY GLAZING IGUs

AP-Series AP375 Polycarbonate Sheets are an abrasion and UV resistant security panel that offers glass-like surface hardness coupled with the impact strength of polycarbonate.

All AP-Series polycarbonate products are engineered for high optical clarity. Interior and exterior surfaces have a proprietary AR hard coat that facilitates cleaning and resists marring, chemical attack, and graffiti.

AP375-IGUs are flexibly-configured to meet your application needs, with annealed glass, tempered glass, UV-coated glass, or AP25 panels available on the safe-side.

AP375-IGU products have a seven (7) year Limited Product Warranty.

TYPICAL PANEL PROPERTIES

Make-up: 3/8" AP375 Polycarbonate - 3/8" Spacer - 1/4" Tempered Panel

THICKNESS	1.00" ± 5%	SHADING COEFFICIENT*	0.687
WEIGHT	5.7 LBS/SQ FT	LIGHT TRANSMISSION*	68%
		U-VALUE*	0.449

RATINGS

FORCED ENTRY & CONTAINMENT WITH UNIVERASL FRAMING SYSTEM (UFS)

- ASTM F 1233-08 Class 2.8 Body
- H.P. White TP 0500 Level 1 Seq 8
- ASTM F 1915 4 for Detention
- HPW-TEST 5-aa 1 for Detention
- HPW-TP-0500.03 Forced Entry
- UL972: Burglary Resistant Glazing

COMPLIANCE CERTS

- ANSI Z97.1 Safety Glazing
- CPSC 16 CFR 1201 CAT I and II
- UL 746C: Sustainability for Outdoor Use
- AAMA 501.8: Resistance to Human Impact
- UL 94: Flammability
- UL 94 Propane Torch Test

* Testing conducted on monolithic sheets, not on IGU form; values may vary based on glass makeup.



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AP-Series Polycarbonate Security IGUs

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

SIZES

SAFE-SIDE (Tempered Glass)

1/4" Clear	1/4" Climaguard SN68
1/4" Bronze	SNX62/27
1/4" Low-e	SNX5123
3/16" Solarban 90	SN68
Solarban 60	Ultra Clear
Solarban 70	

THREAT-SIDE (AP375)

3/8" AP375 Clear Polycarbonate

Note: Guardian, Cardinal, and other hardcoat UV coatings or substitutes also available for safe-side glass.

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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.

