

SAFETY GLAZING
FORCED ENTRY
ACOUSTIC CONTROL

ArmorPlast®

AP25-IGU

Security Insulated Glass/
Polycarbonate 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.



ArmorPlast® Impact-Resistant Security Panels

DESCRIPTION

ArmorPlast® AP25 containment grade panels are a monolithic polycarbonate that satisfies the requirements of the rigorous test protocols listed below. Each polycarbonate sheet features an abrasion and UV resistant coating for extended service life in harsh environments. ArmorPlast®AP25-IGU has a five (5) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

ArmorPlast® Dual Glazed AP25-IGU

APPLICATIONS

Glass doors, storefronts, transaction windows, schools, retail, airports, libraries, hospital rooms, jails, prisons, and offices.

TYPICAL PANEL PROPERTIES

Make-up: 1/4" AP25 Polycarbonate - 1/2" Spacer - 1/4" Tempered Glass

THICKNESS	1.00" ± 5%*	SHADING COEFFICIENT *	0.706
WEIGHT	4.67 LBS/SQ FT/PANEL*	U-VALUE*	0.456
		TRANSMITTANCE*	73.1%

RATINGS

FORCED ENTRY & CONTAINMENT
WITH GEN II FRAMING SYSTEM

- ASTM F 1233-08 Class 2.0 Contr.
- ASTM F 1233-08 Class 2.8 Body
- ASTM F 1915 Grade 3
- H.P. White TP 0500 Level 1 Seq 8
- UL 972 Burglary Resistant Glazing
- ASTM F 1915 4 for Detention
- HPW-TEST 5-aa 1 for Detention
- HPW-TP-0500.03 Forced Entry

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 tested in IGU form.

* Values may vary based on glass make-up.

ArmorPlast® 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

All ArmorPlast® Dual-Glazed IGUs are made to customer specifications with maximum size limitations based on optional materials required. Call one of our technical sales representatives for more information.

TYPICAL MAKE-UP

SAFE - SIDE (Tempered Glass)

1/4" Clear
1/4" Bronze
1/4" Low-e
3/16" Solarban 90
Solarban 60
Solarban 70
1/4" Climaguard 70/36
SN68
SNX62/27
SNX5123
SN68 Ultra Clear

THREAT - SIDE (AP25)

1/4" AP25 Clear Polycarbonate

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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.

