



Security Glass Laminates

US ARMOR LLC.

US Armor LLC.
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US ARMOR LLC.



US Armor is an industry leader in glass and polymer lamination, specializing in customized bullet-resistant and security glazing. Our clients include government, law enforcement, institutions, businesses and private individuals. Through a variety of materials, technology and quality craftsmanship, we will meet your precise threat requirements to exacting specifications for size, shape, weight, fit and finish. Versatility, quality, performance and customer service set us apart from other suppliers.



From the first assembly in our atmosphere-controlled cleanrooms to the final inspection at our quality assurance stations, our people and processes are dedicated to craftsmanship. After all, ensuring quality within our doors is the only way to ensure security within yours.

We develop customized systems to defeat a variety of ballistic, forced entry and impact threats. And you won't have to compromise on visual clarity, color or dimensions. And because spalling – the spray of glass fragments at

impact – can be as damaging as the threat the glass stopped, we offer a full line of low-spall and no-spall barriers for many applications.

Call us with your toughest specs, tightest tolerances and most demanding applications. We will meet your challenge.

Bullet Resistant Glass and Forced Entry and Impact Protection for:

- *Law Enforcement*
- *Court Houses*
- *Government Buildings*
- *Military*
- *Banks*
- *Hospitals*
- *Retail*
- *Vehicles*
- *Homes*

Glass Laminates offer durable, dependable bullet resistance.

Glass Clad Transparencies feature extreme durability with less weight.

Security Glass Clad Laminates are ideal for defeating forced entry threats.

Laminated Polycarbonates offer the maximum protection against bullets and physical attacks.



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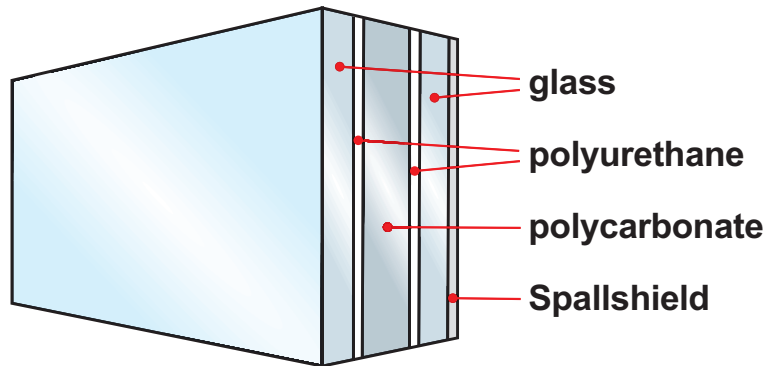
Ballistic Glass Clad Laminates

This extremely durable and lightweight transparent armor is available in flat sheets, or curved and cut to fit your specific application. Combining the hard surface of glass with the resilient toughness of polycarbonate, US Armor Glass Clad systems are specially designed to defeat threats from high-powered firearms with low or no spalling. US Armor Glass Laminates meet NIJ and UL standards for bullet-resistant applications.

We also manufacture laminates to meet your specific threat or standards specifications. Please call with your requirements.

Available Surfaces and Colors:

- Tempered
- Heat Strengthened
- Annealed
- Chemically Strengthened
- Grey, Green or Bronze Tints



Product	Threat	Thickness		Lbs/Sq.Ft.	
		Low Spall	No Spall	Low Spall	No Spall
PAS 002	.357 JSP, 9mm FMJ, .44 SWC (3 Shots)	1.056"	.818"	11.64	8.99
PAS 003	.44 FMJ, 7.62 x 25 LCSJ (Tokarev) (3 Shots)	1.181"	.943"	13.55	10.90
PAS 004	7.62 M80 Ball, 30.06 PSP, 308 FMJ (1 Shot) 7.62 x 39 SC (123) (AK-47) (2 Shots)	1.313"	1.075"	14.33	11.68
PAS 5000	NIJ Level 3, 7.62 M80 Ball (5 Shots)	NA	1.64"	NA	18.00
PAS 005	5.56 x 45 (223) M193 (3 Shots) 7.62 x 39 SC (123) (3 Shots)	1.588"	1.350"	17.49	14.78
PAS 005MH	7.62 M80 Ball, 30.06 PSP (3 Shots) 7.62 x 39 SC (123) – SKS (3 Shots) 5.56 x 45 M855 (AP) (1 Shot) 5.56 x 45 (223) PSP (5 Shots)	1.713"	1.475"	19.34	16.69
PAS 008AP	30.06 AP, 308 NATO, 5.56 M193 (1 Shot)	2.513"	2.275"	29.36	26.71
PAS 50 CAL B	50 Cal Ball (1 Shot)	NA	3.00"	NA	39
PAS 50 CAL AP	50 Cal AP (1 Shot)	NA	4.25"	NA	48



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Laminated Polycarbonate

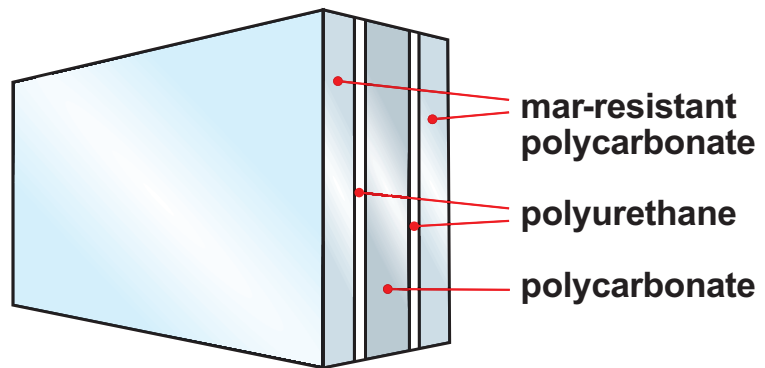
US Armor Laminated Polycarbonate sheets provide protection against multiple-shot penetration as well as forced entry attempts. Protection is also provided against spalling – the passage of fragments or splinters – that could cause injury to anyone standing behind the protective unit. An abrasion-resistant coating is applied to both sides for long-term durability.

US Armor Laminated Polycarbonate sheets offer protection, excellent optical clarity and typically weigh less than other bullet-resistant materials.

We also manufacture laminates to meet your specific threat or standards specifications. Please call with your requirements.

Available Colors:

Clear, Grey, Green or Bronze Tints



Product	Threat	Thickness	Lbs/Sq.Ft.
LP 375	.38 Special, Forced Entry, 30 Minute Physical Attack	.390"	2.44
LP 500	.38 Special, Forced Entry, 60 Minute Physical Attack	.500"	3.32
LP 750	Forced Entry	.757"	4.88
LPA 750 BR	9mm, Forced Entry	.758"	4.84
LP 1000	9mm, .357 MAG, Forced Entry	1.000"	6.54
LP 1250	.44 MAG, Forced Entry, 60 Minute Physical Attack	1.250"	8.10
LPA 1250 BR	9mm Rifle (5 Shots)	1.250"	8.02
ACRYLIC 3	UL Level 3, .44 MAG (3 Shots)	1.250"	8.02



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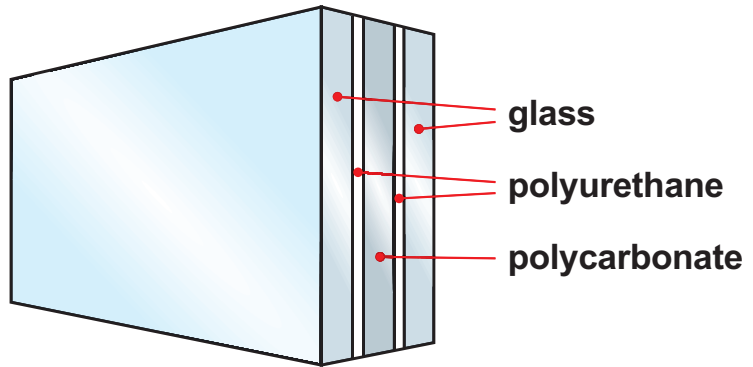
Security Glass Clad Laminates

US Armor Security Glass Clad Laminates provide long-lasting protection against moderate ballistic and forced entry threats. The durability and versatility of these laminates make them a perfect choice for correctional facilities, courthouses, government buildings and corporate security applications. By altering thickness and composition, such as adding layers of glass or polycarbonate, US Armor Security Glass Clad Laminates can be customized to meet your requirements for specific threat levels.

We also manufacture laminates to meet your specific threat or standards specifications. Please call with your requirements.

Available Surfaces and Colors:

- Tempered
- Heat Strengthened
- Annealed
- Chemically Strengthened
- Clear, Grey, Green or Bronze Tints



Product	Threat	Thickness	Lbs/Sq.Ft.
GCP 375	Forced Entry	.375"	4.00
GCP 450	.38 Special, Forced Entry	.450"	4.40
GCP 530	.38 Special, Forced Entry	.530"	4.79
GCP 600	.38 Special, Forced Entry	.600"	5.18
GCP 625	9mm, Forced Entry	.625"	5.28
GCP 725	9mm, Forced Entry	.725"	5.96
GCP 750	9mm, .357 MAG, Forced Entry, 30 Minute Physical Attack	.750"	6.06
GCP 875	357 MAG, Forced Entry, 60 Minute Physical Attack	.875"	7.14
GCP 960	.357 MAG, Forced Entry, 60 Minute Physical Attack	.960"	7.30
GCP 1000	.357 MAG, Forced Entry, 60 Minute Physical Attack	1.000"	9.33
GCP 1250	.44 MAG, Forced Entry, 60 Minute Physical Attack	1.250"	10.50



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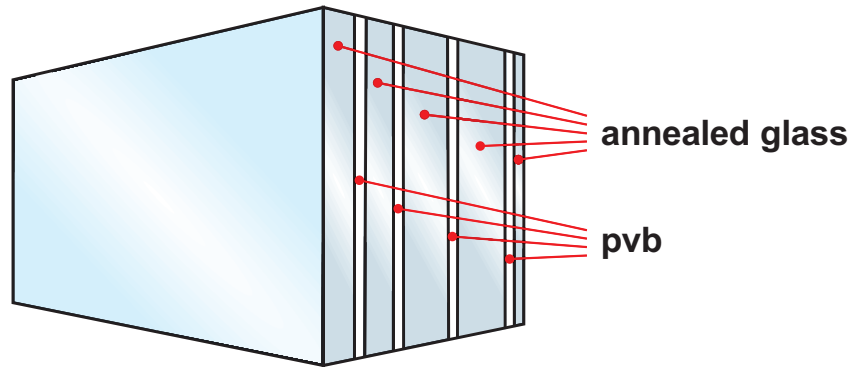
All Glass Laminates

Whether supplied flat or curved to your specifications, US Armor Laminated Glass offers the durability of traditional bullet-resistant glazing at an extremely affordable cost. US Armor Glass Laminates meet NIJ and UL standards for bullet resistance.

We also manufacture laminates to meet your specific threat or standards specifications. Please call with your requirements.

Available Surfaces and Colors:

- Tempered
- Heat Strengthened
- Annealed
- Chemically Strengthened
- Grey, Green or Bronze Tints



Product	Threat	Thickness	Lbs/Sq.Ft.
PAS 001AG	9mm (3 Shots)	1.185"	15.25
PAS ULI	9mm (3 Shots), UL Listed	1.28"	16.2
PAS 002AG	.357 MAG, 9mm (3 Shots)	1.40"	17.94
PAS 003AG	.44 MAG, .357 MAG, 9mm (3 Shots)	1.59"	20.38
PAS 004AG	.308, 30-06, 7.62 x 39 SC (AK 47) 5.56 x 45 M193	2.00"	25.63
PAS 008AG	30-06 AP M2	2.40"	29.76



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Privacy Glass

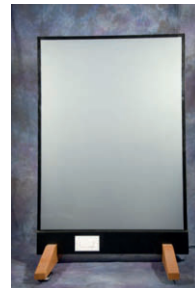
Want privacy without the inconvenience of dust-collecting curtains and blinds? U.S. Armor LLC's optical shutters, manufactured in Lee, Ma, are the high-tech, high-end solution. At the flip of a switch, U.S. Armor LLC's optical shutters change from nearly opaque (translucent) to transparent. Architects can incorporate U.S. Armor LLC's optical shutter technology into their designs for walls, windows, and doors in offices and homes. Optical shutters add instant privacy and a "wow" factor to every architectural design. They are customizable and can be manufactured in different colors, sizes, and shapes. They are produced on flexible substrates to accommodate curved surfaces if needed. High profile companies are already incorporating our optical shutter technology into high-end appliances, like wine and beverage coolers



Shutter OFF



Shutter ON



Shutter OFF



Shutter ON

Available Surfaces

- Tempered
- Heat Strengthened
- Annealed
- Chemically Strengthened
-

Citala US Inc.

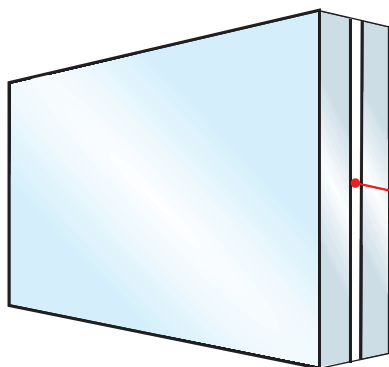
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Citala Ltd. - Headquarters

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Tel-Aviv, 69710, Israel



Citala Film encapsulated in Urethane or PVB



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Technical Specifications

Citala's Optical Shutter is flexible and exceptionally transparent. Based on Citala's proprietary APD™ display technology, the electrically operated Optical Shutter is durable, reliable, rugged and resistant to damage and adverse environmental conditions. Available in very large sizes, the shutter material is thin, light-weight, and has a long life of more than 10 years. Coated on flexible film substrate, Onyx™ (the core of the APD™ Optical Shutter technology) is available in two standard shades. Additional coating formulations can be designed as an option. Manufactured using a high-yield, high-throughput roll-to-roll process, the APD™ Optical Shutter provides the designer with easy, inexpensive choices for creating designs that fit a wide variety of form-factors, sizes, and surface curvatures. The Optical Shutter has been manufactured and shipped in large quantities and is integrated by Citala's customers into finished products in such markets as home appliances, visual devices for sports and medical applications, industrial inspection systems, signage, and architecture.

Glass Fabrication

At US Armor llc., our skilled technicians use the best equipment available to customize all types of glass and mirrors to meet all your architectural design and decorating needs. We offer a complete line of beveling, edging, water jet and drilling services for a complete line of glass thickness and colors, as well as plastics and acrylics. Our CNC machinery enables us to achieve the highest tolerance and precise fitting patterns.

Glass tabletops are available to add beauty and protect fine wood surfaces from scratches and wear. Glass tabletops are available from 1/8" to 1" thick or laminated up to 2".

- Beveling
- Polishing
- Edging
- Drilling
- Water Jet Cutting

Available Colors and Materials:

Clear, Grey, Green or Bronze Tints

Glass, Laminated Glass, Plastic and Acrylic

- Table Tops
- Mirrors
- Shower Doors
- Shelves
- Architectural Features

Home, Office, Retail, Institutional



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