

ISBI
ARMORing

- ◆ BALLISTIC GLASS
- ◆ RETURN FIRE, ONE WAY GLASS
- ◆ BALLISTIC DOOR PANELS

WWW.ISBI.US



Use your door as a shield

**BALLISTIC
PROTECTION**



ISBI offers a practical ballistic solution for police patrol cars in North America.

ISBI has teamed up with your trusted Police Car, Up Fitter for a Turn-key armor package. This package includes armored glass, ballistic door panels, and Smash and Grab armoring options for your Patrol Car, S.U.V. and pick up Truck Patrol vehicles. ISBI also offers replacement glass for armored Tactical vehicles with protection up to 50 cal.

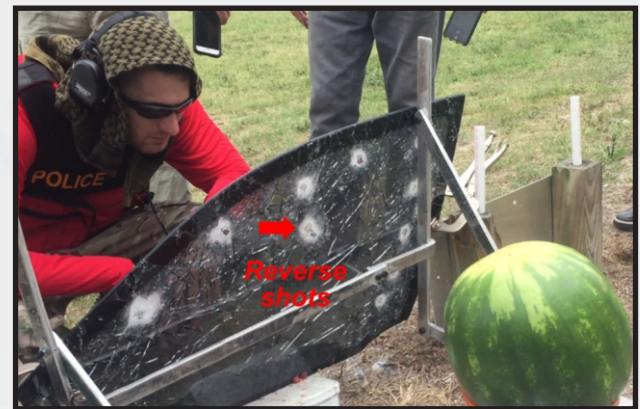
ISBI POLICE CAR GLASS

ISBI Police glass is designed to give your officer the protection needed while keeping original appearance. Our glass fits the window frame and replaces your original glass keeping normal operation of the window.



ISBI glass offers protection against rounds coming into the patrol car, however allows the officer to respond back with return fire.

The glass is hard and mushrooms the bullet coming in. The bullet enters the air chamber, thus creating a severe drop in velocity. The bullet then hits the poly-carbonate, which catches the round.



Shown above are ten shots from handgun and one reverse shot. Video is on YouTube. Call us to schedule a demonstration of our ballistic products.

ISBI allows the Officer "return Fire" capability, the bullet, going out hits the poly-carbonate, since its soft the bullet passes with little effect, The bullet then hits the glass, its hard and so the bullet mushrooms as it exits the glass, yet remains lethal.



The covert O.E.M. design is important in protecting the officer. Notice the inside glass is clean with no debris. The Glass also offers protection in a collision, unlike lesser designs, which can come apart and are a projectile in the cab.

BALLISTIC PANELS

ISBI provides armor kits for many parts of your patrol car. We use ultra hardened steel (lighter option than steel) for rifle and light machine gun protection.

For hand guns we use Twaron or Kevlar (laminated at a super high pressure of 15 bares). This pressure from our laminating press is twice as high as the pressure produced in autoclaves, thus the laminate is better, complying with European standards. This material is not affected by temperature or humidity.



The panels are designed to install by fastening to the outer skin. This makes for an adhesion that includes the circumference and the inner panel. This prevents the panel from wadding up and also provides better coverage and little interference from internal door components. This design meets industry practice in the armoring business.

SMASH AND GRAB GLASS

Smash and grab glass protects your car from theft of the contents. Our

glass replaces the original glass, and maintains original look. The glass can also be used with other deterrents for extra protection.



Smash and grab glass is normal ISBI glass with SentryGlas embedded as a laminate. This glass is effective against bats, tire irons, sledge hammers, axe and other tools used to break into cars.

SWAT GLASS

ISBI's years of experience is seen in our truck builds for Tactical, military, police, cash transit, and prisoner protection.



The glass shown has lost visibility on the edges. ISBI can provide replacement glass, and in some cases upgrade the ballistic rating. In Colombia, the rebuilding of an

attacked vehicles is common. Our experience provides a product that best meets customers needs based on lives saved during documented attacks. ISBI is your source for rebuilding your armored tactical truck.

TESTS

Since 1993 we have consistently manufactured the highest quality armor for vehicles, helicopters; as well as been a reputable supplier of ballistic glass to other armoring companies worldwide.

Rest assured, that our materials have been approved and certified after passing the most stringent of ballistic tests. Our products are battle proven and our vehicles have protected their occupants in numerous attacks from both automatic rifle fire and improvised explosive devices(IEDs).

BALLISTIC RESISTANCE TEST										
NTS-Chesapeake Testing 4638 Compass Point Road Belcamp, MD 21017					Client: ISBI ARMORing Job No.: 3026-004-1 Test Date: 1/8/2020					
Test Panel		Description: Laminated Transparency.								
Manufacturer: ISBI ARMORing		Sample No.: 05343			Weight: 5.01 lbs		Date Received: 1/7/2020			
Size: 12.00 x 12.00 in		Avg. Thick: 0.604 in			Plies/Laminates: NA			Returned: DHL		
Thickness: 0.600 in; 0.604 in; 0.605 in; 0.606 in										
Setup										
Shot Spacing: NIJ-STD-0108.01 Level IIIA			Primary Vel. Screens (ft): 6,500, 9,500			Range No.: 6				
Witness Panel: 0.02 in 2024-T3 Al			Primary Vel. Location (ft): 6,500			Temp: 62.9 °F				
Backing Material: NA			Range to Target (ft): 16,400			BP: 29.9 inHg				
Condition: Ambient			Target to Witness (in): 6,000			RH: 35.4%				
						Barrel/Gun: Test Barrel				
						Gunner: Matt Rixham				
						Recorder: M. Contreras				
Ammunition										
Projectile		Lot No.			Powder					
(1) 9 mm, 124-grain FMJ		Remington 23558			Accurate No. 2					
Applicable Standards or Procedures										
(1) NIJ-STD-0108.01 Level IIIA										
(2) Customer request										
Shot No.	Ammo	Weight (gr)	Time 1 (ft/s)	Vel. 1 (ft/s)	Time 2 (ft/s)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Penetration	Obliq. (°)	Footnotes
1	1	125.1	2186	1372	2191	1369	1371	None	0.0	
2	1	124.4	2120	1415	2125	1412	1413	None	0.0	
3	1	124.4	2150	1395	2157	1391	1393	None	0.0	
4	1	124.4	2147	1397	2155	1392	1395	None	0.0	
5	1	125.0	2123	1413	2128	1410	1411	None	0.0	
Remarks: Required velocity: 1350-1450 ft/s. Projectile yaw check: 0° yaw on all impacts.										
Footnotes:										

ISBI uses Sentryglas, and G.E. Lexan and other products from 3m for all our manufacturing process. Material data sheets are available.

ISBI AIR Chamber Glass / Vidrios Camara de Aire						
Thickness Espesor mm	15 mm	32 mm	41 mm	52 mm	78 mm	120 mm
Weight SqM Peso M2 Kilos	24 Kg	63 Kg	86 Kg	113 Kg	175 Kg	274 Kg
NIJ 06	IIIA		III		IV	
NIJ 07	HG2		Rifle 2		Rifle 3	
CEN		B5			B7	
UL 752	6	7	8	9	10	
Caliber	9mm FMJ S&W	5.56 35109 7.62x39 MSC	7.62 Nato Ball M-80	7.62 Nato AP Armor Piercing	.50 BMG Single Hit	.50 BMG Multi Hit
DOT 1108						

Tests and patents are downloadable from our website. www.isbi.us

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ISBI products are available in the USA and Canada from our network of police car up-fitters. Up-fitters are trained on the installation of ISBI glass and products.

This network includes product Specialist that can answer your questions and provide testing to establish your departments ballistic protection needs. Contact you factory representative or Vehicle up-fitter.