



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

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Use your door as a shield

BALLISTIC PROTECTION
NIJ CERTIFIED



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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.



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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



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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).

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 Class / Vidrios Cámara de Aire						
Thickness	15 mm	32 mm	41 mm	52 mm	76 mm	120 mm
Exposure min.	24 Ft.G	63 Kg	86 Kg	113 Kg	175 Kg	274 Kg
Weight SpM						
Weight M2 Fiber						
NIJ Class	IIIA	III	IV			
NIJ DP	HD2	Rifle 2	Rifle 3			
CHN	B5	B6	B7			
UL 752	6	7	8	9	10	
Caliber	5.56 NATO 7.62x39 RUS 7.62 NATO 8.0x39 RUS 7.62 NATO AT Amm. Penetrating	5.56 NATO 7.62x39 RUS 7.62 NATO 8.0x39 RUS 7.62 NATO AT Amm. Penetrating	5.56 NATO 7.62x39 RUS 7.62 NATO 8.0x39 RUS 7.62 NATO AT Amm. Penetrating	5.56 NATO 7.62x39 RUS 7.62 NATO 8.0x39 RUS 7.62 NATO AT Amm. Penetrating	5.56 NATO 7.62x39 RUS 7.62 NATO 8.0x39 RUS 7.62 NATO AT Amm. Penetrating	5.56 NATO 7.62x39 RUS 7.62 NATO 8.0x39 RUS 7.62 NATO AT Amm. Penetrating

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.

BALLISTIC RESISTANCE TEST											
NTS-Chesapeake Testing						Client: ISBI ARMORing					
4538 Commerce Road						200 No. 888 Street					
Baltimore, MD 21117						Tow Date: 1/8/2009					
Test Panel: Description: Laminated Transparency											
Manufacturer: ISBI ARMORing Sample No.: 05341											
Size: 12.00 x 11.00 in			Weight: 5.81 lbs			Date Received: 1/7/2009			VPS: DR		
Avg. Thick: 0.061 in			Pencil Hardness: 70			Returned: DR					
Thickness: 0.060 in, 0.060 in, 0.061 in, 0.059 in											
Setup											
Shot Spec(s): FN-307 0108.07 Level IIIA			Primary Vel. Source (ft/s): 8,200, 8,200			Range (ft.): 8			Temp: 62.3 °F		
Mileage (mi): 0.02 to 0.04 (13.4)			Primary Vel. Location (ft): 8,200			SP: 30.9 m/s			RH: 21.6%		
Backing Material: NA			Range to Target (ft): 16,400			Barrel/Cal: Ford Survival			Gunner: AMI Richard		
Condition: Unknown			Target to Witness (in): 4,000			Recorder: M. Carver					
Ammunition											
Projectile				Lot No.				Powder			
(1) 3.0 in, 124-grain PAJ				Remington-2358				Accurate No. 2			
Applicable Standards or Procedures											
(1) NIJ STD-0108.01 Level IIIA											
(2) Customer request											
Shot No.	Area	Weight (gr)	Time 1 (ms)	Time 2 (ms)	Time 3 (ms)	Time 4 (ms)	Time 5 (ms)	Time 6 (ms)	Time 7 (ms)	Time 8 (ms)	Time 9 (ms)
1	I	125.1	2186	1372	2393	1349	1271	None	0.0		
2	I	124.4	2120	1413	2125	1412	1413	None	0.0		
3	I	124.4	2150	1385	2157	1381	1383	None	0.0		
4	I	124.4	2147	1397	2129	1382	1390	None	0.0		
5	I	125.0	2125	1413	2158	1410	1411	None	0.0		
Remarks:											
Projector gun check. 3 - view on all impacts.											
Failures:											