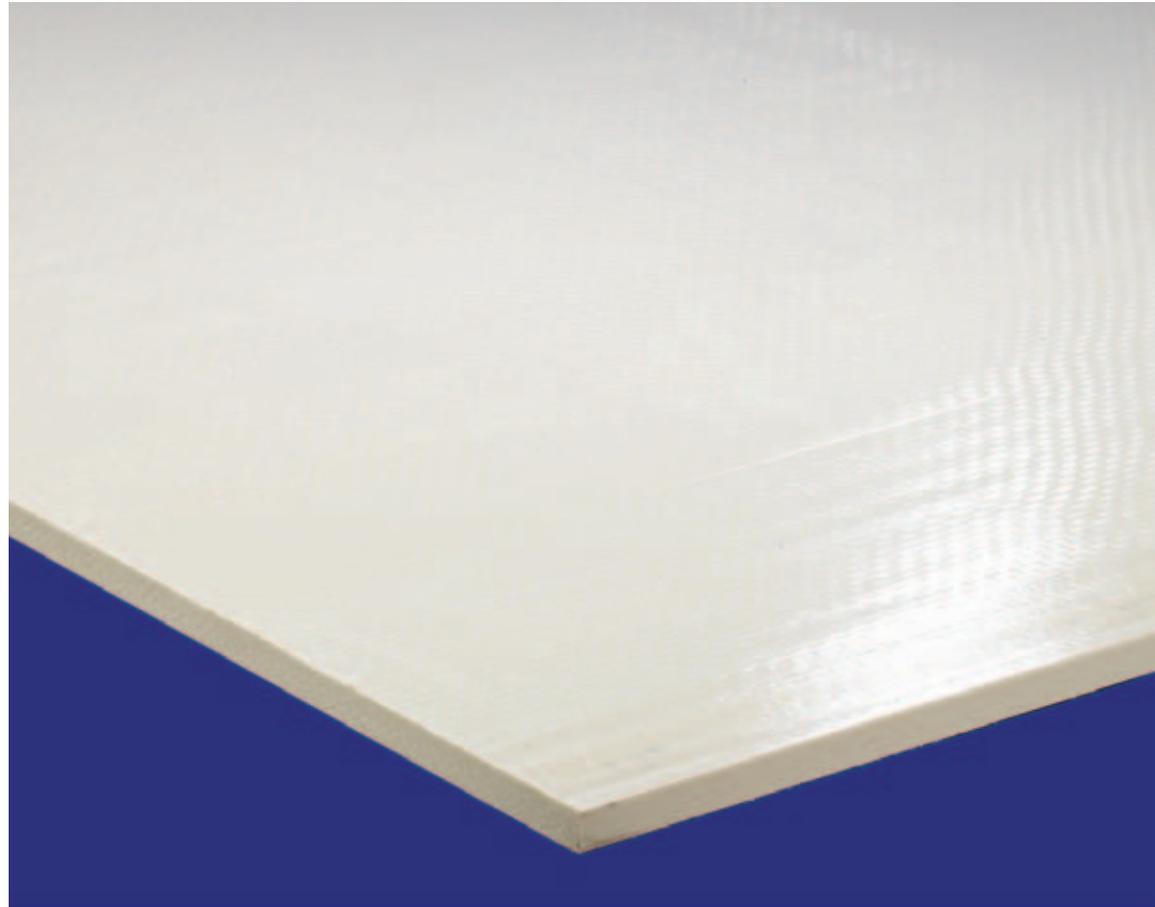




HS ARMOR PANELS

NIJ and UL 752 Certified Fiberglass Armor Panels



COMMON APPLICATIONS:

- **Judge Benches**
- **Jury Boxes**
- **Convenience Stores**
- **Bank Teller Areas**
- **Panic Rooms and Safe Rooms**
- **Storm Shelters**

Strongwell's HS fiberglass armor panels are designed for ballistics resistance. The panels are assembled using specially constructed glass reinforcements in a proprietary resin matrix. The panel components are then cured in a controlled cycle.

When struck by a bullet or other projectile, HS Armor panels delaminate in a way that absorbs the energy and stops the projectile. Thousands of these panels have been purchased by the U.S. Military to help protect our troops in Iraq.

The panels have been independently tested to UL 752 and NIJ (National Institute of Justice) Ballistics Specifications and exceeded all of these requirements. Please refer to the chart on the back of this flyer for the classifications of panels meeting UL 752 and NIJ requirements.



The ply delamination process of energy absorption is illustrated in the photo to the left. Three .44 magnum bullets are totally encapsulated by the fiberglass panel to meet UL 752 Level 3 and NIJ Level 3A specifications.

GEF Incorporated



Fiberglass HS Armor Fabrication and Installation

Strongwell's HS Armor panels can be cut and drilled using ordinary carpenter's tools. A carbide "grit edge" blade is recommended for cutting. It is recommended to use high speed drill bits at slow speeds when drilling. Installation of panels is easily accomplished with bolts, screws or industrial grade adhesive.

Testing and Requirements

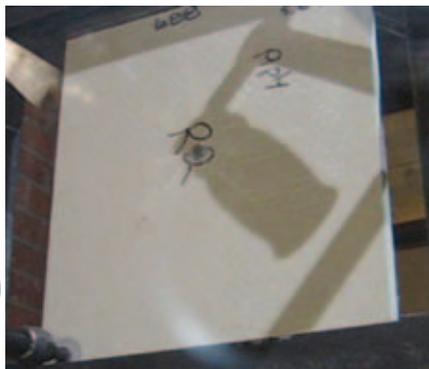
Strongwell HS Armor panels are independently tested on a regular basis for conformance to the following specification requirements. The panels below were tested for UL 752 Level 3 with a .44 Magnum Pistol.

NIJ and UL Requirements

<i>Panel Thickness (in.)</i>	<i>Armor Type</i>	<i>Weapon</i>	<i>Ammunition</i>	<i>Velocity (ft/sec.)</i>	<i>Weight (psf)</i>
.250	UL Level 1	9mm Pistol	124gr. FMJ	1175 - 1295	2.51
.40	UL Level 2	.357 Magnum Pistol	158gr. JSP	1250 - 1375	4.10
.50	UL Level 3	.44 Magnum Pistol	240gr. Lead	1350 - 1485	5.10
.156	NIJ Level 1	22 LRHV	40gr. Lead	1050 ± 40	1.59
		38 Special RN	158gr. Lead	850 ± 50	1.59
.3125	NIJ Level 2A	.357 Magnum Pistol	158gr. JSP	1250 ± 50	3.19
		9mm Pistol	124gr. FMJ	1090 ± 40	3.19
.40	NIJ Level 2	.357 Magnum Pistol	158gr. JSP	1395 ± 50	4.10
		9mm Pistol	124gr. FMJ	1175 ± 40	4.10
.50	NIJ Level 3A	.44 Magnum Pistol	240gr. SWC Gas	1400 ± 50	5.10
		9 mm Pistol	124gr. FMJ	1400 ± 50	5.10

FMJ - Full Metal Jacket
SWC - Semi-Wadcutter
RN - Round Nose

JSP - Jacketed Soft Point
LRHV - Long Rifle High Velocity



Front View



Rear View

For pricing call: GEF Incorporated, Winfield WV (304) 755-1600



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