

FAMOSTONE®

2010

High Performance Low Weight Armor Solution Defeat

**NIJ STD. 0108.01 Level IIIA, III and Special III+
EN STD. 1063 Level BR3 & BR4, STANAG 4569 STD. Level 1**

Armor Solutions Weight & Performance

Composite	STD.	LEVEL	Caliber	Thickness	Weight	
				[mm]	kg/sqm	lb/sft
UDPE-III A	NIJ 0108.01	III A	9 mm .44 Mag.	3.4	3.3	0.67
UDPE-B3	EN 1063	BR3	.357 Mag	5.8	5.5	1.14
UDPE-B4	EN 1063	BR4	.44 Mag. .357 Mag.	6.3	6.0	1.24
UDPE-III	NIJ 0108.01	III	7.62x51 M80	18.9	18.1	3.72
UDPE-III+	NIJ 0108.01	III+	7.62x51 M80 7.62x39 MS 7.62x54 lead core 7.62x54 MS	21.5	20.7	4.23
UDPE-B56	EN 1063 STANAG 4569	BR5, BR6 1	7.62x51 M80 7.62x39 MS 7.62x54 lead core 7.62x54 MS 5.56x45 SS109	34.1	32.8	6.71

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FAMOSTONE®

Uni-Directional Polyethylene Panel for Hard Armor Applications

The **FAMOSTONE®** material is composed of 100% Ultra High Molecular Weight Polyethylene material which is manufactured using **FMS**'s proprietary production technology, developed and produced by **FMS**.

The **FAMOSTONE®** material is pressed at **FMS**'s high pressure presses to achieve superior ballistic performance and a high value of performance, while lowering costs.

This new and revolutionary material combines Polyethylene fibers in a Uni-Directional thermoplastic matrix to provide a tension free matrix capable of absorbing and disperse high energy impact such as rifle shots. The product consists of four plies of uni-directional Polyethylene fiber tapes cross-plied at 0°/90°/0°/90°.

Applications

- Hard armor stand alone plates
- Backing for ceramic or steel plates
- Pressed panels used in vehicle armoring

Product Characteristics

- Extremely Low weight
- Excellent Water resistance – 0% water absorption
- Excellent Chemical resistance
- Excellent protection against steel-jacketed rounds (such as AK47 7.62x39 MS)
- Long Lasting – tested and approved for more than 5 years

Twelve times stronger than Steel

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PRODUCT PROPERTIES

PROPERTY **SPECIFICATION**

Description High Pressure Pressed 100%
UHMW-PE

<u>Description</u>	<u>Geometry</u>	<u>Size [mm] (±3)</u>
Flat (up to level B4) Flat (above level B4)	Flat	Up to 1600 x 2500 Up to 1600 x 1375
Single Curve	R=400mm	250 x 300 (10" x 12")
Multi Curve (XS,S,M,L,XL)	SAPI Shape (size L) Full Size (Front) Full Size (Back)	300 x 360 350 x 420 390 x 420

Finishing Options

- Ready for cutting to final size
- Cut to specific requirements
- FGP coating
- Aramid coating

Color options

- Native color is white
- Black paint
- Black Rubber coating
- Color Fabric coating
- Plastic Case

Packaging

- Cardboard box on wooden pallet, or otherwise according to requirements and regulations

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