

FAMOSTONE®

High Performance Low Weight Personnel & Vehicle Armor Solutions



FAMOSTONE® panels are the most advanced ballistic protection solutions currently available on the market, having the best weight to ballistic performance ratio. They are made with the lightest material available: Ultra High Molecular Weight Polyethylene Fiber (UHMW-PE), capable of delivering high protection levels at a lower weight compared to traditional steel or other high performance ballistic materials. The panels feature exceptionally high multi-hit capability, providing the user an outstanding degree of safety if hit by multiple projectiles or fragments.

FAMOSTONE® hard ballistic products made of 100% UHMW-PE are manufactured using a proprietary production technology, developed and produced by FMS. **FAMOSTONE®** panels and inserts are pressed from Uni-Directional (UD) fabrics using high pressure presses to achieve superior ballistic performance. Such fabrics combine Polyethylene fibers in a thermoplastic matrix that is capable of absorbing and dispersing high impact energy, such as energy from rifle shots. Each fabric layer has four plies of UD-Polyethylene fiber tapes cross-plyed at 0°/90°/0°/90°.

FAMOSTONE® inserts are available in a wide range of shapes, from flat plates to complex ergonomic designs. Tailor-made inserts and different finishes, such as coated covers, plastic covers and textiles, are available to suit specific needs of the customers.

Composite	STD.	Level	Bullet	Thickness [mm]	Aerial Density [kg/m ²] [lb/ft ²]	
UDPE-IIIA	NIJ 0108.01	IIIA	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 NIJ 0101.04* NIJ 0101.06*	III	7.62x51 M80	18.9	18.1	3.72
UDPE-III+	NIJ 0108.01 NIJ 0101.04* NIJ 0101.06*	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

*In conjunction with vest level IIIA

Key Features

- ✓ Low weight armor
- ✓ Multi-hit capabilities
- ✓ Angle shot – threat capturing
- ✓ Low blunt trauma
- ✓ Chemical & water resistance
- ✓ Steel-jacketed bullets proof

Description	Max Size [mm] ±3
Flat (up to level BR4)	1600 X 2500
Flat (above to level BR4)	1600 X 1375
Single Curve R=400 mm	250 X 300
Multi Curve (XS, S, M, L XL)	
SAPI Shape (size L)	300 X 360
Full Size (front)	350 X 420
Full Size (Back)	390 X 420

Threats Protection

FAMOSTONE® panels can stop steel-jacket rounds such as AK-47 MSC (7.62x39mm) and NATO Ball (7.62x51mm). Armor piercing (AP) rounds may be stopped when used in combination with ceramic strike face.

Edge Protection & Blunt Trauma

Meets and even exceeds the requirements in commonly used standards.

Finishing options

- Rubber coating
- FGP coating
- Plastic case
- Aramid coating
- Fabric coating
- Black paint

Environment

Optimal temperature: -26 ÷ +55°C
Storage temperature: -26 ÷ +55°C

Packaging

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

Durability

FAMOSTONE® was ballistically tested and approved for more than 5 years by independent third party leading laboratories.

Water Resistance

FAMOSTONE® panels are resistant to humidity and highly resistant to water absorption. The material floats on water.

UV & Chemical Resistance

FAMOSTONE® is resistant to UV exposure and to many chemicals including oil and gasoline, enabling panels to maintain performance integrity in the most hostile environments.

Flammability

FAMOSTONE® is incorporated into various ballistic systems that have passed laboratory tests, indicating compliance with a wide range of commonly used international standards. Rubber coating is used to provide flame resistance in accordance with UK class 3 British standard (BF476 part 7) and according with FR – US class 1 standard. GRP coating provides fire resistance per European DIN 4102-1 standard.

Warranty

The warranty of this product is according to the Terms and Conditions of Sale and effective for five years from the date of shipment from FMS Enterprises Migun Ltd. For further warranty information, please see the full Warranty Disclaimer.

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