



Advanced Ballistic Protection for Governmental Facilities and Critical Infrastructure



VEHICLE & BUILDING PROTECTION

USE CASES

- Government buildings
- Embassies and diplomatic missions
- Military camps and bases
- Law enforcement facilities
- Schools and universities
- Banks and financial institutions
- Courts and judicial buildings
- Critical infrastructure
(power plants, water facilities, data centers)
- Safe houses and secure residences
- Armored vehicles
(VIP, government, high-risk transport)



FTL 300 & FTL 600

BUILDING – WINDOW & DOOR GLASS PROTECTION

Anti-Vandal and Anti-Break-In Glass Protection

For enhanced protection of existing glazing systems, FPS utilizes high-performance Polyethylene Terephthalate (PET) transparent security laminate engineered to strengthen the glass and protect against impact, forced entry, and blast-related fragmentation.

The system is based on:

FTL 600 : 600-micron thick transparent PET laminate

FTL 300 : 300-micron thick transparent PET laminate

(external reinforcement option)

Installation Configuration:

● Anti-Vandal Protection:

1 layer of FTL 600 installed on the internal pane of the glass.

● Anti-Break-In (Burglary) Protection:

2 layers of FTL 600 installed on the internal pane for increased resistance against forced entry.

● Optional External Reinforcement:

1 layer of FTL 300 applied externally to further enhance structural integrity and impact resistance.



All laminates are installed exclusively by certified FPS technicians to ensure optimal adhesion, performance, and durability.



FTL 300 & FTL 600

BUILDING – WINDOW & DOOR GLASS PROTECTION

- High light transmission with excellent optical clarity
- No VOC residue – environmentally friendly solution
- Enhances occupant safety by minimizing injuries from shattered glass caused by:
explosions / hurricanes / earthquakes
- Reduces risk of glass fragmentation due to spontaneous breakage
- Increases burglary resistance and deters forced entry
- Excellent weather resistance and aging durability
- Long-term UV protection



TECHNICAL SPECIFICATIONS

FTL300

PROPERTY	UNIT	VALUE	TESTING INSTRUMENT	TEST METHOD
THICKNESS	MM	12	H0530 Digital Dial Meter	GBT 29061
VISIBLE LIGHT TRANSMITTANCE	%	89 ± 3	Pe950 Spectrophotometer	GB/T 2680
INTERNAL REFLECTION (VISIBLE LIGHT)	%	10 ± 3	Pe950 Spectrophotometer	GB/T 2680
EXTERNAL REFLECTION (VISIBLE LIGHT)	%	10 ± 3	Pe950 Spectrophotometer	GB/T 2680
UV BLOCKING RATE	%	≥ 25	Pe950 Spectrophotometer	GB/T 2680
INFRARED BLOCKING FACTOR	%	2 ± 5	LS162 (950 nm)	Challenge Shield
FOG DEGREE	%	≤ 3.5	AT-4727 Fog Tester	ASTM D1003
CLARITY	%	≥ 99	AT-4727 Fog Tester	ASTM D1003
TOTAL SOLAR ENERGY REJECTION	%	13 ± 2	Pe950 Spectrophotometer	GB/T 2680
AGING TEST (UV EXPOSURE)	%	NO CHANGE	Ultraviolet Aging Meter	0.5 W/m ² @ 340 nm 1200 h

FTL600

PROPERTY	UNIT	VALUE	TESTING INSTRUMENT	TEST METHOD
THICKNESS	MM	23.8	H0530 Digital Dial Meter	GBT 29061
VISIBLE LIGHT TRANSMITTANCE	%	92 ± 3	Pe950 Spectrophotometer	GB/T 2680
INTERNAL REFLECTION (VISIBLE LIGHT)	%	10 ± 3	Pe950 Spectrophotometer	GB/T 2680
EXTERNAL REFLECTION (VISIBLE LIGHT)	%	10 ± 3	Pe950 Spectrophotometer	GB/T 2680
UV BLOCKING RATE	%	≥ 99	Pe950 Spectrophotometer	GB/T 2680
INFRARED BLOCKING FACTOR	%	12 ± 2	LS162 (950 nm)	Challenge Shield
FOG DEGREE	%	≤ 3.5	AT-4727 Fog Tester	ASTM D1003
CLARITY	%	≥ 99	AT-4727 Fog Tester	ASTM D1003
TOTAL SOLAR ENERGY REJECTION	%	14 ± 2	Pe950 Spectrophotometer	GB/T 2680
AGING TEST (UV EXPOSURE)	%	NO CHANGE	Ultraviolet Aging Meter	0.5 W/m ² @ 340 nm 1200 h

BALLISTIC PROTECTION OF GLASS

FOR BALLISTIC-RATED GLAZING APPLICATIONS, FPS UTILIZES A MULTI-MATERIAL COMPOSITE SYSTEM ENGINEERED TO DELIVER CERTIFIED BALLISTIC RESISTANCE WHILE MAINTAINING OPTICAL CLARITY AND STRUCTURAL INTEGRITY.

THE PROTECTION SOLUTION IS BASED ON A STRATEGIC COMBINATION OF:

- SELECTED PET (POLYETHYLENE TEREPHTHALATE) LAYERS
- ACRYLIC GLASS (PMMA) COMPONENTS
- POLYCARBONATE IMPACT-RESISTANT SHEETS
- LAMINATED SAFETY GLASS

PRODUCT	BALLISTIC RATING	COMPOSITE:	THICKNESS	WEIGHT
BTP - 1	 BR-2 - 9 mm Luger	Laminated Glass + Polycarbonate + PET	11 mm	27,5 kg
BTP - 2	 BR-3 - .357 Magnum	Laminated Glass + PET	13 mm	32,5 kg
BTP - 3	 BR-4 - .44 Magnum	Laminated Glass + PET	15 mm	37,5 kg
BTP - L - 4	 BR-3 (Lightweight)	2 Polymers + PET (*Portable self-adhesive solution)	14 mm	16,7 kg
BTP - L - 4	 BR-4 (Lightweight)	2 Polymers + PET (*Portable self-adhesive solution)	16 mm	19 kg
BTP - 5	 BR-5 - 7,62 x 39 mm , 5,56 x 45 mm	Laminated Glass + Polycarbonate + PET	25mm	49,7 kg
BTP - 6	 BR-6 - 7,62 x 51 mm	Laminated Glass + PET	29mm	55 kg
BTP - 7	 BR-7 - 7,62 x 54 mmR API	Laminated Glass + PET	37mm	77 kg
OTHER BR LEVELS	UPON REQUEST			

*weight / m2

BY COMBINING THESE MATERIALS INTO A LAYERED COMPOSITE STRUCTURE, THE SYSTEM ABSORBS AND DISPERSES PROJECTILE ENERGY, REDUCING PENETRATION AND PREVENTING FRAGMENTATION. IT DELIVERS TAILORED BALLISTIC PROTECTION LEVELS WHILE MAINTAINING TRANSPARENCY AND ARCHITECTURAL COMPATIBILITY.

Portable Ballistic Protection Solution

The portable protection system can be dispatched within 5 hours of order confirmation in countries where FPS Partners operate.

The solution is delivered directly to the customer and is designed for simple self-installation. The system is applied by removing the protective film from the pre-coated adhesive layer and mounting it directly onto the designated surface.

Key Advantages:

- Rapid deployment in urgent threat situations
- No specialized installer required
- Discreet implementation – no external teams on-site
- No exposure of protected location

This solution is particularly suitable for sensitive environments where operational confidentiality is critical, including:

- Safe houses
- Witness protection facilities
- VIP residences under elevated threat
- Temporary secure apartments



The portable system enables immediate enhancement of ballistic resistance while maintaining full discretion and operational security.



BUILDING – BALLISTIC PROTECTION OF NON-TRANSPARENT STRUCTURES

(Window & Door Frames, Ballistic Doors, Safe Room Walls, Structural Walls)

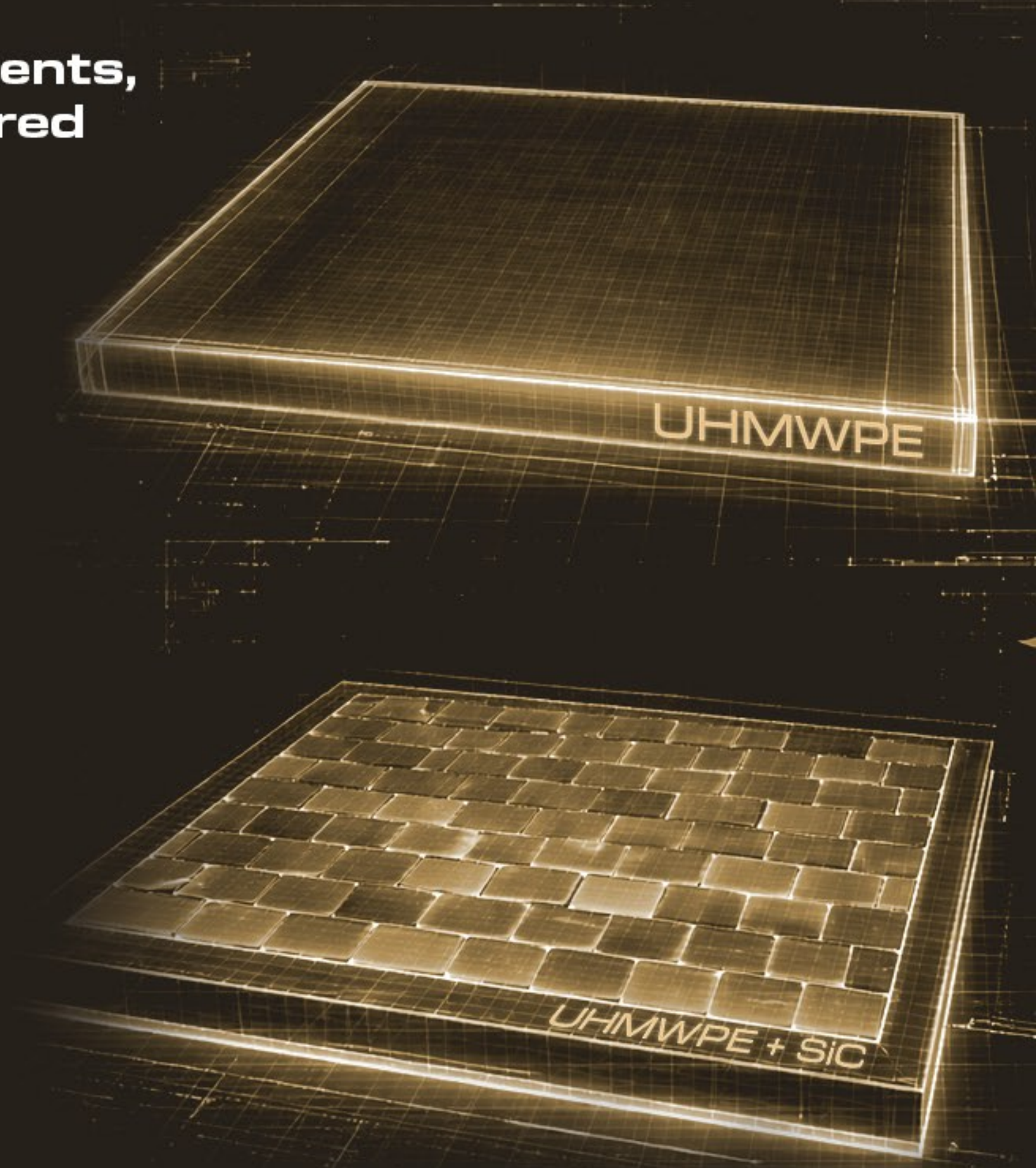
For the ballistic reinforcement of non-transparent building components, FPS employs advanced multi-material composite systems engineered to meet specified threat levels.

The protection system integrates a strategic combination of:

- Ballistic steel (thin, high-hardness grades)
- Light ceramics (Silicon Carbide – SiC or Boron Carbide – B₄C)
- Ultra-High Molecular Weight Polyethylene (UHMWPE)
- Selected PET materials

Ballistically resistant doors and walls are constructed using layered composite structures with calibrated fillers and material thicknesses tailored to the required ballistic classification.

These engineered composites provide high energy absorption, structural integrity, and optimized weight-to-protection ratios, ensuring reliable performance against defined ballistic threats while maintaining architectural adaptability.



BALLISTIC PROTECTION OF NON-TRANSPARENT MATERIALS

FOR BALLISTIC-RATED GLAZING APPLICATIONS, FPS UTILIZES A MULTI-MATERIAL COMPOSITE SYSTEM ENGINEERED TO DELIVER CERTIFIED BALLISTIC RESISTANCE WHILE MAINTAINING OPTICAL CLARITY AND STRUCTURAL INTEGRITY.

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- ACRYLIC GLASS (PMMA) COMPONENTS
- LAMINATED SAFETY GLASS

PRODUCT	BALLISTIC RATING	COMPOSITE:	THICKNESS	WEIGHT
BNTP - 1	 FB1 - FB4 - All Handguns	UHMWPE + PET	8 mm	7,44 kg
BNTP - 2	 FB5 - 7,62 x 39 mm FMJ, 5,56 x 45 mm, .223 remington	UHMWPE + PET	16 mm	14,8 kg
BNTP - 3	 FB6 - STANAG M1, VPAM 6	UHMWPE +Ceramics (SiC) + PET	16 mm	33 kg
BNTP - 4	 FB7 - STANAG M2, VPAM 7	UHMWPE +Ceramics (SiC) + PET	18 mm	34,9 kg
BNTP - 5	 FB7 - STANAG M2, VPAM 7	Selected type Ballistic Steel + UHMWPE	21 mm	55,4 kg
OTHER FB LEVELS	UPON REQUEST (NATO STANAG M3, VPAM 8, fb8 etc.)			

*weight / m2

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Thank you

for choosing our ballistic protection

Jozef Slíž

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