



INSTANT BALLISTIC PROTECTION AGAINST BOMB-BLAST, SHRAPNELS & DRONE PENETRATION



ANTI-DRONE PROTECTION SYSTEMS

INSTANT PROTECTION

AGAINST BOMB-BLAST, SHRAPNELS & DRONE PENETRATION INTO A BUILDING



DRONE EXPLOSION INSIDE OR OUTSIDE OF A BUILDING MAKES COMPLETELY DIFFERENT DAMAGE IMPACT

FORTIS PROTECTION SYSTEMS GROUP OFFERS THREE INSTANT SOLUTIONS OF GLASS PROTECTION AT BUILDINGS:

- **INSTANT PROTECTION OF WINDOWS WITH FORTIS TRANSPARENT LAMINATE ON THE GLASS (FORTIS WIN-1):**

BoPET Laminate 2 x 24 Mil (FTL 600) on external and 2 x 24 Mil (FTL 600) on internal side of the window.

- **SOLUTION BY DESIGN: FORTIS ROBUST PROTECTION OF WINDOWS WITH EXTERNAL PANNELS & BoPET LAMINATE ON INTERNAL SIDE (FORTIS WIN-2):**

Combination of materials PMMA, Polycarbonate and BoPET; external panel covers also the frame (ALU, plastic or wooden) of the window as another weak point of protection.

- **SOLUTION BY DESIGN: FORTIS ROBUST PROTECTION OF WINDOWS WITH EXTERNAL & INTERNAL BALLISTIC PANNELS (FORTIS WIN-3):**

Combination of materials PMMA, Polycarbonate and BoPET; external panel covers also the frame (ALU, plastic or wooden) of the window as another weak point of protection while internal side of the window is covered by another robust ballistic panel made of special impact resistant Polycarbonate and a combination of BoPET laminate.



(FORTIS WIN-1)

PROTECTION OF WINDOWS WITH FORTIS TRANSPARENT LAMINATE ON THE GLASS

INSTANT SOLUTION:

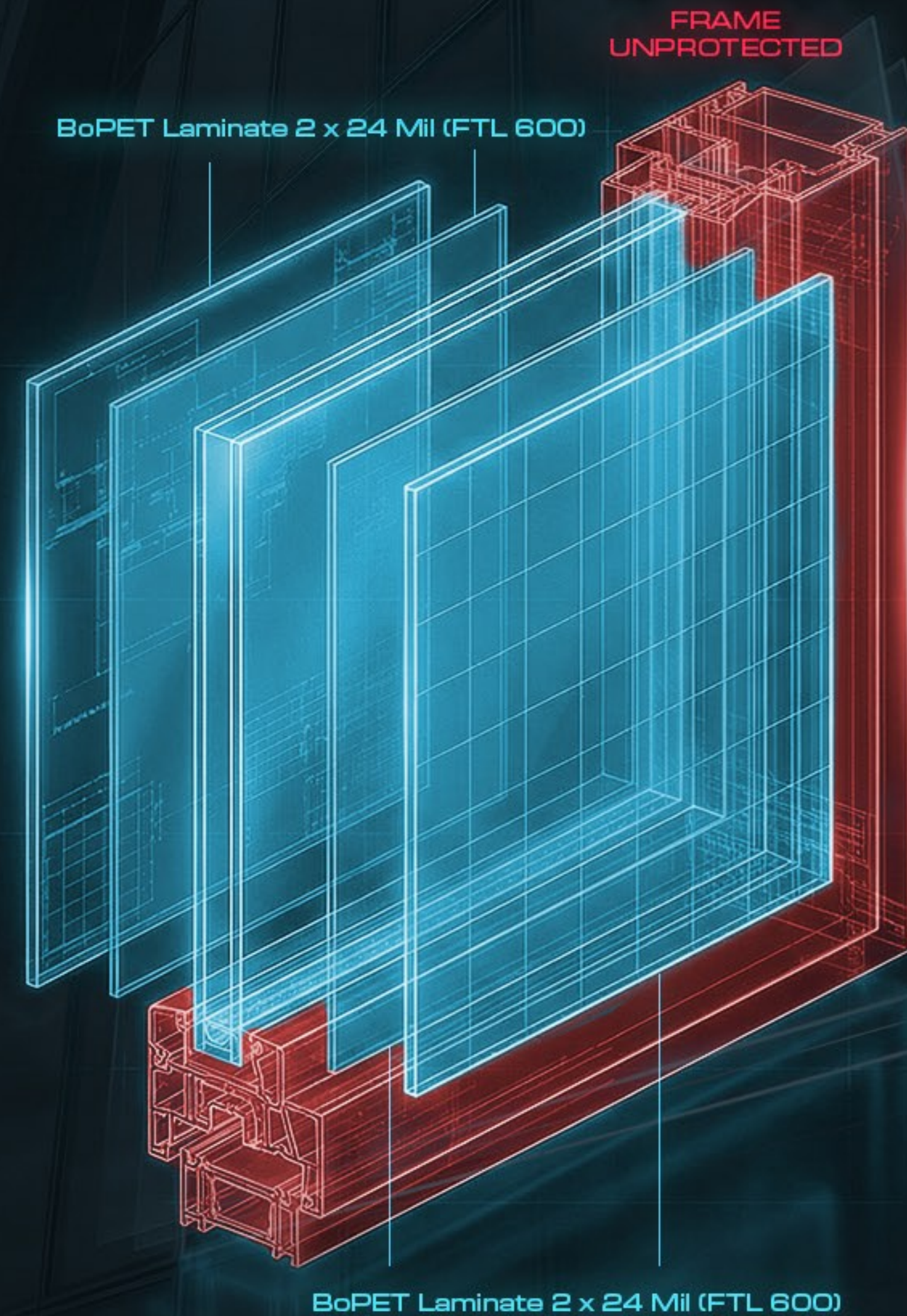
BoPET Laminate 2 x 24 Mil (FTL 600) on external and 2 x 24 Mil (FTL 600) on internal side of the window

THREAT:

Immediate solution and delivery of a protection against shrapnel, glass splinters of a shattered glass, bomb blast, small drones with explosives

APPLICATION:

Protection of window takes approx. 30 minutes



(FORTIS WIN-2)

ROBUST PROTECTION OF WINDOWS WITH EXTERNAL PANNELS & BoPET LAMINATE ON INTERNAL SIDE

SOLUTION BY DESIGN:

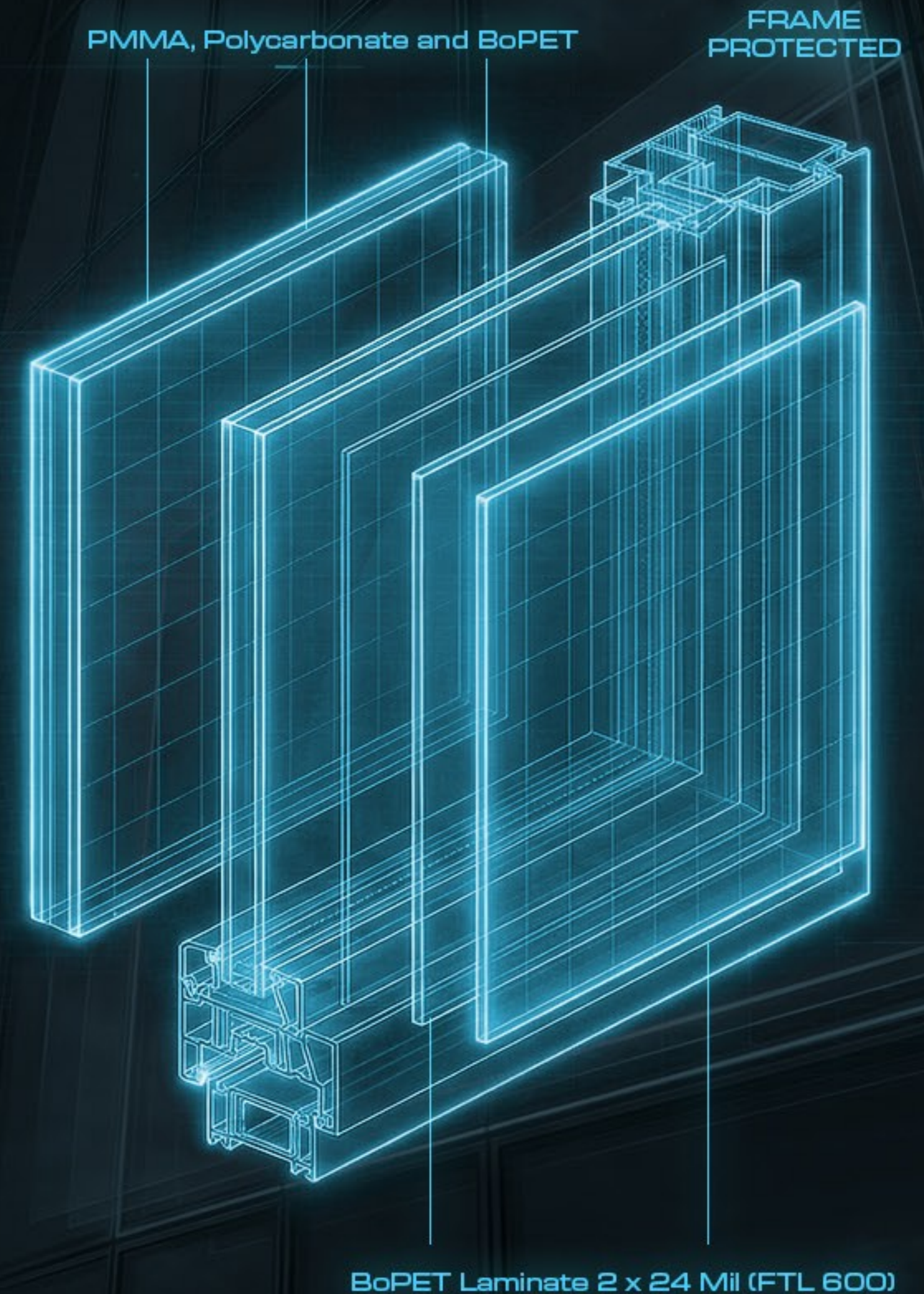
External panel that protect glass and the frame of the window, which is also a weak point in ballistic protection sense, is protected by combination of materials PMMA, Polycarbonate and BoPET. This composite panel has bigger dimensions as the glass itself so it covers also the frame of the window and cannot be pushed inside the building due to the kinetic energy of a projectile (protection against shrapnel, glass splinters, bomb blast or drone with explosive). Internal side of window (glass pane) is covered by the 2 layer of 24 Mil (FTL 600) BoPET transparent laminate that prevents shrapnel and glass splinters to penetrate and enter in a building and to cause an impact.

THREAT:

Protection against shrapnel, bomb blast, glass splinters of shattered glass, medium size drones with explosives.

APPLICATION:

Protection of window takes approx. 40 minutes.



(FORTIS WIN-3)

ROBUST PROTECTION OF WINDOWS WITH EXTERNAL & INTERNAL BALLISTIC PANNELS

SOLUTION BY DESIGN:

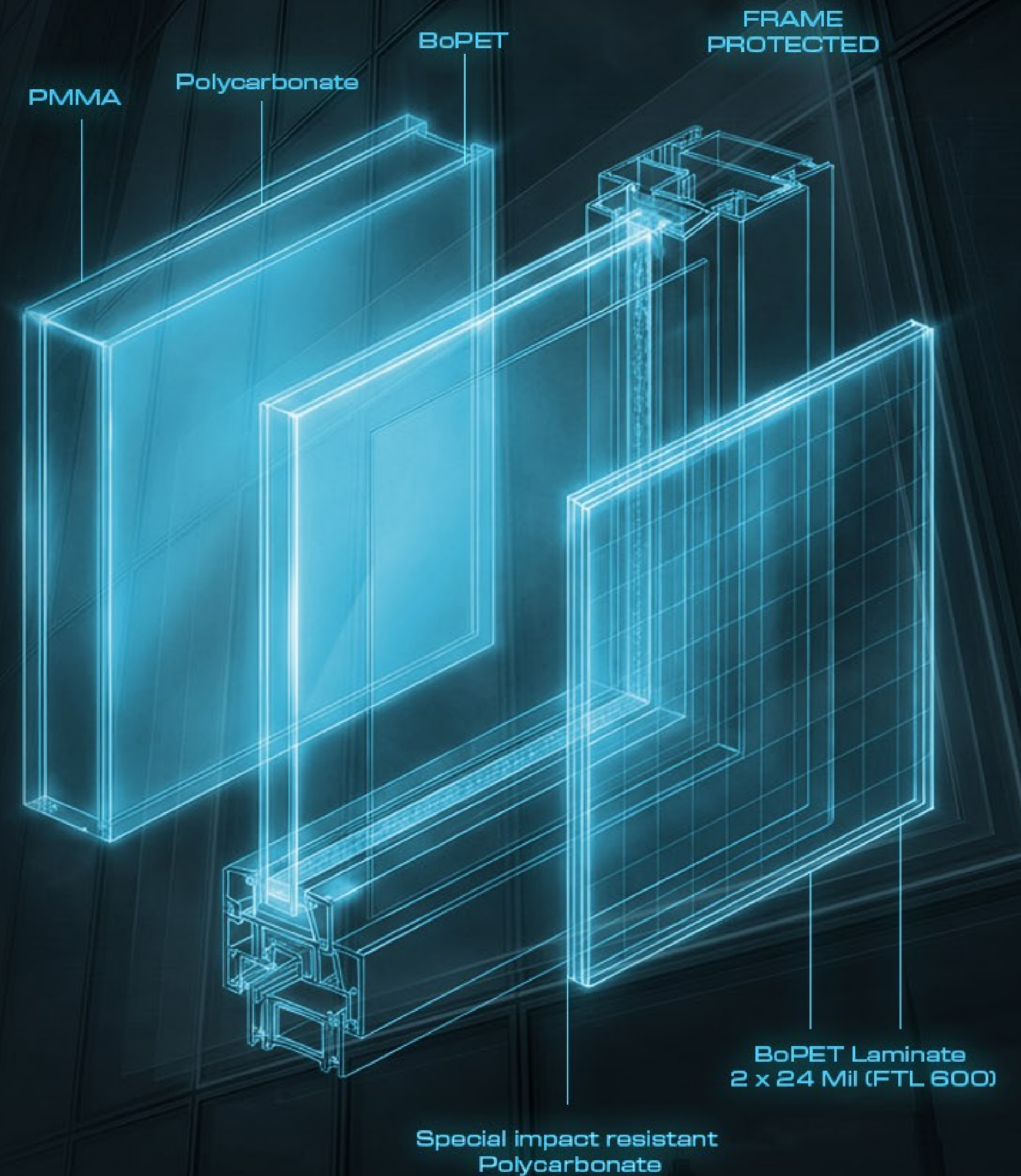
External panel that protect glass and the frame of the window, which is also a weak point in ballistic protection sense, is protected by combination of materials PMMA, Polycarbonate and BoPET. This composite panel has bigger dimensions as the glass itself so it cover also the frame of the window and cannot be pushed inside the building due to the kinetic energy of a projectile (protection against shrapnel, glass splinters, bomb blast or drone with explosive). Internal panel is made of special impact resistant Polycarbonate and covered by 2 layers of 24 Mil (FTL 600) BoPET transparent laminate that offers the highest penetration protection and secondary damage caused by shrapnel of shattered glass that would penetrate, enter in a building, and cause an impact.

THREAT:

The highest protection against shrapnel, bomb blast, medium size drones with explosives, small caliber bullets and glass splinters.

APPLICATION:

Protection of window takes approx. 30 minutes



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.



Portable Ballistic Protection Solution

The portable protection system can be rapidly dispatched following order confirmation in countries where FPS Partners operate, enabling the fastest deployment times available for this type of ballistic protection.

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.



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

OTHER FORTIS SOLUTIONS AND APPLICATIONS

FORTIS PROTECTION SYSTEMS GROUP OFFERS THREE INSTANT SOLUTIONS OF GLASS PROTECTION AT BUILDINGS:

THE USE OF PRESENTED SOLUTION (FORTIS WIN-1) IN AUTOMOTIVE:

- HOSPITALS, SCHOOLS, GOVERNMENT BUILDINGS
- PROTECTION OF PRIVATE VEHICLES
- PUBLIC TRANSPORT

OTHER BALLISTIC SOLUTIONS OF FORTIS:

- BALLISTIC GLASS LEVEL (UP TO NATO STANAG LEVEL 2)
- BALLISTIC PROTECTION OF NON-TRANSPARENT MATERIALS (UP TO NATO STANAG LEVEL 2)

BALLISTIC PROTECTION OF VEHICLES:

- BALLISTIC PROTECTION OF CIVILIAN VEHICLES (UP TO NATO STANAG LEVEL 2)





Thank you

for choosing our ballistic protection

Luka Sink

Fortis Protection systems LLC, Dubai



+971 50 360 3937



Luka@fortis-protection.com