

HFRP Protective Panels provide protection from blast hits, fragmentation, ballistics and forced entry.

Over the years, HFRP Panels installations were tested and proven for durability and adaptability in many HLS, governmental and commercial project and applications. HFRP Protective Panels are used to internally or externally coat existing standard structure thus rendering them protected against various threats

HFRP Protective Panels are made of composite material, a polymer matrix made of Fiber- Reinforced Plastic with a combination of other ingredients. The surface formed by this process is exceptionally strong and lightweight.

Benefits:

- High level of protection per thickness and weight, compared to common reinforcement materials
- Processing with standard tools
- Corrosion and chemical reaction resistant - no need for protective coating
- High mechanical and thermal resistance
- Highly flexible - can withstand the pressures of large tug-bending without falling apart
- Electrically insulated
- Electromagnetic transparent - depending on thickness and type of transmission
- Maintenance-free - significantly longer material life compared to steel.

Applications

- Blast and forced entry protection walls
- Protection of areas with different security needs
- A lighter and stronger substitute for metal or concrete
- Sensitive equipment and computer safe rooms protection
- Support structures for various industries.
- Corrosion resistance allows the use for:
 - Water, salts and chemicals environment
 - Cooling towers, desalination and wastewater treatment
 - Basic constructions and strengthening of existing structures as well as beams, columns, steps, grates walking, covering, parapets, ladders and more

Specifications:

| Thickness | Weight | Panel width | Panel length |
|-----------|----------|-------------|--------------|
| 8.0 mm | 16Kg /M2 | 1m | No limit |
| 12.7 mm | 25Kg /M2 | 1m | No limit |

HFRP Protective Panels successfully survived field tests of:

| Tested Impact | Construction |
|---|--|
| 1000 kg of explosives from a distance 24 meters | integrated window, shielding structure built with building block of 20 cm. |
| 830 kilograms of explosives from 30 meters | covered block wall of 20 cm and 10 cm - shielding with panels of 8 mm HFRP Ortech, also tested with a window |
| 300 kilograms of explosives from a distance of 15 and 16 meters | 10 cm block wall with Ortech HFRP of 8 mm |
| 4.5 kg of explosives from a distance 3 meters (equivalent to Qassam rocket hit) | protection with Ortech HFRP, 8 mm to 10 cm block wall |

Delivery:

- 15-30 days on regular orders.
- The panel are delivered in light green as a standard. Other colors are available according to customer request.

