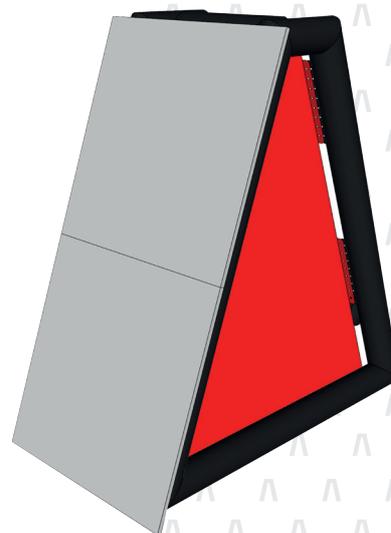


# BALBAR

## Composite boards with ballistic resistance

Ballistic resistant composite GFRP (Glass Fiber Reinforced Polymer) sheets are a product prepared by pressing method of polymeric resin and glass reinforcement materials in the form of fabric.

Separate composite GFRP boards are resistant to projectiles fired from short handguns and fragments of hand and artillery shells of small and medium caliber and improvised explosive device (IED). Their ballistic level can be increased by stacking them to ensure resistance to conventional projectiles fired from long firearms.



### At present we developed 3 versions of boards, where their resistance is tested according to STANAG 2920 (1,102 g splinter test):

- ▲ Board thickness 10 mm (weight approx. 20 kg / m<sup>2</sup>) - V50 640 m/s
- ▲ Board thickness 13 mm (weight approx. 25 kg / m<sup>2</sup>) - V50 810 m/s
- ▲ Board thickness 16 mm (weight approx. 30 kg / m<sup>2</sup>) - V50 1000 m/s

The composite GFRP boards are an essential element of a system of mutually compatible solutions developed in the framework of internal research or other projects aimed at ensuring the protection of persons and increasing the resilience of technique or objects. Composite GFRP boards can be used in different cases and situations alone or in combination with other elements or supporting structures.



### Examples of the real use of the developed system solutions:

- ▲ Reinforcement of structural elements in architecture, e.g. cladding of various buildings
- ▲ Hidden or transparent reinforcement of the interior spaces of buildings constructed mainly from "light" materials - plasterboard, wooden buildings, glass, sheet metal, etc.
- ▲ Reinforcement of components of various machines and equipment
- ▲ Construction of an internal or external, temporary or permanent reinforcement of the vehicle against external attack
- ▲ Construction for resist of vehicle's transport area for the transport of explosive articles to ensure the safety of the vehicle occupant
- ▲ Construction with easy install mobile modular barrier solutions for fast protection of people and objects
- ▲ Ballistic resistant elements for personal protective equipment

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