



500 x 500 mm module of a demonstrator of additional armour for the level 2 protection according to STANAG 4569, AEP55 with fittings.

500 x 500 mm module of a demonstrator of additional armour for the level 3 protection according to STANAG 4569, AEP-55 with fittings.

500 x 500 mm module of a demonstrator of additional armour for the level 4 protection according to STANAG 4569, AEP55 with fittings.

The aim of the project was to develop a concept and make an additional modular armour consisting of ballistic shields and a system of fittings which would enable quick detachment, replacement, or maintenance of the shields. The system with ballistic resistance at levels 2, 3 and 4 according to STANAG 4569 has been designed to be mounted on armoured vehicles and tracked platforms. The project assumed the use of lightweight multilayer ballistic shields or shields made following the squeeze casting technology, providing protection against calibre 7,62mm-14,5mm anti-tank missiles. Demonstrators of the system have been created based on the knowledge and experience of members of a ballistic protection and combat vehicles construction Consortium. The type of materials and technology utilized to manufacture the product are of innovative nature. As a product of ingenious engineering, the system stands out against domestic, as well as global competition.

Developed solutions	
Protection level according to STANAG 4569, AEP-55	Basic armour – ARMSTAL 500
Level 2 - 7,62 x 39 anti-tank and incendiary (BZ)	6 / 8 / 10 [mm]
Level 3 - 7,62 x 51 anti-tank (tungsten carbide core missiles) 7,62x54R anti-tank and incendiary (B32)	6 / 8 / 10 [mm]
Level 4 - 14,5 x 114 anti-tank (B32)	6 / 8 / 10 [mm]

The project was implemented by a consortium consisting of:

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Members of the Consortium:

- Foundry Research Institute ul. Zakopiańska 73, 30-418 Krakow, Poland
- Research and Development Centre for Mechanical Appliances OBRUM Ltd 44-117 Gliwice, ul. Toszecka 102
- „Lubawa” S.A. ul. Staroprzygodzka 117, 63-400 Ostrów Wielkopolski
- Motor Transport Institute 80 Jagiellońska Str. 03-301 Warsaw



Narodowe Centrum
Badań i Rozwoju



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