

● description :

Lightness : The compromise between weight and protection level is optimized with respect to payload capabilities of the aircraft.

Efficiency : The provided rugged technology covers multiple-hit protection. The shielding is among the lightest and most durable available against all common gun calibers including armour piercing ammunitions threats..

Flexibility & Ease of Installation : The quick fix interfaces of the plates are designed to ensure easy installation and removal. This add-on particularity of the product is adapted to the actual mission inquiry.

Safety : The ballistic protection panels do not impede, modify, or interfere with the use and functionality of any safety device of the aircraft.

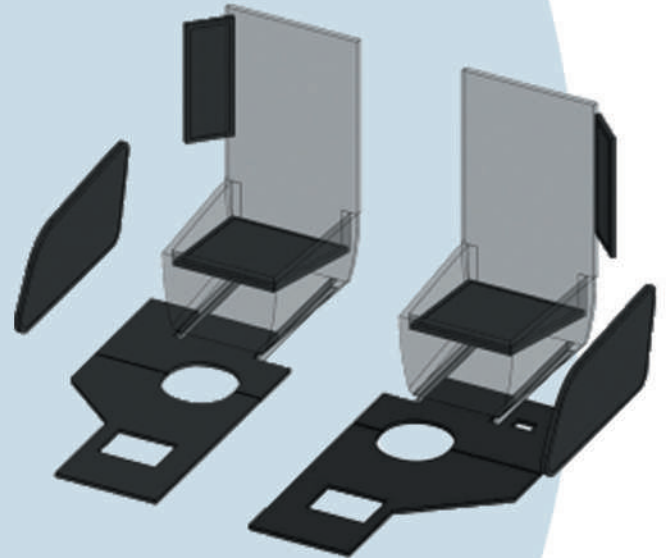
Economic : The very low maintenance constrain of ARES's selected ballistic products grants a reduced whole life cost results.

Service : As a solution provider, ARES offers a complete service, from definition up to the aircraft installation and customer's staff training.

● functionality of the system :

Crew survivability is the first priority in the design of all our Lightweight Armour Airborne Solutions.

ARES has developed and produced armour protection solutions for aircraft subject to operate in forward unsafe areas. In matter of aircraft protection, every kilogram of weight counts due to the potential degradation of performance and reduction in payload. ARES's solutions are therefore designed to provide maximum protection with a minimum of added weight.



Heart of ARES's **SHIELD AND SWORD** concept, Helicopter Armour Protection solutions are built on each or a combination of composite ceramic armour and high density polyethylene considered as the lightest ballistic protection material worldwide. ARES has developed **SHIELD AND SWORD** product range to grant the widest solutions of protection and defense for the crew members.

This smart concept is the ultimate comprehensive means for the typical safety inquiries :

- Detection of hostile shots,
- Protection against the threats,
- Armed Response while being in safe side.

●●● Aircraft Armour Protection characteristics

● technology :

Selected according to constraints and operational inquiries

- PE Composite
- Ceramic Composite
- Metal Composite

Armour protection concept :

- Array of individual composite protection panels pre-cut to specific shape and size
- Panels are attached to aircraft floor and vertical surface by brackets, screws or « Hook and Loop ».

● characteristics :

Ballistic capabilities :

- Up to NIJ-0108-01 Level III or Level IV or other specific request
- Multi-hit capability
- Fragment suppression for crew safety

Packing – storage :

Wooden box or Stainless steel box

ARES / Complete Service provider :

- Armour Protection Design
- Aircraft Integration
- Logistic Support
- Customer Training

Documentation :

- Installation Drawings and Installation Instructions
- CG Report
- W&B report

Standards :

- Military Standards :
 - MIL-STD-810 Environmental Test Methods and Engineering Guidelines
 - MIL-STD-662F V50 Ballistic Test for Armour
 - NIJ-0108-01 Ballistic Resistance for protective materials



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WHERE EXPERIENCE MEETS SOLUTIONS ●●●