Ensuring the survival of soldiers and operating resources is gaining more and more strategic importance in the face of a changed global security situation with asymmetrical threats.

MEHLER ENGINEERED DEFENCE GMBH offers you ballistic protection systems to NATO standards as well as extensive classifications for sea, air and land applications.

OUR SERVICES INCLUDE:

- Construction of the ballistic protection systems and integration into the weapons systems
- Development of a threat-specific protection system
- Construction with respect to the demands of specific applications (e.g. modular structure, customisation according to specific environmental conditions, fire characteristics, mounting, coating, etc.)
- System and environmental sustainability tests
- Mock-Up Construction
- Examination of construction details through tests series according to customer demands and internal quality control

The services of MEHLER ENGINEERED DEFENCE GMBH entail the development, production, testing and system integration of metallic, polymer and ceramic composite for terminal ballistic protection technologies for military and magisterial use. The systems offer the following characteristics and standards:

- STANAG 4569 (as at May 2004)
- STANAG 2920 (as at July 2003)
- TR Schutzwesten (as at July 2005)
- NIJ Standard 01.01.04 (as at June 2001)
- PM 2000 (as at January 2002)
- TR Durchschusshemmender Schild (as at 1997)
- or customer specific threat scenarios

All orders are fulfilled in accordance with the NATO QUALITY ASSURANCE REQUIREMENTS, AQAP 2110 as at November 2009

KONTAKT

MEHLER ENGINEERED DEFENCE GMBH
SALINENWEG 38
D-38364 SCHÖNINGEN
TELEFON (+49) 0 5352 969210-00
FAX (+49) 0 5352 969210-10
info@mehlerdefence.de
www.mehler-engineered-defence.de
Our Naval Armour Systems are available for STANAG 4569 KE Levels 1-4, various multihit capabilities or customer specific threat scenarios:

- Designed for the special requirements of naval applications, esp. handling and environmental conditions
- Unmagnetic, for use in counter sea mine units, signature management is possible
- No tools for mounting required, fast mounting
- Suitable for re-fitting of existing weapon systems as well for integration in new developments

**SYSTEM INTEGRATION OF NAVAL ARMOUR**

In order to integrate armour system non permanent, a fastener system is used, providing the following advantages compared to screw coupling:

- Short setup time, esp. for helipad rail mountings
- Vibration and g force resistance due to damping elements
- Easily removable
- No welding required
- Overlapping layout to close ballistic windows

**TECHNICAL SPECIFICATIONS:**

**SAMPLE FOR KE LEVEL 1 PROTECTION**

<table>
<thead>
<tr>
<th>TECHNICAL SPECIFICATION</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSTEM AREA DENSITY</td>
<td>22 kg/m²</td>
</tr>
<tr>
<td>THICKNESS</td>
<td>23 mm</td>
</tr>
<tr>
<td>7.62 NATO</td>
<td>830 m/s</td>
</tr>
<tr>
<td>5.56x45 (M193)</td>
<td>930 m/s</td>
</tr>
<tr>
<td>TEMPERATURE RANGE</td>
<td>-30°C TO +70°C</td>
</tr>
</tbody>
</table>

**MULTI_HIT CAPABILITY**

- STANAG 4596 Annex B, App.2, Table A2.2

**MATERIAL**

- High performance polyethylene, in housing with glass reinforced fibres or alumina

**Ss109 NOT INCLUDED**

**ADDITIONAL SYSTEM PROPERTIES**

- Vibration resistance to naval specific vibration spectrum (1-120Hz, 1,5mm amplitude, all spatial directions, tested at WT71, German Navy)
- UV Stability
- Resistance against environmental conditions (saltwater, rain, dust)
- Wind load of up to 70 kn
- Conformity of integrated systems in accordance with BV0052 classification of German navy
- Ergonomic layout for safe handling in heavy seas
- On demand radar signature reducing layout
- Flame retardant
- Night goggle capable