



ADVANCED PROTECTION SOLUTIONS FOR LIFE AND MATERIAL

Ballistic Protection Technologies

Automotive Object Protection Light Protection · Heavy Armour · Blast Protection



The art of protection

The art of living is directly related to the art of protecting life. Verseidag Ballistic Protection translates this claim as “The art of protection” – a comprehensive safety concept that enables individual material design and guarantees the highest quality from the basic fabric right up to the end product.

All Verseidag Ballistic Protection materials are custom-made and offer the exact degree of safety you require, with each of these individual solutions being based on experience gained in the most diverse fields of personal and object protection.

Verseidag Ballistic Protection products have satisfied users worldwide. Their most important feature is their reliability, which we guarantee not only with international certificates such as ISO 9001 and AQAP-2130, but also by using an innovative, perfectly interacting production and control system.

“The art of protection” is a promise of quality and that extra degree of safety.



100 % Verseidag Ballistic Protection

Seamless safety means maximum safety

The greatest possible safety means perfect safety, which in turn means that there is no allowance for risks from interfaces. In order to exclude these risks right from the start we offer complete development and production of ballistic protection systems from one source, starting with the raw material and extending right up to the ready-to-use end product. This is achieved over four perfectly matched production stages, using only our own equipment and a fully experienced team of ballistic professionals.



Weaving

Our security target begins with the choice of woven textiles. We are specialised in the production of fabrics and laminates made of Kevlar[®], Twaron[®], Dyneema[®] and S2-Glas[®].



Coating

The nature of the final product and its field of application will determine the type of coating (duromers, thermoplastics and elastomers) and the choice of process (direct coating, reverse coating and film laminating).



Cutting

Our computer-controlled processes maximise the use of all materials and ensure tailor-made production of our customers' individual.



Moulding

State – of – the – art high performance autoclave technology connected with precisely controlled production parameters ensures a constant optimum level of and reliability of Verseidag Ballistic Protection products.



Manufacturing

The latest technologies and machines for the manufacture of three-dimensional moulded parts and fragmentation blankets guarantee a consistent high.

The safety concept of Verseidag Ballistic Protection

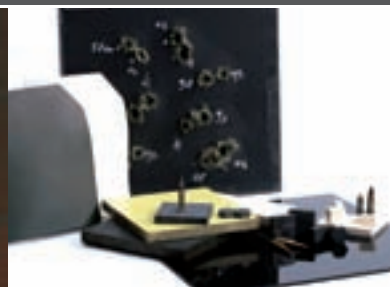
The quality of a ballistic protection product depends on a range of processes before, during and after production. These activities have been drawn together into a corporate safety concept which enables and ensures a continuous exchange of information and experience internally and externally. This arrangement optimizes support functions such as **ENGINEERING, PROTOTYPING and QUALITY ASSURANCE** and exploits new potential wherever it presents itself. In short, Verseidag's ballistic protection concept applies to all the activities during the conceptual design and planning of a ballistic protection system.

Research and development

Since such dynamic industries as ballistic protection are constantly producing new materials, processes and designs, every knowledge advantage can become a decisive competitive advantage, which is why we place our confidence in our own research. Together with our customers, project and development partners, our R&D experts take up the latest scientific developments and convert them into mature products for series production.

Their activities include:

- **continuous development of high-performance woven fibre fabrics using aramide, polyethylene or fibreglass**
- **system developments using individual combinations of various high-performance materials such as ballistic protection ceramics or ballistic steel with high-performance fibres**
- **designing systems to meet and Common-Protection standards and customers' own requirements**



Experience

Internal firing tests are made on our own firing range for development and quality assurance. For official certification we are in close contact to all mayor inter-national test-institutes.



Engineering

Step by step, the ballistic concept, patterns and prototypes are developed to become individually formulated protection systems.

Their activities include:

- **from concept phase to start of production**
- **designing protective components and sections including mock up's**
- **ballistic pre-testing in house and official certification**
- **supporting adaptations concepts**
- **system analyses and performance tests**

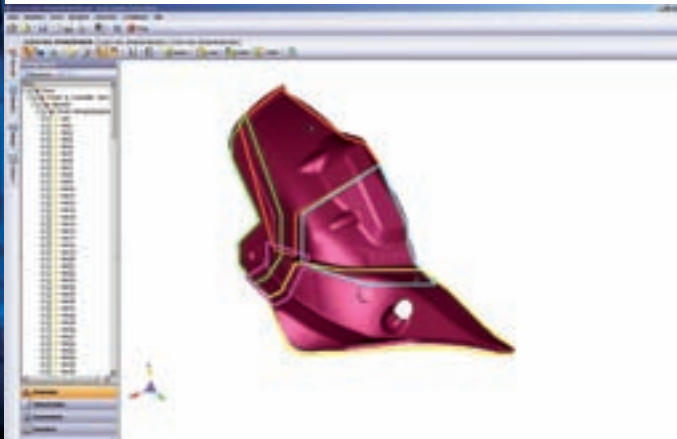
Prototyping

In our CAD department, initial ideas begin to take on a firm shape. Detailed patterns, simulations, prototypes and samples attached to vehicles enable complex system analysis and facilitate the transition from a concept to a product.

Quality Assurance

We combine the most prestigious international certificate schemes to make a single homogeneous Quality Management System in order to enable both our own expert knowledge and that of leading authorities to be integrated in our products and services. Corporate standards include our own testing laboratory and seamless tracking of all the materials we use right through to certification.

- **DIN EN ISO 9001 : 2008**





Experience security

Perfection – ready to install

Since the car is no. 1 in means of transport, there is no alternative in personal protection, armoured car services and cash transports. Custom-made protective systems are essential to fit perfectly in all individual vehicle types and their constructions and application areas.

Verseidag Ballistic Protection Systems are manufactured with up to date materials such as individually coated aramid, high performance polyethylene and combinations of different types of ballistic materials.

Nearly invisible and without influence on performance and handling, automotive protection systems offer protection according to all international standards.

Verseidag Ballistic Protection is developer and manufacturer of protective systems for special vehicles produced by OEMs such as Audi, BMW and Daimler as well as supplier for ballistic protection materials to retrofit series-production vehicles.





Individual security levels

Light Protection

The full range from flat panels to custom-made two- and three-dimensional protective systems for all vehicle types provide the best possible protection against delinquency and hand gun fire.

Heavy Armour

Heavy armour solutions ensure optimum security to vehicles used by politicians and other VIPs. All material combinations installed for the highest protection level are state of the art and offer protection against armour-piercing rifle ammunition.

Blast Protection

Flexible mats especially designed for floor pan and roof of the vehicle provide, in combination with steel and aluminium car body, improved protection against the effects of fragments through detonation of hand grenades.

Innovative Materials

In consequence of the special requirements needed in the automotive industry, only high-quality materials are used for our products.

- **Aramid (Kevlar, Twaron)**
- **High Performance Polyethylene (Dyneema, Spectra)**
- **Glass Fibre (E-Glass, S2-Glass)**
- **Metallic Materials (Aluminium, High Hardness Steel)**
- **Combination of high performance ballistic materials**



A D V A N C E D P R O T E C T I O N S O L U T I O N S F O R L I F E A N D M A T E R I A L



Tested quality – for your safety.

Certified to DIN EN ISO 9001:2008.

The Ballistic Protection Group – a worldwide association for ballistic protection systems for all parts of military forces, civilian protection systems, persons and objects.