

















COMPOSITE PRODUCTS

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SUPERYACHT EQUIPMENT

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MASTS As experts in Composite work, we have calculated and built several Mast for different Superyachts.





POOL ARRANGEMENTS AND SWIM PLATFORMS

With our experience of building custom pool arrangements, we are able to create perfect solutions for your extraordinary concepts.

AS ns for your extraordinary concept





GANGWAYS, BOARDING LADDER AND BOARDING STEPS To step into the Superyacht, Tender, or bathing platform in style, we develop the most clever solutions.





FENDERS AND FENDER HOOKS

Our luxurious Fenders are made in Carbon fiber, designed to maneuver easily.



TENDER CHOCKS AND SPREADER BARS

To fit some tenders into superyacht garages, spreader bars and lifting equipment might be required. We develop the best solution to meet your requirements.

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MARITIME EQUIPMENT

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HELICOPTER HANGAR DOOR ON FRIGATES

The images shown one of two 7 x 10-meter naval hangar doors now in service on a frigate. Carbon construction for low weight with high rigidity. Designed for 80to blast pressure.

Considerable weight reduction from 2500 kg to 500 kg







JUNCTION BOX

Developed completely watertight and for resisting the pressure up to 300m underwater in the deep sea.







OPERATOR CENTRE CONTROL CONSOLE ON FRIGATE

Developed completely watertight and for resisting the pressure of the deep sea



LIGHTWEIGHT LOCKER FOR FRIGATES

Developed completely watertight and for resisting the pressure of the deep sea







SONAR TRACKS AND STORAGE BOXES

Lightweight FRP parts for mine-hunting boats.

MILITARY EQUIPMENT



SEOSS CAMERA HOOD

Mechanical protection for a SEOSS camera system made in GRP.

According to MIL-STD-810 G, STANAG 2895, and with fire protection and stability for collision with a branch at 30km/h.

AEROSPACE





WIND TUNNEL Made out of Carbon for an scaled test model



CAMERA FAIRING

Fibercomposite and structurally appropriate Geometry optimization, including FE analyzes, proof of strength

RENEWABLE ENERGY





ROTOR BLADE MOULDS

Batch production of wind turbine rotor blades with the dimensions of 30m to 60m. Full-surface made of carbon fibre and reinforced plastic web sandwich.





EVONIC TRAINING MOULD

Highly abrasion-resistant mould surfaces made with the homogeneous heating patented Fibretemp® mould construction system. Made of carbon fibre plastic web sandwich with a nickel surface coating

ARCHITECTURE





COFFEE BEAN LANTERN Called the "Jacob's Coronation", made in one piece of 3m x 3m x 3m





DRIVE-IN AWNING

Made of GRP foam sandwich, this structure is an icon located around the central train station of Bremen.



SEAT SHELL Fibre composite construction for batch production of a 1,5 m x 1,5 m x 1,3 m seat shell, including prototype building.







RESCUE STRETCHER FOR AMBULANCE, MOUNTAIN RESCUE Develop lightweight and stable rescue equipment.



AUTOMOTIVE

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LIGHTWEIGHT STRUCTURE FOR FRICTION POINT WELDING

Handy friction welding tongs for sheet metal forming made of carbon fiber reinforced plastic web sandwich







COMPOSITE Services





DESIGN AND ENGINEERING

We use 3-D parametric modeling software that previews every aspect of the project and allows fast, flexible adjustment of geometries during development.

The analysis is the cornerstone of effective engineering, and the potential for weight saving relies on accurate knowledge of loadings and load paths. There are many ways of analyzing a structure, for example, with Finite Element Analysis (FEM). We have all the resources and experience needed to achieve effective outcomes.

The programs we use for design and analysis are: Autocad, Maxsurf advanced suite, Rhino 3D modeler, Solidworks Professional, Abakus (FEA)









CONSTRUCTION

We can handle everything, from building or making tiny repairs to complex large-scale projects.









TEST LABORATORY

We don't guess, we find out!

Operating our own test laboratory for:

- Examining new materials
- Verifying their properties
- Differential scanning calorimetry (DSC) thermal analysis to ISO 11357-1
- Dielectric measurement
- Tensile, compression and shear tests
- Setting quality standards
- Improving material quality
- Mechanical laboratory testing





PROTECCORE ® (BALLISTIC) AND FIRE RESISTANCE TESTS

We can handle everything, from building or making tiny repairs to complex large-scale projects.

Proteccore[®] technology for bulletproof fiber composite panels. For:

- great flexural stiffness.
- low weight, up to 60% weight reduction compared to steel plates.
- protection is provided on both sides.
- excellent heat insulation.

You can add effective security with our Proteccore® ballistic protection system and remain virtually invisible with a low radar signature and our CRP-based electromagnetic shielding system.







PROTECCORE ® (BALLISTIC) AND FIRE RESISTANCE TESTS

Award-winning patented technology.



RENEWABLE MATERIALS RESEARCH

Building with flax-fibre sandwich panels, the renewable alternative!