

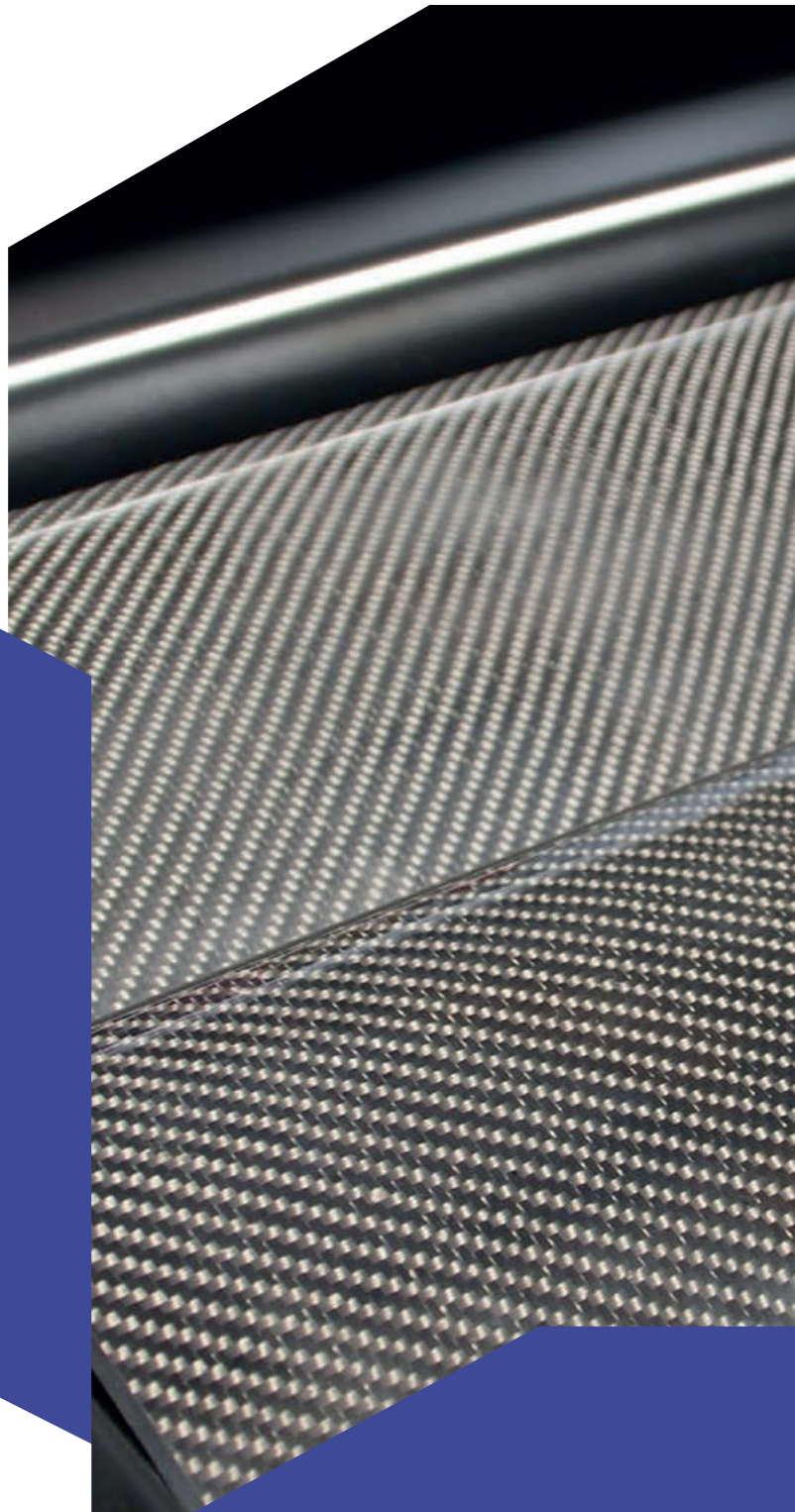
Carbon doors and carbon products

AMS carbon doors and related composite products are custom-engineered to meet any yacht's specific design and performance requirements. Each component is designed and manufactured to achieve the perfect balance between lightweight, strength, and durability.

KEY ADVANTAGES

- Finite Element Analysis (FEA) for weight-to-strength optimization
- Lightweight and robust composite structures
- Space and weight saving for integrated mechanisms
- Capability to manufacture complex geometries
- High durability and long service life

Using the most advanced carbon fibre lamination technologies, AMS is able to manufacture components with extremely complex shapes that cannot be achieved using conventional materials.





Design criteria

Each product is uniquely designed according to the applicable Classification Register requirements and load cases. Finite Element Analysis (FEA) enables the development of the lightest possible structure with maximum strength and stiffness. The design process results in an optimized laminate where carbon fibres are oriented along the principal stress directions

Materials

- Epoxy resin prepreg carbon fibre
- Epoxy resin carbon fibre laminated in vacuum bag
- Epoxy resin chopped carbon fibre laminated in vacuum bag

Carbon doors

Transom doors, Garage doors, Balcony doors, Sliding doors, Hatches, any kinds of Hull door

Carbon products

- Hard tops, Rollbars and any kind of cover
- Bathing platforms, foldable swimming ladders, rolling shutters, carbon lifting tables, or any custom solution

Finishing

Clear carbon look glossy or matt, or painted in any RAL or custom colour

Weight and strength

Same strength as the equivalent metallic component, but at least 30% lighter