

PRODUCTS IN ACTION

Ambulance- / Patrolboat from Brødrene Aa, Norway



In 2002 the "Rygerdoktoren" series - a high performance ambulance-/patrolboat- was produced for Rodne & sons. The vessel is a full sandwich construction with DIAB core materials and vinylester/carbon skins. Both the hull and the super structure were infused. The 20 m long hull was produced using the the core infusion method in a single hit operation that took less than an hour.

The combination of carbon multiaxial fibres, Divinycell core materials and the infusion manufacturing process, has resulted in a structural weight reduction of 40% compared to the type of composite materials that would have been previously used in a vessel of this type. With the increased strength and reduced weight, the vessel has a top speed of 44 knots and an operational speed of 36-38 knots.

The "Rygerdoktoren" was the first in a series of commercial vessels produced by Brødrene Aa, followed by the "Rygerkatt", designed as a harbor passenger ferry and built pursuant to the same material and process concept, but as a catamaran instead of a monohull.

Core material:

Loa:	19.0 m
Width:	4.9 m
Draft:	0.8 m
Weight:	49 tons
Propulsion:	Waterjets
Face material:	Carbonfibre / Vinylester
Manufacturing process:	DIAB Core Infusion
Manufacturer:	Brødrene Aa

Divinycell® HD and H-grade

