



Case Study

PERFORMANCE FABRICS DRIVING
PRODUCTIVITY IN MARINE



Application Overview

Laying up glass fiber fabrics to build the hull of a boat can be time-consuming, resulting in high labor costs and low throughput. Additionally, the more layers that are added, the more important consistency is in building a quality product.

Although these steps are needed to build a hull that stands the test of time, Original Composites & Fiberglass Performance Fabrics innovative solutions can drive increased productivity in this process. Recently, Original Composites & Fiberglass partnered with a customer to solve just this. How do we reduce the labor hours it takes to produce a boat hull while improving consistency and quality?

Through Original Composites & Fiberglass’s unique advanced modeling team, our scientists were able to model how different combinations of fabrics in differing numbers of layers can combine to form the optimal solution – both in saving labor hours and maintaining mechanical performance.

In this application our approach to productivity allowed the customer to use 4 not 6 layers of reinforcement in construction while maintaining performance. This eliminates 2 layup steps in the process.

The result was a 25% reduction in the number of labor hours required to build the hull. Additionally, reducing the number of layers by a third while introducing a new optimized fabric combination enabled faster impregnation.

Original Composites & Fiberglass’s Performance Fabrics are made with our Advantex glass fiber. This boron-free, patented glass fiber combines the electrical and mechanical properties of traditional E-glass with the corrosion resistance of E-CR glass.

Original Composites & Fiberglass’s Performance Fabrics combined with our world-class advanced modeling team bring a dynamic duo to the marketplace driving productivity for our customers.

Design modeling
saves time,
maintains
performance

Maintaining
performance with
fewer layers

25%
reduction
in labor hours

MAKE
MORE
POSSIBLE™

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