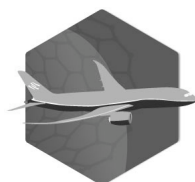


Nano-Engineered Composites

Marine Case Studies

Zyvex Technologies
October 2013



Aerospace



Automotive



Industrial



Marine



Sports

Marine Case Studies



Marine Door + Arovex®

One of the largest North American hatch and door manufacturers partnered with Zyvex to deliver a next generation door to reduce weight, making for a much safer option for all sizes of vessels.

As vessels large or small move through the water, the weight of a swinging door can become a safety hazard. To mitigate potential injuries and liabilities to crew and passengers, lighter weight doors are preferable. The marine industry typically uses aluminum to meet this need, but our partner wanted to offer a solution lighter than anything on the market for the highest safety margin.

Our Solution

Zyvex used Arovex® to provide a lightweight and extremely durable solution.

The Result

Using Arovex®, product weight was reduced weight by 60% while maintaining full compatibility with existing parts and maintaining the same level of strength as the standard aluminum product.

Marine Vessels Created with Arovex®

The world's oceans can be harsh, unforgiving, and costly. Zyvex delivered multiple long-range carbon fiber patrol craft for use in anti-piracy and security. With ranges up to 1500 nautical miles, a 300% increase over comparably-sized craft, Zyvex delivered a cost-effective solution built entirely from Arovex®, our class-leading carbon fiber prepreg.

Zyvex has also provided unmanned surface vessels to the Republic of Singapore Navy. The reduced weight of Arovex® allowed for a larger hull at 17 meters, enabling greater payload and more sophisticated onboard electrics.



Contact Zyvex

For United States quotes, orders and product information call toll free 877.Go.Zyvex (877.469.9839).

For international quotes, orders and product information call +1.614.481.2208.

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