



Croatian shipbuilder Uljanik and Diab set a new standard in commercial ship building

By building the top three out of 13 decks with Divinycell sandwich panels, shipbuilder Uljanik cuts the deck weight of car carrier Siem Cicero by 25%. Siem Cicero decks are the first extensive application of sandwich composite in the shipping industry.

Unique car carrier from leading shipbuilder Uljanik

Founded in 1856, Uljanik is a shipbuilding company and shipyard located in Pula, Croatia. It is one of the oldest shipyards in the world with 4,000 employees. After two years of R & D with the support of Diab, Uljanik has made the future reality with Siem Cicero. The ship will be used for the transportation of cars and heavy vehicles for the London-based company "Siem car carriers", serving mainly Volkswagen cars. With a length of two football fields, the ship can carry 7,000 vehicles and it incorporates new technologies that will reduce environmental impact and cut running cost.

Reducing deck weight

The ship has thirteen decks. The top three decks are built in sandwich composite using Diab's strong and lightweight Divinycell core. Each deck uses 2500 m² of *Divinycell H80* and 1000 m² of *Divinycell H100*. Compared to the traditional steel decks the weight savings for the decks will be 25% or a staggering 200 tons. Indirectly less ballast water will be required

to stabilise the ship. These weight savings will result in a reduced fuel consumption of 4%.

Composite solutions are the future for shipbuilders

These substantial weight and cost savings are made possible by replacing just three out of thirteen decks. With decks and superstructures traditionally made of heavy steel, there is a tremendous opportunity for further savings in the ships that are to follow Siem Cicero.

Through close cooperation and a careful analysis of data from this first vessel, Uljanik and Diab are looking into how core sandwich solutions can be used in other ships. The collaboration between Uljanik and Diab offers a unique opportunity to estimate and measure the savings that can be achieved with Diab sandwich composite solutions.

As a leader in sandwich composite technology, Diab is constantly developing new products for stronger, lighter and smarter solutions and will proudly follow Siem Cicero and her sister ships.

You can watch the movie of the launch of Siem Cicero on SIEM web page:

<http://www.siemcarriers.com/siem-cicero-launch-12th-november-2016/>

www.uljanik.hr

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