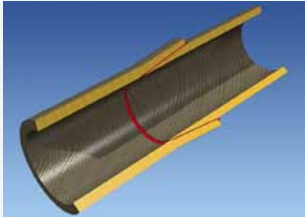




Quick-Lock™ adhesive-bonded joint



Taper/Taper adhesive-bonded joint



## Bondstrand™ Glassfiber Reinforced Epoxy (GRE) pipe systems for Maersk Line's first Triple-E Vessel

The first Triple E container vessel for Maersk Line and the largest container vessel ever built is named the M.V. Maersk Mc-Kinney Moeller, after the company founder.

This 18,000 TEU container vessel was first mooted in 2010, and designed to be with Economies of Scale, Energy Efficiency and Environmental Efficiency or the Triple E. The super-large container vessel, as it is also called, has a length of 400 meters and width of 59 meters.

Bondstrand products are available across a wide range of diameters to fit economies of scale. Their inherent light weight and superior flow characteristics provide the energy efficiency both in energy savings in operation and during travel at sea. The low carbon footprint, long service life and zero corrosion by-products support environmental efficiency through the full life of the vessel.

The vessel has less than half the carbon emissions per container moved when compared with the industry average for vessels plying the Asia/Europe trade.

In line with its objective for Triple E, Maersk chose BONDSTRAND Piping due to its light weight, low carbon footprint and little or no maintenance requirements over the lifetime of the vessel.



### Project

Triple E Vessel Maersk Mc-Kinney Møller

### Shipyard

Daewoo Shipbuilding & Marine Engineering (DSME) shipyard - Okpo, South Korea

### Client

Maersk Line

### Pipe system

Over 900 meters of Bondstrand 2000M in diameters 1.5 to 20 inch (30 to 500 mm) are used in various piping systems including:

- Water Ballast System
- Sea Water Cooling System in the Engine Room
- Fresh Water Cooling in the Engine Room
- Water Ballast System in the Engine Room

### Operating conditions

Operated Temperature: 93 °C

Operated Pressure: 16 bar

### Installation date

2012