

Cargoshell Reefer awarded ATP certificate

Following a long research phase the Cargoshell Reefer prototype was successfully completed in February 2016 with the CSC certificate issued by the DNV-GL (Det Norske Veritas- Germanischer Lloyd) and obtained the ATP certificate issued by the Food & Biobased Research of the Wageningen University in The Netherlands in March of this year.

Contribution to the TCO

Cargoshell obtained the ATP certificate and established the best values in the industry through a combination of composite materials with integrated vacuum insulation which is patent pending. The monolithically structure of the insulation overcomes a well-known and costly problem in the industry, called delaminating of insulation. The solution of this costly problem is an important contribution in lowering the Total Cost of Ownership (TCO).



Promising results

At the Food & Biobased Research Centre of the Wageningen University the K-value of the Cargoshell Reefer was measured at 0,367 W/m²K. Chief engineer dr. ir. Albert ten Busschen explains: "This is a remarkable outcome; the thickness of the side walls is only 6,2 cm. Take in to account that it is a prototype. Handmade in a small factory. After examining the thermo graphic pictures, I'm convinced that a K-value of ≤ 0,34 is certainly achievable within the current design".

The same accounts for the weight of the Cargoshell: "A hand-made prototype is by definition heavier than an industrial manufactured container. A final reduction in weight of 15% should be very well possible in an industrial process" says Ten Busschen.

To lower the losses of energy and minimize the emissions of CO₂, the K-value and corresponding U-value of the Reefer are important items in reducing the carbon foot print.

Please follow the Cargoshell's progress at www.cargoshell.com