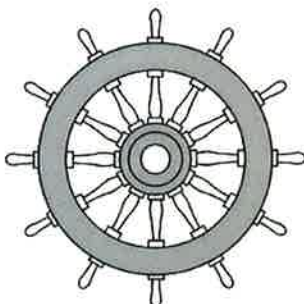


# EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that VTT Expert Services Ltd did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission implementing regulation (EU) 2017/306 subject to any conditions in the schedule attached hereto.

## **A-60 Aluminium bulkhead, Paroc Marine Fire Slab 100, 30+30 / 30+30 mm**

meet the requirements imposed in IMO 2010 FTP Code (ref. Ch. 5.2.1 and Ch. 8), Annex 1 Part 3 (IMO Resolution MSC.307(88) Annex 1 Part 3) on

### **Class A-60 Bulkhead**

and the provisions of Marine Equipment Directive 2014/90/EU, that apply to

### **fire integrity of A-60 Class division.**

These products have been assigned a U.S. Coast Guard Module B number (**164.107 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004.

Manufacturer of the product is

### **Paroc Group Oy**

The Certificate is valid until November 16, 2022 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo November 17, 2017

This document is electronically approved



Tiina Ala-Outinen  
Business Manager



Heli Välimäki  
Senior Expert

Manufacturer	Paroc Group Oy P.O.Box 240, Energiakuja 3 FI-00181 Helsinki Finland.
Regulation Item	Item MED 1/3.11a, "A" and "B" Class divisions, fire integrity.
Product	Class A-60 Aluminium bulkhead insulated with Paroc Marine Fire Slab 100, 30+30 / 30+30 mm.
Product description	<p>"A" Class aluminium bulkhead insulated from both sides with Paroc Marine Fire Slab 100 slabs, having a nominal density of 100 kg/m<sup>3</sup>. The insulation is applied in two 30 mm thick layers, so that the total minimum thickness is 30+30 mm, on both sides of the bulkhead. Minimum overlapping of the slabs is 50 mm.</p> <p>There is also mounted same insulation in two layers over and around the stiffeners.</p> <p>The insulation is fastened by using steel pins and steel washers or with bent pins without washers. The maximum distance to the nearest pin is 300 mm.</p>
Technical document	Drawing no 02032 of the manufacturer, dated 29 November 2002.
Test reports	Test Report N.2002CSTO793/1 of Rina, Italy, 20 December 2002. Test Report VTT-S-4158-13, 31 May 2013, VTT Expert Services Ltd, Finland.
Test methods and standards	IMO FTPC Part 3 (IMO Resolution MSC. 61(67) Annex 1 Part 3). IMO 2010 FTP Code Part 1 (IMO Resolution MSC. 307(88) Annex 1 Part 1).
Notes	<p>This certificate replaces the previous EC Type-Examination Certificates (B-module) VTT-C-10666-15-14.</p> <p>This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.</p> <p>Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.</p> <p>The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Annex B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.</p>

END OF CERTIFICATE

