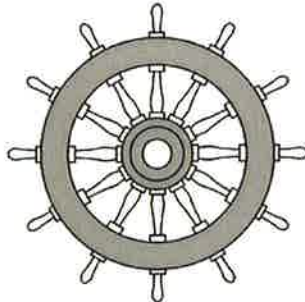


EC TYPE-EXAMINATION CERTIFICATE

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 Navis Mat 90 or PAROC Marine Navis Wired Mat 90, 70 mm / 70 mm**

meet the requirements imposed in IMO 2010 FTP Code 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The Certificate is valid until February 8, 2023 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo April 5, 2018

This document is electronically approved



Tiina Ala-Outinen
Business Manager



Heli Välimäki
Senior Expert

Manufacturer	Paroc Group Oy Energiakuja 3 P.O.Box 240 FI-00181 Helsinki Finland.
Regulation Item	Item MED 1/3.11a, A-Class division, fire integrity.
Products	Class A-60 Aluminium Bulkhead insulated with PAROC Marine Navis Mat 90 or PAROC Marine Navis Wired Mat 90, 70 / 70 mm.
Product description	<p>“A” Class aluminium bulkhead insulated from the both sides with PAROC Marine Navis Mat 90 or PAROC Marine Navis Wired Mat 90, having a nominal density of 90 kg/m³.</p> <p>The insulation is applied in minimum 70 mm thick layers on both sides of the bulkhead. 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>
Approved application	Minimum thickness of the aluminium bulkhead plate shall be 4,0 mm. PAROC Marine Navis Mat 90 coated with Alucoat is also approved insulation.
Technical document	Drawing no. 17020 (19.12.2017) of manufacturer.
Test reports	Test report PGA11157A (December 22, 2017), DBI, Denmark. Test report PFB10273B (September 4, 2017), DBI, Denmark. Test report PFB10273C (September 5, 2017), DBI, Denmark.
Test methods and standards	IMO 2010 FTP Code Annex 1 Part 3 (IMO Resolution MSC.307(88) Annex 1 Part 3).
Notes	<p>This certificate replaces the previous EC Type-Examination Certificates (B-module) VTT-C-12269-15-18.</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

