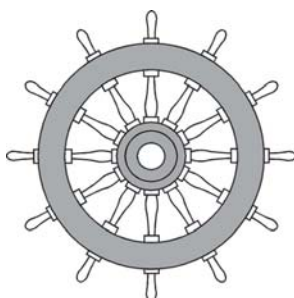


EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that Eurofins 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) 2020/1170 subject to any conditions in the schedule attached hereto.

A-60 Aluminium Bulkhead PAROC Marine Fire Slab 100, 40+40 mm / 40+40 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 and amended by Decision No.1/2018 signed February 18th 2019.

Manufacturer of the product is

Paroc Polska Sp. z o.o

The Certificate is valid until December 22, 2025 unless suspended, expired or withdrawn, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo December 22, 2020

This document is electronically approved

Tiina Ala-Outinen
Manager, Building Structures

Heli Välimäki
Senior Expert

Manufacturer site	Paroc Polska Sp. z o.o. Gnieznienska 4, 62-240 Trzemeszno, Poland.
Regulation Item	Item MED /3.11a, "A" Class divisions, fire integrity.
Products	Class A-60 Aluminium Bulkhead insulated with PAROC Marine Fire Slab 100, 40+40 / 40+40 mm.
Product description	"A" Class aluminium bulkhead insulated from the both sides with PAROC Marine Fire Slab 100 slabs, having a nominal density of 100 kg/m ³ . The insulation is applied in two 40 mm thick layers, so that the minimum thickness is 40+40 mm, on both sides of the bulkhead. There is also mounted same insulation in two layers over and around the stiffeners. 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. Min. overlapping of the Fire Slabs is 50 mm.
Approved application	<p>Non-combustible materials combined or installed for the making and setting up of this "A" Class division, shall be MED Approved under the item MED/3.13 provisions.</p> <p>Each product is to be supplied with its manual for installation, use and maintenance.</p>
Technical document	Drawing no. 15004 (18.6.2015) of manufacturer.
Test reports	<p>Test report No. 2015CS012934/1 (October 7, 2015) of RINA, Italy.</p> <p>Test report No. EUFI29-20005633-T1 (December 15, 2020), Eurofins Expert Services Oy.</p>
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-11495-15-15.</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