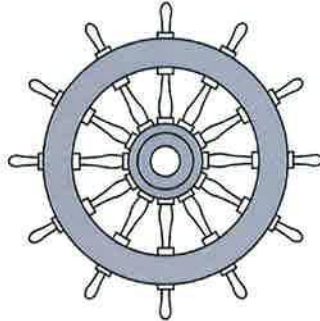


EC TYPE-EXAMINATION CERTIFICATE

according to Marine Equipment Directive (Module B)



NOTIFIED BODY 0809

This is to certify that the examined products with type designations

A-30 Steel Bulkhead PAROC Marine Fire Slab 100, 40/25 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-30 Bulkhead

and the provisions of Marine Equipment Directive 96/98/EC, as amended, last amendment 2014/93/EU, that apply to

fire integrity of A-30 Class division.

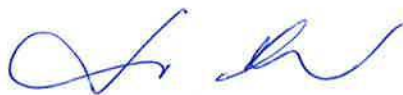
These products have been assigned a U.S. Coast Guard Module B number (**164.107 / EC0809**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of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

Manufacturer of the product is

Paroc Group Oy

The Certificate is valid until November 9, 2020 unless cancelled or revoked, provided the conditions in this certificate are complied with and the equipment remains satisfactory in service.

Espoo November 10, 2015



Tiina Ala-Outinen
Business Manager



Ritva Paalanen
Lead Assessor

Manufacturer	Paroc Group Oy Energiskuja 3 P.O.Box 240 FI-00181 Helsinki Finland.
Equipment	Annex A.1 Item No A.1/3.11, "A" and "B" Class divisions, fire integrity.
Products	Class A-30 Steel Bulkhead insulated with PAROC Marine Fire Slab 100, 40/25 mm.
Product description	"A" Class steel bulkhead insulated with stone wool slabs having a nominal density of 100 kg/m ³ . The insulation is applied in one layer. Between the stiffeners the minimum thickness of the insulation layer is 40 mm. Upon the stiffeners, the thickness of the insulation layer is 25 mm. The insulation is fastened by using steel pins with a size of 3 x 35...50 mm and steel washers with a diameter of 38 mm or with bent pins without washers. The maximum distance of pins is 300 mm.
Technical document	Drawing no 355918 (12.10.2000) of manufacturer.
Test reports	Test report No. 2000CSTO1556/5 (9 March 2001) of RINA, Italy. Test Report VTT-S-784-15, February 27, 2015, VTT Expert Services Ltd Finland.
Test methods	IMO FTPC Part 9 (IMO Resolution MSC. 61(67) Annex 1 Part 3 (test procedure IMO Res.A.754(18) (4 November 1993), Recommendation on fire resistance tests for "A", "B" and "F" class divisions)) IMO 2010 FTPC Part 1 (IMO Resolution MSC. 307(88) Annex 1 Part 1).
Notes	This certificate replaces the previous EC Type-Examination Certificates (B-module) VTT-C-6738-15-11. 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. 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. 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.

END OF CERTIFICATE

