



Marine & Offshore

Certificate number: 75358/A0 BV

File number: ACI 1000/129/123

Product code: 5213H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

PAROC GROUP OY
HELSINKI - FINLAND

for the type of product

"H" CLASS DIVISION, BULKHEAD, FIRE INTEGRITY

H-60 Steel Bulkhead insulated with "Paroc Marine Fire Slab 100", 50+50 mm

**** Restricted application - see §4.1****

Requirements:

Bureau Veritas Rules for the Classification of Offshore Units Pt C, Ch 4

IMO Resolution MSC.307(88) - (2010 FTP Code) with hydrocarbon fire temperature curve

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 28 Sep 2028

For Bureau Veritas Marine & Offshore,

At BV TURKU (ABO), on 28 Sep 2023,

Miika KOKKO

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

H-60 Steel Bulkhead insulated with "Paroc Marine Fire Slab 100", 50+50 mm

Composed of structural steel bulkhead insulated with two layers of mineral wool panels (PAROC Marine Fire Slab 100, 50 mm, density 100 kg/m³).

The mineral wool panels are fitted on the bulkhead plating, on top and on sides of the stiffeners and inside the stiffener's cavities.

The second insulation layer shall cover the joints of the first layer.

The insulation is fastened with welded Ø3 mm steel pins and Ø38 mm washers.

Maximum distance between fastening pins: 300 mm

Steel wire net is fitted on the outer layer of mineral wool panel.

2. DOCUMENTS AND DRAWINGS :

As per Manufacturer's drawing No. 09059, dated 16 May 2009.

3. TEST REPORTS :

Test report N°2009CS013790, dated 22 September 2009, as per IMO FTP Code Annex 1 Part 3 [test standard : IMO Resolution A.754(18) with hydrocarbon fire temperature curve], from RINA, Italy.

4. APPLICATION / LIMITATION :

4.1 - **Restricted application**: the use is restricted to application where fire hazard has been identified as being from the insulated side.

4.2 - The fitting aboard should be the same as used for the test.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The **H-60 Steel Bulkhead insulated with "Paroc Marine Fire Slab 100", 50+50 mm** are to be supplied by **PAROC Group Oy** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **PAROC Group Oy** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - The following component(s) shall have to be covered by a valid type approval certificate, issued by the Society:

- the insulating material "**PAROC Marine Fire Slab 100**",
- any added finish surface material(s).

6. MARKING OF PRODUCT :

The product or packing is to be marked with Manufacturer name, type, designation and fire-technical rating.

7. OTHERS :

It is **PAROC Group Oy**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***