



MARINE DIVISION

Certificate number: 11570/C0 BV

File number: ACI 1000/129/056

Product code: 5000H

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

A60 CLASS BULKHEADS

A-60 Class Bulkhead "PAROC Marine Fire Slab 100, 60/25 mm"

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships Part C, Chapter 4

SOLAS 74 Convention as amended, Regulations II-2/9, II-2/3.2

IMO Resolution MSC.61(67)-(FTP Code) - IMO MSC.307(88) (2010 FTP Code) article 8

IMO MSC/Circ.1120

This certificate is issued to attest that BUREAU VERITAS 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: 26 Feb 2019

For BUREAU VERITAS,

At BV HELSINKI, on 26 Feb 2014,

Tommy Andersson



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. 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 Division 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 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.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

A-60 Class Bulkhead "PAROC Marine Fire Slab 100, 60/25 mm"

A-60 class steel bulkhead insulated with stone wool panels "PAROC Marine Fire Slab 100" manufactured by Paroc Group Oy, Finland having the nominal density of 100 kg/m³. The insulation is applied in one layer. Between the stiffeners the thickness of the insulation layer is 60 mm. Upon the stiffeners the thickness of the insulation is 25 mm. The insulation is fastened with steel pins and washers.

Maximum distance between fastening pins:
300 mm in height.
207 mm in width.
100 mm at the horizontal junction of blankets.
93 mm on each side of stiffeners.

2. DOCUMENTS AND DRAWINGS:

As per the Manufacturer's drawing n°355926.

3. TEST REPORTS:

Test report n°2000CSTO1556/7 dated March 12, 2001 as per IMO FTP Code Annex 1 Part 3 [testing standard: IMO Resolution A.754(18)] issued by the Fire Protection Research Laboratory of RINA, Italy.

4. APPLICATION / LIMITATION:

- 4.1 - Approval also valid for ships having to comply with the HSC Code, for a structural fire protection time of 60 minutes: "Load bearing steel fire-resisting bulkhead 60".
- 4.2 - The insulating material "PAROC Marine Fire Slab 100", as well as any added surface finish material(s) shall have to comply with the requirements of BV Rules and be type approved .
- 4.3 - The fitting aboard to be the same as used for the test.

5. PRODUCTION SURVEY REQUIREMENTS:

- 5.1 - The A-60 Class Bulkhead "PAROC Marine Fire Slab 100, 60/25 mm" is to be supplied by PAROC GROUP Oy, HELSINKI - FINLAND in accordance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.
- 5.3 - PAROC GROUP Oy, HELSINKI - FINLAND has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

PAROC GROUP OY
P.O. Box 47
FI-00621 HELSINKI
FINLAND

6. MARKING OF PRODUCT:

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

7. OTHERS:

- 7.1 - This approval is given with the understanding that the Manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.
- 7.2 - This Certificate supersedes the Type Approval Certificate n° 11570/B0 BV issued on 26/04/2007 by the Society.

***** END OF CERTIFICATE *****