



Marine & Offshore

Certificate number: 54064/A0 BV

File number: AC11000/129/112

Product code: 5001H

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 ALUMINIUM BULKHEADS

A-60 Aluminium Bulkhead PAROC Marine Navis Mat 90 or PAROC Maine Navis Wired Mat 90, 70 mm

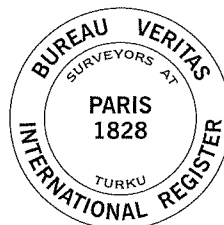
Requirements:

- 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.307(88) - (2010 FTP Code)
- IMO MSC/Circ.1120
- IMO MSC.1/Circ.1434
- IMO MSC.1/Circ.1435

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: 05 Mar 2024

For Bureau Veritas Marine & Offshore,
At BV TURKU (ABO), on 05 Mar 2019,
Roger Robertsson



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.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

A-60 Class Aluminium Bulkhead insulated with "PAROC Marine Navis Mat 90" or "PAROC Marine Navis Wired Mat 90", 70 mm"

Aluminium bulkhead, minimum **4 mm thick**, insulated with mineral wool type "PAROC Marine Navis Mat 90 or Wired Mat 90" (nominal density of 90 kg/m³).

The insulation is applied in one layer of 70 mm on both sides. The cavity inside the stiffeners is not filled with insulation.

The insulation is fastened with aluminium tipped steel pins.

Maximum distance between fastening pins : 300 mm (see §2 Drawing for fastening details).

2. DOCUMENTS AND DRAWINGS :

As per the Manufacturer's drawing n°17020 dated 19/05/2018.

3. TEST REPORTS :

Test report n° PGA11157A version 1 dated 22/12/2017 as per IMO 2010 FTP Code Annex 1 Part 3, from DBI Laboratory, Denmark.

4. APPLICATION / LIMITATION :

4.1 - The following component(s) shall comply with the requirements of the relevant Bureau Veritas rules and be type approved:

- the insulation "**PAROC Marine Navis Mat 90" or "PAROC Marine Navis Wired Mat 90"**,
- any added finish surface material(s).

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

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The product "**A-60 Aluminium Bulkhead "PAROC Marine Navis Mat 90", 70 mm or "PAROC Marine Navis Wired Mat 90", 70mm"** 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.

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 ***