



MARINE DIVISION

Certificate number: 19365/B0 BV

File number: ACI 1000/129/70 to 72, 86,
87

Product code: 5210H

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

NON-COMBUSTIBLE MATERIALS

PAROC Marine Fire Slab 100 - 110 - 120 - 140 - 150

Requirements:

BV Rules Part C, Chapter 4.

SOLAS 74 convention as amended, Regulations II-2/3, II-2/5, X/3.

IMO Resolution MSC.36(63) - (1994 HSC Code) 7 and IMO Resolution MSC.97(73) - (2000 HSC Code) 7.

IMO Resolution MSC.61(67) - (FTP Code) Annex 1 Part 1.

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: 27 Feb 2017

For BUREAU VERITAS,

At BV HELSINKI, on 27 Feb 2012,

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:

| Designation | Description | Nominal density (kg/m ³) |
|-----------------------------------|----------------------|--------------------------------------|
| PAROC Marine Fire Slab 100 | Stone wool fire slab | 100 |
| PAROC Marine Fire Slab 110 | Stone wool fire slab | 110 |
| PAROC Marine Fire Slab 120 | Stone wool fire slab | 120 |
| PAROC Marine Fire Slab 140 | Stone wool fire slab | 140 |
| PAROC Marine Fire Slab 150 | Stone wool fire slab | 150 |

2. DOCUMENTS AND DRAWINGS:

None.

3. TEST REPORTS:

| Designation | Test reports from VTT, Finland | Date of issue |
|-----------------------------------|--------------------------------|---------------|
| PAROC Marine Fire Slab 100 | N° VTT – S-10302-10 | 21 Dec 2010 |
| PAROC Marine Fire Slab 110 | N° VTT – S-9424-09 | 14 Dec 2009 |
| PAROC Marine Fire Slab 120 | N° VTT – S-9422-09 | 14 Dec 2009 |
| PAROC Marine Fire Slab 140 | N° VTT – S-10527-10 | 28 Dec 2010 |
| PAROC Marine Fire Slab 150 | N° VTT – S-9423-09 | 14 Dec 2009 |

All test reports are as per IMO FTPC Part 1.

4. APPLICATION / LIMITATION:

Flame spread, smoke characteristics and calorific value of the lining to be as per applicable regulation.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1- The "PAROC Marine Fire Slab 100", "PAROC Marine Fire Slab 110", "PAROC Marine Fire Slab 120", "PAROC Marine Fire Slab 140" and "PAROC Marine Fire Slab 150" are to be manufactured, examined and tested by **PAROC GROUP OY** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2- Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **PAROC GROUP OY** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

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 on the understanding that the Society reserves the right to require check tests to be carried out on the materials at any time and that the applicant will accept full responsibility for informing shipbuilders, shipowners and their sub-contractors of the proper methods of fitting, use and general maintenance of the material (units, approved equipment) and the conditions of this approval.

7.2- This certificate supersedes the Type Approval Certificate N° 19365/A1 BV issued on 06/07/2011 by the Society.

*** END OF CERTIFICATE ***