



MARINE DIVISION

Certificate number: 24483/A0 BV

File number: ACI 1000/129/68

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**

PAROC Marine Wired Mat 100, 80/30 mm

**Requirements:**

BV Rules Pt C, Ch4, SOLAS 74 convention as amended, Regulations II-2/9, II-2/3.2, IMO Resolution MSC.61(67) - (FTP Code), 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: 08 Aug 2016**

For **BUREAU VERITAS**,

At BV HELSINKI, on 08 Aug 2011,

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 Wired Mat 100, 80/30 mm"**

A-60 class steel bulkhead insulated with rockwool mats "PAROC Marine Wired Mat 100" having the nominal density of 100 kg/m<sup>3</sup>. The insulation is applied in one layer. Between the stiffeners the thickness of the insulation layer is 80 mm. Upon the stiffeners the thickness of the insulation is 30 mm. The insulation is fastened with steel pins and washers.

Maximum distance between fastening pins:

300 x 177.5 mm.

122.5 mm on each side of stiffeners.

On the stiffeners the pins are welded with a pitch of 300 mm.

### **2. DOCUMENTS AND DRAWINGS :**

As per the Manufacturer's drawings n°356060.

### **3. TEST REPORTS :**

3.1 -Test report n°2001CSTO350/1A dated 4 March, 2002 as per IMO FTP Code Annex 1 Part 3 [testing standard: IMO Resolution A.754 (18)] issued by Fire Protection Research Laboratory RINA, Italy.

3.2 - Rockwool "PAROC Marine Wired Mat 100" (nominal density 100 kg/m<sup>3</sup>) manufactured by Paroc Group Oy Ab, Finland. Test report VTT-S-9013-10 dated 15 November 2010 as per IMO FTP Code Part 1 [testing standard: ISO1182:2002] issued by VTT Building Technology, Finland.

### **4. APPLICATION / LIMITATION :**

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

4.2 - 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 Wired Mat 100, 80/30 mm"** 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.

5.3 - **Paroc Group OY** has declared to Bureau Veritas that the type of product described in this certificate may be manufactured at the following production site:

**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 :**

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.

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