



Marine & Offshore  
Division

Certificate number: 19953/B0 BV

File number: ACI 1000/353/020

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*

**Rockwool International A/S**

Hedehusene - DENMARK

*for the type of product*

**A60 CLASS BULKHEADS**

A-60 CLASS BULKHEAD

### Requirements:

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

SOLAS 74 Convention, as amended, Regulation II-2

IMO Resolution MSC.61(67) -FTP Code- with IMO Resolution MSC.307(88) -FTP Code 2010- 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: 06 Jan 2021**

**For BUREAU VERITAS,**

At BV FREDERICIA, on 06 Jan 2016,

Jesper Jensen



This certificate is recognized by Transport Canada

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 & Offshore 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

Structural steel bulkhead insulated with either :

Construction	Product Description	Application / Limitations	Type Approval Documentation
<b>Solution 1</b> A-60 Bulkhead, Steel  SeaRox SL 620 60 mm / 25 mm	A-60 Bulkhead, SeaRox SL 620.  Composed of steel bulkhead insulated with minimum 60 mm mineral wool of type "SeaRox SL 620" of density 100 kg/m <sup>3</sup> between stiffeners, and minimum 25 mm mineral wool of type "SeaRox SL 620 " around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 / 400 mm, according to drawing.	Fire against either side.	Test report 2004CS01428/3 , 4 March 2004 , RINA
<b>Solution 3</b> A-60 Bulkhead, Steel  SeaRox SL 640 & SeaRox WM 640 65 mm / 30 mm	A-60 Bulkhead, SeaRox SL 640& SeaRox WM 640  Composed of steel bulkhead insulated with minimum 65 mm mineral wool of type "SeaRox SL 640" of density 130 kg/m <sup>3</sup> between stiffeners, and minimum 30 mm mineral wool of type "SeaRox WM 640 " of density 105 kg/m <sup>3</sup> around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 mm, according to drawing.	Fire against either side.	Test report PG 10842 / 8061 , 15 June 2001 , DIFT
<b>Solution 4</b> A-60 Bulkhead, Steel  SeaRox WM 620 2x45 mm / 45 mm	A-60 Bulkhead, SeaRox WM 620.  Composed of steel bulkhead insulated with minimum 2 layers of 45 mm mineral wool of type "SeaRox WM 620" of density 90 kg/m <sup>3</sup> between stiffeners, and minimum 45 mm mineral wool of type "SeaRox WM 620" around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers ) at intervals of approx 300 mm, according to drawing.	Fire against either side.	Test report 2006CS013889-1 2007-02-07, RINA

Construction	Product Description	Application / Limitations	Type Approval Documentation
<b>Solution 5</b> A-60 Bulkhead, Steel SeaRox WM 640 75 mm / 30 mm	A-60 Bulkhead, SeaRox WM 640. Composed of steel bulkhead insulated with 75 mm mineral wool of type "SeaRox WM 640" of density 105 kg/m <sup>3</sup> between stiffeners, and minimum 30 mm mineral wool of type "SeaRox WM 640" around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 mm, according to drawing.	Fire against either side.	Test report 2006CS013889-2 2007-02-07, RINA
<b>Solution 7</b> A-60 Bulkhead, Steel Restricted SeaRox SL 620 40 mm / 40 mm	A-60 Bulkhead Restricted , SeaRox SL 620. Composed of steel bulkhead insulated with minimum 40 mm mineral wool of type "SeaRox SL 620" of density 100 kg/m <sup>3</sup> between stiffeners, and minimum 40 mm mineral wool of type "SeaRox SL 620" around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300 / 400 mm, according to drawing.	Restricted use : Only fire at the insulated side.	Test report 2004CS014787 , 13 December 2004 RINA

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

As per Manufacturer's drawings attached in tests reports mentioned in § 1.

## **3. TEST REPORTS :**

As per tests reports mentioned in § 1 (tests carried out as per IMO FTP Code Annex 1 Part 3 [test standard : IMO Resolution A.754(18)]).

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

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

4.2- The following component(s) shall have to comply with the requirements of BV Rules and be type approved :

- the insulating material "SeaRox SL 620", "SeaRox SL 640", "SeaRox WM 640" and "SeaRox WM 620",
- any added finish surface material(s).

## **5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The products are to be supplied by **Rockwool International A/S** 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.

5.3 - "**Rockwool International A/S**" 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 :**

7.1- This approval is given with the understanding that the manufacturer will accept full responsibility for informing shipbuilders, shipowners 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° 19553/A1 BV issued on 08.06.2010 by the Society.

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