



Marine & Offshore  
Division

Certificate number: 42946/A0 BV

File number: AC11000/353/036

Product code: 5080H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

www.veristar.com

## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**Rockwool International A/S**

Hedehusene - DENMARK

*for the type of product*

**A60 CLASS DECKS**

A-60 Class steel deck insulated with SeaRox FB 6020 / SeaRox FB 6050

### Requirements:

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

SOLAS 74 Convention, as amended, Regulation II-2

IMO Resolution MSC.307(88) - FTP Code 2010

IMO MSC/Circ.1120

IMO MSC/Circ.1434

*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: 29 Oct 2020**

**For BUREAU VERITAS,**

At BV FREDERICIA, on 29 Oct 2015,

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 steel deck insulated with SeaRox FB 6020 / SeaRox FB 6050**

Composed of steel bulkhead insulated :

- between stiffeners with SeaRoxFB 6020 (density range - 40 - 100 kg/m<sup>3</sup>), thickness - 70 mm
- around and upon stiffeners with SeaRox FB 6050 (density range - 70 - 100 kg/m<sup>3</sup>), thickness - 30 mm

The insulation is fixed to the bulkhead by means of standard 3 mm pins in combination with 30-38 mm diameter steel clips (spring washers).

Max distance between pins on the stiffeners - 300 mm,  
Max distance between pins on the plate (between stiffeners) - 300 mm,  
Max distance from the joints to the pins – 150 mm.

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

As per the Manufacturer's drawing R-012 dated 09/04/2015 mentioned in test report in §3.

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

3.1 - Test report PGA10659 dated 06/05/2015 as per IMO 2010 FTP Code Annex 1, Part 3 from DBI, Denmark.

3.2 - Assessment reports:

- PHA10629a - insulation density,
  - PHA10629b , PHA10629c, PHA10629d - mounting methods,
  - PHA10629e - pin pattern
- dated 08/07/2015 from DBI, Denmark.

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

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

4.2 - The insulating material as well as any added surface finish material(s) shall have to comply with the requirements of BV Rules and be type approved.

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

The products are to be manufactured, examined and tested by **Rockwool International A/S** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end Rockwool International A/S 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 :**

This approval is given with the understanding that **Rockwool International A/S** 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 \*\*\*