



Marine & Offshore

Certificate number: 42934/B0 BV

File number: AC11000/353/035

Product code: 5000H

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 BULKHEADS

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

****Restricted application (see §4.1)****

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/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 is a renewal of certificate N° 42934/A0 BV expiring on 29/10/2020

This certificate will expire on: 29 Oct 2025

For Bureau Veritas Marine & Offshore,
At BV FREDERICIA, on 17 Sep 2020,
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 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 electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=ufv5xausjp>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

A-60 Class Steel Bulkhead insulated with SeaRox FB 6020 / SeaRox FB 6050

Composed of a structural steel bulkhead insulated :

- between stiffeners with minimum of 70 mm of SeaRoxFB 6020 (density 40 kg/m³). Possibility of use of SeaRoxFB6000 Series, density range 40 -70 kg/m³

- around and upon stiffeners with minimum of 30 mm SeaRox FB 6050 (density 70 kg/m³).

The insulation is fastened 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.

Tested with fire against insulation side.

2. DOCUMENTS AND DRAWINGS :

As per the Manufacturer's drawing R-011 dated 09/04/2015.

3. TEST REPORTS :

3.1 - Test report PGA10657 dated 30/04/2015 as per IMO 2010 FTP Code Annex 1, Part 8 [test standard : IMO Resolution A.754(18)], from DBI, Denmark.

3.2 - Assessment reports:

- PHA10627a - insulation density,

- PHA10627b, PHA10627c, PHA10627d - mounting methods,

- PHA10627e - pin pattern

dated 07/07/2015 from DBI, Denmark.

4. APPLICATION / LIMITATION :

4.1 - Restricted application: The use is restricted to application where fire hazard has been identified as being from the side of the insulation only.

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

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

- the insulating material(s) "SeaRox FB 6020", "SeaRox FB 6050" or any from "SeaRox FB Series"

- any added finish surface material(s).

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The A-60 Class Steel Bulkhead is 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 and as such does not require a BV product certificate.

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 :

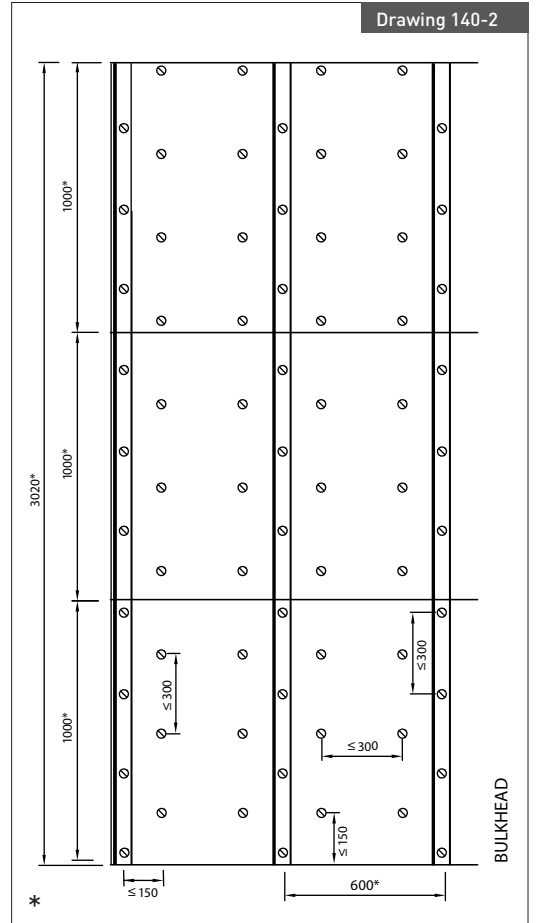
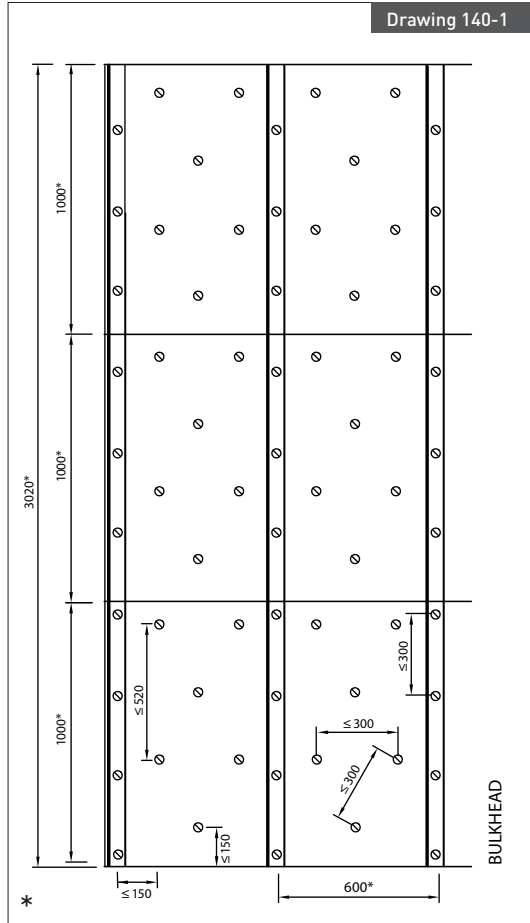
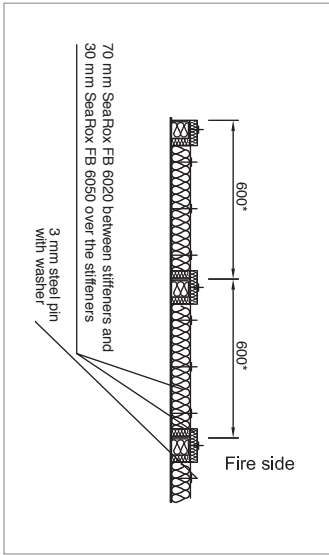
The product or packing is to be marked with manufacturer name, type, designation and fire-technical rating.

7. OTHERS :

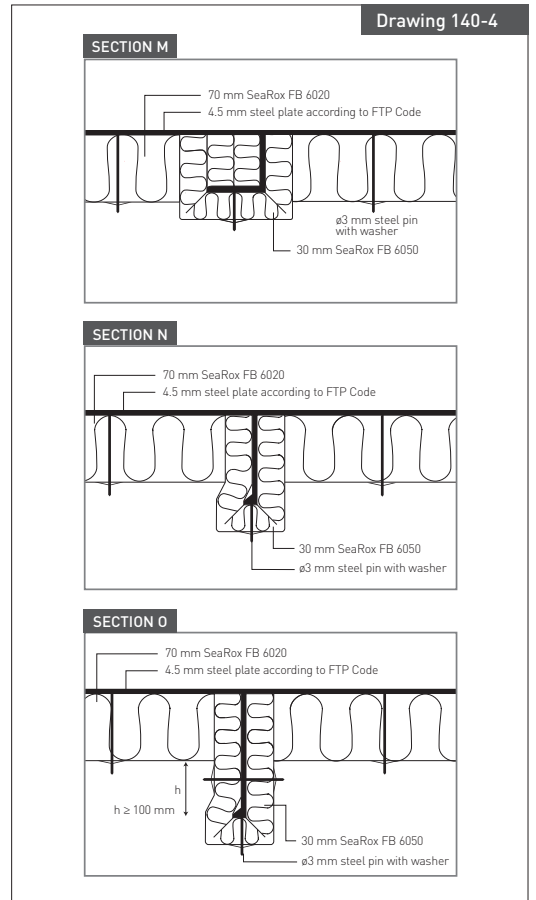
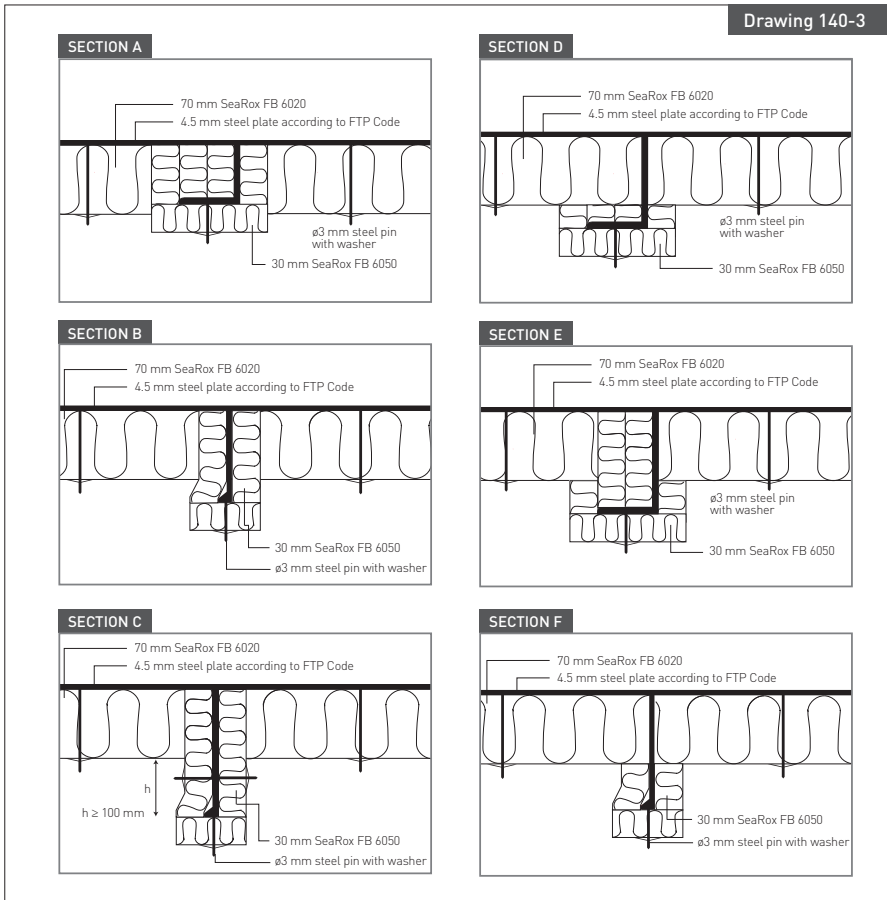
7.1 - It is **Rockwool International A/S's** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This Certificate supersedes the Type Approval Certificate N°42934/A0 BV issued on 29/10/2015 by the Society.

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



* Dimensions may vary depending on structural design and size of insulation slab.



All measurements in mm

Date: 2016/12/13

Subject: A-60 Bulkhead Restricted SeaRox FB 6020/
SeaRox FB 6050

Assessment Report Nos.: PHA10627a PHA10627b PHA10627c PHA10627d PHA10627e

ROCKWOOL[®]
TECHNICAL INSULATION