

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the "A" Class divisions, fire integrity

with type designation(s)
Steel Deck A15 with SeaRox FB 6020

Issued to
Rockwool International A/S
HEDEHUSENE, Denmark

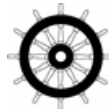
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/3.2.5 and IMO 2010 FTP Code.

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-06-09**.

Issued at **Høvik** on **2016-06-10**

DNV GL local station:
Copenhagen



for **DNV GL AS**

Approval Engineer:
Fryderyk Hoga

Notified Body
No.: **0575**

Vidar Dolonen
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Job Id: **344.1-005655-1**
Certificate No: **MEDB0000196**

Product description

"Steel Deck A15 with SeaRox FB 6020"

Composed of a steel deck insulated underside of the deck with one layer of 70 mm thick "SeaRox FB 6020" with density 40-100 kg/m³ between and inside the stiffeners. The insulation is fixed by means of steel pins Ø3 mm and washers Ø30-38 mm.

Pins are to be installed on deck plate with triangular/rectangular pattern and max. spacing of 300 mm between pins, max. 150 mm from the joints.

For further details, see test report and drawing listed under Type Examination documentation below.

Application/Limitation

Approved for use as a horizontal fire retarding division of class A-15.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

Each product is to be supplied with its manual for installation and maintenance.

Type Examination documentation

Test report No. PGA10730 dated 18 October 2015 from "DBI" Danish Institute of Fire and Security Technology, Denmark.

Drawing No. R-016 dated 25 August 2015 from manufacturer.

Assessment reports Nos.: PHA10767A, PHA10767B and PHA10767C dated 7 January 2016 from DBI.

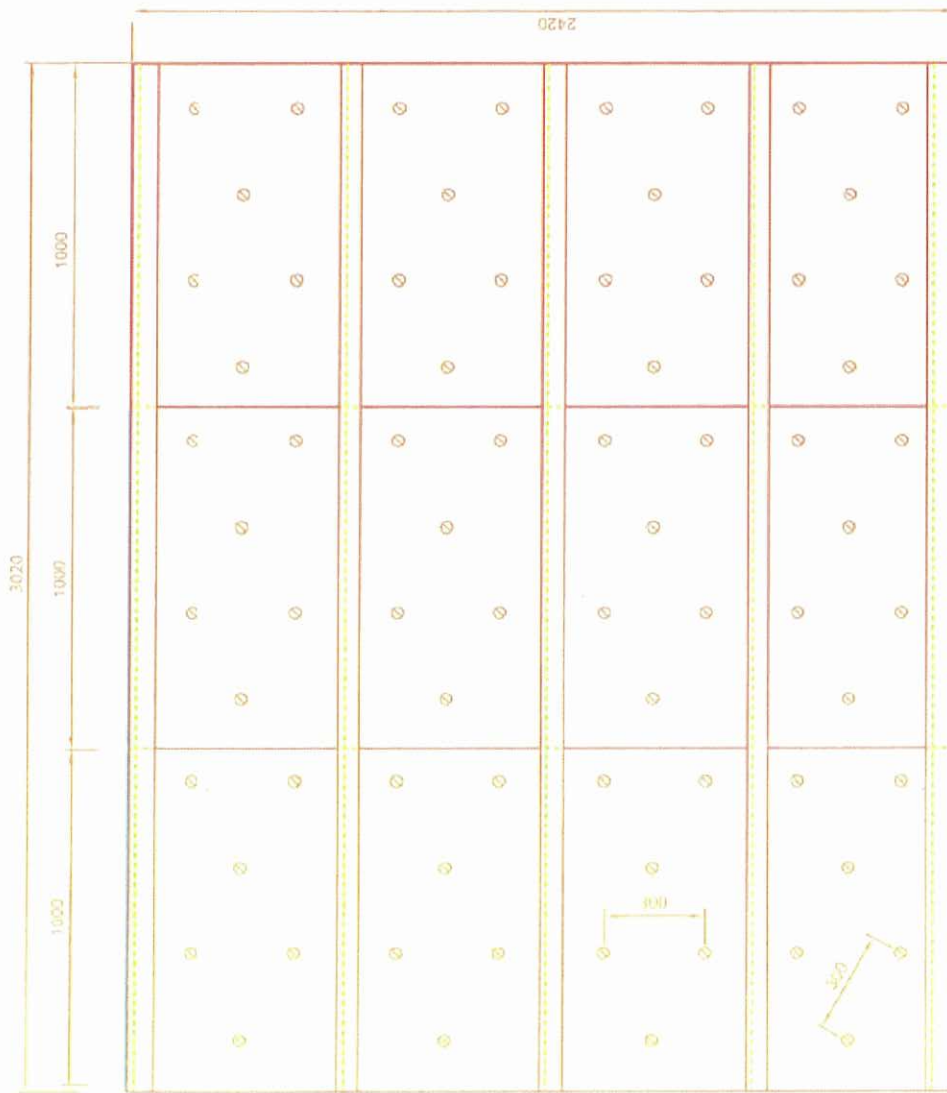
Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, fire technical rating, MED Mark of Conformity and USCG approval number if applicable.

Tomás Villarroya



All measurements in mm

ROCKWOOL®
FIRE SAFE INSULATION

Subject: A15 Deck SeaRox FB 6020

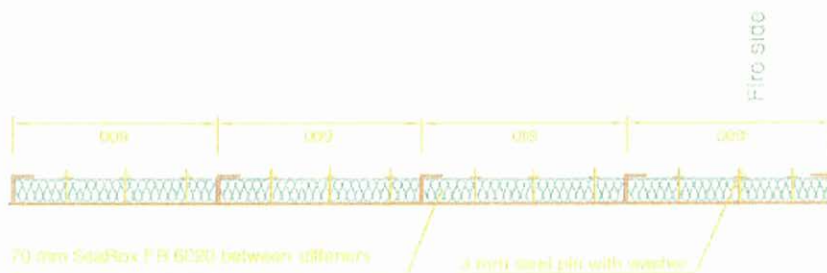
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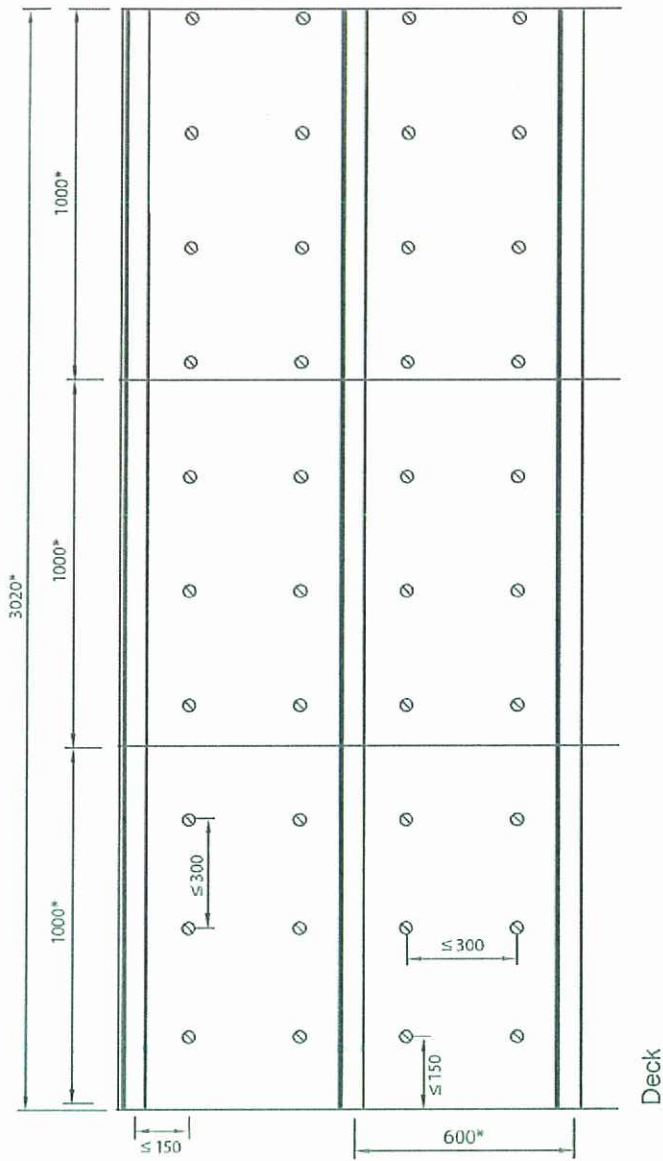
Dwg No.: R-016

Scale: 1:20

Rev:

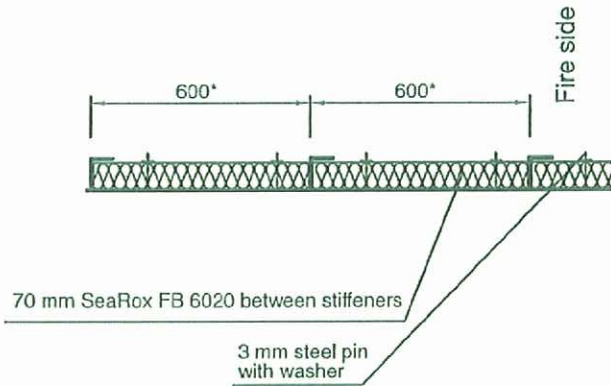
Designer: RO





All measurements in mm

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



Danish Institute of Fire
and Security Technology

File no. PHA10767C

ROCKWOOL®

TECHNICAL INSULATION

Subject: A-15 Deck SeaRox FB 6020

Date: 2015/1/20

Drawing No. 110-2