



EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000726

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

That the A & B Class divisions fire integrity: A class divisions.

with type designation(s)

Class A-60 Aluminium Bulkhead with 'SeaRox FB 6050' or 'SeaRox FM 6050'

Issued to

**Rockwool International A/S
Hedehusene, Denmark**

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2021/1158,

item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1435.

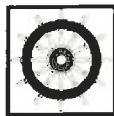
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-04-07**.

Issued at **Høvik** on **2022-04-08**

DNV local station:
Sweden CMC

Approval Engineer:
Helge Bjørnara



Notified Body
No.: **0575**



for **DNV AS**
Digitally Signed By: Sæle-Nilsen, Dag
Location: DNV Høvik, Norway
on behalf of

Sverre Olav Bergli
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, and amended by Decision No 1/2019 dated February 22nd, 2019.

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 Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.





Job Id: **344.1-012075-1**
Certificate No: **MEDB0000726**

Product description

Class A-60 Aluminium Bulkhead with 'SeaRox FB 6050' or 'SeaRox FM 6050',
Composed of structural aluminium bulkhead insulated on both sides with one layer of 70 mm or 75 mm thick mineral wool of type 'SeaRox FB 6050' or 'SeaRox FM 6050' with nominal density 70 kg/m³ (manufactured by Rockwool). On the stiffened side the insulation material is installed between and around the stiffeners. The cavity of the stiffeners is fully filled out with the same insulation material.

The insulation is held in place using 3 mm steel pins (ALU tipped) with Ø38 mm steel washers welded with a c/c 300 mm in both longitudinal as transversal direction.

Alternatively, the insulation material and stiffener design (ref. SOLAS II-2/9.3.4) may be in accordance with drawing no. 1000-1 as listed below.

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

Application/Limitation

Approved for use as a vertical fire retarding division of class A-60.

General application: Fire against either side

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED 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. PGB10100A dated 25 June 2021 from DBI, Hvidovre, Denmark.

Assessment report No. PHD10053A dated 23 February 2022 (valid to 28 February 2027) from DBI, Hvidovre, Denmark.

Drawing No. 2021004 dated 13 April 2021 from manufacturer.

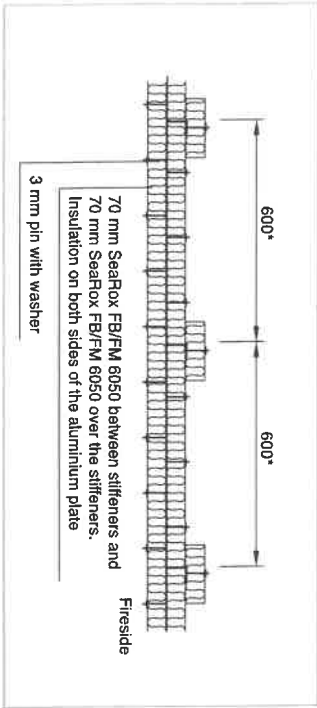
Drawing No. 1000-1 dated 30 November 2021 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

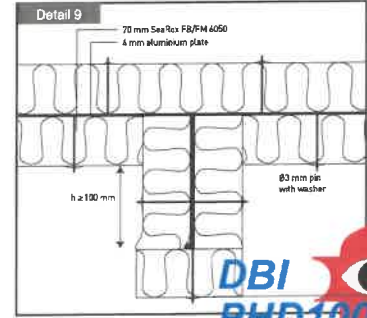
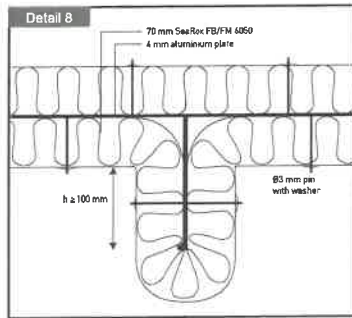
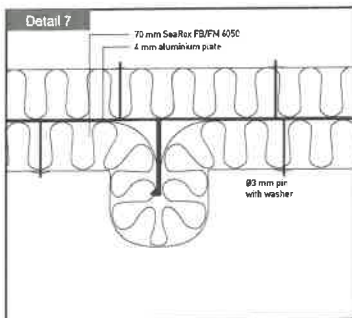
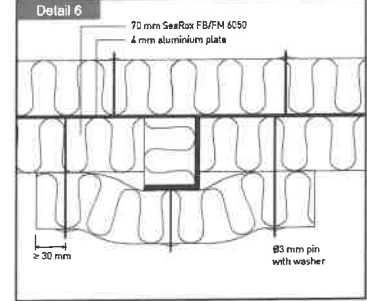
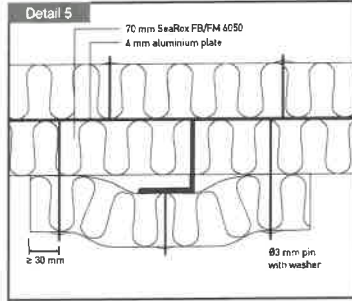
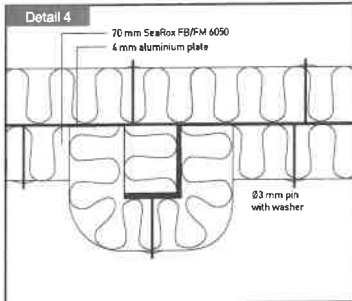
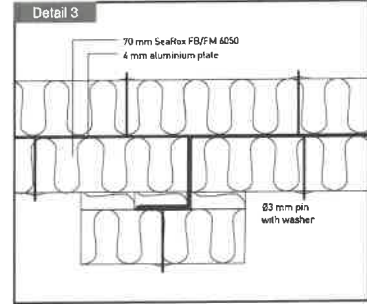
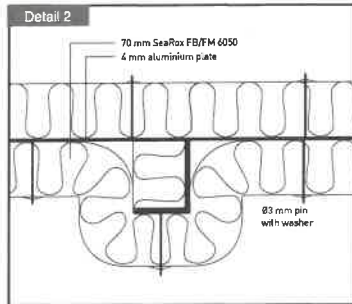
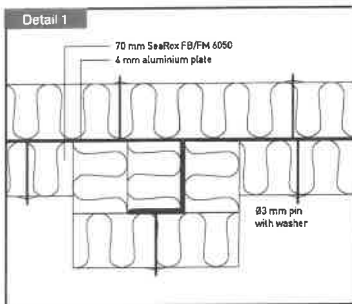
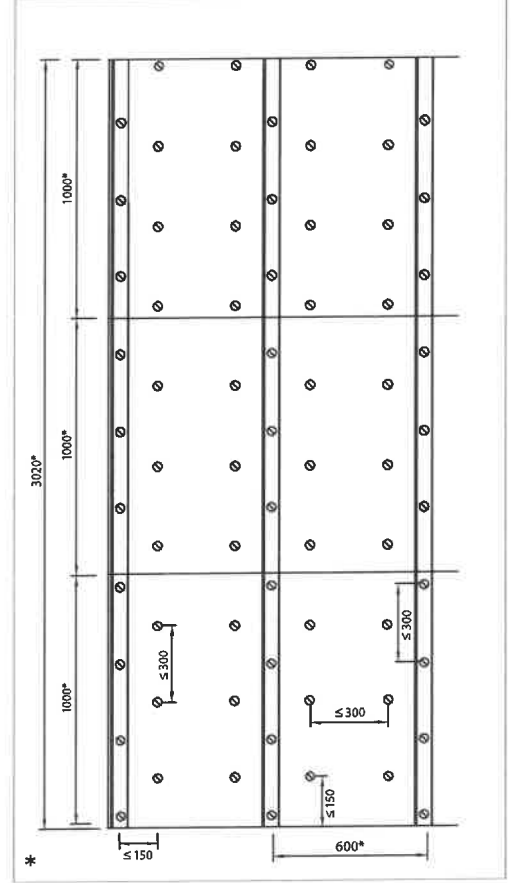
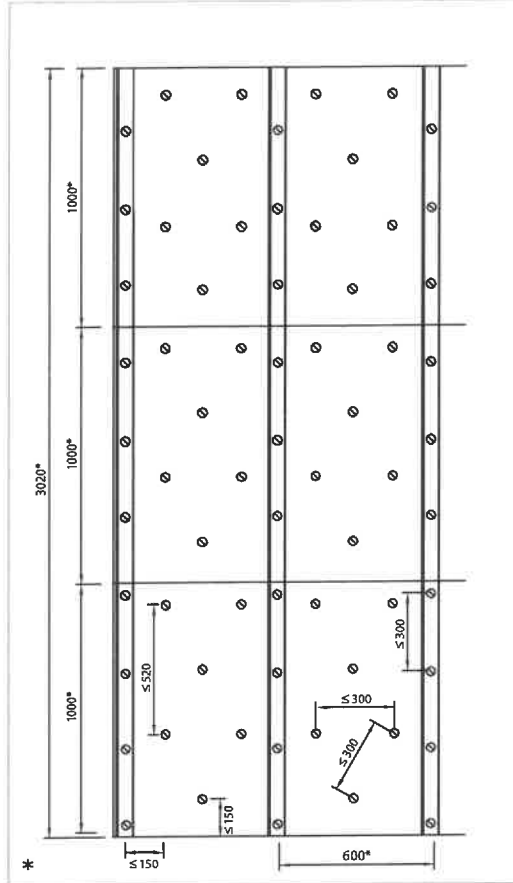
Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG approval if applicable (see first page).



All measurements in mm

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



TECHNICAL INSULATION

Subject: A-60 4 mm aluminium Bulkhead
Plate/stiffener: SeaRox FB/FM 6050, 70mm

V. Clayton

Date: 2021/11/30

Designer: DG/JS

Drawing No. 1000-1