

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 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)

Aluminium Bulkhead A60 with SeaRox FM 6040 ALU

Issued to

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

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

Regulation **(EU) 2017/306,**

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

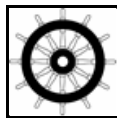
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-09-14.**

Issued at **Høvik** on **2017-09-15**

DNV GL local station:
Copenhagen

Approval Engineer:
Fryderyk Hoga



Notified Body
No.: **0575**

for **DNV GL AS**

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 Directive 2014/90/EU.

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. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-006982-1**
Certificate No: **MEDB00002RZ**

Product description

"Aluminium Bulkhead A60 with SeaRox FM 6040 ALU"

Composed of structural aluminium bulkhead insulated on each side with two layers of 35 mm thick mineral wool, type "SeaRox FM6040 ALU" (density 60 kg/m³), manufactured by Rockwool.

The bulkhead insulation is held in place using standard 3 mm aluminium tipped steel pins and 38 mm steel clips (spring washers) at intervals of approximately 300 mm.

Maximum spacing between pins and adjacent joints is 250 mm and minimum stepping of horizontal joints is 200 mm.

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 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. PGA10980A ver.2 dated 12 June 2017 from Danish Institute of Fire and Security Technology, Hvidovre, Denmark.

Drawing No. 2017002 dated 03 January 2017 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, MED Mark of Conformity and USCG approval if applicable (see first page).