DNV·GL

Certificate No:
MEDB00002S3

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

NORWEGIAN ACCREDITATION PROD 019

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Product description

"Aluminium Bulkhead A60 Restricted with SeaRox FM 6040 ALU"
Composed of structural aluminium bulkhead insulated on the stiffened side with two layers of 35 mm thick mineral wool, type "SeaRox FM6040 ALU" (density 60 kg/m^3), 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 450 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.

Restricted application: Fire against insulated and stiffened side of the bulkhead.

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. PGA10979A dated 16 February 2017 from Danish Institute of Fire and Security Technology, Hvidovre, Denmark.

Drawing No. 2017001 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).