DNV·GL

Certificate No:
MEDB00002HC

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)
A-30 Bulkhead, Steel with SeaRox SL 620

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 **2022-03-26**.

Issued at **Høvik** on **2017-03-27**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"A-30 Bulkhead, Steel with SeaRox SL 620"
Composed of structural steel bulkhead insulated on the unexposed side with minimum 40 mm thick mineral wool, type "SeaRox SL 620" (density 100-130 kg/m^3) between the stiffeners and with minimum 25 mm thick the same insulation around the stiffeners.

The insulation is fixed to the bulkhead by means of standard Ø 3 mm pins in combination with min. 30 mm diameter steel clips (spring washers).

Distance between pins on stiffeners and pins on the bulkhead is approximately 300 mm.

For further details see reports and drawings listed under Type Examination documentation.

Application/Limitation

Approved for use as a vertical fire retarding division of class A-30.

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. PGA10944A dated 21 December 2016 from Danish Institute of Fire and Security Technology, Hvidovre, Denmark.

Assessment reports No. PHA10906A, PHA10906B, PHA10906C, PHA10906D and PHA10906E dated 22 February 2017 from Danish Institute of Fire and Security Technology, Hvidovre, Denmark.

Drawings No. 522 dated 21 December 2016 and from 421-1 to 421-4 all dated 09 February 2017 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating and MED Mark of Conformity (see first page).