DNV·GL

Certificate No:
MEDB00002B4

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-60 Bulkhead, Steel

Issued to
Rockwool International A/S
HEDEHUSENE, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559,**
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 **2022-03-06**.

Issued at **Høvik** on **2017-03-07**

DNV GL local station:
Copenhagen

Approval Engineer:
Fryderyk Hoga

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

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Product description
"A-60 Bulkhead, Steel"
Steel bulkheads with different insulation solutions are listed in enclosed appendix.

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

Applications/Limitations see Appendix.

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

Tests carried out
Tested according to IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

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).

Appendix Rev.0 to MEDB00002B4

Common International Solutions:

Construction	Product Description	Application / Limitations	Type Approval Documentation
Solution no. **1 – A60BH** **A-60 Bulkhead, Steel** **SeaRox SL 640 2 x 30 mm / 30 mm**	**A-60 Bulkhead, SeaRox SL 640** Composed of steel bulkhead insulated with minimum two layers of 30 mm of the above insulation of density 130 kg/m^3 between stiffeners, and minimum 30 mm around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approximately 300 mm.	**Approved for use as a Class A-60 Bulkhead.** **General application. Fire against either side.**	Test report No. 2010CS011159/1 dated 25 October 2010 from RINA
Solution no. **2 – A60BH** **A-60 Bulkhead, Steel** **SeaRox WM 620 2 x 45 mm / 45 mm**	**A-60 Bulkhead, SeaRox WM 620** Composed of steel bulkhead insulated with minimum two layers of 45 mm of the above insulation of density 90 kg/m^3 between stiffeners, and minimum 45 mm around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approximately 300 mm.	**Approved for use as a Class A-60 Bulkhead.** **General application. Fire against either side.**	Test report No. 2006CS013889-1 dated 7 February 2007 from RINA
Solution no. **3 – A60BH** **A-60 Bulkhead, Steel** **SeaRox WM 640 75 mm / 30 mm**	**A-60 Bulkhead, SeaRox WM 640** Composed of steel bulkhead insulated with minimum 75 mm of the above insulation of density 105 kg/m^3 between stiffeners, and minimum 30 mm around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approximately 300 mm.	**Approved for use as a Class A-60 Bulkhead.** **General application. Fire against either side.**	Test report No. 2006CS013889/2 dated 7 February 2007 from RINA
Solution no. **4 – A60BH** **A-60 Bulkhead, Steel Restricted** **SeaRox SL640 40 mm / 40 mm**	**A-60 Bulkhead Restricted, SeaRox SL640** Composed of steel bulkhead insulated with minimum 40 mm of the above insulation of density 130 kg/m^3 between stiffeners, and minimum 40 mm around stiffeners. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approximately 300 mm.	**Approved for use as a Class A-60 Bulkhead.** **Restricted use. Only fire at the insulated side.**	Test report No. 2010CS011159/3 dated 25 October 2010 from RINA