

**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**

Digitally Signed By: Hoff, Øyvind
Location: DNV GL Høvik, Norway
Signing Date: 21.03.2017, on behalf of

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-000237-61**
Certificate No: **MEDB00002B4**

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

Given in enclosed Appendix.

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. <u>1 – A60BH</u> 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. <u>2 – A60BH</u> 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. <u>3 – A60BH</u> 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. <u>4 – A60BH</u> 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