

**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 Deck, 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

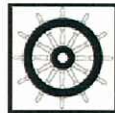
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-10-31.**

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: 16.03.2017, 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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: **344.1-006072-1**
Certificate No: **MEDB00001SH**

Product description

"A-60 Deck, Steel"

Steel deck with different insulation solutions are listed in enclosed appendix.

For further details see test reports listed under Type Examination documentation in enclosed appendix.

Application/Limitation

Approved for use as a horizontal fire retarding division of class A-60.

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 MEDB00001SH

Common International Solutions:

| Construction | Product Description | Application / Limitations | Type Approval Documentation |
|---|--|--|---|
| <p>Solution no. 3 – A60DCK</p> <p>A-60 Deck, Steel</p> <p>SeaRox SL 640 & SeaRox WM 640 45 mm / 30 mm</p> | <p>A-60 Deck, SeaRox SL 640 & SeaRox WM 640 Composed of structural steel deck insulated on the exposed side (underside of the deck) with minimum 45 mm thick mineral wool, type "SeaRox SL 640" (density 130 kg/m³) between stiffeners plus infill for L-shape stiffener, and minimum 30 mm thick mineral wool, type "SeaRox WM 640" (density 105 kg/m³) around stiffeners. The deck insulation is held in place using standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approximately 300 mm.</p> | <p>Approved for use as a Class A-60 Deck.</p> | <p>Test report No. PG 10944/8276, 31 October 2001 from DIFT</p> |
| <p>Solution no. 4 – A60DCK</p> <p>A-60 Deck, Steel</p> <p>SeaRox WM 620 45 mm / 45 mm</p> | <p>A-60 Deck, SeaRox WM 620 Composed of structural steel deck insulated on the exposed side (underside of the deck) with minimum 45 mm thick insulation, type "SeaRox WM 620" (density 90 kg/m³) between stiffeners and over stiffeners, as one layer. The deck insulation is held in place using standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approximately 300 mm.</p> | <p>Approved for use as a Class A-60 Deck.</p> | <p>Test report No. PG 10984/8384, 14 March 2002 from DIFT</p> |