

TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB000005S
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the A & B Class divisions fire integrity: A class divisions.

with type designation(s)

Steel Deck A60 with SeaRox FB or FM 6020, SeaRox FB or FM 6040; stiffeners: SeaRox FM 6040, SeaRox FB or FM 6050

Issued to

Rockwool A/S
Hedehusene, Denmark

is found to comply with the requirements in the following Regulations/Standards:

Regulation **MSN 1874 Amendment 6,**

item No. UK/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, IMO MSC.1/Circ.1435.

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

This Certificate is valid until **2025-07-27**.

Issued at **London** on **2022-12-29**

DNV local unit:
Sweden CMC



for **DNV UK Ltd.**

Approval Engineer:
Timo Linn

Approved Body No.: **0097**

Christine Mydlak-Röder
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. The product liability rests with the manufacturer or his representative in accordance with the Merchant Shipping (Marine Equipment) Regulations 2016.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV UK Ltd. of any changes to the approved equipment. 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. This certificate remains valid unless suspended, withdrawn, re-called, or cancelled.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

“Steel Deck A60 with steel plate SeaRox FB or FM 6020, SeaRox FB or FM 6040; stiffeners: SeaRox FM 6040, SeaRox FB or FM 6050”

composed of steel deck to be insulated with one of the following variants:

1. SeaRox FB or FM 6020 (density 40 kg/m³, minimum thickness 70 mm) between the stiffeners and SeaRox FM 6040 (density 60 kg/m³, minimum thickness 35 mm) around the stiffener.
2. SeaRox FB or FM 6020 (density 40 kg/m³, minimum thickness 70 mm) between the stiffeners and SeaRox FB or FM 6050 (density 70 kg/m³, minimum thickness 30 mm) around the stiffener.
3. SeaRox FB or FM 6040 (density 60 kg/m³, minimum thickness 70 mm) between the stiffeners and SeaRox FM 6040 (density 60 kg/m³, minimum thickness 35 mm) around the stiffener.
4. SeaRox FB or FM 6040 (density 60 kg/m³, minimum thickness 70 mm) between the stiffeners and SeaRox FB or FM 6050 (density 70 kg/m³, minimum thickness 30 mm) around the stiffener.
5. SeaRox FM 6040 (density 60 kg/m³, minimum thickness 50 mm) between and around the stiffeners.
6. SeaRox FM 6040 (density 60 kg/m³, minimum thickness 50 mm) between the stiffeners and SeaRox FB or FM 6040 (density 60 kg/m³, minimum thickness 35 mm) around the stiffener.
7. SeaRox FM 6040 (density 60 kg/m³, minimum thickness 50 mm) between the stiffeners and SeaRox FB or FM 6050 (density 70 kg/m³, minimum thickness 30 mm) around the stiffener.
8. SeaRox FB or FM 6040 (density 60 kg/m³, minimum thickness 35 mm) between the stiffeners and SeaRox FM 6040 (density 60 kg/m³, minimum thickness 35 mm) between and around the stiffener.

For all variants:

- The insulation is fixed to the bulkhead by means of standard ø3 mm pins in combination with 30-38 diameter steel clips (spring washers).
- Distance between pins on the stiffeners is maximum 300 mm. Distance between pins on the bulkhead (between stiffeners) is maximum 300 mm.

For further details about pin-settings and design see drawings listed under Type Examination documentation below.

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 Regulation 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. PGA10659 dated 6 May 2015 from DBI, Hvidovre, Denmark.

Test Report No. PGA10732 dated 21 September 2015 from DBI, Hvidovre, Denmark.

Assessment Report Nos.:

PHA10629f dated 26 June 2017 (valid until 30 June 2022) from DBI, Hvidovre, Denmark.

PHA10840B dated 11 March 2021 from DBI, Hvidovre, Denmark.

PHA10629f dated 30 January 2022 (valid until 30 January 2027) from DBI, Hvidovre, Denmark.

PHD10038A dated 27 October 2021 (valid until 27 October 2026) from DBI, Hvidovre, Denmark.

PHD10025A dated 5 July 2021 (valid until 5 July 2026) from DBI, Hvidovre, Denmark.

PHA10629a dated 1 December 2021 (valid until 1 December 2026) from DBI, Hvidovre, Denmark.

Drawing No. 120-1 dated 2 July 2015 from the manufacturer.

Drawing No. 120-2 dated 2 July 2015 from the manufacturer.

Drawing No. 120-3 dated 2 July 2015 from the manufacturer.

Drawing No. 120-4 dated 2 July 2015 from the manufacturer.

Drawing No. 120-5 dated 2 July 2015 from the manufacturer.

Drawing No. 130-1 dated 29 July 2016 from the manufacturer.

Drawing No. 130-2 dated 29 July 2016 from the manufacturer.

Drawing No. 130-3 dated 29 July 2016 from the manufacturer.



Job Id: **AA0020ZY**
Certificate No: **MERB000005S**
Revision No: **0**

Drawing No. 130-4 dated 29 July 2016 from the manufacturer.
Drawing No. 330-1 dated 26 May 2016 from the manufacturer.
Drawing No. 330-2 dated 26 May 2016 from the manufacturer.
Drawing No. 330-3 dated 26 May 2016 from the manufacturer.
Drawing No. 330-4 dated 26 May 2016 from the manufacturer.
Drawing No. 600-1 Rev.2 dated 25 October 2021 from the manufacturer.
Drawing No. 600-2 Rev.2 dated 25 October 2021 from the manufacturer.
Drawing No. 600-3 Rev.2 dated 25 October 2021 from the manufacturer.
Drawing No. 600-4 Rev.2 dated 25 October 2021 from the manufacturer.
Drawing No. 600-5 dated 25 October 2021 from the 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, UK Mark of Conformity (see page 1).