



TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB000005Y
Revision No:
1

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)

Class A-30 steel bulkhead with several combinations of SeaRox FB or FM type insulation

Issued to

Rockwool A/S
Hedehusene, Denmark

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

Regulation **MSN 1874 Amendment 7,**

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.1434,1435; IMO MSC.1/Circ.1616, 1621

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

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

Issued at **London** on **2024-01-31**

DNV local unit:
Denmark CMC



for **DNV UK Ltd.**

Approval Engineer:
Tessa Biever

Approved Body No.: **0097**

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Mydlak-Röder, Christine
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

"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. In case limitations of use apply, these should be indicated in the Annex.

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

'Class A-30 steel bulkhead with several combinations of SeaRox FB or FM type insulation'
Composed of a structural steel bulkhead 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 6030 (density 50 kg/m³, minimum thickness 30 mm) around the stiffener.
2. 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.
3. 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.
4. SeaRox 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.
5. SeaRox FB or FM 6040 (density 60 kg/m³, minimum thickness 50 mm) between the stiffeners and SeaRox FM 6040 (density 60 kg/m³, minimum thickness 35 mm) around the stiffener.
6. SeaRox FB or 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 stiffeners.

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.
- The cavity inside the stiffener filled out with two layers of 30 mm thick SeaRox FB or FM 6050 (density of 70 kg/m³, minimum thickness 30 mm) and/or insulation of cavity / inside stiffener to be in accordance with reference drawings 170-1~5 Rev.3 dated 12 July 2023.

For further details see documentation listed under Type Examination documentation below.

Application/Limitation

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

General application: Fire on either side.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Regulations and bear the UK 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, use and maintenance.

Type Examination documentation

Test report No. PGA10658 dated 4 May 2015 from DBI, Hvidovre, Denmark.
Test report No. PGA10731 dated 22 September 2015 from DBI, Hvidovre, Denmark.
Test report No. PGB10284A dated 28 July 2023 from DBI, Hvidovre, Denmark.

Assessment report No. PHA10628a dated 3 August 2020 (expires 31 August 2025) from DBI, Hvidovre, Denmark.
Assessment report No. PHA10628e dated 03 August 2020 (expires 31 August 2025) from DBI, Hvidovre, Denmark.
Assessment report No. PHA10628f dated 30 January 2022 (expires 30 January 2027) from DBI, Hvidovre, Denmark.
Assessment report No. PHD10038a dated 27 October 2021 (expires 27 October 2026) from DBI, Hvidovre, Denmark.
Assessment report No. PHD10025a dated 5 July 2021 (expires 5 July 2026) from DBI, Hvidovre, Denmark.
Assessment report No. PHA10628f dated 22 September 2023 (expires 22 September 2028) from DBI, Hvidovre, Denmark.

Drawing No. 160-1 dated 2 July 2015 from the manufacturer.
Drawing No. 160-2 dated 2 July 2015 from the manufacturer.
Drawing No. 160-3 dated 2 July 2015 from the manufacturer.
Drawing No. 160-4 dated 2 July 2015 from the manufacturer.
Drawing No. 160-5 dated 2 July 2015 from the manufacturer.

Drawing No. 170-1 Rev.3 dated 12 July 2023 from manufacturer.
Drawing No. 170-2 Rev.3 dated 12 July 2023 from manufacturer.
Drawing No. 170-3 Rev.3 dated 12 July 2023 from manufacturer.
Drawing No. 170-4 Rev.3 dated 12 July 2023 from manufacturer.
Drawing No. 170-5 Rev.3 dated 12 July 2023 from manufacturer.



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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 the UK Mark of Conformity (see first page).