

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB00001VR**  
Revision No:  
**9**

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 AS under the authority of the Government of Norway.

## This is to certify:

**That the Surface materials and floor coverings with low flame-spread characteristics: decorative veneers**

with type designation(s)  
**SeaRox / ProRox insulation with surface materials**

Issued to

**Rockwool A/S**  
**Hedehusene, Denmark**

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

Regulation (EU) 2022/1157,

**item No. MED/3.18a. SOLAS 74, Reg. II-2/3, II-2/5, II-2/6 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code**

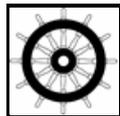
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-12-01**.

Issued at **Høvik** on **2023-06-08**

DNV local unit:  
**Denmark CMC**

Approval Engineer:  
**Helge Bjørnara**



Notified Body  
No.: **0575**

for **DNV AS**

**Sverre Olav Bergli**  
**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, and amended by Decision No 1/2019 dated February 22nd, 2019.

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 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.



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

“SeaRox / ProRox insulation with surface materials”.

Stone wool marketed under the trade names of SeaRox and ProRox in forms of slabs, mats, wired mats, lamella mats and pipe sections, having a nominal minimum density 25 kg/m<sup>3</sup>.

Trade names: SeaRox and ProRox according to the given non-combustibility certificate.

The base insulation material consists of stone wool with different density that are tested and approved non-combustible types. The insulation can be faced with:

Product	Description	Fixing	Specification of surface layer
ALU	Reinforced aluminium foil.	Glued or stitched to the insulation.	12-18 µm (aluminium layer) 69-84 g/m <sup>2</sup> (total weight)
ALU-G and GW-A	White woven glass cloth and 18 µm aluminium foil	Glued to the insulation.	18 µm (total thickness) 270 g/m <sup>2</sup> (total weight)
ALU-G1	Aluminium foil laminated with woven glass cloth beneath	Glued to the insulation.	10 µm (aluminium layer) 116 g/m <sup>2</sup> (glass cloth) 137 g/m <sup>2</sup> (total weight)
GW 200	White woven glass cloth	Glued to the insulation or loose fitted.	210-220 g/m <sup>2</sup> (total weight)
GW 400	White woven glass cloth	Glued to the insulation or loose fitted.	430-450 g/m <sup>2</sup> (total weight)
TB/TN	Black or white/neutral non-woven glass tissue	Glued to the insulation.	60-70 g/m <sup>2</sup> (total weight)
SeaRox Acoustic foil	Transparent film	Film covered by 1 mm perforated steel or aluminium plate on the insulation.	19 µm (total thickness)
SeaRox S337 Alu Tape	Alu tape	Taped	60 µm (total thickness)
SeaRox Glass Cloth Tape 120	White woven glass fibre tape with aluminium adhesive side	Taped	120 µm (thickness) 120 g/m <sup>2</sup> (glass cloth)

## Application/Limitation

Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.

Approved for use on non-metallic, non-combustible substrate with minimum density of 25 kg/m<sup>3</sup>.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 and to be approved according to the Marine Equipment Directive and bear the MED Mark of Conformity.

The product satisfies the requirement for maximum calorific value (ref. SOLAS Chapter II-2, Reg 5.3.2.2) without further testing.

Each product is to be supplied with its manual for installation and maintenance.

## Type Examination documentation

Test report No. PFB10207B dated 27 April 2016 from DBI, Hvidovre, Denmark.  
 Test report No. PFB10325Ab dated 12 April 2019 from DBI, Hvidovre, Denmark.  
 Test report No. PFB10349A dated 20 May 2019 from DBI, Hvidovre, Denmark.  
 Test report No. PFB10349C dated 21 May 2019 from DBI, Hvidovre, Denmark.  
 Test report No. PFB10427A dated 29 September 2020 from DBI, Hvidovre, Denmark.  
 Test report No. PFB10431A dated 6 November 2020 from DBI, Hvidovre, Denmark.  
 Test report No. PFB10370AA dated 12 November 2019 from DBI, Hvidovre, Denmark.  
 Test report No. PFB10347A dated 13 November 2019 from DBI, Hvidovre, Denmark.  
 Test report No. PFB10370T1 dated 19 December 2019 from DBI, Hvidovre, Denmark.  
 Test report No. PFB10454A dated 9 February 2021 from DBI, Hvidovre, Denmark.



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Test report No. PFB10423A dated 1 December 2021 from DBI, Hvidovre, Denmark.  
Test report No. PFB10308C dated 7 August 2018 from DBI, Hvidovre, Denmark.  
Test report No. PFB10320A dated 22 November 2018 from DBI, Hvidovre, Denmark.  
Test report No. PFB10308E dated 7 August 2018 from DBI, Hvidovre, Denmark.  
Test report No. DO-20-1779\C-R1 dated 6 March 2020 from CREPIM, Bruay-La-Buissière, France.  
Test report No. DO-20-2143\A-R1 dated 6 October 2020 from CREPIM, Bruay-La-Buissière, France.  
Test report No. PFB10587A dated 27 February 2023 from DBI, Hvidovre, Denmark.

### **Tests carried out**

Tested according to IMO 2010 FTP Code part 5 and Annex 2 item 2.2 and 2.3.

### **Marking of product**

The product or packing is to be marked with name and address of manufacturer, type designation, the MED Mark of Conformity and USCG approval number if applicable (see first page).