



## Certificate Of Fire Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

|                           |  |
|---------------------------|--|
| <b>Manufacturer</b>       | <b>Rockwool B.V.</b>   |
| <b>Address</b>            | Attn. Rockwool Technical Insulation, P.O. Box 1160, Roermond, 6040 KD, Netherlands   |
| <b>Type</b>               | Material Having Low Flame Spread Characteristics & Not Capable Of Producing Excessive Quantities Of Smoke & Toxic Products Of Combustion |
| <b>Description</b>        | Fire Resisting Material – Type: “SeaRox”, "ProRox" insulation with surface materials   |
| <b>Trade Name</b>         | SeaRox facing, SeaRox Acoustic Foil, SeaRox Alu tape S337  |
| <b>Specified Standard</b> | IMO Res. MSC.307(88) - (2010 FTP Code) Annex 1, Part 5 and Annex 2   |

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register Marine Polska sp. z o. o. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

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**Marta Walk**

Fire & Safety - Senior Specialist to Lloyd's Register Marine Polska sp. z o. o.  
A member of the Lloyd's Register group

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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23405412SF**

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Certificate is an Amendment and a Renewal of Lloyd's Register Certificate No. SAS F180213-02.

**APPROVAL DOCUMENTATION**

- Danish Institute of Fire and Security Technology, Hvidovre, Denmark, Fire Test Reports No's:
  - No. PFB10042 dated 31 July 2012,
  - No. PFB10047c dated 30 October 2012,
  - No. PFB10079b dated 06 August 2013,
  - No. PFB10083 dated 16 August 2013,
  - No. PFB10182C dated 08 December 2015.
  - No. PFB10207B dated 27 April 2016,
  - No. PFB10370AA dated 12 November 2016,
  - No. PFB10308C dated 07 August 2018,
  - No. PFB10308E dated 07 August 2018
  - No. PFB10320A dated 22 November 2018,
  - No. PFB10325Ab dated 12 April 2019
  - No. PFB10349A dated 20 May 2019.
  - No. PFB10349C dated 21 May 2019
  - No. PFB10427A dated 29 September 2020
  - No. PFB10431A dated 06 November 2020
  - No. PFB10347A dated 13 November 2019
  - No. PFB10370T1 dated 19 December 2019
  - No. PFB10454A dated 09 February 2021
  - No. PFB10423A dated 01 December 2021
  - No. PFB10608A dated 13 September 2023
  - No. PFB10610A dated 19 October 2023
  - No. PFB10613A dated 16 November 2023
- CREPIM, Bruay-La-Buissière, France Fire Test Reports No's
  - No. DO-20-1779\C-R1 dated 06 March 2020
  - No. DO-20-2143\A-R1 dated 06 October 2020

**CONDITIONS OF CERTIFICATION**

- Consisting of: mineral wool insulation 'ProRox' or 'SeaRox' densities 26kg/m<sup>3</sup> to 240kg/m<sup>3</sup> with surface layer of material as detailed below:

| Surface material     | Description   | Fixing   | Specification of surface layer   |
|----------------------|---|--|--|
| ALU                  | Reinforced aluminium foil                               | Glued or stitched to the insulation  | 12-18 µm (aluminium layer)<br>69-86 g/m <sup>2</sup> (total weight)  |
| ALU-G and GW-A       | White woven glass cloth and aluminium foil              | Glued to the insulation or loose fitted                                    | 12-18 µm (total thickness)<br>275 g/m <sup>2</sup> (total weight)  |
| ALU-G1               | Aluminium foil laminated with woven glass cloth beneath | Glued to the insulation  | 15 g/m <sup>2</sup> (aluminium layer)<br>116 g/m <sup>2</sup> (glass cloth)<br>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                                    | 440-450 g/m <sup>2</sup> (total weight)  |
| TB and 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 | Polyester 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  | 30 µm (total thickness)  |

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2. Composition and application of insulation material, including any flame retardants, to be maintained in production and use in accordance with originally tested composition formula and method of application, and Manufacturer's instructions.
3. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.
4. The Certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products are fully compliant with the relevant statutory regulations and Lloyd's Register Class Rules as applicable and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.

**PLACES OF PRODUCTION****Rockwool A/S**

Moss, Trondheim  
Norway

**Roxul Asia Sdn. Bhd.**

75450 Melaka  
Malaysia

**Rockwool Hungary**

8300 Tapolca  
Hungary

**Rockwool BV**

NL-6045 JG Roermond  
The Netherlands

**Rockwool Peninsular S.A.U.**

E-31380 Caparroso  
Spain

**Rockwool a.s.**

735 31 Bohumin 3  
Czech Republic

**Rockwool Ltd.**

Pencoed, Bridgend  
Wales, CF35 6NY  
United Kingdom

**Roxul Rockwool Insulation India Pvt. Ltd.**

Plot – Z/4, Dahej SEZ, Dahej  
District Bharuch – 392 130  
Gujarat  
India

**Deutsche Rockwool GmbH & Co. OHG**

Ruhrstrasse 13  
DE-86633  
Neuburg a.d. Donau  
Germany

**Rockwool A/S**

Rockwoolvej, Ø Doense  
DK-9500 Hobro  
Denmark

**Rockwool A/S**

Industrivej  
DK-6580 Vamdrup  
Denmark

*M. Walk*

Marta Walk  
Senior Specialist, Fire & Safety  
Statutory Discipline Team  
UK&I Technical Support Office, Marine & Offshore

**Supplementary Type Approval Terms and Conditions**

*This Certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s)*

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