



## 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>	Non-Combustible Material
<b>Description</b>	Fire Resisting Material – Types: “SeaRox” & “ProRox”
<b>Trade Name</b>	“SeaRox” and “ProRox”
<b>Specified Standard</b>	IMO Res. MSC.307(88) – (2010 FTP Code), Annex 1, Part 1

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.

**Marta Walk**

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

Al Zwycięstwa 13a, Gdańsk, 80-219, Poland

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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23405411SF**

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 supersedes and is a Renewal and an Amendment of Lloyd's Register Certificate No. SAS F180212-03.

**APPROVAL DOCUMENTATION**

1. Danish Institute of Fire and Security Technology, Hvidovre, Denmark, Fire Test Reports No's:
  - PFB10021, dated 09 February 2012
  - PFB10026, dated 30 April 2012
  - PFB10079a, dated 06 August 2012
  - PFB10081, dated 08 August 2012
  - PFB10032, dated 20 August 2012
  - PFB10028, dated 20 August 2012
  - PFB10047a, dated 30 October 2012
  - PFB10047b, dated 30 October 2012
  - PFB10052a, dated 19 November 2012
  - PFB10052b, dated 19 November 2012
  - PFB10052c, dated 19 November 2012
  - PFB10052d, dated 19 November 2012
  - PFB10052e, dated 19 November 2012
  - PFB10089a, dated 09 October 2013
  - PFB10089d, dated 09 October 2013
  - PFB10089c, dated 09 October 2013
  - PFB10089b, dated 09 October 2013
  - PFB10165A, dated 29 April 2015
  - PFB10165B, dated 29 April 2015
  - PFB10165F dated 13 May 2015
  - PFB10169C, dated 07 July 2015
  - PFB10182A, dated 06 November 2015
  - PFB10182B, dated 30 November 2015
  - PFB10235A, dated 18 October 2016
  - PFB10242A, dated 21 December 2016
  - PFB10267A, dated 31 July 2017
  - PFB10344A, dated 02 May 2019
  - PFB10334A, dated 16 August 2019
  - PFB10469A, dated 19 April 2021
  - PFB10308A, dated 20 July 2020
  - PFB10580A, dated 03 January 2023
2. Exova Warringtonfire, Warrington, United Kingdom, Test Report No. 320946, dated 14 September 2012.
3. RINA Fire Protection Research Laboratory, Via Corsica, 12-16128 Genova, Italy; Test Report No's:
  - 2013CS011111/1, dated 07 May 2013
  - 2013CS011111/2, dated 09 May 2013

**CONDITIONS OF CERTIFICATION**

1. The following "SeaRox" & "ProRox" Insulation Materials comprising of stone wool products in the form of: Slabs, Mats, Wired Mats, Lamella Mats and Pipe Sections or Loose Fill at the following densities are approved for use as non-combustible materials:

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Product Name	Density, kg/m <sup>3</sup>	Nominal Organic Content	Form	Test Report No. for representative products
SeaRox SL 300-390	55-80	2.2%	Slab	PFB10052a
SeaRox SL 400-490	100-240	1.0%-4.0%	Slab	PFB10052b PFB10089a
SeaRox SL 600-630	80-130	1.1%	Slab	PFB10081 PFB10469a PFB10021
SeaRox SL 640-660	130 – 150	1.4%	Slab	PFB10032 PFB10052c PFB10334a
SeaRox SL 700-790	32 – 55	1.8%-2.2%	Slab	PFB10089b PFB10052d
SeaRox SL 950-960 SeaRox SL 970-980	80-145	1.5% 1.2%	Slab	PFB10255A
SeaRox ST 620	100	3.0%	Slab	PFB10344A
SeaRox FB 6020- 6050	35 – 70	1.1%	Slab	PFB10165A PFB10165F PFB10165B
SeaRox MA 700-790	27 – 55	1.8%-2.2%	Mat	PFB10047a PFB10047b
SeaRox FM 6020 -6050	40-70	1.1% -1.3%	Mat	PFB10580A PFB10182A PFB10182B PFB10267A
SeaRox MA 7000 ALU	26 kg/m <sup>3</sup>	2.2%	Mat	PFB10308A
SeaRox WM 620-690	90-150	0.9%	Wired Mat	PFB10028 2013CS011111/1 & /2 PFB10089c
SeaRox WM 950-990	80-130	1.5%-0.9%	Wired Mat	PFB10052e
SeaRox LM 90 -990	32-45	1.6%	Lamella Mat	PFB10026
ProRox PS 930-990	100-140	2.2% -4%	Pipe Section	PFB10089d PFB10079a PFB10169C 320946
ProRox LF 970	25-200*	0.6%	Loose Fill	PFB10235A

\*/ Loose Fill is typically used to fill (irregularly formed) shapes, gaps etc.  
 It is supplied in low density to the customer, and it can be stuffed in high densities



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- Where the product is used as part of a fire rated division, separate testing shall be undertaken, and Certification ascertained in accordance with IMO Res. MSC.307(88) – (2010 FTP Code).
- 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.
- 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.
- 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



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*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)*

