



CERTIFICATE NUMBER 19-LD1847073-PDA

EFFECTIVE DATE 29-May-2019

EXPIRATION DATE 28-May-2024

ABS TECHNICAL OFFICE London Engineering Department

## CERTIFICATE OF

# Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**ROCKWOOL INTERNATIONAL A/S**

located at

**Hovedgaden 584 DK-2640 Hedehusene Denmark**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product Non-combustible Insulation Material**

**Model Slabs: SeaRox SL 340, SeaRox SL 436, SeaRox SL490, SeaRox SL620, SeaRox SL 640, SeaRox SL 660, SeaRox SL 720 & SeaRox SL 740**

This Product Design Assessment (PDA) Certificate remains valid until 28/May/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

Nitin Tyagi, Engineer/ Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

**ROCKWOOL INTERNATIONAL A/S**

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Email: math.mourmans@rockwool.com

Web: www.rockwool-rti.com

**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Non-combustible insulation material

**Model:** Slabs: SeaRox SL 340, SeaRox SL 436, SeaRox SL490, SeaRox SL620, SeaRox SL 640, SeaRox SL 660, SeaRox SL 720 & SeaRox SL 740

**Intended Service:**

Non-combustible stone wool insulation material.

**Description:**

Non-combustible Searox Insulation Materials

SeaRox SL 340: Nominal Density of 80 kg/m<sup>3</sup>, Organic Content (Nominal): 2.2%

SeaRox SL 436: Nominal Density of 140 kg/m<sup>3</sup>, Organic Content (Nominal): 1.4%

SeaRox SL 490: Nominal Density of 240 kg/m<sup>3</sup>, Organic Content (Nominal): 2.8%

SeaRox SL 620: Nominal Density of 100 kg/m<sup>3</sup>, Organic Content (Nominal): 1.0%

SeaRox SL 640: Nominal Density of 130 kg/m<sup>3</sup>, Organic Content (Nominal): 1.4%

SeaRox SL 660: Nominal Density of 150 kg/m<sup>3</sup>, Organic Content (Nominal): 1.4%

SeaRox SL 720: Nominal Density of 32 kg/m<sup>3</sup>, Organic Content (Average Tested): 2.48%

SeaRox SL 740: Nominal Density of 45 kg/m<sup>3</sup>, Organic Content (nominal): 1.8%

**Rating:**

Non-combustible material in accordance with Annex 1 Part 1 of the 2010 FTP Code.

**Service Restriction:**

1) Unit Certification is not required for this product. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances must be clearly defined.

2) Continuous compliance with the statutory requirements requires maintenance of the Full Type Approval. The scope of Type Approval is to comply with MSC.1/Cir. 1221 dated 1 December 2006.

**Comments:**

1) The Manufacturer has provided a declaration about the control of, or lack of Asbestos in this product.

2) Unless specially directed by the Administration, this approval is not to be construed as a substitute of a flag Administration's approval for the purpose of SOLAS (2014 Consolidated Edition), as amended, as well as when MED and USCG specific requirements needs to be complied with.

3) In those instances where flag administration may have their own specific requirements, flag Administration's approval may be required.

**Notes/Drawing/Documentation:**

DANAK Test Report # 112, File PFB10052a Serial Number 13682 Dated 2012-11-19

DANAK Test Report # 112, File PFB10052b Serial Number 13684 Dated 2012-11-19

DANAK Test Report # 112, File PFB10089a Serial Number 14176 Dated 2013-10-09

DANAK Test Report # 112, File PFB10032 Serial Number 13582 Dated 2012-08-20

DANAK Test Report # 112, File PFB10052c Serial Number 13685 Dated 2012-11-19

DANAK Test Report # 112, File PFB10089b Serial Number 14177 Dated 2013-10-09

DANAK Test Report # 112, File PFB10052d Serial Number 13686 Dated 2012-11-19

DANAK Test Report # 112, File PFB10081 Serial Number 14063 Dated 2013-08-08

**Terms of Validity:**

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Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

**STANDARDS**

**ABS Rules:**

ABS Rules for Condition of Classification, 2019: 1-1-4/7.7, 1-1-A3 & A4

ABS Rules for Conditions of Classification - Offshore Units and Structures, 2018: 1-1-4/9.7, 1-1-A2 & 1-1-A3

**National:**

NA

**International:**

IMO Resolution MSC.307(88) adopted on 3 Dec 2010 - 2010 FTP Code (2012 Edition) - Annex 1 Part 1

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA



CERTIFICATE NUMBER 19- LD1847073-PDA-DUP

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ABS TECHNICAL OFFICE London Engineering Department

CERTIFICATE OF

## Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**ROXUL ROCKWOOL INSULATION INDIA  
PVT.LTD.**

located at

**Plot Z/4 Dahej Sez Dahej District Bharuch Gujarat 392130 India**

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**Product Non-combustible Insulation Material**

**Model Slabs: SeaRox SL 340, SeaRox SL 436, SeaRox SL490, SeaRox SL620, SeaRox SL 640,  
SeaRox SL 660, SeaRox SL 720 & SeaRox SL 740**

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**ROXUL ROCKWOOL INSULATION INDIA PVT. LTD.**

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**Tier: 3 - Type Approved, unit certification not required**

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**Product:** Non-combustible insulation material

**Model:** Slabs: SeaRox SL 340, SeaRox SL 436, SeaRox SL490, SeaRox SL620, SeaRox SL 640, SeaRox SL 660, SeaRox SL 720 & SeaRox SL 740

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**Comments:**

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DANAK Test Report # 112, File PFB10081 Serial Number 14063 Dated 2013-08-08

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**National:**

NA

**International:**

IMO Resolution MSC.307(88) adopted on 3 Dec 2010 - 2010 FTP Code (2012 Edition) - Annex 1 Part 1

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA