



CERTIFICATE NUMBER 19-LD1847070-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 with Reinforced Aluminum Foil

Model Mats: SeaRox MA 720 ALU & SeaRox MA 740 ALU

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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Tier: 3 - Type Approved, unit certification not required

Product: Non-combustible insulation material with reinforced aluminum foil**Model:** Mats: SeaRox MA 720 ALU & SeaRox MA 740 ALU**Intended Service:**

Non-combustible tone wool insulation material

Description:SeaRox MA 720 ALU: Nominal Density of 32 kg/m³ (mineral wool insulation with surface of reinforced aluminium foil), Organic Content (Nominal): 1.8%SeaRox MA 740 ALU: Nominal Density 45 kg/m³ (mineral wool insulation with surface of reinforced aluminium foil), Organic Content (Nominal): 1.8%**Rating:**

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

SeaRox MA 740 ALU has also been tested for low-flame spread characteristics in accordance with Annex 1 Part 5 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 #12, File PFB10047a Serial Number 13655 Dated 2012-10-30

DANAK Test Report #12, File PFB10047c Serial Number 13662 Dated 2012-10-30

DANAK Test Report #12, File PFB10047b Serial Number 13658 Dated 2012-10-30

Terms of Validity:

This Product Design Assessment (PDA) Certificate 19-LD1847070-PDA, dated 29/May/2019 remains valid until 28/May/2024 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

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

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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 and Part 5

Government:

NA

EUMED:

NA

OTHERS:

NA