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|----------------------|-------------------------------|
| CERTIFICATE NUMBER   | 22-2313856-PDA                |
| EFFECTIVE DATE       | 03-Jan-2023                   |
| EXPIRY DATE          | 02-Jan-2028                   |
| 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:** Insulation Material for Fire Prevention  
**Model:** Class A-60 Aluminium Bulkhead  
**Endorsements:**  
**Tier:** 3 - Type Approved, unit certification not required

This Product Design Assessment (PDA) Certificate remains valid until 02/Jan/2028 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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DK-2640 HEDEHUSENE

Denmark

Telephone: +31 475 353915

Fax:

Email: math.mourmans@rockwool.com

Web: www.rockwool-rti.com

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

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**Product:** Insulation Material for Fire Prevention

**Model:** Class A-60 Aluminium Bulkhead

**Endorsements:**

**Intended Service:**

Fire Protection Bulkhead

**Description:**

Composed of Aluminium bulkhead insulated on both sides with minimum 2 layers of 30 mm mineral wool type Rockwool SeaRox SL 620 of density 100 kg/m<sup>3</sup>. Stiffeners are covered all around with 2 layers of same wool. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300/400 mm according to drawings. Insulation on both sides.

**Rating:**

A-60

**Service Restriction:**

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

**Comments:**

1. The Manufacturer has provided a declaration about the control of, or lack of Asbestos in this product.
2. Unless specifically 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 2020, as amended.
3. In those instances where flag administration may have their own specific requirements, flag Administration's approval may be required.

**Notes/Drawing/Documentation:**

RINA Test Report no. 2009CS01950/3, dated 17 Feb 2009

**Terms of Validity:**

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## STANDARDS

**ABS Rules:**

ABS Rules for Conditions of Classification 2022: 1-1-4/7.7, 1-1-A3 & A4

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ABS Rules for Conditions of Classification - Offshore Units and Structures 2022: 1-1-4/9.7, 1-1-A2 & 1-1-A3

**National:**

NA

**International:**

IMO FTP Code Resolution A.754(18) (adopted 4th Nov 1993)

Revalidated in accordance with section 5.2 of IMO Resolution MSC.307(88) (adopted on 3 December 2010) - 2010

FTP Code

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA



|                      |                               |
|----------------------|-------------------------------|
| CERTIFICATE NUMBER   | 22-2313856-PDA-DUP            |
| EFFECTIVE DATE       | 03-Jan-2023                   |
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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,  
India, 392130**

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:** Insulation Material for Fire Prevention  
**Model:** Class A-60 Aluminium Bulkhead  
**Endorsements:**  
**Tier:** 3 - Type Approved, unit certification not required

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

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Web: www.rockwool-searox.com

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

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**Product:** Insulation Material for Fire Prevention

**Model:** Class A-60 Aluminium Bulkhead

**Endorsements:**

**Intended Service:**

Fire Protection Bulkhead

**Description:**

Composed of Aluminium bulkhead insulated on both sides with minimum 2 layers of 30 mm mineral wool type Rockwool SeaRox SL 620 of density 100 kg/m<sup>3</sup>. Stiffeners are covered all around with 2 layers of same wool. The bulkhead insulation is mounted with standard 3 mm steel pins and 38 mm steel clips (spring washers) at intervals of approx 300/400 mm according to drawings. Insulation on both sides.

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**Notes/Drawing/Documentation:**

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**STANDARDS**

**ABS Rules:**

ABS Rules for Conditions of Classification 2022: 1-1-4/7.7, 1-1-A3 & A4

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NA

**International:**

IMO FTP Code Resolution A.754(18) (adopted 4th Nov 1993)

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FTP Code

**Government:**

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**EUMED:**

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**OTHERS:**

NA