



CERTIFICATE NUMBER  
17-LD1605640-PDA

DATE  
24 Apr 2017

ABS TECHNICAL OFFICE  
London Engineering Department

# CERTIFICATE OF DESIGN ASSESSMENT

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

## ROCKWOOL INTERNATIONAL A/S

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: **Fire Protection Bulkhead**

Model: **Steel Bulkhead H-120**

This Product Design Assessment (PDA) Certificate 17-LD1605640-PDA, dated 24/Apr/2017 remains valid until 23/Apr/2022 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.

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 the terms and conditions as contained in 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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Web: www.rockwool-rti.com

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

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**Product:** Fire Protection Bulkhead  
**Model:** Steel Bulkhead H-120  
**Intended Service:**  
Insulation Material for Fire Prevention of Bulkheads

### Description:

The bulkhead consists of a standard structural steel core insulated with Rockwool insulation. The insulation is fixed to the bulkhead using pins and washers. The insulation on the level is 40 mm Rockwool SeaRox WM 660 (exposed surface), & 50 mm Rockwool SeaRox SL 660. The insulation on the stiffeners are 40 mm Rockwool SeaRox WM 660 (exposed surface) & 50 mm Rockwool SeaRox SL 660. The insulation is fixed to the bulkhead with 3mm steel pins and 28mm washer as per customer drawings and instruction manual.

### Rating:

H-120

### Service Restriction:

1. Unit Certification is not required for this product. 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.
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 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 1974, 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:

Tested by Danish Institute of Fire and Security Technology test report No. PG11959 Serial No. 11811 Ref. ABR/DHL Dated 18th December 2008. To certify the non-combustibility of the mineral wool the following documentation was provided: Rockwool HC Wired Matt 150: Test report no. PF13007, testing date 2008-11-25, & Test report no. PF12961b, testing date 2008-09-23, issued by DBI according to IMO Resolution MSC 61(67) Annex 1 Part 1 (IMO Resolution A.799 (19)). Smoke and/or flame penetration test was carried out according to the demands in IMO Resolution A.754 (18).

### Terms of Validity:

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**STANDARDS**

**ABS Rules:**

ABS Rules for Condition of Classification 2017- Steel Vessels, Steel Vessels Under 90 M, Offshore Support Vessels: 1-1-4/7.7, 1-1-A3 & A4; High Speed Craft : 1-1-4/11.9, 1-1-A3 & A4

ABS Rules for Condition of Classification -Offshore Units and Structures 2017 - Mobile Offshore Drilling Units: 1-1-4/9.7, 1-1-A2 & 1-1-A3

**National:**

NA

**International:**

IMO FTP Code Resolution A.754(18), performance criteria and hydrocarbon time / temperature relationship specified in EN 1363-2

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  
17-LD1605640-PDA-DUP

DATE  
24 Apr 2017

ABS TECHNICAL OFFICE  
London Engineering Department

# CERTIFICATE OF DESIGN ASSESSMENT

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

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

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: **Fire Protection Bulkhead**

Model: **Steel Bulkhead H-120**

This Product Design Assessment (PDA) Certificate 17-LD1605640-PDA-DUP, dated 24/Apr/2017 remains valid until 23/Apr/2022 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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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:** Fire Protection Bulkhead

**Model:** Steel Bulkhead H-120

**Intended Service:**

Insulation Material for Fire Prevention of Bulkheads

**Description:**

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**Rating:**

H-120

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### **National:**

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IMO FTP Code Resolution A.754(18), performance criteria and hydrocarbon time / temperature relationship specified in EN 1363-2

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