



CERTIFICATE NUMBER
17-LD1605636-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: **Insulation Material for Fire Prevention**

Model: **Non-Load Bearing Cladding System H-60**

This Product Design Assessment (PDA) Certificate 17-LD1605636-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

HOVEDGADEN 584

DK-2640 HEDEHUSENE

Denmark

Telephone: +31 475 353915

Fax:

Email: rti.export@rockwool.com

Web: www.rockwool-rti.com

Tier: 3 - Type Approved, unit certification not required

Product: Insulation Material for Fire Prevention
Model: Non-Load Bearing Cladding System H-60
Intended Service:
Insulation Material for Fire Prevention of Bulkheads

Description:

H-60 Non-Load Bearing Cladding System - Type: 1,5 mm thick Profiled Steel Plate Insulated on One Side (exposed surface) with 40mm "Rockwool SeaRox SL 660" (50 mm thick, 150 kg/m³ density) and "Rockwool SeaRox WM 660" (40 mm thick, 150 kg/m³ density).

Rating:

H-60

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. Each Product is to be supplied with its manual for installation and maintenance.
2. Approved for use as a non-load bearing fire retarding division of class H-120. Restricted Application of Fire Against insulated side Only.
3. 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:

For the Non-Load Bearing Cladding System H-60: Danish Institute of Fire and Security Technology (DBI), Test Report No. PG11997, Serial No. 11855, dated 21 January 2009

Please note: this report is applicable for H-120 constructions and therefore covers for H-60 constructions as well.

For the HC Marine Firebatts 150: Danish Institute of Fire and Security Technology (DBI), Test Report No. PF 13293, Serial No. 12515, dated 15 June 2010.

For the HC Marine Wired Mats 150: Danish Institute of Fire and Security Technology (DBI), Test Report No. PF 13007, Serial No. 11822, dated 25 November 2008.

Terms of Validity:

This Product Design Assessment (PDA) Certificate 17-LD1605636-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

ROCKWOOL INTERNATIONAL A/S

HOVEDGADEN 584

DK-2640 HEDEHUSENE

Denmark

Telephone: +31 475 353915

Fax:

Email: rti.export@rockwool.com

Web: www.rockwool-rti.com

Tier: 3 - Type Approved, unit certification not required

manufacturer and intended client.

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 Resolution A. 754(18) (adopted on 4 Nov 1993), 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-LD1605636-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: **Insulation Material for Fire Prevention**

Model: **Non-Load Bearing Cladding System H-60**

This Product Design Assessment (PDA) Certificate 17-LD1605636-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).

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).

ROXUL ROCKWOOL INSULATION INDIA PVT. LTD.

PLOT Z/4 DAHEJ SEZ

DAHEJ, DISTRICT BHARUCH GUJARAT

India 392130

Telephone: +91 610835284

Fax:

Email: math.mourmans@rockwool.com

Web: www.rockwool-searox.com

Tier: 3 - Type Approved, unit certification not required

Product: Insulation Material for Fire Prevention
Model: Non-Load Bearing Cladding System H-60
Intended Service:
Insulation Material for Fire Prevention of Bulkheads

Description:

H-60 Non-Load Bearing Cladding System - Type: 1,5 mm thick Profiled Steel Plate Insulated on One Side (exposed surface) with 40mm "Rockwool SeaRox SL 660" (50 mm thick, 150 kg/m³ density) and "Rockwool SeaRox WM 660" (40 mm thick, 150 kg/m³ density).

Rating:

H-60

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. Each Product is to be supplied with its manual for installation and maintenance.
2. Approved for use as a non-load bearing fire retarding division of class H-120. Restricted Application of Fire Against insulated side Only.
3. 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:

For the Non-Load Bearing Cladding System H-60: Danish Institute of Fire and Security Technology (DBI), Test Report No. PG11997, Serial No. 11855, dated 21 January 2009

Please note: this report is applicable for H-120 constructions and therefore covers for H-60 constructions as well.

For the HC Marine Firebatts 150: Danish Institute of Fire and Security Technology (DBI), Test Report No. PF 13293, Serial No. 12515, dated 15 June 2010.

For the HC Marine Wired Mats 150: Danish Institute of Fire and Security Technology (DBI), Test Report No. PF 13007, Serial No. 11822, dated 25 November 2008.

Terms of Validity:

This Product Design Assessment (PDA) Certificate 17-LD1605636-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).

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

ROXUL ROCKWOOL INSULATION INDIA PVT. LTD.

PLOT Z/4 DAHEJ SEZ

DAHEJ, DISTRICT BHARUCH GUJARAT

India 392130

Telephone: +91 610835284

Fax:

Email: math.mourmans@rockwool.com

Web: www.rockwool-searox.com

Tier: 3 - Type Approved, unit certification not required

manufacturer and intended client.

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 Resolution A. 754(18) (adopted on 4 Nov 1993), 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