



## Certificate Of Fire Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

<b>Manufacturer</b>	<b>Rockwool International A/S</b>
<b>Address</b>	Hovedgaden 501, 2640 Hedehusene, Denmark
<b>Type</b>	A-30 Deck
<b>Description</b>	Fire Resisting 'A' Class Deck – Type: “Class A30 Deck SeaRox FB 6050” steel deck insulated underside with one layer of rockwool insulation material (30mm thick, 70 kg/m <sup>3</sup> density)
<b>Trade Name</b>	“Class A30 Deck SeaRox FB 6050”
<b>Specified Standard</b>	IMO Res. MSC.307(88) - (2010FTP Code) Annex 1 Part 3 IMO MSC.1/Circ.1435

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register North America, Inc. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

1330 Enclave Parkway, Houston, Texas, 77077,  
United States

**Bruce McDonald**

Technical Authority - Statutory to Lloyd's  
Register North America, Inc.  
A member of the Lloyd's Register group

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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23133276SF**

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

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This Certificate is a Renewal of Certificate Number SAS F170066.

**APPROVAL DOCUMENTATION**

Rockwool Technical Insulation Drawing No. R-015, dated 2015-06-02.

**TEST REPORTS**

Danish Institute of Fire and Security Technology, Jernholmen 12, DK-2650 Hvidovre, Denmark; Test Report No. PGA10662 dated 3rd June 2015.

**CONDITIONS OF CERTIFICATION**

1. When used in conjunction with an approved A Class deck.
2. A-60 steel deck insulation system 'Class A30 Deck SeaRox FB 6050' consisting of: steel deck insulated on underside with one layer of rockwool insulation "SeaRox FB 6050" (30mm thick, 70 kg/m<sup>3</sup> density), manufactured by Rockwool Technical Insulation, applied on the steel plate, stiffeners insulated with three layers of rockwool insulation "SeaRox FB 6050" (30mm thick, 70 kg/m<sup>3</sup> density) inside stiffeners, and one layer of rockwool insulation "SeaRox FB 6050" (30mm thick, 70 kg/m<sup>3</sup> density) surrounding the outside of the stiffeners in 3 strips of 100mm, 140mm and 100mm width. Total thickness of the insulation is 70mm.
3. Insulation on the steel plate retained by 3mm diameter steel pins and 30mm diameter washers at maximum 300mm horizontal, 500mm staggered vertical, 300mm diagonal centres and 125mm from insulation joints with 2 pin rows, 125mm from insulation joints with 1 pin rows. Insulation strip mounted on external face of stiffener parallel to deck face retained with steel pins and washers at 200mm centres.
4. Maximum width of insulation blankets following installation: 1000mm.
5. Insulation fixing method should be same as tested arrangement in all cases.
6. Composition and application of insulation material to be maintained in production and use in accordance with originally tested composition formula and method of application, and manufacturer's instructions.
7. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.



**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23133276SF**

8. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products, whether manufactured by themselves or their licensee manufacturers, if agreed by Lloyd's Register, are fully compliant with the relevant statutory regulations and Lloyd's Register Class rules as applicable and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.

**PLACES OF PRODUCTION**

**Rockwool A/S**

Moss  
Trondheim  
Norway

**Roxul Asia Sdn. Bhd.**

75450 Melaka  
Malaysia

**Rockwool Hungary**

8300 Tapolca  
Hungary

**Rockwool BV**

NL-6045 JG Roermond  
The Netherlands

**Rockwool Peninsular S.A.U.**

E-31380 Caparros  
Spain

**Rockwool a.s.**

735 31 Bohumin 3  
Czech Republic

**Rockwool Ltd**

Pencoed  
Bridgend  
Wales, CF35 6NY  
United Kingdom

**Roxul Rockwool Insulation India Pvt. Ltd.**

Plot - Z/4, Dahej SEZ, Dahej  
District Bharuch - 392 130  
Gujarat  
India

**Deutsche Rockwool GmbH & Co. OHG**

Ruhrstrasse 13  
DE-86633  
Neuburg a.d. Donau  
Germany

**Rockwool A/S**

Rockwoolvej  
Ø Doense  
DK-9500 Hobro  
Denmark

**Rockwool A/S**

Industrivej  
DK-6580 Vamdrup  
Denmark

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**Supplementary Type Approval Terms and Conditions**

*This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s)*

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