

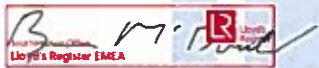
## CERTIFICATE OF TYPE APPROVAL ISSUED ON BEHALF OF TRANSPORT CANADA

This is to certify that

The product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations with regards to 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 Transport Canada to issue the relevant certificates, licences, permits etc.

<b>Manufacturer</b>	Rockwool International A/S
<b>Address</b>	Hovedgaden 501 2640 Hedehusene Denmark
<b>Type</b>	A-30 DECK
<b>Description</b>	Fire-Resisting 'A' Class Deck - Type "Steel Deck A30 with SeaRox FB6050 or FM 6030"
<b>Specified Standard</b>	IMO Res. MSC.307(88) - (2010 FTP Code) Annex 1 Part 3

The attached Design Appraisal Document forms 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.

<b>Date of issue</b>	20 March 2017	<b>Expiry date</b>	19 March 2022
<b>Certificate No.</b>	LRTC 0000133	<b>Signed</b>	 Lloyd's Register EMEA
<b>Sheet No</b>	1 of 3	<b>Name</b>	B. McDonald Surveyor to Lloyd's Register EMEA A Member of the Lloyd's Register Group

**Note:**

**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 of any modification or changes to the equipment in order to obtain a valid Certificate.**

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's  
Register

**Lloyd's Register EMEA**

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email [med@lr.org](mailto:med@lr.org)

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**DESIGN APPRAISAL DOCUMENT**

Date 20 March 2017	Quote this reference on all future communications SOUTSO/SFS/TA/BM/WP28748470
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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LRTC 0000133**

This Design Appraisal Document forms part of the Certificate.

**APPROVAL DOCUMENTATION**

Danish Institute of Fire and Security Technology, Jernholmen 12, DK-2650 Hvidovre, Denmark; Test Report PG10769A dated 5<sup>th</sup> Jan 2016

**CONDITIONS OF CERTIFICATION**

1. When used in conjunction with an approved A Class deck
2. Consisting of: steel deck insulated on underside with one layer of (30mm thick, 70 kg/m<sup>3</sup> density) "SeaRox FB 6050" applied on the steel plate and retained by steel pins and washers at maximum 250mm horizontal x 250mm staggered vertical centres and 125mm from insulation joints with 2 pin rows, 125mm from insulation joints with 1 pin rows. Stiffeners insulated with three layers of (30mm thick, 70 kg/m<sup>3</sup> density) "SeaRox FB 6050" inside stiffeners, and one layer of (30mm thick, 70 kg/m<sup>3</sup> density) "SeaRox FB 6050" surrounding the outside of the stiffeners in 3 strips of 100mm, 100mm and 140mm width. Insulation strip mounted on external face of stiffener parallel to bulkhead face retained with steel pins and washers at 200mm centres. Steel pins 3mm diameter, steel washers 30mm diameter or
3. Consisting of steel deck insulated on underside with one layer (30mm thick of 50Kg/m<sup>3</sup> density Sea Rox FM 6030 ALU mats. The insulation is finished with an aluminium foil. Insulation is secured with a washer and pin arrangement which is at 300mm centres horizontally and 500mm centres vertically, each 2<sup>nd</sup> row is offset by 250mm. The insulation is wrapped around the deck stiffeners
4. 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
5. All instructions or markings that accompany life-saving appliances or are printed directly on the appliances must be in both English and French, as per Canadian procedures for approval of life-saving appliances and fire safety systems, equipment and products document no. TP 14612E (05/2011) paragraph 2.2.1.3. However independent signage can be accepted in lieu of the instructions or marking required in paragraph 2.2.1.3 if it is in both English and French, highly visible (size, colour, posting location), water and weather proof and posted at each muster station and where the appliance is stored
6. 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

**PLACES OF PRODUCTION**

Rockwool A/S  
Moss  
Trondheim  
Norway

Roxul Asia Sdn. Bhd.  
75450 Melaka  
Malaysia

Rockwool Hungary  
8300 Tapolca  
Hungary



Lloyd's  
Register

**Lloyd's Register EMEA**  
71 Fenchurch Street, London, EC3M 4BS  
Telephone 020 7423 2416 Fax 020 7423 2053  
Email med@lr.org

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**ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LRTC 0000133**

Rockwool BV  
NL-6045 JG Roermond  
The Netherlands

Rockwool Peninsular S.A.U.  
E-31380 Caparroso  
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



Bruce McDonald  
TSC Manager - Americas, Marine  
Lloyd's Register Americas  
Lloyd's Register EMEA

**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).*

