



Marine & Offshore

Certificate number: 59412/A0 MED

File number: AC1000/353/041

Item number: MED/3.11a

USCG Module B number: 164.105 / EC2690

This certificate is not valid when presented without the full attached schedule composed of 7 sections
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2019/1397 of 06 Aug. 2019

This certificate is issued to:

Rockwool International A/S

Hedehusene - DENMARK

for the type of product

"A" CLASS DIVISIONS, DECKS, FIRE INTEGRITY

A-30 Class Steel Deck insulated with SeaRox FB 6040 or SeaRox FB 6050 or SeaRox SL 620
(partly insulated stiffeners)

Requirements:

SOLAS 74 convention as amended, Regulations II-2/9, II-2/3.2

IMO Res MSC.307(88) -(2010 FTP Code)-

IMO MSC/Circ.1120, IMO MSC.1/Circ.1434 and IMO MSC.1/Circ.1435

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.

This certificate will expire on: 13 Dec 2024**For Bureau Veritas Marine & Offshore Notified Body 2690,**

At BV FREDERICIA, on 13 Dec 2019,

Jesper JENSEN



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

A-30 Class Steel Deck insulated with SeaRox FB 6040, SeaRox FB 6050 or SeaRox SL 620 (partly insulated stiffeners)

Composed of steel deck insulated with a minimum of 35 mm thick mineral wool "**SeaRox FB 6040**" (nominal density 60 kg/m³) or "**SeaRox FB 6050**" (nominal density 70 kg/m³) or "**SeaRox SL 620**" (nominal density 100 kg/m³). The steel deck stiffeners are only insulated minimum 200 mm down from the steel deck plate.

The insulation is fixed to the deck by means of 3 mm diameter pins in combination with 30-38 mm diameter steel clips (spring washers).

- Maximum distance between pins on the stiffeners: 300 mm
- Maximum distance between pins on the steel deck (between stiffeners): 300 mm

The design of the steel deck must comply with the followings:

- Minimum vertical stiffener length: 200 mm
- Minimum thickness of stiffener: 6.0 mm
- Maximum thickness of stiffener: 10.0 mm
- Maximum horizontal length of stiffener: 250 mm
- All exposed material can be reduced from a T-profile with a maximum horizontal length of 250 mm to a L-profile with a maximum horizontal length of 105 mm and to no horizontal part.

2. DOCUMENTS AND DRAWINGS:

As per the Manufacturer's drawings N° 2019002 dated 04/03/2019.

3. TEST REPORTS:

3.1 - Test report N° PGA11442A rev.00 dated 18/07/2019, as per IMO 2010 FTP Code Annex 1 Part 3, from DBI, Denmark.

3.2 - Technical assessment N° PHA11225A dated 09/08/2019, from DBI, Denmark (alternative insulation rock wool and deck stiffener designs).

4. APPLICATION / LIMITATION:

4.1 - The insulating materials "**SeaRox FB 6040**", "**SeaRox FB 6050**" and "**SeaRox SL 620**" shall comply with the requirements of MED 2014/90/EU, as amended, and be wheelmarked.

4.2 - The fitting aboard to be the same as used for the test.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - For information concerning the production phase modules, **Rockwool International A/S** has declared the following manufacturing sites:

LLC ROCKWOOL-NORTH
3/5 Promyshlennaya str.
Vyborg, Vyborg district,
Leningrad region, 188800
Russian Federation

ROXUL-ROCKWOLL
Insulation India Pvt. Ltd.
Plot - Z/4, Dahej SEZ, Dahej,
District Bharuch
India

Rockwool Peninsular, SAU,
Pol. Industrial de Caparroso,
Ctra. Zaragoza, Km. 53,5, N-121
Caparroso
Spain

Rockwool A/S
Industrivej 9
6580 Vamdrup
Denmark

Rockwool B.V.
Industrieweg 15
6045 JG Roermond
The Netherlands

Roxul USA, Inc.
4594 Cayce Rd
Byhalia
USA

Rockwool International A/S
Hovedgade 584
2640 Hedehusene
DENMARK

6. MARKING OF PRODUCT:

6.1 - Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

6.2 - In pursuance of the EU/US MRA+, and in accordance with the Council Decision 2004/425/EC of 21 April 2004, the product(s) marked as per MED 2014/90/EU may be marked with the USCG conformity marking as authorized by the Notified Body undertaking surveillance module.

7. OTHERS:

It is **Rockwool International A/S**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

*** END OF CERTIFICATE ***