

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

## This is to certify:

**That the Surface materials and floor coverings with low flame-spread characteristics:  
decorative veneers**

with type designation(s)

**SeaRox / ProRox insulation with surface materials**

Issued to

**Rockwool International A/S  
HEDEHUSENE, Denmark**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2015/559,**

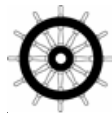
**Annex A.1, item No. A.1/3.18a and Annex B, Module B in the Directive; SOLAS 74, Reg. II-2/3, II-2/5, II-2/6, II-2/9 & X/3, IMO MSC/Circ. 1120, 2000 HSC Code 7 and IMO 2010 FTP Code**

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2018-12-06**.

Issued at **Høvik** on **2016-11-21**

DNV GL local station:  
**Copenhagen**



for **DNV GL AS**

Approval Engineer:  
**Fryderyk Hoga**

Notified Body  
No.: **0575**

**Vidar Dolonen**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



## Product description

"SeaRox / ProRox insulation with surface materials"

Stone wool marketed under the trade names of SeaRox and ProRox in forms of slabs, mats, wired mats, lamella mats and pipe sections, having a density from 32 - 180 kg/m<sup>3</sup>.

Trade names: SeaRox and ProRox according to the given Non-combustibility certificate.

The base insulation material consisting of stone wool of different density tested and approved non-combustible types.

The insulation is faced with either reinforced aluminium foil with glass net, or aluminium foil. The aluminium foil is glued to the insulation with use of a polyethylene adhesive or stitched to the insulation.

Glass vlies (approx. 60 gr/m<sup>2</sup>) or glass scrim 10x10 mm applied to the insulation by resin binder.

"SeaRox Acoustic Foil" wrapped around mineral insulation covered by perforated 1 mm steel plate.

White glass cloth "GW200" of approx. 200 gr/m<sup>2</sup>. The glass cloth is glued to the insulation with use of a silicate based adhesive.

Laminate of white glass cloth and aluminium foil with aluminium on the outside, "ALU-G", or with glass cloth on the outside, "GW-A". The laminate is glued to the insulation with use of a silicate based adhesive.

## Application/Limitation

Approved for use as low flame spread surface material, not generating excessive quantities of smoke nor toxic products in fire.

Approved for use as decorative veneer on a any metallic substrate or non-combustible substrate.

Any adhesive used, other than the one used during testing, has to be tested for low flame spread characteristics according to IMO 2010 FTP Code part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

The product satisfies the requirement for maximum calorific value (ref. Solas Chapter II-2, Reg 5.3.2.2) without further testing.

Each product is to be supplied with its manual for installation, use and maintenance.

## Type Examination documentation

Test report Nos.: PFB10047c (SeaRox MA 720 ALU) dated 30 November 2012, PFB10083 (SeaRox SL 620 ALU) dated 16 August 2013, PFB 10079b (ProRox PS 960 ALU) dated 6 August 2013 and PFB10042 (SeaRox Acoustic Foil) dated 31 July 2012, PFB10195D (SeaRox SL 480 ALU) dated 12 January 2016, PFB10207A (SeaRox SL 470 GW 200) dated 25 April 2016, PFB10207B (SeaRox SL 470 ALU-G) dated 27 April 2016, PFB10207C (SeaRox SL 470 GW-A) dated 28 April 2016, PFB10182C (SeaRox FM 6030 ALU) dated 8 December 2015 all from "DANAK" Danish Institute of Fire and Security Technology.

## Tests carried out

Tested according to IMO 2010 FTP Code part 5 and Annex 2 item 2.2.

## Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, the MED Mark of Conformity and USCG approval number if applicable (see first page).