

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 Non-combustible materials

with type designation(s)

ROCKFIBRAS PNR 32-250/ 32-250 AL, ROCKFIBRAS ISOTUBO-N/ N-AL, ROCKFIBRAS MNT 32-128

Issued to

Rockfibras do Brasil Industria e Comercio Ltda
Guararema SP, Brazil

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

Regulation **(EU) 2017/306,**

item No. MED/3.13. SOLAS 74 as amended, Regulation II-2/3 II-2/5, II-2/9 & X/3, 2000 HSC Code 7 and IMO 2010 FTP Code

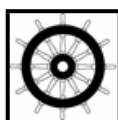
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-08-20**.

Issued at **Høvik** on **2017-08-21**

DNV GL local station:
Approval Centre Brazil

Approval Engineer:
Tomasz Werchowicz



Notified Body
No.: **0575**

for **DNV GL AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Rockfibras PNR 32-250/ 32-250 AL, Rockfibras Isotubo N/ N-AL, Rockfibras MNT 32-128"

Rockfibras PNR 32-250/ 32-250 AL:

Mineral wool of density between 32 kg/m³ to 250 kg/m³, with or without aluminium foil.

Nominal thickness: 25 mm to 100 mm.

Rockfibras Isotubo N/ N-AL:

Pipe sections of mineral wool of density 140 kg/m³, with or without aluminium foil.

Rockfibras MNT 32-128:

Mineral wool mat of density between 32 kg/m³ to 128 kg/m³, with or without wire mesh on one side.

Application/Limitation

Approved for use as non-combustible material.

The product may be used as an integrated part of approved fire resisting divisions only when tested as such.

Insulation material with surface layer have to be approved for low flame spread characteristics (test for surface flammability) according to the Marine Equipment Directive and bear the Mark of Conformity.

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

Type Examination documentation

Test reports:

- No. 962 669-203,
- No. 962 670-203,
- No. 962 671-203,
- No. 962 672-203,
- No. 962 673-203,
- No. 962 74-203,
- No. 962 675-203,

all dated 21st September 2007.

Test reports:

- No. 979 557-203,
- No. 979 556-203,
- No. 979 555-203,
- No. 979 624-203,
- No. 979 553-203,
- No. 979 554-203,

all dated 27 August 2008.

Test report No. 979 625-203 dated 29th August 2008.

All reports are from Laboratorio de Seguranca ao Fogo/CETAC/IPT, San Paulo, Brasil.

Tests carried out

Tested according to IMO FTPC Part 1 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

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