EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00008W6

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 AS under the authority of the Government of Norway.

This is to certify:

that the Non-combustible materials

with type designation(s)
Non-combustible materials

issued to
KNAUF INSULATION d.o.o.
Novi Marof, Varaždinska, Croatia

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2023/1667,**
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 **2029-05-05**.

Issued at **Høvik** on **2024-05-06**

DNV local unit:
Rijeka

Approval Engineer:
Karolina Kusmider

Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
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, and amended by Decision No 1/2023 dated August 21st, 2023.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description

Glass mineral wool insulation materials with or without aluminium foil, bonded with formaldehyde-free binder.

Products names [1)]	Nominal Density [kg/m^3]	Organic content [%]	Description
GB	24	≤ 6,7	Glass mineral wool board
GB Pro	34		
GB 015 - 035	15 - 35		
RL	19	≤ 6,1	Glass mineral wool roll
RL Pro	34		
RL 015 - 035	15 - 35		
GB ALU	24		Glass mineral wool board with aluminium foil facing
GB Pro ALU	34		
GB 015 - 035 ALU	15 - 35		
RL ALU	19	≤ 6.5	Glass mineral wool roll with aluminium foil facing
RL Eco ALU	25		
RL Pro ALU	34		
RL 015 - 035 ALU	15 - 35		

General note:
1) All product names have always one of the following prefixes: Sea-teK, Power-teK, Thermo-teK, Fire-teK, Sound-teK.

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 report No.FTST23328-rev1 dated 15 May 2023, Efectis Era Avrasya, Dilovası,Turkey. (Unfaced Roll 15kg/m^3),
Test report No FTST23330-rev1 dated 15 May 2023, Efectis Era Avrasya, Dilovası,Turkey. (Unfaced Slab 35 kg/m^3)
Test report No FTST23332-rev1 dated 15 May 2023, Efectis Era Avrasya, Dilovası,Turkey. (Unfaced Slab 15 kg/m^3)
Test report No FTST23334-rev1 dated 15 May 2023, Efectis Era Avrasya, Dilovası,Turkey. (Unfaced Roll 35 kg/m^3)
Test report No FTST23336-rev1 dated 15 May 2023, Efectis Era Avrasya, Dilovası,Turkey. (Alufaced Roll 35 kg/m^3)
Test report No FTST23338-rev1 dated 15 May 2023, Efectis Era Avrasya, Dilovası,Turkey. (Alufaced Roll 15 kg/m^3)
Test report No FTST23340-rev1 dated 15 May 2023, Efectis Era Avrasya, Dilovası,Turkey. (Alufaced Slab 35 kg/m^3)
Test report No FTST23342-rev1 dated 15 May 2023, Efectis Era Avrasya, Dilovası,Turkey. (Alufaced Slab 15 kg/m^3)
Test report No. EUFI29-20002144-T1 dated 16 April 2020 from Eurofins Expert Services Oy, Espoo, Finland. (Thermo-teK RL Eco ALL)

Tests carried out

Tested according to IMO 2010 FTP Code Part 1.

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).