TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB00009DE

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 Fire Doors

with type designation(s)
AM B-15 Fire Door dB (LRU) Single Leaf

issued to
Antti-Teollisuus Oy
Kanunki, **Finland**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511, IMO MSC.1/Circ.1319

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

This Certificate is valid until **2030-02-27**.

Issued at **Høvik** on **2025-02-28**

DNV local unit:
Finland CMC

Approval Engineer:
Helge Bjørnarå

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

"AM B-15 Fire Door dB (LRU) Single Leaf",
a single leaf hinged door with single handle opening consisting of 24 mm mineral wool ULTIMATE U SeaProtect Slab 66 (density 66 kg/m^3, manufactured by Saint-Gobain Isover) in the middle and 12 mm stone wool Rockwool SeaRox SL488 (density 220 kg/m^3, manufactured by Rockwool) on the sides. Insulation is covered with 0.7 mm perforated steel sheets on both sides. The steel sheets are fixed to the insulation with an adhesive.

Total thickness of door leaf: 50 mm.

A top panel of height 250 mm and thickness 57 mm, insulated with mineral wool ULTIMATE U SeaProtect Slab 66 (density 66 kg/m^3, manufactured by Saint-Gobain Isover), was placed over the door leaf.

The door frame is made of 1 mm steel and fixed to the bulkhead with screws Ø4.8x19 (6 pcs per side). The door leaf is fitted with three hinges.

The door leaf may be fitted with:
- a card reader.
- a chromed peephole.

For further details, see drawings listed under Type Examination documentation.

Application/Limitation

Approved for use as an integrated part of fire retarding division of class B-15.

Maximum size of door frame including top panel:	1080 mm x 2390 mm (W x H).
Maximum size of door leaf:	1033.5 mm x 2110 mm (W x H).
Maximum size of clear opening of door:	1000 mm x 2100 mm (W x H).

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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

Type Examination documentation

Test report No. EUFI29-24001707-T1 dated 24 October 2024 from Eurofins Expert Services, Espoo, Finland.

Drawing No. D947024 version B dated 25 February 2025 from manufacturer.
Drawing No. D947021 dated 4 June 2024 from manufacturer.
Drawing No. D946994 dated 4 June 2024 from manufacturer.
Drawing No. D946984 dated 4 June 2024 from manufacturer.
Drawing No. D947018 dated 4 June 2024 from manufacturer.
Drawing No. D947175 dated 13 June 2024 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product 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).