

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:  
**MEDB00005JR**  
Revision No:  
**2**

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)  
**B-15 single hinged door**

issued to  
**Oy Saajos International Ltd.**  
**Lohja, 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**

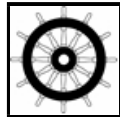
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2030-02-24**.

Issued at **Høvik** on **2025-02-25**

DNV local unit:  
**Finland NB**

Approval Engineer:  
**Tessa Bieber**



Notified Body  
No.: **0575**



for **DNV AS**

Digitally Signed By:  
**Christine Mydlak-Röder**  
Location: **DNV Høvik, Norway**  
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**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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

'B-15 single hinged door'

A single leaf hinged door composed of an insulating core of 39 mm type "SeaRox SL980" stone wool slab with density of 150 kg/m<sup>3</sup> (manufactured by Rockwool A/S) with on each side with 0.8-1.0 mm steel sheets fixed by means of an adhesive. The door leaf is equipped with 3 pcs. of hinges and door lock.

Total thickness of door leaf: 40 mm

The door frame is composed of 1.5 mm thick steel and filled with 2 x 50 mm thick mineral wool type "SeaRox SL620" with density of 100 kg/m<sup>3</sup> (manufactured by Rockwool A/S). Four (4) self-drilling screws 6,3 x 32 mm are used to fasten the door frame to the bulkhead. Top part of frame extends max. 270mm in height

The door may be fitted with:

- In the upper part of the door: Window, Ø420 mm, 16 mm thick fire glass, model "Pyrobel 16 EI30" from AGC-Pyrobel, insulated with ceramic sealing Keraband 3 x 9 mm.
- In the lower part of the door: Ventilation louver, 420 mm x 208 mm (W x H).
- Lock: VingCard essence RFID or similar design.
- In the upper part of the door: Peep hole.

For further details, see the drawings mentioned under Type Examination documentation below.

## Application/Limitation

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

Max. size of door leaf:	1140 mm x 2130 mm (W x H)
Max. size of clear opening:	1100 mm x 2100 mm (W x H)
Max. clear window opening:	Ø400 mm
Max. size of ventilation grille:	420 mm x 208 mm (W x H)

A fire door of marginally larger dimensions than a fire-tested fire door may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED 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 and maintenance.

## Type Examination documentation

Test Report No. 992-24TMAU-IMO/R dated 2025-02-13 from TÜV Eesti OÜ, Maardu, Estonia.

Drawing No. SA-29254 Rev. B dated 17 January 2025 from manufacturer.

## Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

The door has been successfully tested with extended test period of 36 minutes.

## 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 the first page).

## USCG approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm<sup>2</sup>, or less, in each door leaf. Doors with a window area exceeding 645 cm<sup>2</sup> are not part of this certificate and need direct USCG approval.