

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB0000256**  
Revision No:  
**1**

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 Double Hinged Door**

Issued to

**Oy Saajos International Ltd.**  
**Lohja, Finland**

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

Regulation **(EU) 2021/1158**,  
**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**

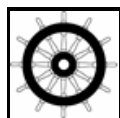
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-01-24**.

Issued at **Høvik** on **2022-01-25**

DNV local station:  
**Finland NB**

Approval Engineer:  
**Kristin Grønnæss**



Notified Body  
No.: **0575**

for **DNV AS**

**Sverre Olav Bergli**  
**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 1/2019 dated February 22nd, 2019.



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 Double Hinged Door"

consists of double door leaf (equal sized) composed of insulating core of 50 mm "PAROC Marine Slab LO150" (density 150 kg/m<sup>3</sup>, manufactured by Paroc Group Oy) faced on both sides with 0.8 mm thick steel sheets. The insulation is glued to the steel sheets by the means of adhesive. Both sides of the lock case are insulated with gypsum boards (density 672 kg/m<sup>3</sup>, manufactured by Renotech Oy).

Total door leaf thickness is 52 mm.

The door leaves are fixed to a four-sided door frame with 3 hinges. The four-sided door frame is constructed of 1.5 mm thick steel and is fixed to the bulkhead by means of screws (6.3x38mm, c/c max. 670mm) and pop-rivets (4x8 mm, c/c max. 300 mm). The sill is a U-profile and the top piece of the door frame extends max. 620 mm in height and is fixed to the vertical parts of the door frame by welding. The inside of the door frame is insulated with "PAROC Marine Slab 80" (density 80 kg/m<sup>3</sup>, manufactured by Paroc Group Oy).

The door may be fitted with:

- Window in the upper part of both door leaves with thickness of 16 mm (type "Contraflam EI30", manufactured by VetroTech Saint-Gobain).
- Ventilation grille of max. size 420 x 208 mm (W x H) in the lower part of the door leaves.
- Lock case ASSA Abloy VingCard Essence RFID or electrical lock case of similar design.
- Door viewer ("peephole") HMA 30-50mm D15 by HMA or of similar design.

For further details, see drawing listed under Type Examination documents below.

## Application/Limitation

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

Max. clear opening: 2310 x 2400 mm (W x H)  
Max. size of each door leaf: 1169 x 2424 mm (W x H)  
Max. clear opening of each window: Ø 400 mm

The insulation materials and any surface materials used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

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.

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

## Type Examination documentation

Test report No. EUFI29-21003466-T1 dated 11 October 2021 from Eurofins, Espoo, Finland.

Drawing No. SA-28643 C dated 4 October 2021 from manufacturer.

## Tests carried out

Tested according to IMO 2010 FTP Code part 3.

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

## 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).

## 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. For larger windows, USCG shall be contacted.