EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00008EF
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)
B15 Single leaf sliding door

issued to

Oy Saajos International Ltd.
Puistokatu 21
08150 Lohja
Finland

is found to comply with the Implementing Regulation **(EU) 2025/1533** for
Item no. **MED/3.16** (Row **1 of 1**)
according to the following requirements:
SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1511

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

Date of issue: **2026-07-14**

Expiry date: **2028-10-15**

for **DNV AS**

DNV local unit:
Finland CMC

Approval Engineer:
Meike Grabau

Notified Body no.: **0575**

Christine Mydlak-Röder
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.

NORWEGIAN ACCREDITATION PROD 019

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"B15 Single leaf sliding door"
The door leaf is insulated with 50 mm thick stone wool slabs Rockwool SeaRox SL980 (manufacturer Rockwool S/A) of nominal density 150 kg/m³.
Both sides of the insulation layer are covered with steel sheets of thickness 0.9 mm ±0.2 mm . The mineral wool is fixed to the steel sheets with an using Kiilto Fireproof 10 adhesive. The outer edges of the door leaf as well as the outer edges of glazing cut out are framed with strips of Renotech Dens Glass Gold Board of thickness 12.7 mm, manufactured by Renotech Oy.

Total thickness of door leaf: 52 mm.

The door frame is made of 2 mm thick steel plates and is fastened to the bulkhead with 4.2 mm x 13 mm self-drilling screws spaced approximately 450 mm apart. The rollers are connected above the door leaf to a slide rail of type Mantion 9040. Steel L-profile (trim list) of 70 mm x 44 mm dimensions is mounted to the edges of door leaf (opening edge and horizontal top edge) which interlace with the frame L-profiles. The door is tested and approved without the sill.

The door leaf may be fitted with:
• Glazing of 16 mm thickness, located in the upper part of the door leaf (type Contraflam EI30, manufactured by Vetrotech Saint-Cobain),
• Ventilation grille mounted in the lower part of the door leaf (symmetric) GSV5786 200 cm²,
• Recessed handles on both sides of the door leaf,
• Lock case.

Further details on the door construction and materials used are included in the documents listed below under Type Examination documentation.

Application/Limitation

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

Maximum door leaf size: 1710.5 mm x 2432.5 mm (W x H)
Maximum clear door opening: 1610 mm x 2396 mm (W x H)
Maximum ventilation grille size: 420 mm x 208 mm (W x H)
Maximum clear glazing opening: Ø400 mm

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength evaluations related to watertightness, weathertightness, etc.).

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.

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

USCG approval limitations: The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.

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

Type Examination documentation

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 Mark of Conformity and USCG Approval Number if applicable (see first page).