

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008EF

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.
Lohja, Finland

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

Regulation **(EU) 2023/1667**,

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

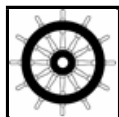
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-10-15**.

Issued at **Høvik** on **2023-10-16**

DNV local unit:
Finland NB

Approval Engineer:
Izabela Misztal



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 1/2023 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 Sliding Fire Door"

The door leaf is insulated with 50 mm thick stone wool slabs Paroc Marine Slab LO150 of nominal density 150 kg/m³. Both sides of the insulation layer are covered with steel sheets of thickness 0.9 mm ($\pm 0,1$ mm), manufactured by Paroc Group Oy. The mineral wool is fixed to the steel sheets with an approved 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.

The total thickness of door: 52 mm.

The door frame is made of 1.5 mm thick steel plates and is fastened to the bulkhead with 4.2 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 Manton 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,
- 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.

Max. size of door leaf:	1900.5 x 2432.5 mm (W x H)
Max. size of door clear opening:	1800 x 2396 mm (W x H)
Max. size of ventilation grille:	420 x 208 mm (W x H)
Max. size of glazing clear 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 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, use and maintenance.

Type Examination documentation

Test report No. EUFI29-22005679-T1 dated 03 March 2023 from Eurofins Expert Services Oy, Espoo, Finland.

Test report No. EUFI29-22004964-T1 dated 19 December 2022 from Eurofins Expert Services Oy, Espoo, Finland.

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 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 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.