# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
**MEDB00007GD**

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)
**Class A-60 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) 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 **2026-09-07**.

Issued at **Høvik** on **2021-09-08**

DNV local station:
**Finland NB**

Approval Engineer:
**Karolina Kusmider**

Notified Body
No.: **0575**

for **DNV AS**
Digitally Signed By: Øyvind Hoff
Location: DNV Høvik, Norway
on behalf of

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

## Product description

"Class A-60 single leaf sliding door"
The door leaf is composed of insulating core made of 60 mm thick stone wool slabs Paroc Marine Slab LO150 with nominal density of 150 kg/m$^3$ (manufactured by Paroc), covered with 0.9 mm thick steel plate on both sides.
The insulation is glued to the steel sheets by means of adhesive.

The inside perimeter of the door leaf as well as both sides of the lock were framed with strips of 60±2 x 96±2 mm Renotech Dens Glass Gold Board, manufacturer Renotech Oy.

Total door leaf thickness is 62 mm.

Door frame is constructed with 3 mm thick steel plate and is welded to the bulkhead.

The steel suspension track Mantion 9040 above door leaf is fixed to the bulkhead with 6 pieces of 9 mm thick steel fastening pieces and 6 pieces holders Mantion 9041 with spacing approx. 500 m. The door leaf hung from the roller track with 2 pcs of suspension rollers Mantion 9242.Two lower guide rollers are mounted to sill below the door leaf and an upper guide Type "Saajos".

The door is fitted with a lock WSS1-199 and steel lock counterpart.

The door may be fitted with a hose port in the corner in the lower part of the door leaf.

For further details refer to the test reports listed under Type Examination documentation below.

## Application/Limitation

Approved for installation in steel bulkheads of class A-60. Installation of the door in bulkheads made of other materials (aluminum, FRP, etc.) are subject to case-by-case approval.

| | |
|---|---|
| Max. clear opening of door: | 2480 mm x 2382 mm (W x H) |
| Max. size of door leaf: | 2687 mm x 2504 mm (W x H) |
| Max. clear opening of hose port: | 235 mm x 178 mm (W x H) |

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.

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.

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.).

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

## Type Examination documentation

Test Report No. EUFI29-21001548-T1, dated 21 April 2021 from Eurofins Expert Services Oy, Espoo, Finland
Test Report No. EUFI29-21000360-T1, dated 3 March 2021 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 73 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).