

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL AS under the authority of the Government of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
B-15 Cabin Door HNR 45dB WFD109

Issued to
Oy Saajos International Ltd.
Lohja, Finland

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
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

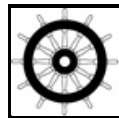
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-10-21**.

Issued at **Høvik** on **2019-10-22**

DNV GL local station:
Finland CMC

Approval Engineer:
Tessa Bieber



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

B-15 Cabin Door HNR 45dB WFD109, consisting of a single leaf three hinged door, with door leaf made from 0.8 mm steel sheet on each side of an insulating core of 10 mm mineral wool slices of the type "Paroc Marine Slab 220" (density 220 kg/m³) with extra 0.8 mm steel sheets inside. The insulation is glued to the steel plates. Door frame is formed by 1,5 mm steel sheets filled with mineral wool in the hollow, which may be fastened with screws to the bulkhead panel.

Total door leaf thickness is 52 mm

The door may be fitted with:

- VingCard electronic lock HES 7000-24D (702 option) including, Trioving Signature RFID – ANSI, electronic lock (steel) with Gypsum lock case.
- Peephole, Fiskostar type (steel and glass).
- An integrated door closer (steel).

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. clear opening: 1100 mm x 2100 mm (W x H)
Max. size door leaf: 1130 mm x 2119 mm (W x H)

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.

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

Type Examination documentation

Test report No. 470-14TMU-IMO dated 2014-04-03 from TÜV Eesti OÜ Testing Laboratory, Maardu, Estonia (fire test report of Cabin Door).

Test report No. VTT-S-5425-07 dated 2007-06-21 from VTT Technical Research Centre of Finland (reference testing of electronic lock HES 7000-24D).

Drawings No. AW14002-1 dated 2014-03-06 from the manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

The door has been successfully tested with extended test period of 37 minutes.

Marking of product

The product is to be marked with name and address of manufacturer, type designation and fire-technical rating, MED Mark of Conformity and USCG approval number if applicable (see first page).