

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 the Kingdom of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
B15 Cabin Door HNR 39 dB

Issued to
Oy Saajos International Ltd.
LOHJA, Finland

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

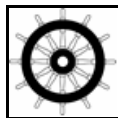
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-06-01.**

Issued at **Høvik** on **2017-06-02**

DNV GL local station:
Turku

Approval Engineer:
Ginevra Giustiniani



Notified Body
No.: **0575**

for **DNV GL AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-006910-1**
Certificate No: **MEDB00002MD**

Product description

"B15 Cabin Door HNR 39 dB"

Is a single-leaf hinged door composed of an insulation core made of two layers of mineral wool, each 25 mm thick, of type "Marine Fire Slab 110" and nominal density 110 kg/m³ (manufactured by Paroc Group Oy), with a 0.7 mm thick perforated steel sheet (max. Ø2 mm and c/c 3.5 mm) between the two mineral wool layers. The insulation core is fitted with a 0.75 mm thick steel sheet on unexposed side, and 0.75 mm thick steel sheet on exposed side (bonded with adhesive).

Total thickness of the door leaf: 52 mm.

The door is connected to the frame with 3 steel hinges. The frame is four sided with independent sill, and is composed of 1.5 mm thick steel filled with mineral wool (same as above) and fixed to bulkhead with 12 steel screws. The frame panel over the door leaf is of height 225 mm and thickness 100 mm.

The door may be fitted with an integrated door closer.

For further details see test reports and drawings under Type Examination documentation listed below.

Application/Limitation

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

Max. size of clear opening: 1100 mm x 2100 mm (W x H)

Max. size of door leaf: 1130 mm x 2116 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. 633-16TMU-IMO, dated 22 March 2017 from TÜV Eesti OÜ of Estonia.

Drawing No. SA-27506 A, dated 26 October 2016 from Saajos Oy.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

The door has been successfully tested with extended test period (28 minutes for the insulation criterion and 37 minutes for the integrity criterion), in compliance with IMO MSC.1/Circ. 1319.

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 page 1).