

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007GR

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)
A-60 Single Leaf Hinged Door with or without Additional Frame

Issued to

Parmarine Oy
LEPPÄVIRTA, 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 **2027-05-09**.

Issued at **Høvik** on **2022-05-10**

DNV local station:
Finland CMC

Approval Engineer:
Helge Bjørnara



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 1/2019 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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

"A-60 Single Leaf Hinged Door with or without Additional Frame" consists of a door leaf composed of an insulating core of 60 mm thick "Paroc Marine Slab LO150" (density 150 kg/m³, manufactured by Paroc Group Oy) faced with 1.0 mm steel sheets. The insulation is glued to the steel sheets with adhesive "Keernaliima Nopea" (4.5 kg/m², manufactured by Kiilto Oy).

Total thickness of door leaf: 62 mm

The door leaf is fixed to a U-frame with 4 hinges. The U-frame is made of 3.0 mm thick steel and welded or bolted (M10x25, c-c- 200 mm) to the bulkhead or the Additional Frame. The U-frame cavity is insulated with "Paroc Marine Slab LO 150" (density 150 kg/m³, manufactured by Paroc Group Oy).

The 300 mm long Additional Frame (C-profile) is made of 3 mm steel welded or bolted (M10x25, c-c 200 mm) to the steel bulkhead. The Additional Frame is insulated on exposed side with two layers of 60 mm thick "Paroc Marine Wired Mat 100" (density 100 kg/m³, manufactured by Paroc Group Oy).

The door leaf may incorporate:

- Hose port clear opening 150 x 150 mm (W x H) located in lower corner and made from same composition as door and attached with a piano hinge and concealed spring.

For further details see drawings/test report listed under Type Examination documentation below.

Application/Limitation

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

Restricted application: mounted on unexposed side only

Max. clear opening: 1250 x 2400 mm (W x H)

Max. size of each door leaf: 1294 x 2415 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. EUFI29-21005475-T1 dated 17 December 2021 from Eurofins, Espoo, Finland.

Drawing No. SA60S_21-0000, Rev. A, dated 13 December 2021 from manufacturer.

Drawing No. SA60S_21_0001, Rev. A, dated 13 December 2021 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

The door has been successfully tested for extended test period of 75 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).