

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007GN

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 Sliding Door

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 **2026-09-15**.

Issued at **Høvik** on **2021-09-16**

DNV local station:
Finland NB

Approval Engineer:
Kristin Grønnæss



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 Sliding Door"

is a single leaf sliding door consisting of door leaf made of 1.0 mm thick zinc electro coated steel sheets and insulated with 60 mm thick stone wool slabs of type "Paroc Marine Slab LO150" (density 150 kg/m³, manufactured by Paroc). The insulation was fixed to the steel sheets by the means of glue. The door leaf is mounted on a roller track in the upper part of the door.

The total thickness of door leaf is 62 mm.

A sill tightener consisting of two steel bars and a steel disk is mounted on the bottom of the door leaf to seal the bottom gap between the door leaf and the sill. The steel disk may be omitted when the door leaf width is less than 1600 mm.

The three-sided door frame is made of 4 mm thick zinc electro coated steel profiles welded to the bulkhead. Intumescent sealant strips are mounted to the three-sided door frame towards the rear and upper edge of the door leaf, in addition to both sides of the door leaf on the closing/front edge of the door.

The door may be fitted with a hose port of maximum size 150 mm x 150 mm.

For further details, see drawings listed under Type Examination documentation.

Application/Limitation

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.

Maximum door leaf size: 3131 x 2481 mm (W x H).

Maximum clear door opening: 3000 x 2400 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.

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

Type Examination documentation

Test report No. EUFI29-20005258-T1 dated 8 December 2020 from Eurofins, Espoo, Finland.

Test report No. EUFI29-21000828-T1 dated 5 March 2021 from Eurofins, Espoo, Finland.

Statement report No. EUFI-2921003399-T1 dated 19 August 2021 from Eurofins, Espoo, Finland.

Drawing No. LA60S_21_0001 (p. 1-6/10) dated 17 February 2021 from maker.

Drawing No. LA60S_21_0001 (p. 7-10/10) dated 26 February 2021 from maker.

Drawing No. LA60S_21_0001 (p. 7.1/10) dated 4 April 2021 from maker.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

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).