

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)
A-60 single leaf sliding door type GR

Issued to

PARMARINE LTD.
LEPPÄVIRTA, Finland

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

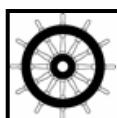
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-09-07**.

Issued at **Høvik** on **2019-09-08**

DNV GL local station:
Finland CMC

Approval Engineer:
Helge Bjørnarå



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"A-60 single leaf sliding door type GR",
is a sliding door made of three layers of Glasroc F marine gypsum boards (6+10+6 mm). Two layers of 20 mm thick rock wool, of type Paroc Slab LO 150 (150 kg/m³) are installed between the boards. Hexagonal wire mesh (0.7 mm) are installed around the rock wool. The rock wool is glued to the boards with an adhesive. The joints of the gypsum boards are with an cellulose polyester strip. The edge of the door leaf is fitted with a two steel profiles.

Total door leaf thickness: 62 mm

The door leaf is mounted on a roller guide in upper part of the door.

The door may be fitted with a hose port if maximum size: 150 mm x 150 mm

For further details, please see drawings mentioned 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.

Maximum clear opening: 3500 mm x 2700 mm (WxH)

Maximum size of door leaf: 3588 mm x 2755 mm (WxH)

The door has been successfully tested with extended test period in compliance with IMO MSC.1/Circ.1319.

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. VTT-S-00569-13 dated 21 March 2013 from VTT Expert Services LTD, Espoo, Finland.

Test Report No. VTT-S-01243-14 dated 19 March 2014 from VTT Expert Services LTD, Espoo, Finland.

Statement No. VTT-S-03407-14 dated 4 July 2014 from VTT Expert Services LTD, Espoo, Finland.

Drawing no. LA60SGR_0001 (5 pages) dated 11 July 2014 from Parmarine Oy Ltd.

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.