TYPE EXAMINATION CERTIFICATE – EC MODULE B

Certificate no.:
MEDB000098X

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)
Fire Door, Model F

issued to
LMG Finland Oy
EURA, **Finland**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2024/1975,**
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 **2030-01-09**.

Issued at **Høvik** on **2025-01-10**

DNV local unit:
Finland CMC

Approval Engineer:
Meike Grabau

Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
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 1/2023 dated August 21st, 2023.

NORWEGIAN ACCREDITATION PROD 019

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

"Fire Door, Model F"
is a class A-60 single-leaf hinged stainless steel fire door.

The door leaf consists of 90 mm mineral wool insulation core, 6 mm gypsum plasterboards Glasroc Marine on both sides, covered by 1.25 mm thick stainless-steel plates on both sides. The mineral wool Isover Ultimate U SeaProtect Slab 56 Alu 1 is produced by Saint-Gobain Isover G+H with 56 kg/m³ nominal density. The Glasroc Marine boards are produced by Saint-Gobain Portugal with measured density of 1076 kg/m³ and are glued to the steel plates by an approved adhesive.

Total door leaf thickness: 106 mm.

The door leaf is installed at one side with three stainless-steel STUV Maxiflex hinges. On the other side a lock device Jumbo 6001 provided by Rahrbach is fitted at half height. The counterpart on exposed side is a stainless-steel safety opener, provided by LMG Finland. Around the door leaf, two parallel intumescent seals Technoflame 2 mm x 10 / 15 mm are installed to the door leaf rebates. Below the door leaf, 2 mm thick stainless-steel protecting profile is screwed to the bottom edge of the door leaf, including an intumescent seal Technoflame 2 mm x 25 mm.

The door frame is a three-sided door frame made by 1.25 mm thick stainless-steel profiles 50 mm x 135 mm and insulated with mineral wool Isover Ultimate U SeaProtect Slab 56 Alu 1 and a small strip of Glasroc Marine board on the clear opening side. In the frame, a stainless-steel hatch for connection box is installed. Inside the frame, there is a ø12 mm copper pipe. The frame is fixed to the opening of the A-class bulkhead by screws (M6 x 30 mm) spaced maximum 150 mm apart. The door frame is equipped with silicone compound sealing FP-R, produced by FinnProfiles. On the exposed side of the frame there is a Techoflame 2 mm x 10 mm intumescent seal.

The door sill is made of 2 mm thick stainless-steel profile 50 mm x 88 mm and insulated with mineral wool Isover Ultimate U SeaProtect Slab 56 Alu1. Inside the sill, there is a ø12 mm copper pipe. The sill is mounted to the bulkhead with screws (M6 x 30 mm), spaced maximum 150 mm apart.

For further details refer to the documents listed under "Type Examination documentation" below.

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: 1336 mm x 2037 mm (W x H)
Maximum clear door opening: 1250 mm x 2000 mm (W x H)

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED 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.

The door has been successfully tested for extended test period of 74 minutes.

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

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength evaluations etc.).

Type Examination documentation

Test report no. EUFI29-24002525-T1 dated 20 June 2024 from Eurofins Expert Services Oy, Espoo, Finland.

Tests carried out

Tested according to IMO 2010 FTP Code Annex 1, 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).