EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007SG

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)
262WDL022-00 Type Class A-60 Double-leaf Fire Door

Issued to
Wuxi MNET Equipment Tech Co., Ltd.
Wuxi, Jiangsu, China

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 **2026-04-19**.

Issued at **Høvik** on **2022-04-20**

DNV local station:
Jiangyin NB & CMC

Approval Engineer:
Thorvald Furuseth

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"262WDL022-00 Type Class A-60 Double-leaf Fire Door"
A door construction consisting of double leafed steel door in a steel frame.

The door leaves are composed of 1.5 mm thick stainless steel plate + 8 mm thick fireproof board YB type (manufactured by Suzhou Youlian Marine Equipment Co., Ltd. with density of 1000 kg/m^3) + 52 mm thick ceramic wool TG-II type (manufactured by Yixing Ocean Ship Material Co., Ltd. with density of 170 kg/m^3) + 6 mm thick stainless steel plate.

Adhesive type PAPU-30 manufactured by Jingjiang Green Functional Materials Co., Ltd. is used for the fixation of insulation material.

The door leaves are fitted with 3 hinges on each side (6 hinges in total) fixed to the door frame which is welded to the bulkhead. The lock device and handle are installed on the door leaves. By turning the handle, 10 rollers are driven respectively to lock the door leaves and door frame. Door leaves are provided with 45 mm x 20 mm fireproof seal strip and fireproof seal tape 20 mm x 4 mm and have internal reinforcement by 3 pieces of L52 mm x 50 mm x8 mm.

The door may be fitted with two glass observation windows one on each door leaf, (manufactured by Qinhuangdao Yaohua Glass Co., Ltd.) with total thickness of 53 mm (25 mm thick fireproof layer, 16 mm thick hollow layer and 12 mm toughened glass) in the upper part of the door leaves.

Total thickness of door leaf: 67.5 mm.

The four-edge door frame is made by L75 mm x 50 mm x 8 mm angle steel. The door frame is welded to the bulkhead.

For further details, see the test report and 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.

Max. clear opening:	2000 mm x 2300 mm (w x h)
Max. size of left door leaf:	1032.53 mm x 2365 mm (w x h)
Max. size of right door leaf:	1095.5 mm x 2365 mm (w x h)
Max. clear opening of window:	400 mm x 600 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.

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

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

Type Examination documentation

Test report No. FT20217 dated 17 August 2020 from Far East Fire Testing Centre, Shanghai, China.

Drawing Nos.:
- 262WDL022-00 dated 19 June 2020,
- 262WDL022-00-NHBZ dated 19 June 2020,
- 262WDL022-01 dated 19 June 2020,
- 262WDL022-02 dated 19 June 2020,
- 262WDL022-03 dated 19 June 2020,
- 262WDL022-04 dated 19 June 2020,

All from Wuxi Delin Marine and Ocean Technology (Group)Co.,Ltd., Wuxi, China

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).

USCG Approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm^2, or less, in each door leaf. For larger windows, USCG shall be contacted.