# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
**MEDB00007S2**

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 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 **2027-04-19**.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"A-60 FIRE DOOR"
A door construction consisting of single leafed steel door in a steel frame.
The door leaf is composed of 1.5 mm thick steel plate + 8 mm thick inorganic fireproof board YB type (manufactured by Suzhou Youlian Ship Fitting Co., Ltd. with nominal density of 1200 kg/m$^3$) + 41 mm thick ceramic wool TG-II type (manufactured by Yixing Marine Insulation Material Factory with nominal density of 170 kg/m$^3$) + 8 mm thick inorganic fireproof board (the same as above) + 1.5 mm thick steel plate. Insulation material is fixed by means of adhesive.

The door may be fitted with a fire hose in the lower part of the door leaf and a glass observation window (manufactured by Yixing City Yushi Special Glass Co., Ltd.) with total thickness of 40 mm (8 mm toughened glass + 20 mm fireproof solution + 12 mm toughened glass) in the upper part of the door leaf.

The door leaf is fitted with 3 hinges along one vertical edge and at the other edge a steel door lock. The door frame is formed by 1.5 mm and 4 mm thick steel plates with ceramic wool insulation filled in the cavity and is to be bolted or welded to the bulkhead.

Total thickness of door leaf: 60 mm

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. size of door leaf: | 1473 x 2451 mm (W x H) |
| Max. clear opening of door leaf: | 1400 x 2400 mm (W x H) |
| Max. fire hose opening size | 150 x 150 mm (W x H) |
| Max. clear opening of window: | 400 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.

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

## Type Examination documentation

Test report No. FT09160 dated 29th July 2009 from Far East Fire Testing Centre, Shanghai, China.

Drawing Nos.:
- 262WHL653-00 (3 pages) dated 20th April 2010,
- 262WHL653-03 (1 page) dated 20th April 2010,
- 262WHL651-01 (1 page) dated 20th April 2010,
- 262WHL653-FW dated 20th April 2010,

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

## Tests carried out

Tested according to IMO FTP Code Part 3 and in compliance with IMO 2010 FTP code ch.8.

## 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 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.