

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007SC

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-0 Class 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-0 class fire door"

is a single-leaf fire door composed of:

- 1.5 mm thick steel plate,
- An insulating core of 67 mm thick ceramic wool of TG-2 type (manufactured by Yixing Marine Insulation Material Factory with nominal density 170 kg/m³),
- 1.5 mm thick steel plate.

The insulation material inside the door leaf is fixed by adhesive.

Total door leaf thickness is 70 mm.

The four-sided door frame is made from 4 mm and 1.5 mm thick steel plates and is fastened to the bulkhead with M8 x 46 screws spaced maximum 150 mm apart. There is a fillet of 20 x 20 mm installed at one side perimeter of door frame.

The door leaf may be fitted with an observation window constructed from 34 mm fireproof glass YS-A60 type, consisting of 6 mm toughened glass, 16 mm fireproof solution and 12 mm toughened glass, (manufactured by Qinhuangdao City Haigang District Yuehua Industrial Technical Factory). Further, there is a fireproof door lock CT-Z type from Nantong Huijiang Locks Co., Ltd, installed at the door leaf, located 1100 mm from the bottom. The door leaf is attached to the door frame by three 4" hinges. The door leaf is reinforced internally with four vertical and two horizontal steel stiffeners.

For further details refer to the test reports listed under Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class A-0. Installation of the door in bulkheads made of other materials (aluminium, FRP, etc.) are subject to case-by-case approval.

Maximum size of a door leaf:	1176 x 2276 mm (W x H)
Maximum clear opening:	1100 x 2200 mm (W x H)
Maximum clear opening of an observation 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 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.

Note that this is a fire safety certificate which only covers fire technical properties (i.e. does not cover any evaluation related to watertightness, weathertightness etc.).

Type Examination documentation

Test Report No. FT14274 dated 2014-10-09 from Far East Fire Testing Centre, Shanghai, China.

Drawing No. 262WHL032-00 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 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.