

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007S9

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)
A60 Fireproof 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

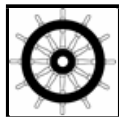
Further details of the equipment and conditions for certification are given overleaf.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"A60 Fireproof door"

A single leafed hinged door composed of (from exposed side) 1.5 mm steel plate + 8 mm thick fireproof board, type YB (manufactured by Suzhou Youlian Ship Fitting with nominal density of 975 kg/m³), + 65 mm thick ceramic wool, type TG-II (manufactured by Yixing Marine Insulation Material Faxtory with nominal density of 170 kg/m³), + 8 mm thick steel plate. The door is reinforced with 65 x 8 mm steel bar as the lateral stiffeners. The door frame is made of 10 mm steel plates and welded to the bulkhead.

Total door leaf thickness: 82.5 mm.

The door has three hinges and a central handwheel on both sides and 10 closing devices connected to the handwheel.

The door is fitted with a window constructed of toughened glass and fireproof glass (58 mm) manufactured by Qinhuangdao Haigang District Yuehua Industrial Technology Glass Factory. The door and window are fitted with Neoprene fire retardant rubber gaskets and fireproof seal strips.

For further details, see documentation 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: 1271 x 2371 mm (W x H)

Max. clear door opening: 1200 x 2300 mm (W x H)

Max. clear window opening: Ø 400 mm

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

The insulation materials 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.

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

Type Examination documentation

Test Report No. FT11130 dated 30th June 2011 from Far East Fire Testing Centre, Shanghai, China.

262WHL041-00 dated 12th August 2011 from Wuxi Delin Marine and Ocean Technology (Group)Co.,Ltd., Wuxi, China.

262WHL041-01 dated 12th August 2011 from Wuxi Delin Marine and Ocean Technology (Group)Co.,Ltd., Wuxi, China.

262WHL041-02 dated 12th August 2011 from Wuxi Delin Marine and Ocean Technology (Group)Co.,Ltd., Wuxi, China.

262WHL041-03 dated 12th August 2011 from Wuxi Delin Marine and Ocean Technology (Group)Co.,Ltd., Wuxi, China.

262WHL041-04 dated 12th August 2011 from Wuxi Delin Marine and Ocean Technology (Group)Co.,Ltd., Wuxi, China.

Tests carried out

Tested according to IMO FTPC 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, MED Mark of Conformity and USCG 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.