EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007SA

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)
Class B-15 Panel Installed Fire Door (262WHL006S-00)

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

'Class B-15 Panel Installed Fire Door (262WHL006S-00)'
is a single leaf hinged door with a door leaf composed of 1.0 mm thick steel sheets on both sides of an insulation core of rockwool type 'LYB' (manufactured by Yixing Ocean Ship Material Cpo. Ltd. with a density of 100 kg/m^3, max. nominal organic content 4%). The steel sheets are glued to the rock wool with adhesive.
A layer of 1 mm thick stainless steel material was rimmed at the perimeter of the door leaf. The door leaf is attached to the door frame by three hinges installed on one side of the door leaf and on the other side of the door leaf a fireproof lock is installed.

Total door leaf thickness: 36 mm

The door leaf can be installed with a glazed unit in the upper half of the door leaf, composed of (from exposed side) 6 mm thick toughened glass + 20 mm thick fire proof solution + 8 mm thick toughened glass (manufactured by Qinhuangdao City Haigang District Yuehua Industrial and Technical Glass Factory).

The door leaf is stiffened by two (2) vertical and four (4) horizontal stiffeners. For details please see drawing no.262WHL006S-02-0.

The door frame is made of a 1.5 mm thick four sided steel plate (hollow inside) with external size 1280 mm x 2680 mm x 50 mm (w x h x d) – including top panel and sill. At the inside perimeter of the door frame a continuous groove of 13 mm x 6 mm is filled with a fire proof strip (manufactured by Hebei DeBang Special Sealing strip Co., Ltd). At the top of the door frame a panel of 1280 mm x 280 mm x 50 mm (w x h x d) is installed.

The door may be installed with a escape and ventilation louvre in de lower half of the door leaf with clear opening: 420 mm x 520 mm (w x h).

The two sides of the door frame were bolted to the bulkhead by a connection profile.

For further details see test report and drawing listed under Type Examination documentation.

Application/Limitation

Approved for use as an integrated part of fire retarding division of class B-15.

Max. size of door leaf:	1223 mm x 2307 mm (w x h)
Max. clear opening of door leaf:	1200 mm x 2300 mm (w x h)
Clear light opening glazing:	400 mm x 600 mm x 34 mm (w x h x d)

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. FT17088 dated 15th May 2017 from Far East Fire Testing Center, Shanghai, China.

Drawing Nos.:
- 262WHL006S-01-0 (Door frame), rev.0 dated 2017-02-09
- 262WHL006S-02-0 (Door leaf), rev.0 dated 2017-02-09
- 262WHL006S-03-0 (Window), rev.0 dated 2017-02-09
- 262WHL006S-04-0 (Assembly escape/ventilation louvre), rev.0 dated 2017-02-09
- 262WHL006S-05-0 (Joint profile), rev.0 dated 2017-02-09

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

Tests carried out

Tested in accordance with IMO 2010 FTP Code Part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire-technical rating, the MED Mark of Conformity (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.