EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000805

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 A60 Class Electric Sliding Fire door"

with type designation(s)
A60 Class Electric Sliding 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 **2027-07-06**.

Issued at **Høvik** on **2022-07-07**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 Class Electric Sliding Fire door"
A single leafed sliding door composed of a door frame, door leaf, pulley device, locking arrangement and sealing materials.

The door leaf is composed of 1.5 mm thick steel plate, 8 mm thick fireproof board of type YB (manufactured by Yixing marine Insulation Material Co. Ltd with density 1000 kg/m^3), 36 mm thick ceramic wool of type TG-II (manufactured by Suzhou Youlian Marine Fitting Co. Ltd with density 170 kg/m^3), 8 mm thick fireproof board of type YB (manufactured by Yixing marine Insulation Material Co. Ltd with density 1000 kg/m^3) and 1.5 mm thick steel plate. The insulation is glued to the steel sheets by means of adhesive.

The door leaf is fitted with 4 vertical stiffeners and frame made of 3 mm steel U-profile. Guide rail bracket is welded on top of the door leaf. Fireproof expansion seal strips 20 x 4 mm (manufactured by Reddiplex) fitted at the underside of the door leaf profile.

Total door leaf thickness is 55 mm.

The four-sided door frame is composed of 1.5 mm thick steel plate insulated with ceramic wool of type TG-II (manufactured by Suzhou Youlian Marine Fitting Co. Ltd with density 170 kg/m^3) and bolted to the steel bulkhead with M8X30 mm with maximum distance 115 mm (side) and 150 mm (top). Fireproof expansion seal strips 20 mm x 4 mm (manufactured by Reddiplex) fitted around the frame towards the door leaf.

Pulley device is protected with profile composed of 1.5 mm thick steel plate insulated with, 8 mm thick fireproof board of type YB (manufactured by Yixing marine Insulation Material Co. Ltd with density 1000 kg/m^3)

The door is fitted with a lock (Type J) and steel lock counterpart (manufactured by Wuxi MNET Equipment Tech Co. Ltd).

The door may be fitted with a hose port of maximum size 150 x 150 mm.

For further details see approved drawing listed under Type Approval documentation.

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.

Maximum door clear light opening:	2820 x 2460 mm (W x H)
Maximum door leaf size:	2855 x 2492 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.

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

Type Examination documentation

Test report No. 2021210742-E dated 14 January 2022 from NFTC, Chengdu, China.
Test report No. 2021211049-E dated 14 January 2022 from NFTC, Chengdu, China.

Drawing No. 262WDL080-00 dated 2 February 2021 from manufacturer.
Drawing No. 262WDL080-01-00 dated 2 February 2021 from manufacturer.
Drawing No. 262WDL080-04-00 dated 2 February 2021 from manufacturer.
Drawing No. 262WDL080-00-BZ dated 2 February 2021 from manufacturer.
Drawing No. 262WDL080-04-00-CW dated 14 May 2021 from manufacturer.

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).