EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00009AX

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 ‘A’ and ‘B’ class fire proof windows and side scuttles

with type designation(s)
261WDL009-00 Type Class A60 Fireproof Openable Rectangular Window

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) 2024/1975,**
item No. MED/3.25. SOLAS 74 as amended, Regulation II-2/9, IMO MSC/Circ.1120 and IMO 2010 FTP Code, IGC Code 3

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

This Certificate is valid until **2030-01-19**.

Issued at **Høvik** on **2025-01-20**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Joanna Kowalczuk

Notified Body
No.: **0575**

for **DNV AS**

Mydlak-Röder, Christine
Head of Notified Body

NORWEGIAN ACCREDITATION PROD 019

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"261WDL009-00 Type Class A-60 Fireproof Openable Rectangular Window"
is a rectangular multilayer fire window constructed of window frame, window leaf, fireproof glass, pressure plate and seal material:

- Multilayer A-60 fire window produced by Qinhuangdao Yaohua Glass Co., Ltd. The fire window is composed of 25 mm thick toughened glass (5 mm thick tempered glass, 5 mm thick fire layer,5 mm thick tempered glass, 5 mm thick fireproof layer and 5 mm thick tempered glass),12 mm thick hollow layer, 6 mm thick tempered glass, 1.52 mm thick PVB layer and 12 mm thick tempered glass.
- Sealing material: 21 mm x 14 mm FPJ-B type fire strips manufactured by HeBei Debang Special Sealing Strip and 11 mm x 10 mm seal strips manufactured by Jiangyin Haida Rubber and Plastic are used between the window frame and window lea f. 65 mm x 13 mm x 56 mm flame retardant tape manufactured by Jiangyin Dingyan Seals and SikafX291i type sealant manufactured by Sika Service AG are used between window leaf and glass.
- Pressure plate: 6 mm thick stainless steel plate fixed to the window frame by M6x16 mm stainless steel bolts spaced maximum 75 mm apart.
- Window leaf made by 45 mm thick made of stainless steel.
- Window frame is made of 80 mm x 12 mm and 45 mm x 10 mm thick welding stainless steel plates and is fixed to the bulkhead by welding. Three hinges and nice locking devices are attached to the window frame for opening and locking the fireproof window.

Total window composition thickness :56.5 mm

For further details, see also Type Examination documentation below.

Application/Limitation

The window is approved for installation in steel bulkheads of class A-60. Other applications are subject to case-by-case approval.

Restricted application: fire against press plate and 25 mm glass.

Maximum size of window: 1090 x 1090 mm (W x H).
Maximum clear light size : 1000 x 1000 mm (W x H).

The window has only been evaluated with respect to fire technical properties (e.g. strength requirements have not been considered). Arrangement and location of any window is subject to approval from relevant authorities in each case.

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

Type Examination documentation

Test report no. FT20216 dated 18 August 2020 from "FEFTC" Far East Fire Testing Centre, Shanghai, China.

Drawing No. 261WDL009-NHBZ, dated 25 March 2020 from manufacturer,
Drawing No. 261WDL009-NHBZ-TAD, dated 25 March 2020 from manufacturer,
Drawing No. 261WDL009-00, dated 25 March 2020 from manufacturer,
Drawing No. 261WDL009-01, dated 25 March 2020 from manufacturer,
Drawing No. 261WDL009-02, dated 25 March 2020 from manufacturer,
Drawing No. 261WDL009-03, dated 25 March 2020 from manufacturer,
Drawing No. 261WDL009-04, dated 25 March 2020 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 (see first page).