EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000928

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

that the 'A' and 'B' class fire proof windows and side scuttles

with type designation(s)
A60 FIREPROOF PORTHOLE

issued to
Jiangyin Marine Equipment Manufacturing Co., Ltd.
Jiangyin, 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 **2029-10-29**.

Issued at **Hamburg** on **2024-10-30**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Marta Kropiwnicka

Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
Head of Notified Body

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 SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 Porthole"
Is a fire window composed of steel window frame, glass pressure ring, fireproof glass, and sealing materials:

- Window pane assembly with total thickness of 43 mm produced by Qinhuangdao City Haigang District Yuehua Industrial Technical Factory. The fire window is composed of 15 mm thick tempered glass + 22 mm thick fireproof liquid + 6 mm thick tempered glass,
- Press ring is made of 23 mm thick steel plate,
- Window frame is made of 10 mm thick steel plate, insulated with 10 mm thick YB type inorganic fireproof core board (density 1000 kg/m^3, produced by Suzhou Youlian Ship Fitting) and fixed to the bulkhead by welding,
- One hinge is installed on the top of window frame and two or five locking devices are evenly arranged.
- Fireproof strips 20 mm x 5 mm and 10 mm x 15 mm are installed on the grooves around the window frame, produced by Jangyin Lide Decoration.

For further details, see documentation listed under Type Examination documentation.

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 6 mm tempered glass.

Maximum size of window:	Ø 460 mm
Maximum clear view size of window:	Ø 400 mm

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. AJFS2308007762RS dated 19 September 2023 from SGS-CSTC Standards Technical Services, Anji, 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 (see first page).