

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007F3

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)
261.YHS-026

Issued to

Wuxi YuanHang Marine Fittings Co.,Ltd
Wuxi, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2020/1170,
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

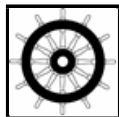
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-05-18**.

Issued at **Hamburg** on **2021-05-19**

DNV local station:
Jiangyin NB & CMC

Approval Engineer:
Roland Priebe



Notified Body
No.: **0098**

for DNV SE

.....
Christine Mydlak-Roeder
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

261.YHS-026 is a rectangular window of class A-60 with rounded corners. The glazing is of a multi-layer structure and 45 mm thick.

The glazing is composed of a 19 mm thick tempered glass + 20 mm thick fire retardant solution + 6 mm thick tempered glass.

The frame is made of steel and welded to the bulkhead. A 16 mm wide middle frame (composed of 16 mm steel + 20 mm YGB-W-0 type calcium silicate board + 16 mm steel) is screwed (M6 x 40 mm) to the frame base. A press plate (40 mm wide x 6 mm thick) is screwed (M6 x 16 mm) to the middle frame and is holding the glass in place. Between the frame and the glass as well as between the glass and the press plate a fireproof seal strip (20 mm wide x 4 mm thick) is used. Between the middle frame and the glazing an insulation of TG-II type ceramic wool was provided.

Material:

- The fireproof glass is provided by Yixing City Yushi Special Glass Co., Ltd.
- The TG-II type ceramic wool was provided by Yixing Ocean Ship Material Co., Ltd.
It is 40 mm nom. thick, has a nom. density of 170 kg/m³, ≤0.4% moisture content and ≤2.5% organic content.
- The YGB-W-0 type calcium silicate board is provided by Suzhou Weiyu Marine Materials Decoration Co., Ltd.
It is 20 mm nom. thick, has a nom. density of 720 kg/m³ and ≤7% moisture content.
- The fireproof seal strip is provided by Jiangyin Leaders Accessories Co., Ltd.

For further details refer to the documentation listed below 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.

Maximum size of window frame:	2300 mm x 1700 mm x 166 mm (W x H x D).
Maximum clear light size:	2200 mm x 1600 mm (W x H).
Maximum size of glazing unit:	2240 mm x 1640 mm (W x H).
Maximum glass thickness:	45 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 authority in each case.

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

Type Examination documentation

Test report No. FT19055 dated 2019-03-18 from Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO Res. MSC.307(88) - 2010 FTP Code, Annex 1, Part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating and MED Mark of Conformity (see page 1).