

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL 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)
class A-60 Fire Side Scuttle

Issued to

Wuxi Dongzhou Marine Equipment 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

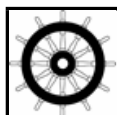
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-12-28**.

Issued at **Hamburg** on **2020-12-29**

DNV GL local station:
Jiangyin NB & CMC

Approval Engineer:
Karolina Kusmider



Notified Body
No.: **0098**

for **DNV GL 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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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 A-60 Fire Side Scuttle",

a circular window constructed of window pane, window frame, glass, clamp plate, insulation and seal materials:

- 36 mm glass assembly consisting of two glass panes (15+6 mm) with 15 mm fireproof solution in between (produced by Qinhuang Island Haigang District Yuehua Industrial Technology Glass Factory)
- the glass pane is installed in a window frame made of 16 mm thick steel profiles welded into the cut-out in the bulkhead,
- the glass is fastened to the side scuttle frame by a 10 mm thick L-shaped fire glass steel frame bolted by M6x40 to the stopper bar,
- the clamp plate is fixed to the window frame by 24 pcs M6 x 16 steel bolts and the window frame is fixed to the window seat by 15 pcs M8 x 40 steel bolts,
- insulation is a TG-II-2 type ceramic wool (density 170 kg/m³, produced by Yixing Yuanyang Ship Materials Co.,Ltd.).
- seal is fire proof strip placed between windows frame and window pane as well between window pane and clamp plate,

The window frame is fixed to the bulkhead by welding.

For further details see drawings listed under 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 fireproof glass (from the inside)

Maximum size of window:	Ø 580 mm
Maximum clear light size :	Ø 450 mm
Maximum size of glass pane:	Ø 490 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. FT15064 dated 16th March 2015 from Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO Resolution MSC.307(88) – 2010 FTP Code Annex 1, 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).