DNV·GL

Certificate No:
**MEDB00002MT**

# 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 Fire Doors**

with type designation(s)
**WDF-M17 Type Class A-60 Fire Door**

Issued to
**Wuxi Dongzhou Marine Equipment Co., Ltd**
**Wuxi, China**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
**item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511**

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

This Certificate is valid until **2022-07-26**.

Issued at **Hamburg** on **2017-07-27**

DNV GL local station:
**Jiangyin Station**

Approval Engineer:
**Pavel Golyshev**

Notified Body
No.: **0098**

for **DNV GL SE**

**Sven Dudszus**
**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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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


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## Product description

"WDF-M17 Type Class A-60 Fire Door"
A single leaf hinged fire door composed of door leaf and frame and various fittings.

The door leaf is 1271 mm wide and 2172 mm high in external size and consists of (from the side exposed to fire):

- Face sheet I: 2 mm thick steel plate
- Insulating board I: 10 mm thick YB type fireproof board (density 1000 kg/m³) manufactured by Suzhou Youlian Ship Equipment Co., Ltd
- Insulating core: 40 mm ceramic wool (two layers with each nominal 20 mm thick) of type TG-II (nominal density 170 kg/m³) manufactured by Yixing Yuanyang Ship Material Co., Ltd
- Insulating board II: 10 mm thick YB type fireproof board (density 1000 kg/m³) manufactured by Suzhou Youlian Ship Equipment Co., Ltd
- Face sheet II: 8 mm thick steel plate

Expansion type fireproof & smoke-proof seal strip of 20 mm x 4 mm (provided by Shanghai Jiar Fu Decoration Materials Co., Ltd) is fixed in the aluminium groove around the door leaf side.

Watertight rubber strip of 45 mm x 20 mm (provided by Jiangyin Haida Rubber Co. Ltd) is fixed in the continuous groove around the door leaf perimeter.

The door leaf is connected to the four-sided frame (made by 100 mm x 63 mm x 10 mm steel L-profile) by 3 steel hinges. A linkage clamping device with locking clips and hand wheel are installed at the door leaf.

The door frame is fixed to the steel bulkhead by welding.

The door may be optionally fitted with 45 mm thick fireproof glass window, provided by Qinhuang Island Haigang District Yuehua Industrial Technology Glass Factory and installed in the upper half of door leaf. The window pane is composed (from the side exposed to fire) by 19 mm toughened glass + 20 mm fireproof solution + 6 mm toughened glass.

Total thickness of door leaf: 73 mm.

The door leaf and frame have round corners. For these and other details see test report and drawing listed under Type Examination documentation below.

## 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 clear opening size: 1200 x 2100 mm (width x height).
Maximum clear view opening size of window: 450 mm in diameter.

Doors with windows shall not be fitted in the boundaries of machinery spaces of category A.

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover any evaluations related to watertightness, weathertightness etc.).

## Type Examination documentation

Test report no. FT17018 dated 13th of February 2017, issued by Far East Fire Testing Centre (FEFTC), Shanghai, China.
Drawing no. 262WDF170-00.

## Tests carried out
Tested according to IMO 2010 FTP Code (IMO Resolution MSC.307(88)) 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, MED Mark of Conformity and USCG approval number if applicable (see first page).

## USCG approval limitations
The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. Doors with a window area exceeding 645 cm² are not part of this certificate and need direct USCG approval.