

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-M19 Type Class A-60 Gastight and Watertight Fire Door

Issued to

Wuxi Dongzhou Marine Equipment Co., Ltd
Wuxi 100, 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 **2023-01-09**.

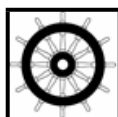
Issued at **Hamburg** on **2018-01-10**

DNV GL local station:

Jiangyin

Approval Engineer:

Roland Priebe



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

“WDF-M19 Type Class A-60 Gastight and Watertight Fire Door”
is a single leaf hinged fire door with linkage locking device and handwheel.

The door leaf consists of:

- Face sheet I: 14 mm thick steel plate
- Fireboard I: 10 mm thick inorganic fireproof board of YB type (nominal density 1000 kg/m³) manufactured by Suzhou Youlian Ship Fitting Co., Ltd.
- Insulating core: 20 mm thick TG-2 type ceramic wool (nominal density 170 kg/m³) manufactured by Yixing Marine Insulation Material Factory
- Face sheet II: 18 mm thick steel plate

Total thickness of door leaf: 136 mm.

The door leaf is connected to the frame by 3 steel hinges and is fitted with a linkage locking device and handwheel. Toggle clips are used to lock the door leaf tightly in the door frame. A fireproof seal strip is provided.

The fire door is manufactured in nine different sizes as listed below:

Clear opening size H x W x R1000	Door frame size H2 x W2 x R248	Toggle clip qty n	Clear size of window B x L
2200x1300	2496x1596	14	B = 200 – 500 L = 200 – 600
2300x1400	2596x1696	14	
2400x1500	2696x1796	16	
2500x1600	2796x1896	16	
2500x1700	2796x1996	16	
2500x1800	2796x2096	16	
2500x1900	2796x2196	16	
2500x2000	2796x2296	18	
2500x2100	2796x2396	18	

The door frame was fixed to the opening of bulkhead by welding. The door leaf opened towards the unexposed side.

The fire door had a glass window with a clear size of 500 mm wide x 600 mm high. A storm cover can be installed indoor or outdoor.

For further details, see test report and drawing listed under Type Examination documentation

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 size of clear opening: 2100 x 2500 mm (width x height).

The insulation materials and adhesives and gaskets 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.).



Job Id: **344.1-007755-1**
Certificate No: **MEDB00003MX**

Type Examination documentation

Tests carried out

Tested according to IMO 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, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).