DNV·GL

Certificate No:
MEDB00004HU

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-M25 Type A-60 fireproof sliding 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) 2018/773,**
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 **2024-01-16**.

Issued at **Hamburg** on **2019-01-17**

DNV GL local station:
Jiangyin

Approval Engineer:
Roland Priebe

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-M25 Type A-60 fireproof sliding door"
is a fireproof sliding door composed of door leaf with window, frame, sliding rails and door lock.

The door leaf is a sandwich construction of YB type inorganic fireproof plates and a core of TG-II ceramic wool. The YB type inorganic fireproof plates are made by Suzhou Youlian Marine Fitting Co., Ltd. (nominal thickness: 8 mm, nominal density: 1000 kg/m³) and the TG-II ceramic wool is made by Yixing Yuangyang Ship Material Co., Ltd. (nominal thickness: 20 mm, nominal density: 170 kg/m³, organic content: 2,5%). The door is enclosed by a 1,2 mm steel plate. The glue used in door leaf and door frame is a low flame-spread PAPU-30 type polyurethane adhesive from Jingjiang Green Functional Material Co., Ltd.

The door leaf has a glazed window, whose clear light size is 860 mm wide x 1345 mm high (see remark under USCG approval limitations). The glass (900 mm x 1385 mm x 51 mm) is composed, from the exoposed side, of 12 mm tempered glass + air gap + 5 mm tempered glass + 6 mm dry-type fireproof solution + 5 mm tempered glass + 6 mm dry-type fireproof solution + 5 mm tempered glass, and was provided by Yoahua Glass Corporation of China.

The 33 mm door frame is constructed from 1.5 mm thick steel plate to form a hollow rectangular structure. The hollow core of the frame structure is filled with TG-II ceramic wool.
A fire-proof sealing tape is arranged on the vertical inside face of the door frame so as to interface with the leading edge of the door leaf when closed.

The door may be fitted with a C3 type sliding door lock provided by Nantong Hujiang Locks Co., Ltd.

For further details, see test reports 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 (aluminum, FRP, etc.) are subject to case-by-case approval.

The door may be installed on either side of a class A-60 bulkhead.

Maximum size of door leaf: 1461 mm x 2458 mm (width x height).
Maximum clear opening door size: 1400 mm x 2400 mm (width x height).
Total thickness of door leaf (not including the edge cover): 60 mm.

The sliding rails (U-profile) are fixed to the bulkhead with M6 x 30 mm screws, nuts, washers and spring washers. Sliding door construction shall be in accordance with drawing no. 262WDF1805-00.

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

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.

Type Examination documentation

Test reports no. FT08204 dated 2018-10-11 and no. FT18232 dated 2018-10-29, issued by Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing no. 262WDF1805-00 "Assembly" dated 2018-10-29.

Tests carried out
Tested according to IMO Resolution 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, 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.