

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-M23 Type Class A-60 Steel 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) 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 **2023-11-06**.

Issued at **Hamburg** on **2018-11-07**

DNV GL local station:
Jiangyin

Approval Engineer:
Pavel Golyshev



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudzus
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-M23 Type Class A-60 Steel Door”

A single leaf hinged fire door composed of door leaf and frame and various fittings.

The door leaf consists of (from the side exposed to fire): 10 mm thick steel plate + 73 mm ceramic wool (of type TG-2 with nominal density 170 kg/m³, produced by Yixing Yuanyang Ship Material Co., Ltd) + 1 mm thick cover steel plate + air gap + 2 mm thick steel casing. Expansion fireproof seal strip of specification 20 mm x 4 mm (provided by Shanghai Jiaer Fu Decoration Materials Co., Ltd) and seal rubber strip of specification 20 mm x 50 mm (provided by Jiangyin Dingyan Seals Co., Ltd) are installed in the continuous grooves at the perimeter of door leaf.

The door leaf is connected to the four-sided frame (made by 10 mm thick steel plates) by two 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.

Total thickness of door leaf: 168 mm.

The door leaf and frame have round corners. For these and other details see test report with included drawings 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.

Tested with 10 mm thick steel plate of door leaf exposed to heating conditions (fire from outside).

Maximum size of door leaf (as tested): 1484 mm x 2284 mm (width x height).

Maximum clear opening door size (as tested): 1400 mm x 2200 mm (width x height).

A fire door of marginally larger dimensions than a fire-tested fire door may be individually assessed and accepted by Flag Administration (or Recognized Organization acting on its behalf) for a specific project with the same classification, provided documented compliance with IMO MSC.1/Circ.1319.

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.

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.).

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

Type Examination documentation

Test report no. FT18141 dated 5th of July 2018 and modification notice to test report dated 31st of October 2018, issued by Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing no. 262WDF1803-00.

Tests carried out

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

The door has been successfully tested for extended test period of 68 minutes.

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).