DNV·GL

Certificate No:
MEDB0000780

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)
Type CFM-1 class A-60 fire door

Issued to
Jiangyin Dongrui Decoration Materials Co., Ltd
Jiangyin, JIANGSU, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511, IMO MSC.1/Circ.1319

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

This Certificate is valid until **2026-02-14**.
Issued at **Hamburg** on **2021-02-15**

DNV GL local station:
Jiangyin NB & CMC

Approval Engineer:
Roland Priebe

Notified Body
No.: **0098**

for **DNV GL SE**

Christine Mydlak-Roeder
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, and amended by Decision No 1/2018 dated February 18th, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

The **Type CFM-1 class A-60 fire door** is a single leaf fire door with a max. clear opening size of 1200 mm wide x 2200 mm high approved for installation in A-class steel bulkheads. The door leaf (max. size 1234 mm wide x 2234 mm high x 40 mm thick) consisting of 28.4 mm ceramic wool covered by 5 mm inorganic fireproof board on both sides, encased by 0.8 mm galvanized steel plates on both sides, connected to the steel frame by three steel hinges along one side and a fireproof lock is installed at the opposite side. The insulation material is fixed by adhesive of approved type.

The four-sided door frame (1293 mm wide x 2293 mm high x 110 mm thick) consisting of 1.5 mm steel plate with rock wool filled in the interior and a fireproof expansion strip of 20 mm x 16 mm (provided by Jiangyin Leaders Accessories Co., Ltd.), fixed to the A-class bulkhead by bolts.

Insulation:
Door frame: Rock wool made by Tianchang KMD New Insulation Materials Co., Ltd. [density: 150 kg/m³].
Door leaf: YB type fireproof board produced by Suzhou Youlian Ship Fitting Co., Ltd. [density: 1000 kg/m³] and TG-II type ceramic wool produced by Changzhou Thermal Insulation Material Factory Co., Ltd. [density: 170 kg/m³].

Possible incorporations:
Observation window max. size 490 mm wide x 490 mm high (thickness: 35 mm) consisting of 29 mm thick fireproof solution covered by 3 mm thick glass layer on both sides.
Escape panel with max. size 440 mm wide x 540 mm high (thickness: 40 mm).
Fire Hose Port with max. size 180 mm x 180 mm (thickness: 35 mm).

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

The door is approved for installation in steel bulkheads of class A-60. Installation of this door in bulkheads made of other materials (aluminum, FRP, etc.) are subject to case-by-case approval.

Max. size of door leaf: 1234 mm wide x 2234 mm height x 40 mm thick
Max. clear opening: 1200 mm wide x 2200 mm height

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.

A fire door having marginally larger dimensions than the fire-tested fire door may be individually assessed and accepted by the 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.

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

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.

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

Type Examination documentation

Test report No. FT15109 dated 23rd March 2015 from Far East Fire Testing Centre, Shanghai, China.

Drawings from the manufacturer:
262DR-MA60-T0,
262DR-MA60-00,
262DR-TK-T1,
262DR-XF-T1,
262DR-MA60-01 and -02.

This certificate is based on the previous MED-B 42157-15 HH issued on 2016-01-12.

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 and
- the MED Mark of Conformity (see page 1) and
- USCG approval number, if applicable.