DNV·GL

Certificate No:
MEDB0000783

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-4 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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-4 class A-60 fire door** is a double leaf fire door with a max. clear opening size of 1600 mm wide x 2200 mm high approved for installation in A-class steel bulkheads. A door leaf (max. size 836 mm wide x 2234 mm high x 40 mm thick) consisting of 28.4 mm ceramic wool covered by 5 mm 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, a fireproof lock is installed at the right door leaf and a latch at the top and bottom of the left door leaf. Both door leaves are fixed at the mid-seam side with a groove for the fireproof seal gasket (20 mm x 4 mm) to install. The insulation material is fixed by adhesive of approved type.

The four-sided door frame (1743 mm wide x 2343 mm high x 110 mm thick) consisting of 1.5 mm steel plate with rock wool filled in the interior and a groove at the inside perimeter of the door frame for fireproof seal gasket (20 mm x 4 mm) to fill in, fixed to the A-class bulkhead by 36 M6 x 30 mm bolts.

Insulation:
Door frame: Rock wool made by Tianchang Kangmeida New Insulation Materials Co., Ltd. [nominal density: 120 kg/m³].

Door leaf: YB type inorganic fireproof board produced by Suzhou Youlian Ship Fitting Co., Ltd. [nominal density: 1000 kg/m³] and ceramic wool produced by Changzhou Thermal Insulation Material Factory Co., Ltd. [nominal density: 170 kg/m³].

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.

Size of door leaf: 836 mm wide x 2234 mm height x 40 mm thick
Max. clear opening: 1600 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.

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

Type Examination documentation

Test report No. FT14280 dated 3rd November 2014 from Far East Fire Testing Centre, Shanghai, China.

Drawings from the manufacturer:
262DR-SMA60-T0,
262DR-SMA60-00, -01, -02 and -03.

This certificate is based on the previous MED-B 42162-15 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.