DNV·GL

Certificate No:
MEDB00006NN

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)
CFM-3B Type Class B-15 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 **2025-12-09**.
Issued at **Hamburg** on **2020-12-10**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 **CFM-3B Type Class B-15 Fire Door** is a single leaf hinged door with single handle opening. The door is composed of frame, one door blade, locking arrangements and sealing material.

The door leaf is constructed from exposed side of 0.6 mm thick steel plate + rock wool + 10 mm thick noise-eliminating cavity + rock wool + 0.6 mm thick steel plate. The noise-eliminating cavity (723 mm wide x 2006 mm high x 10 mm thick) is made of 0.6 mm thick perforated steel plate. There is one layer of 1.0 mm thick stainless-steel material rimmed at the perimeter of the door leaf. Adhesive is used in the door leaf for fixation of the insulation material.

The door leaf is attached to the door frame by three hinges installed at one side of the door leaf, and at the other side a fireproof lock is installed 1100 mm above the bottom of the door leaf.

The door frame is a four-sided door frame of external size 1100 mm wide x 2460 mm high x 50 mm deep. It is made of 1.2 mm thick steel plate; the bottom side is 5 mm thick. The door frame is connected to the bulkhead with screws.

The door construction may provide the following optional fitting:

- the door leaf may be optionally fitted with an escape with ventilation gill in the lower part of the door. The tested max. clear opening dimension is 417 mm wide x 517 mm high. The escape was secured with pins and pin rod of stainless steel.

Insulation material:
The rock wool plate is produced by Tianchang KMD New Materials Co., Ltd. and has a nominal density of 120 kg/m³ and an organic content of ≤4%.

Adhesive:
The adhesive used inside the door leave is YB2002X 8#/YB8001 type produced by Sahnghai Ningrui Adhesive Science & Technology Development Co., Ltd.

Sealing strips:
Fire sealing strips fitted inside the door frame of 12 mm x 8 mm are provide by Hebei Debang Special Sealing Strips Co., Ltd.

Door lock:
The C-1 type stainless steel door lock is provided by Nantong Hujiang Locks Co., Ltd.

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

Application/Limitation

Approved for use as an integrated part of fire retarding division of class B-15.

Size of door leaf: 1023 mm wide x 2206 mm height x 40 mm thick
Max. clear opening: 1000 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.

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

Type Examination documentation

Test report No. FT20001 dated 13th January 2020 from Far East Fire Testing Centre, Shanghai, China.

Drawings from Manufacturer:

- Escape DR-TK-T1
- Sample Assembly Plan 19DR-CFM3B-T0
- Sample Construction Plan 19DR-CFM3B-T1
- Overal Fixation 19DR-CFM3B-T2
- Door Frame 19DR-CFM3B-T3
- Door Leaf 19DR-CFM3B-T4
- Composite Rock Wool Panel 19DR-CFM3B-T5
- Sample Frame Plan 19DR-CFM3B-T6

Tests carried out

Tested according to IMO Res. 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 and
- the MED Mark of Conformity (see page 1).