

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000082B

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV 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-1Z 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) 2021/1158,
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

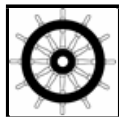
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-08-03**.

Issued at **Hamburg** on **2022-08-04**

DNV local station:
Jiangyin NB & CMC

Approval Engineer:
Roland Priebe



Notified Body
No.: **0098**

for **DNV 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) 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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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.



Product description

The **CFM-12 class A-60 fire door** is a single leaf class A-60 fire door which may be fitted with an observation window and a fire hose port. It is composed of 0.8 mm thick steel plate + 5 mm thick inorganic fire board + rock wool + 5 mm thick inorganic fire board + 0.8 mm thick steel plate. The total thickness is 40 mm. There is a rim of 1 mm thick stainless steel at the perimeter of the door leaf. An adhesive of an approved type was used to fix the insulation material in the interior door structure.

The door leaf is attached to the door frame with three hinges on one side. On the other side a fireproof lock is installed 1100 mm above the bottom of the door leaf.

The four-sided door frame is made of 4 mm thick steel plates and has a continuous groove for a fireproof expansion sealing strip. The door was tested with the door frame fixed to the steel bulkhead with M6 x 30 bolts and may be installed with door frame both bolted, tack- or fully welded to the bulkhead.

Insulation material:

- KMD-Y type rock wool with a nominal thickness of 50 mm, a nominal density of 120 kg/m³, a moisture content of 0.5% and a nominal organic content of ≤3%. It is produced by Tianchang KMD New Insulation Materials Co., Ltd.
- YB type inorganic fireproof board with a nominal density of 1000 kg/m³, a nominal thickness of 5 mm and a moisture content of 1%. It is produced by Suzhou Youlian Ship Fitting Co., Ltd.

The door leaf may be fitted with an observation window of max. 400 mm x 400 mm in clear light size. The toughened safety glass from Yixing Yushi Special Glass Co., Ltd. consists of 8 mm glass + 20 mm fireproof liquid + 8 mm glass.

The door leaf may be fitted with a fire hose port in the lower corner at the lock side. Its clear opening is 160 mm x 160 mm and is composed with the same materials as the door leaf itself and is fitted with a spring hinge.

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

Application/Limitation

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.

Max. door leaf size: 1237 mm x 2537 mm x 40mm (width x height x thickness)

Max. door clear opening: 1200 mm x 2500 mm

Max. window clear opening: 400 mm x 400 mm

Max hose port clear opening: 160 mm x 160 mm

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 and gaskets 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.

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

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

Type Examination documentation

Test report No. FT22031 dated 2022-02-24 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex1, Part 3.

The door has been successfully tested with extended test period for at least 68 minutes for insulation and 68 minutes for fire integrity in compliance with IMO MSC.1/Circ.1319.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG approval if applicable (see page 1).

USCG approval limitations



Job Id: **344.1-012200-1**
Certificate No: **MEDB000082B**

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.