

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000943

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-12 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) 2023/1667,
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

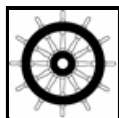
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-06-23**.

Issued at **Hamburg** on **2024-06-24**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Meike Grabau



Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

“CFM-12 class A-60 fire door”
is a class A-60 single-leaf stainless steel acoustic choke fire door.

The door leaf consists of ceramic wool insulation glued to a 5 mm inorganic fire plate on both sides and a 0.8 mm thick stainless steel plate on both sides. The TG-II type ceramic wool insulation material is produced by Changzhou Insulation Material Equipment Co., Ltd. with 170 kg/m³ nominal density. The YB type fireproof board is produced by Suzhou Youlian Marine Equipment Co., Ltd. and has a nominal density of 1000 kg/m³. The glue is a low flame-spread PAFU-30 type polyurethane adhesive from Jingjiang Green Functional Material Co., Ltd.

Total door leaf thickness: 40 mm.

The door leaf frame is made of 1.5 mm stainless steel plate and stiffeners made of 1.2 mm thick stainless steel plate are provided at vertical direction within door leaf. One layer of 1.0 mm thick stainless steel material is wrapped at the perimeter of the door leaf. The door leaf is installed at one side with three stainless steel hinges. On the other side a fireproof C-1 door lock provided by Nantong Hujiang Marine Technology Co., Ltd. is fitted 1100 mm above the bottom of the door leaf.

The door frame is a four-sided door frame made by 1.5 mm thick stainless steel plate. It is fixed to the opening of bulkhead by bolts. The door frame is filled with KMD-Y type rock wool, produced by Tianchang Kangmeida New Insulation Material Co., Ltd. with a nominal density of 120 kg/m³. A fireproof seal strip (20 mm x 15 mm, provided by HeBei DeBang Special Sealing Strip Co., Ltd.) is fixed in the profile of the door frame.

For further details refer to the test report listed under “Type Examination documentation” below.

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.

Maximum door leaf size: 1236 mm x 2234 mm (W x H)
Maximum clear door opening: 1200 mm x 2200 mm (W x H)

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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

Note that this is a fire safety certificate which only covers fire technical properties (i.e. not to cover strength evaluations related to water-tightness, weathertightness, etc.).

Type Examination documentation

Test report no. FT18178 dated 9 October 2018 from Far East Fire Testing Centre, Shanghai, China.

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, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).