

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-6

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) 2018/773**,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

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

This Certificate is valid until **2024-07-10**.

Issued at **Hamburg** on **2019-07-11**

DNV GL local station:
Jiangyin

Approval Engineer:
Karolina Kusmider



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"CFM-6"

a class B-15 single-leaf fire door. Door leaf is composed from the exposed side, of 0.8 mm thick steel plate, 38mm thick rock wool plate of 120 kg/ m³ nominal density(manufactured by Tianchang KMD New Insulation Materials Co., Ltd) and 0.8 mm thick steel plate. Insulation material inside the door leaf is fixed by the adhesive.

The door leaf is wrapped with a layer of 1mm thick stainless steel edge cover.

Total door leaf thickness: 40 mm.

The door leaf was installed at one side with three 5-inch hinges.

The door leaf has a louvered escape, located at the bottom half of the door leaf, provided with ventilation slots. The face plate of louvered escape is made of 1.5mm thick steel plate and internal frame is made of 1.2 mm thick stainless steel plate.

A fireproof stainless steel door lock provided by Shanghai Liyong Lock Co., Ltd. was fitted 1100 mm above the bottom of the door leaf.

The door frame is a three-sided door frame composed of 1.5 mm steel plates and may be fastend to the bulkhead with M5 x 30 mm stainless steel bolts, tack welded or fully welded to the bulkhead. A continuous groove fixed at three sides of the door frame is for the fireproof strip of 20 mm x 16 mm, provided by HeBei DeBang Special Sealing Strip Co., Ltd.

The door frame is insulated with marine rock wool insulation plate of 50 mm thick, of 120 kg/ m³ nominal density, manufactured by Tianchang KMD New Insulation Materials Co., Ltd.

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

Application/Limitation

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

Max. size of door leaf (W x H): 1239 mm x 2214 mm

Max. clear opening (W x H): 1200 mm x 2200 mm

Max. clear opening of louvered escape(W x H): 417 mm x 517 mm

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. FT16427 dated 2016-12-19 from Far East Fire Testing Centre, Shanghai, China.

Drawing. No. 262DR-CFM6-01, Rev. 5, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.

Drawing. No. 262DR-CFM6-02, Rev. 11, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.

Drawing. No. 262DR-CFM6-03, Rev. 5, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.

Drawing. No. 262DR-CFM6-04, Rev. 7, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.

Drawing. No. 262DR-TKFS-T1, Rev. 10, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.



Job Id: **344.1-008497-1**
Certificate No: **MEDB00004E0**

Drawing. No. 262DR-CFM6-06, Rev. 5, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.
Drawing. No. 262DR-CFM6-07, Rev. 3, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.

Tests carried out

Tested according to IMO Resolution MSC.307(88) - IMO 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, Mark of Conformity and USCG marking if applicable (see first page).