DNV·GL

Certificate No:
MEDB00004DZ

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-5

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

"CFM-5"
a class A-60 single-leaf fire door. Each door leaf is composed from the exposed side, of 0.8 mm thick steel plate, 6mm thick YB type inorganic fireproof board of 1000 kg/ m³ nominal density (manufactured by Suzhou Youlian Ship Equipment Co. Ltd.), 26mm thick TG2 type ceramic wool plate of 170 kg/ m³ nominal density(manufactured by Changzhou Thermal Insulation Material Factory Co., Ltd.), 6 mm thick inorganic fireproof board of 1000 kg/ m³ nominal density (manufactured by Suzhou Youlian Ship Equipment Co. Ltd.), 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 fire escape located at left bottom corner.

A fireproof stainless steeldoor lock provided by Shanghai Liyong Lock Co., Ltd. was fitted 1200 mm above the bottom of the door leaf.

The door frame is a four-sided door frame composed of 1.5 mm steel plates and may be fastend to the bulkhead with M6 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 Fibertex type marine rock wool insulation plate of 50 mm thick, of 150 kg/ m³ nominal density, manufactured by Tiangchang KMD New Insulation Materials Co., Ltd.

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

Application/Limitation

The door is 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. 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 fire escape(W x H): 150 mm x 150 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. FT16426 dated 2016-12-19 from Far East Fire Testing Centre, Shanghai, China.
Drawing. No. 262DR-CFM5-01, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.
Drawing. No. 262DR-CFM5-02, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.
Drawing. No. 262DR-CFM5-03, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.
Drawing. No. 262DR-CFM5-04, dated 2016-09-09 from Jiangyin Dongrui Decoration Materials Co. Ltd, China.
Drawing. No. 262DR-XF-T1, 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).

USCG approval limitations
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.