DNV·GL

Certificate No:
MEDB00005W0

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)
Class B-15 Door Type CGFM-1T

Issued to
Jiangsu Hailu Technology Incorporated Corporation
JIANGYIN, JIANGSU, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397,**
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 **2024-10-21**.
Issued at **Hamburg** on **2019-10-22**

DNV GL local station:
Jiangyin

Approval Engineer:
Timo Linn

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

"CGFM-1T" type door is a single leaf door of maximum size 981 x 2161 mm (width x height). The door is fitted withthree hinges and one door lock. Insulation and structure is illustrated in drawing No. 262HL-38D15-T0 (6 pages) and in test report no. FT14138.

Maximum clear opening dimension is 950 x 2150 mm (width x height).

The total thickness of the door is 40 mm composed of 0,6 mm thick steel sheets on both sides with a layer of rock wool insulation with nominal density 120 kg/m3 (manufactured by Tianchang Kangmeida New Insulation Material Co., Ltd.) in between. Adhesive of approved type is used between the steel sheets and the rock wool insulation.

Stiffeners made of steel channels are fitted inside the door along the edges.
The door may incorporate a ventilation duct and a ventilation grille in lower and upper part of the door. The ventilation grille on the lower part of the door is also working as a kick out panel of with maximum clear opening size 448 x 548 mm (width x height). The panel is fixed to the door leaf by strips screwed to the perimeter of the panel on both exposed and unexposed side.

The door is installed in a three sided frame made of 0,8 mm thick steel profiles, fitted inside with rock wool insulation. The bottom of the door frame consists of a 5 mm thick steel plate. The door frame is fixed to the bulkhead by steel clips.

An 18 x 8 mm fireproof strip (manufactured by Jiangyin Lide Accessories Co., Ltd) is fitted in a groove along the entire perimeter of the door and the frame.

For further details, see drawings mentioned under Type Examination documentation below.

Application/Limitation

The door is approved for installation in steel bulkheads of class B-15. Installation of the door in bulkheads made of other materials (aluminium FRP, etc.) are subject to case-by-case approval.

Max. clear opening of door: 950 x 2150 mm (W x H)

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.

This certificate is replacing the previous MED-B 11366-14 HH issued on 2014-11-20.

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

Type Examination documentation

Test report No. FT14138 dated 2014-06-05 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, MED Mark of Conformity and USCG approval number 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. For larger windows, USCG shall be contacted.