

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000089T

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)
CGFM-3DA Type B-15 class fire door

Issued to

Jiangsu Hailu Technology Incorporated Corporation
JIANGYIN, JIANGSU, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2022/1157,
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

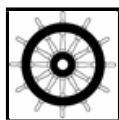
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-12-27**.

Issued at **Hamburg** on **2022-12-28**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Karolina Kusmider



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"CGFM-3DA Type B-15 class fire door"

is a class B-15 single-leaf fire door. The door leaf is composed of the following layers:

- 0.6 mm thick steel plate.
- 38.8 mm thick layer of rock wool of type Fibertex (density 120 kg/m³) manufactured by Tiachang KMD New Insulation Materials Co., Ltd.
- 0.6 mm thick steel plate.

Internal parts are glued together.

Total thickness of door leaf: 40 mm.

The door leaf is fitted to the door frame with 3 hinges, a fireproof lock type C-1 manufactured by Nantong Hujiang Marine Technology Co., Ltd.

The three-sided door frame is formed by 1.2 mm thick steel plates fitted inside with rock wool insulation. The upper edge of the frame was covered with a 50 mm thick plate. The fireproof seal strip 18 mm x 8 mm is used at the inside of the three-sided door frame and is provided by Jiangyin Lide Decorations Co., Ltd. The door frame may be welded or bolted (M4 x 16 mm screws c/c 243 mm – 400 mm mm) to the bulkhead.

The door leaf may be fitted with:

- Window, fireproof glass manufactured by Yinxing Yushi Special Glass Co Ltd, thickness 32 mm (composed of: 5 mm tempered glass, 22 mm fireproof liquid, 5 mm tempered glass).
- Hose port, lower corner of the door leaf (opposite side to the hinged side).
- Kick-out panel with a ventilation grille on the lower part of the door leaf.

For further details, see test report with included drawings listed 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. size of door leaf:	1233 mm x 2192 mm (W x H)
Max. clear opening of door:	1200 mm x 2200 mm (W x H)
Max. clear opening of glazed unit:	400 mm x 600 mm (W x H)
Max. clear opening of hose port:	150 mm x 150 mm (W x H)
Max. clear opening of escape with vent louver:	418 mm x 518 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.

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

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

Type Examination documentation

Test Report No. FT22181 dated 14th October 2022 from Far East Fire Testing Centre, Shanghai, China.

Test Report No. FT22182 dated 13th October 2022 from Far East Fire Testing Centre, Shanghai, China.

Tests carried out

Tested according to IMO FTP Code Part 3.

Marking of product

"The product 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).