

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)
CGFM-3S Type Class B-15 Stainless Steel 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) 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

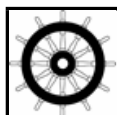
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-06-15**.

Issued at **Hamburg** on **2020-06-16**

DNV GL local station:
Jiangyin

Approval Engineer:
Karolina Kusmider



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
Head of Notified Body

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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-3S"

is a class B-15 single-leaf fire door. Each door leaf is composed from the exposed side of 0.6 mm thick steel plate, 38.8 mm thick Fibertex rock wool plate of 120 kg/m³ nominal density, manufactured by Tianchang KMD New Insulation Materials Co. and 0.6 mm thick steel plate. The insulation material inside the door leaf is fixed by the adhesive.

Total door leaf thickness: 40 mm.

The door frame is a three-sided door frame with top frame panel made by 0.8 mm thick steel plate and two vertical frames made by steel plate of 1.2 mm and is welded to the bulkhead. There is 20 mm thick groove fixed at three sides of the door frame with fireproof seal strip 18x8 mm.

The door leaf may be fitted with a window constructed from 32 mm fireproof glass YS-A60 type, consisting of 5 mm tempered glass, 22 mm fireproof solution and 5 mm tempered glass, produced by Yixing Yushi Special Glass Co., Ltd. The glazed opening is fixed to the aperture by eighteen Ø 4x12 mm stainless steel self-tapping screws. Further, there is a fireproof door lock C-1 type from Nantong Hujiang Marine Technology Co., Ltd., installed at the door leaf, located 1100 mm from the bottom, a louvered escape and a fire hose port. The door leaf is attached to the door frame by three 5" hinges.

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 a door leaf (W x H): 1233 mm x 2192 mm
Max. clear opening (W x H): 1200 mm x 2220 mm
Max. clear opening of a window (W x H): 400 mm x 600 mm
Max. size of an louvered escape (W x H): 423 mm x 523 mm
Max. size of a fire hose port (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. FT18131 dated 2018-07-12 from Far East Fire Testing Centre, Shanghai, 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 (see first page).