DNV·GL

Certificate No:
MEDB000073U

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)
GFJMAO type class A-0 fire roller shutter door

Issued to
Huanan Building Materials (Shenzhen) Co., Ltd.
Shenzhen, Guangdong, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
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 **2026-01-25**.
Issued at **Hamburg** on **2021-01-26**

DNV GL local station:
China South NB

Approval Engineer:
Karolina Kusmider

Notified Body
No.: **0098**

for **DNV GL 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), 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, and amended by Decision No 1/2018 dated February 18th, 2019.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

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Product description

"GFJMAO type class A-0 fire roller shutter door" assembled with transmission reel, door frame, i.e. guideway, motor, slat curtain and reel cover.

The door frame is constructed by two jambs fixed vertically at two sides, made of 1.5 mm thick cold-rolled steel plate with Fibertex R150 type rock wool with density 150 kg/m^3 (manufactured by Rockwool Firesafe Insulation(Guangzhou) Co.Ltd.) and guideway with fireproof strip.

The slat curtain is formed by 26 pieces of 17 mm slats connected by S-shaped structure. Each slat is 2046 mm x 74 mm x 17 mm (h x w x t), composed of Fibertex R80 type rock wool with density 80 kg/m^3 (manufactured by Rockwool Firesafe Insulation(Guangzhou) Co.Ltd.) covered by 0.6 mm galvanized steel plates.

The transmission reel is made from 2 mm steel plate and is 140 mm in diameter.

The shutter door is connected with the bulkhead by M6x25 steel bolts spaced maximum 400 mm apart.

Actuation of the roller shutter:
- manual
- electrical

For further details, see test report with included drawings listed under Type Examination documentation below.

Application/Limitation

Approved for use as an integrated part of fire retarding division of class A-0.

Max. shutter door size: 2170 mm x 1920 mm (width x height).
Max. size of clear opening of door: 2000 mm x 1500 mm (width x height).

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

Type Examination documentation

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).