

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000087V

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 **A & B Class divisions fire integrity: B class divisions.**

with type designation(s)
CFM-AD2 Type Class B-0 ceiling access hatch

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) 2022/1157**,
item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO
MSC/Circ.1120 and IMO MSC.1/Circ.1581

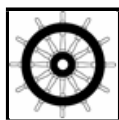
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-01-23**.

Issued at **Hamburg** on **2023-01-24**

DNV local unit:
Jiangyin NB & CMC

Approval Engineer:
Timo Linn



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"CFM-AD2 Type Class B-0 ceiling access hatch"

Hatch has been integrated into Type CLP-C2 class B-15 ceiling consists of ceiling panels made of 23.8 mm rock wool (nominal density: 120 kg/m³) covered on both sides with 0.6 mm galvanized steel sheets. The ceiling panels are wedge jointed (wedge cut is 18 mm in depth). The steel sheets are glued to the rock wool with adhesive of approved type. Total thickness of the ceiling is 25 mm.

The hatch, Manufactured by Jiangyin Dongrui Decoration Materials Co., consists of 0.6 mm thick steel plate + rock wool + 0.6 mm thick steel plate. An adhesive was used in between the rock wool and steel plate for bonding. The door leaf was attached to the door frame by one piano hinge installed at one side, and a small lock Nas installed at the other side (unexposed side of fire).

Dimension (external size): 593 mm width x 794 mm length, 25 mm thick.

The frame is 650 mm wide x 850 mm length x 30 mm thick in external size, made by a 1.5 mm thick galvanized steel plate.

The clear opening size of the hatch is 570 mm wide x 770 mm long.

Insulation:

Rock wool (50 mm thick), density: 120 kg/m³ manufactured by Tianchang KMD New Insulation Materials Co., Ltd..

For further details, see the test report mentioned under Type Approval documentation below.

Application/Limitation

Approved for use as a horizontal fire retarding division of class B-0.

Maximum hatch size: 850 mm long x 650mm wide x 30 mm thick.

Maximum panel size: 2400 mm long x 600 mm wide x 25 mm thick.

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.

Type Examination documentation

Test Report No. FT22030 dated 10th March 2022 issued by 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).