

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

with type designation(s)
TJMB15 type class B-15 Ceiling Hatch

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/3.11b. 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

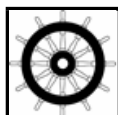
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

"TJMB15 type class B-15 Ceiling Hatch"

composed of ceiling access hatch in the B class ceiling mounted with 350 mm air gap to the A class deck.

The hatch leaf is composed of a 29 mm thick insulation core of ROCKWOOL marine rock wool with nominal density 120kg/m³ (from Rockwool Firesafe Insulation(Guangzhou) Co., Ltd.), covered on each side with 0.55 mm thick galvanized steel plates.

Max. hatch thickness: 30 mm

The hatch frame is composed of 1.2 mm thick steel plates, has seal strip around the door frame and is fixed to the opening of the ceiling by ST4.2x16 screws.

The hatch is attached to the frame by row hinge installed at one side of door leaf and detachable level lock at the other side.

The ceiling is composed of a 29 mm thick insulation core of ROCKWOOL marine rock wool with nominal density 120kg/m³ (from Rockwool Firesafe Insulation(Guangzhou) Co., Ltd.), covered on each side with 0.55 mm thick galvanized steel plates. The ceiling panels are wedge joined.
The ceiling is connected with the bottom of the deck by the L30x30x3 mm angle steel hanging pendant.

The hatch may be fitted with fireproof door lock type C-J provided by Nantong Hujiang Locks Co., Ltd. and a ventilation terminal type HMF-125-25- provided by Haodun Ventilation Equipment (Shanghai) Co., Ltd., dimensions of 600mm x 500 mm x 240 mm(L x W x H). The air duct nozzle is Ø124 mm in external diameter and Ø255 mm in opening size. The corner of the ventilation box is fixed on two square steel bars 30x30x2.5 mm on the unexposed face of ceiling by L type steel stud welding. The lower edge of air outlet of the terminal is extended into the opening of the ceiling and is connected to the upper and lower part of the air outlet of ventilation terminal.

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

Application/Limitation

Approved for use as an integrated part of a horizontal fire retarding division of class B-15.

Approved for installation in the tested ceiling type T30A from Huanan Building Materials (Shenzhen) Co., Ltd. Installation in other ceilings may be approved case-by-case. Ceiling has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Max. size of hatch: 691 x 921 mm (W x L)

Max. hatch clear opening: 610 x 840 mm (W x L)

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 use.

Type Examination documentation

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product



Job Id: **344.1-011079-1**
Certificate No: **MEDB000073T**

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).