

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 "B" Class divisions, fire integrity

with type designation(s)

TJDMB0 type B-0 class ceiling access 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) 2019/1397,**

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

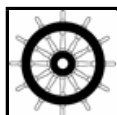
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-03-22.**

Issued at **Hamburg** on **2020-03-23**

DNV GL local station:
China South NB

Approval Engineer:
Timo Linn



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"TJDMB0 type B-0 class ceiling access hatches"

The service hatches are mounted in the opening of a class B-0 ceiling, which is combined as follows: B class ceiling+ 380mm air gap+ A class deck structural core. Service hatch is exposed to fire to protect the deck structural core. The structure of the hatches I, II, III and IV are identical, which are composed, from the exposed side, of 0.55mm thick perforated galvanized steel plate (U-type bottom profile) + rock wool, 25mm in total thickness. The perforated hole is 1.8mm in diameter.

The clear opening size of the service door I was 590mm x 600mm. One side of the door set was installed with stainless steel hinges and the other side was installed with two C-J type detachable locks.

The clear opening size of the service door II was 290mm x 600mm. One side of the door set was installed with stainless steel hinges and the other side was installed with one C-J type detachable lock.

The clear opening size of the service door III was 590mm x 600mm. One side of the door set was installed with ø5 steel pin roll and the other side was installed with one C-J type detachable lock.

The clear opening size of the service door IV was 290mm x 600mm. One side of the door set was installed with ø 5 steel pin roll and the other side was installed with one C-J type detachable lock

Door lock: C-J type detachable lock, which was provided by Nantong Hujiang Marine Technology Co., Ltd.

Insulation material

The insulation material used for the compound rock wool panel was the rock wool produced by ROCKWOOL FIRESAFE INSULATION (GUANGZHOU) CO., LTD. with a 25 mm nominal thick and nominal density of 80 kg/m³, ≤0.5 % in moisture content and ≤4 % in nominal organic content.

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

Application/Limitation

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

Approved for installation in the tested ceiling type T25DXY type class B-0 ceiling 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 leaf : 610 x 598 mm (W x L)

Max. hatch clear opening: 600 x 450 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, use and maintenance.

Type Examination documentation

Test report No. FT18225 dated 15th of October 2019 from FEFTC Far East Testing Centre, Shanghai, China.

Drawing No. Q262HN107-00SY (1-10 sheets) dated 14th of May 2018 from manufacturer.

Tests carried out

Tested according to IMO Resolution MSC.307(88) – 2010 FTP Code Annex 1, Part 3.



Job Id: **344.1-010083-1**
Certificate No: **MEDB0000668**

Marking of product

The product or packing 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).