

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB0000860

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
MKB15CT Type B-15 Class Fireproof 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) 2022/1157,
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 **2027-09-29**.

Issued at **Høvik** on **2022-09-30**

DNV local station:
China South NB

Approval Engineer:
Kristin Grønnæss



Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 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 AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

“MKB15CT type B-15 class fireproof door”

is a single leaf hinged door with an insulation core consisting of 50 mm thick rockwool of type “Marine Rockwool Slab” (density 120 kg/m³, manufactured by Rockwool Firesafe Insulation (Guangzhou) Co., Ltd.). The insulation is fixed to 0.55 mm thick steel sheets by means of adhesive. A 1.2 mm thick door leaf inter frame and 0.8 mm thick edge cover made of steel were wrapped around the door leaf.

Total door leaf thickness is 40 mm.

The door leaf is fixed to a three-sided door frame with three hinges. The three-sided door frame is made of 1.2 mm thick steel plate and the horizontal frame is filled inside with the insulation “Marine Rockwool Slab” (density 120 kg/m³, manufactured by Rockwool Firesafe Insulation (Guangzhou) Co., Ltd.). A “D”-type seal rubber strip (14 x 9 mm) is fitted at the perimeter of the door frame. The door frame is fixed to the bulkhead with screws (ST4.2 x 50 mm).

The door leaf may also be fitted with:

- Window in the upper part of the door leaf (26 mm glass thickness, manufactured by HUA NAN building materials (Shenxhen)).
- Escape panel incorporating a ventilation louvre in the lower part of the door leaf.

For further details, please see drawings 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 door leaf:	1025 mm x 2410 mm (W x H).
Max. clear opening of door leaf:	1000 mm x 2200 mm (W x H).
Max. size of escape- and ventilation panel:	602 mm x 802 mm (W x H).
Max. size of window:	450 x 450 mm (W x H).

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED 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. SDFS2112008219FR dated 9 March 2022 from SGS-CSTC, Guangdong, China.

Test report No. SDFS2205003051FR dated 20 June 2022 from SGS-CSTC, Guangdong, China.

Drawing No. Q262HN128-1-OOSY dated 10 June 2021 from maker.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3.

USCG approval limitations

The approval is limited to fire doors without windows and doors with total window area of 645 cm², or less, in each door leaf. For larger windows, USCG shall be contacted.

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 number if applicable (see first page).