

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 GL AS under the authority of the Government of Norway.

This is to certify:

That the Fire Doors

with type designation(s)
MKB15CXT Type Class B-15 Fire 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) 2018/773**,
item No. MED/3.16. SOLAS 74 as amended, Regulation II-2/9, IMO 2010 FTP Code and IMO MSC.1/Circ.1511

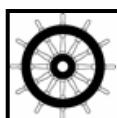
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-06-04**.

Issued at **Høvik** on **2019-06-05**

DNV GL local station:
China South NB

Approval Engineer:
Thorvald Furuseth



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

"MKB15CXT Type Class B-15 Fire Door"

consisting of a single leafed hinged door with a door blade composed of a 38.9 mm thick insulation material from Rockwool Firesafe Insulation with density of 120 kg/m³, bonded to 0.55 mm galvanized steel sheets on both sides. Inner frame of steel 38.5 mm x 20 mm x 1.2 mm arranged.

The door is produced in two configurations:

- a. The steel sheet end profile glued together forming the outer rim
- b. 0.8 mm steel plate rimed at the perimer of the door leaf. The steel plate is screwed on the steel sheets.

The door is fitted with three hinges and C-1 type steel door lock (Nantong Hujiang Co., Ltd.).

The door frame is made of 1.2 mm thick steel plates, fitted with a "D" type sealing strips and is connected to the bulkhead with self-tapping screws.

The door may also be fitted with:

- Observation Window, 420 mm x 420 mm (Width x Height) and nominal thickness 26 mm
- Escape and ventilation grid in lower part of the door, 420 mm x 520 mm (Width x Height)
- Fire Hoseport in left lower corner of the lock side leaf, 150 mm x 150 mm (Width x Height)

Total door leaf thickness is 40 mm (not including the edge cover).

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

Application/Limitation

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

Maximum clear opening: 1000 mm x 2200 mm (Width x Height)

Maximum size of door leaf: 1025 mm x 2188 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 product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

- a. Test report No. FT13298 dated 21st October 2013.
- b. Test report No. FT19004 dated 13th February 2019.

All from "FEFTC" Far East Fire Testing Centre, China.

- a. Drawing No. Q262HN91-00SY (9 sheets) dated 8 August 2013.
- b. Drawing No. Q262HN113-00SY (9 sheets) dated 6 August 2018.

All from manufacturer.

Tests carried out

Tested according to IMO 2010 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).

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.