

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 Fire Doors

with type designation(s)
SMB15CXT Type 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) 2019/1397**,
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

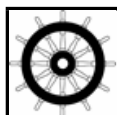
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-07-12**.

Issued at **Hamburg** on **2020-07-13**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"SMB15CXT Type B-15 Fire Door"

is a hinged class B-15 double-leaf stainless steel fire door with louvered escape, hose port and glazed opening.

Door Leafs 1009 mm wide x 2088 mm high in external size, consisting, from the exposed side of 0.55mm thick galvanized steel plate + rock wool + 0.55mm thick galvanized steel plate, with an inner frame of 38mm x 20mm x 1.2mm fixed inside and 40mm in total thickness.

The door (Left side) is fitted with three hinges and a steel door lock C-1 type Hujiang brand stainless-steel door lock, which was provided by Nantong Hujiang Lock Co., Ltd. Hidden latches were installed at the top and bottom. A vertical wrapper was fixed at the right side of door leaf that was jointed with the other door leaf so as to cover the mid seam of door set. The vertical wrapper has a continuous groove where the D type sealing rubber strip was installed.

The external size and structure of the right door leaf is identical with the left one, except that there is a stainless-steel fireproof lock installed above the bottom of right door leaf and the vertical wrapper at the left side of door leaf had no groove. The door leaf is equipped without latch at the top and button but therefore with a fire hose port at the left-lower corner.

The three-sided door frame is of external size 2080 mm wide x 2140mm high x 90mm deep, and the clear opening size is 2000mm wide x 2100mm high. The door frame is made of 1.2mm thick steel plate and no insulation material was filled in the cavity. There is a continuous groove arranged at the inside of the three edges of door frame for the D type sealing rubber strip to install.

The doors may also be fitted with:

- Observation Window, 490 mm x 490 mm (Width x Height) and nominal thickness 26 mm is installed at the top half of the door leaf. It is fitted with a press frame of 0.8 mm stainless steel. The fireproof glass is composed of 5 mm tempered glass + 16 mm fireproof solution + 5 mm tempered glass.
- Escape and ventilation grid in lower part of the door, 440 mm x 540 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.

Materials:

The insulation material used in door leaf was rock wool produced by Rockwool Firesafe Insulation (Guangzhou) Co., Ltd. The material is 50mm nominal thick of nominal density 120kg/m³.

Adhesive: TH-99A type rock wool adhesive produced by Jiujiang City Special Adhesive Co., Ltd.

For further details see test report stated 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 (W x H x T): 1009 mm x 2088 mm x 40 mm

Max. clear opening (W x H): 2000 mm x 2100 mm

Max. clear opening of window (W x H): 420 mm x 420 mm

Max. clear opening of escape grid (W x H): 422 mm x 522 mm

Job Id: **344.1-010275-1**
Certificate No: **MEDB00006BS**

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. FT14095 dated 2014-04-22 from Far East Fire Testing Centre, Shanghai, China.

List of Drawings from the manufacturer:
SMB15CXT dated 2014-02-10

Tests carried out

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

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 page 1).

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. Doors with a window area exceeding 645 cm² are not part of this certificate and need direct USCG approval