

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Class B Door**with type designation(s)
BJMB15(V)

Issued to

Huanan Building Materials (Shenzhen) Co., Ltd.
Dongguan Guangdong, China

is found to comply with

DNV GL offshore standards**DNV GL rules for classification – Ships****DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations****Application :****Approved for use as an integrated part of fire retarding division of class B-15.****This certificate is recognized by Transport Canada.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2017-10-21**This Certificate is valid until **2022-10-20**.for **DNV GL**DNV GL local station: **China South CMC/ SIO**Approval Engineer: **Piotr Orzechowski**

Mårten Schei-Nilsson
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

"BJMB15(V)"

a single leaf hinged door with door blade composed of 0.55 mm thick galvanized steel sheets on both sides of an insulation core with 39 mm thick rockwool type "Marine Rockwool Slab" produced by Rockwool Firesafe Insulation Co., Ltd. with density 120 kg/m³. The steel sheets are glued to the rock wool with adhesive. The U-profile with internal dimensions 20 x 37 x 20, 1.2 mm thick galvanized steel sheet is fitted around the insulation.

The door leaf is fixed to the L63 x 63 x 6 mm frame with piano hinge and equipped with CJ type removable lock device.

The door frame is connected to the bulkhead with 3.2 x 8 mm rivets with maximum spacing 350 mm.

Total door leaf thickness: 40 mm

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

Application/Limitation

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

Max. size of door leaf: 633 x 1224 mm (Width x Height)

Max. clear door opening: 610 x 1200 mm (Width x Height)

Any surface materials used on door leaf and door frame have to be approved for smoke and toxicity and low flame-spread characteristics (IMO 2010 FTP Code parts 2 and 5) when required according to relevant rules and regulations.

Any adhesive used, other than the one used during testing, has to be tested low flame spread characteristics according to IMO 2010 FTP Code part 5.

Each product is to be supplied with its manual for installation, use and maintenance.

Type Approval documentation

Certification in accordance with Class Program DNVGL-CP-0338, October 2015.

Test Report no. FT17042 dated 17th March 2017 from "FEFTC" Far East Fire Testing Centre, China.

Drawing No. Q262HN104-00SY Rev. C dated 20 January 2017 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)", DNV GL confirms that the product listed in this certificate is in accordance with Transport Canada's requirements.

Periodical assessment

DNV GL's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Program DNVGL-CP-0338, Section 4.