

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Horizontal Class B Division**with type designation(s)
STJMB15 type class B-15 ceiling

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 a horizontal 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

"STJMB15 type class B-15 ceiling"

is a horizontal, double leaf service door composed of:

- 0.55 mm thick galvanized steel plates (exposed side)
- 17 mm thick insulation material type "Marine Rockwool Slab" with nominal density 120 kg/m³ (manufactured by Rockwool Firesafe Insulation Co., Ltd.)
- 6 mm thick calcium silicate panel type LGB-0 with nominal density 1100 kg/m³ (manufactured by Suzhou Weiyu Marine Materials Decoration Co., Ltd.)
- 0.55 mm thick galvanized steel

The U-profile inner frame of specification 20 x 17 x 20, 1.2 mm thick galvanized steel is fitted around insulation. Between door leaves the 1.2 mm galvanized steel "vert wrapper" is fitted.

The door leaves are fixed to the 1.2 mm thick frame with piano hinge and equipment with CJ type removable lock device.

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

The door is opened towards exposed side.

Total door leaf thickness: 25 mm

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

Application/Limitation

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

Approved for installation in tested ceiling type T30A and T30 (II) from Huanan Building Materials (Shenzhen) Co., Ltd. Installation in other ceilings may be approved case-by-case.

Max. clear opening: 1100 mm x 1200 mm (w x l)

Max. size of door leaf (left and right): 558 mm x 1224 mm (w x l)

Any surface materials used have to be approved for smoke and toxicity and low flame spread characteristics to IMO 2010 FTP Code part 2 and 5 or IMO FTPC Part 2 and 5 when in compliance with the IMO 2010 FTP code Ch. 5.2 and 8 when required according to relevant rules.

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. FT17010 dated 14 February 2017 from "FEFTC" Far East Fire Testing Centre.

Drawing No. Q262HN105-00SY Rev. C dated 20 December 2016 and 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/s listed in this certificate is/are in accordance with Transport Canada's requirements.



Job Id: **262.1-025810-1**
Certificate No: **TAF00000R4**

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 Programme DNVGL-CP-0338, Section 4.