DNV·GL

Certificate No:
TAF000019M

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class B Bulkhead

with type designation(s)
B50AGa type B-15 Class Bulkhead panel

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

is found to comply with
DNV GL rules for classification – Ships
DNV GL offshore standards
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

Approved for use as a vertical 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 **2019-08-20**
This Certificate is valid until **2024-08-19**.
DNV GL local station: **Guangzhou FiS**

Approval Engineer: **Synnøve Bolstad Eri**

for **DNV GL**

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.

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Job Id: **262.1-011420-6**
Certificate No: **TAF000019M**

Product description

"B50AGa type B-15 Class Bulkhead panel"
composed of panels consisting of 0.55 mm galvanized steel plates around an insulation core of 18 mm air cap with 0.55 mm waved 0.55 galvanized steel plate in the centre and 15 mm rock wool "Maritime Rockwool Slab" with nominal density of 120 kg/m^3 (manufactured by Rockwool Firesafe Insulation (Guangzhou) Co., Ltd.) on each side. 50 mm wide strip along longitudinal sides and 50 mm wide strip in the centre of panel is fully filled with insulation. The rock wool and steel panels are glued together with adhesive "YEBOND 2002X/YEBOND 8001".

Total panel thickness is 50 mm.

The panels are connected to each other by means of male/female connections fitted at the ends of each panels.

For further details see drawing listed under Type Approval documentation below.

Application/Limitation

Approved for use as a vertical fire retarding division of Class B-15.

Maximum size of bulkhead panels: 650 mm x 2970 mm (W x H)

Any surface materials used 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 for low flame spread characteristics according to IMO 2010 FTP Code part 5.

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Test report No. FT16107 dated 15 March 2016 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing No. Q354HN114-00SY page 1 to 6, Rev. A, dated 18 December 2015 from the manufacturer.

Tests carried out

Tested according to IMO FTPC Part 3, and in compliance with IMO 2010 FTP Code Ch.8.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, 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.

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.