

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Class B Bulkhead**with type designation(s)
B30C type B-15 Class Bulkhead

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**.for **DNV GL**DNV GL local station: **Guangzhou FiS**Approval Engineer: **Synnøve Bolstad Eri**

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.



Job Id: **262.1-011420-5**
Certificate No: **TAF000019R**

Product description

"B30C type B-15 Class Bulkhead"

Bulkhead panels composed of an insulation core of 28.8 mm thick rock wool with type designation "ABM-SR" (by Shanghai New Type Building Material Rock Wool Factory) with density of 120 kg/m³, faced on both sides with 0.55 galvanized steel sheets by the means of adhesive (YEBOND 2002X/YEBOND 8001).

The panels are connected to each other by connector clips made of 0.55 mm thick galvanized steel.

Total panel thickness is 30 mm.

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 2480 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. FT19006 dated 13 February 2019 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing No. Q354HN141-00SY page 1 to 6, Rev. A, dated 1 August 2018 from the manufacturer.

Tests carried out

Tested according to 2010 IMO FTP Code Part 3.

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 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.