

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Equivalent Class A Divisions**with type designation(s)
B100C type A-60 Class Bulkhead panel

Issued to

Huanan Building Materials (Shenzhen) Co., Ltd.
Dongguan City Guangdong, Chinais 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 a "Non-load bearing fire-resisting bulkhead 60" meeting for a period of 60 minutes the requirements to stability, integrity and insulation for class A divisions.**Issued at **Høvik** on **2018-01-15**This Certificate is valid until **2022-12-31**.for **DNV GL**DNV GL local station: **Guangzhou FiS**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.



Job Id: **262.1-016656-2**
Certificate No: **TAF00000W3**

Product description

"B100C type A-60 Class Bulkhead panel"

composed of panels consisting of 0.6 mm galv. steel plates around an insulation core of 98.8 mm rock wool "Fibertex Maritime R150" with density of 150 kg/m³. The rock wool and steel panels are glued together with adhesive "TH-99A". The panels are connected to each other by means of connector clips made of 0.6 mm thick galv. steel.

Total thickness of the panels is 100 mm.

For further details, see the drawings mentioned under Type Approval documentation below.

Application/Limitation

Approved for use as a "Non-load bearing fire-resisting bulkhead 60" meeting for a period of 60 minutes the requirements to stability, integrity and insulation for class A-60 divisions.

The use of this product shall be limited to applications specifically approved by the Administration in question, see IMO 2010 FTP Code part 3, Appendix 1, items 1.12 and 1.13. The construction shall in any case not be used as part of main fire zone bulkheads and stairways enclosures on passenger ships (see also IMO MSC/Circ.1005).

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.

Max panel size: 600 mm x 2470 mm (width x height).

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, October 2017.

Test report No. FT09035 dated 04 March 2009 from Far East Fire Testing Centre (FEFTC), Shanghai, China.

Drawing No. Q354HN53-00SY (8 pages) dated 25 November 2009 from the manufacturer.

Tests carried out

Tested in accordance with 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 and fire-technical rating.

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.