

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class B Bulkhead

with type designation(s)

B-15 Class Bulkhead Panel B-502D, B-15 Class Bulkhead Panel B-502DC

Issued to

Sung Mi Co., Ltd.

Gimhae-si Gyeongsangnam-do, Republic of Korea

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 a vertical fire retarding division of class B-15.

This certificate is recognized by Transport Canada.

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2022-02-20**.

Issued at **Høvik** on **2017-02-21**

DNV GL local station: **Gimhae MC & FIS**

for **DNV GL**

Approval Engineer: **Tomasz Werchowicz**

Petter Langnes
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:
Certificate No: **TAF00000H6**

Product description

"B-15 Class Bulkhead Panel B-502D"

consist of 50mm thick mineral wool core with nominal density of 140 kg/m³ (manufactured by KCC Corporation) covered with two 0.6 mm thick steel sheets from exposed side and 0.4 mm thick steel sheet from unexposed side. Steel sheets and insulation with steel sheets are glued by means of adhesive.

"B-15 Class Bulkhead Panel B-502DC"

is constructed the same as above and is equipped with internal cable conduit. It is located in the middle of the panel breadth and shifted towards unexposed side. Conduit extends from 900mm above the ground to the top of panel. Is made of 0.6 mm thick steel sheet.

Max. size of cable conduit: 100 x 23 mm (B x W)

Panels (both types) are connected one to another by means of spline profile joints with dimensions 3 x 30 mm (T x W).

Total panels total thickness: 50 mm

The panels may be produced at the premises of Site Factory, 311 Yongjeonsaneopdanji-gil, Samnangjin-eup, Miryang-si, Gyeongsangnam-do, Korea.

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

Application/Limitation

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

Max. size of panels: 2480 x 600 mm (H x W)

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.

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, use and maintenance.

Type Approval documentation

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

Test report No. KOMERI-0402-14T1265 dated 24th May 2016 from Korea marine Equipment Research Institute.

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.



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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.