DNV·GL

Certificate No:
TAF00000EV

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class B Bulkhead

with type designation(s)
B-15 Class Bulkhead (UB-802)

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.

Product approved by this certificate is accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2021-08-08**.

Issued at **Høvik** on **2016-11-22**

for **DNV GL**

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

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.

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Product description

"B-15 Class Bulkhead (UB-802)"
bulkhead panels consisting of 15 mm mineral wool with nominal density of 200 kg/m^3 (by Byucksan Nittobo Co., Ltd) an 20 mm air gap and 15 mm mineral wool with nominal density of 200 kg/m^3, faced on both sides with 0.6 mm steel sheet by the means of adhesive. The panels are connected to each other by joint profiles (1.2 mm steel) and self tapping screws.

Total panel thickness: 50 mm.

For further details see approved drawing listed in Type Approval documentation below.

Application/Limitation

Max panel size: 605 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 or IMO FTPC Parts 2 and 5 when in compliance with the 2010 FTP Code Ch. 5.2 and 8) 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, use and maintenance.

Type Approval documentation

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

Test report No. 2006-0207 dated 15th June 2006 from Fire Insurers Laboratories of Korea (FILK).

Drawing No. P-060306-2 dated 6th March 2006 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.

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 listed in this certificate is 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.