

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Horizontal Class B Division

with type designation(s)
B-15 Class Ceiling Panel C-602N

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 horizontal 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 **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: **TAF00000GZ**

Product description

"B-15 Class Ceiling Panel C-602N"

composed of 25 mm thick mineral wool with nominal density of 60 kg/m³ (manufactured by KCC Corporation) covered with 0.6 mm thick perforated (Ø1.8mm, pitch 10 mm) steel sheets on exposed side. Panels are covered on the top with 50mm thick insulation of the same type as above.

The panels connected by means of tongue-and-groove joint to the 1.6 mm thick, steel main runners. Main runners are stiffened by 1.6 mm thick, steel cross runners. Main and cross runners are connected by means of hanger hooks. The cross runner is fixed to the deck by means of steel L-hanger sockets (100 x 75 x 7 mm) and steel hanger rods (Ø14mm). Hanger rods are screwed to the cross runners, and L-hangers sets welded to the deck.

At the shorter side profiles are connected to the to the 0.6 mm thick joint profile by means of self drilling screws (Ø1.8x13 mm, pitch 300 mm).

Total thickness of the panels is 25 mm + 50 mm (Insulation).

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

Max. distance between main runners:	1400 mm
Max. distance between main runner and joint profile/bulkhead:	300 mm
Max. distance between cross runners:	2000 mm
Max. distance between hanger sets:	1500 mm

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

Application/Limitation

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

Max. panel width: 300 mm

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.

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-0402-15T1113 dated 22nd June 2015 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.



Job Id:
Certificate No: **TAF00000GZ**

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.