DNV·GL

Certificate No:
TAF00001BT

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Horizontal Class B Division

with type designation(s)
B-0 CLASS CEILING (C-604)

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-0.

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 **2020-01-13**
This Certificate is valid until **2025-01-12**.
DNV GL local station: **Gimhae Station**

Approval Engineer: **Joanna Kowalczuk**

for **DNV GL**

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.

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Product description
"B-0 CLASS CEILING (C-604)"
ceiling panels consisting of an insulation core of 25 mm thick mineral wool of density 60 kg/m³ (manufactured by KCC Corporation) covered with 0.6 mm thick galvanized steel sheets on one side.

Along one of the edges in the longitudinal direction, at a distance of 25 mm, the panels consist only of galvanized steel sheets which are connected to the edge of the adjancent panel and to transverse main runners with M4x16 self drilling screws (max. distance between screws: 300 mm). In the transverse direction, the ceiling panels are connected together with 0.6 mm thick joint profiles fixed to the panels with M4x16 self drilling screws (max. distance between screws: 300 mm). The ceiling is connected to deck with hanger sets from the main runners.

Total panel thickness: 25 mm

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

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

Application/Limitation
Approved for use as a horizontal fire retarding division of class B-0.

Max panel size is 300 mm x 2305 mm (W x H).

Max. distance between main runners and joint profiles: 300 mm
Max. distance between main runners: 1400 mm
Max. distance between hanger sets on main runner: 1200 mm

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.

The product is to be supplied with its manual for installation, use and maintenance.

Type Approval documentation
Certification in accordance with Class Program DNVGL-CP-0338, September 2018.

Test Report No. KOMERI-0402-13T1065 dated 24 March 2014 from (KOMERI), Korea.

Drawing No. P-130313-3 dated 13 March 2013 from the manufacturer.
Drawing No. P-130313-4 dated 13 March 2013 from the manufacturer.

Tests carried out
Tested according to IMO 2010 FTP Code Part 3.

Marking of product
The product 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.

Job Id: **262.1-019327-2**
Certificate No: **TAF00001BT**

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.