

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Horizontal Class B Division**with type designation(s)
Ceiling Panel DJ-619 B-15 Class

Issued to

Daejin SAT Co., Ltd.
ULSAN, KYONGSANGNAM-DO, Republic of Koreais found to comply with
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations
DNV GL rules for classification – Ships
DNV GL offshore standards**Application :****Approved for use as a horizontal fire retarding division of class B-15.****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 **2018-08-20**This Certificate is valid until **2023-08-19**.for **DNV GL**DNV GL local station: **Ulsan**Approval Engineer: **Karolina Kusmider**.....
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: **262.1-014921-2**
Certificate No: **TAF00000YR**

Product description

"Ceiling Panel DJ-619 B-15 Class"

Ceiling composed of panels suspended below the structural deck. Panels consist of 50 mm thick mineral wool (manufactured by Byucksan Co., Ltd.) with density 80 kg/m³ and faced on exposed side with 0.6 mm galvanised steel sheet.

The panels are connected to each other on the short side by T-carriers with hangers spaced at 1200 mm.

Max. distance between T-carriers: 2350 mm

Total panel thickness is 50 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 size: 300 mm x 2350 mm (width x height).

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 and maintenance.

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2017.

Test report No. KOMERI-0402-12T1967 dated 10 January 2013, from "KOMERI" Korea Marine Equipment Research Institute.

Drawing No. DJ-01-121214-01 (6 pages) from manufacturer.

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 and address 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.

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.