DNV·GL

Certificate No:
TAF00000YH

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Horizontal Class B Division

with type designation(s)
B-0 class suspended ceiling FIPRO or FIPRO MS (10 mm thick)

Issued to
MINERALKA Proizvodnja negorljivih materialov d.o.o.
Cerknica, Slovenia

is found to comply with
DNV GL rules for classification – Ships
DNV GL rules for classification – Offshore units
DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations

Application :

Approved for use as a fire retarding division of class B-0.
When the ceiling is suspended 235 mm below the structural steel deck, the whole construction may be regarded as a fire retarding division of class A-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 **Hamburg** on **2018-06-18**
This Certificate is valid until **2023-06-17**.
DNV GL local station: **Koper**

Approval Engineer: **Pavel Golyshev**

for **DNV GL**

Jörg Kallies
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 suspended ceiling FIPRO or FIPRO MS (10 mm thick)"
Principle components: suspended B-0 ceiling consisting of 10 mm thick vermiculite FIPRO (nominal density 800 kg/m³) or FIPRO MS (nominal density 650 kg/m³) panels. The panels are assembled into the ceiling framework using longitudinally and transversally arranged steel omega profiles of specification 46 mm x 10.2 mm x 0.8 mm combined with the steel C-type profiles. These are further connected to the ø8 mm threaded steel rods by means of ø4.2 mm x 10 mm self-tapping screws at a distance of 300 mm. The threaded rods are welded to the steel deck or to the deck's stiffeners. Further details acc. to drawings 2/2016 (pages 2 and 3) of the test report.

Total panel thickness (excluding connecting steel profiles): 10 mm.

For further details, see test report listed under Type Approval documentation below.

Application/Limitation

Max. panel size is 600 mm x 2420 mm (width x length).

Any surface materials used have to be approved for smoke and toxicity and low flame-spread characteristics (IMO 2010 FTP Code Annex 1, 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 Annex 1, 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 2017.

Test Report No. P 0486/16-530-2 dated 12th of July 2016 issued by ZAG – Slovenian National Building and Civil Engineering Institute, Fire Laboratory, Slovenia.

Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex 1, Part 3.

Marking of product

The product 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.