

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Horizontal Class B Division**with type designation(s)
CLASS B-15 CEILING

Issued to

Mineralka d.o.o. Cerknica
CERKNICA, Slovenia

is found to comply with

Det Norske Veritas' Interpretation of SOLAS 1974 Convention as Amended
Det Norske Veritas' Offshore Standards
Det Norske Veritas' Rules for Classification of Ships**Application :****Approved for use as a fire retarding division of class B-15.****When the ceiling panels are suspended 224 mm below a structural steel deck, the whole construction is to be regarded as a fire resisting division of class A-30.****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.**This Certificate is valid until **2019-06-28**.Issued at **Høvik** on **2015-06-29**DNV GL local station: **Pula**for **DNV GL**Approval Engineer: **Silje Helene Waagaard**

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: **262.1-011763-3**
Certificate No: **TAF000001E**

Product description

"Class B-15 Ceiling"

composed of 19 mm "FIPRO MS" panels of density 650 kg/m³ ±10% covered with 0,8 mm laminate on both sides. The ceiling is suspended by means of steel profiles and steel hangers below the structural deck. The joints may be fitted with insulation or not. Self tapping screws (Ø4.2 x 19 mm) are used every 300 mm for panel suspension to steel hangers.

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

Application/Limitation

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.

Max ceiling panel size is 600 x 1200 mm (width x length).

Each product is to be supplied with its manual for installation and maintenance.

Type Approval documentation

Certification in accordance with Standard for Certification No. 1.2, Type Approval, January 2013.

Test report nos. P 124/02-530-2 dated 5 March 2002 from ZAG, Slovenian National Building and Civil Engineering Institute, Ljubljana, Slovenia.

Tests carried out

Tested according to IMO FTPC Part 3, and in compliance with IMO 2010 FTP Code Ch.8.

Marking of product

The product is to be marked with name of manufacturer, type designation, 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 Standard for certification No. 1.2 Type Approval Item 4.