

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Non-Combustible Material**

with type designation(s)

Sikafloor Marine Litosilo X

Issued to

**Sika Services AG
ZURICH, Switzerland**

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 vertical fire retarding division of class A-60.****This certificate is recognised by Transport Canada.****Product approved by this certificate is accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2018-01-03**for **DNV GL**This Certificate is valid until **2023-01-02**.DNV GL local station: **Augsburg**Approval Engineer: **Timo Linn**

**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.



Job Id: **262.1-027348-1**
Certificate No: **TAF00000V1**

Product description

"Sikafloor Marine Litosilo X"

Floating floor composed of a steel deck insulated on top with minimum 20 mm thick rock wool slabs designated "Rockwool Marineslab SeaRox 436" (density 140 kg/m³) and covered with minimum 25 mm thick concrete compound designated "Sikafloor Marine Litosilo X" (density 1300 kg/m³).

Application/Limitation

Approved for use as vertical fire retarding division of class A-60.

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.

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. PX06834 dated 14th of December 2010 from SP Technical Research Institute of Sweden demonstrating Class A-60 deck (Litosilo N).
- Test report No. 766.4IMO070/15 dated 15th of May 2015 from LAPI Laboratorio Prevenzione Incendi S.p.A. (non-combustibility test for Litosilo X).
- Assessment No. 6P03918-6 dated 20th of May 2016 from SP Technical Research Institute of Sweden verifying equivalence of Litosilo N and X fire behaviour.

Tests carried out

Tested according to IMO 2010 FTP Code Part 3 and IMO 2010 FTP Code Part 1.

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 products listed in this certificate 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.