



TYPE APPROVAL CERTIFICATE

Certificate No:
TAF00001JT
Revision No:
1

This is to certify:

That the Primary Deck Covering

with type designation(s)
Sikafloor®Marine VEM Steel

Issued to
Sika Services AG
Zürich, ZH, 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 :

Primary deck covering, not generating excessive quantities of smoke nor toxic products in fire.

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 **2021-07-09**

for **DNV**

This Certificate is valid until **2026-07-08**.

DNV local station: **Augsburg**

Approval Engineer: **Timo Linn**

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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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Sikafloor® Marine VEM Steel is a Primary deck and floor covering, consisting of VEM X and tiles of steel. Constrained visco-elastic damping system.

consisting of following layers:

Layer 1:

VEM X consisting of organic substance 28 %, cement binders 27 %, Mineral aggregates 41 %, approximately, and additives to complement to 100 %.

The product has a nominal thickness of 1 – 2 mm, and a nominal area weight of 2.6 kg/m² and a nominal density of 1300 kg/m³. The colour of the product is cement grey.

Layer 2:

The VEM X was covered with steel tiles, with a nominal density of 7800 kg/m³. Approximately 85 – 90 % of the surface was covered.

Application/Limitation

Approved for primary deck covering, not generating excessive quantities of smoke nor toxic products in a fire.

Approved for use as primary deck coverings on any low flame-spread floor covering, steel or non-combustible material.

Not to be used as an integrated part of horizontal class A division, unless tested as such.

The product may also be used as floor covering in accordance with IMO 2010 FTP code part 5 appendix 4 paragraph 4.9.2.

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, September 2018.

Test reports: 8P01662-2rev1 issued by RISE Research Institutes of Sweden AB.

Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex 1, Part 5 and Annex Item 2.2.

Marking of product

The product or packing 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 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.