



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2011/75/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. **MED-B-8156**

This is to certify that the
"A" Class divisions, fire integrity

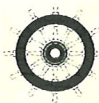
with type designation(s)
Sikafloor Marine Litosilo Steel

Manufacturer
Sika Services AG
ZURICH, Switzerland

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/3.2.5 and IMO FTP Code.

Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2013-02-12
for **Det Norske Veritas AS**



This Certificate is valid until
2018-02-12

Notified Body No.: **0575**


Marianne Strand Valderhaug
Head of Department

DNV local office:
Copenhagen


Martin Gjelstad
Surveyor



The Certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this Certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-8156
Item No.: A1/3.11a
Job Id.: 344.1-000805-2

Product description

“Sikafloor Marine Litosilo Steel”

floor composed of a steel deck insulated on top with minimum 50 mm “SeaRox SL 436” (140 kg/m³), minimum 3 mm steel plates with steel strips fastened to the underside, maximum 2 mm “Sikafloor PU-RED” or MED approved Sika Adhesive and minimum 1,5 mm galvanized steel plates.

Total thickness is minimum 55.5 mm.

For further details see approved drawings listed below.

Application/Limitation

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

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the Mark of Conformity. This requirement may also be applicable for surface materials used, if required by relevant rules and regulations.

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

Type Examination documentation

Test reports Nos:

GERBAM RE GM 444/02/A/NP/R 102 dated 26 September 2002

Statement No. GERBAM 445/02/A dated 12 July 2002.

Both from Laboratoire de résistance au feu de la Direction des Centres d'expertise et d'essais/Groupe d'Etude et de Recherche en Balistique, Armes et Munitions, Plouhinec, France.

Drawings:

SikaFloor Marine Litosilo Steel (50 mmRW), Section, Rev. 00, and SikaFloor Marine Litosilo Steel, Rev. 00. Both are dated 7 March 2007 from Sika Danmark A/S.

Tests carried out

Tested in accordance with IMO FTPC Part 3 and in compliance with IMO 2010 FTP Code Ch. 8.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG Approval number if applicable (see below and page 3).

Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.





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USCG Approval

An U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of certificates of conformity for marine equipment" signed 17 October 2005.

