DNV·GL

Certificate No:
MEDB00005ZN

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Primary deck coverings

with type designation(s)
TEFRO®floor EP

Issued to
G. Theodor Freese GmbH
Bremen, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397,**
item No. MED/3.1. SOLAS 74 as amended, Regulation II-2/4, II-2/6 & X/3, 2000 HSC Code 7 and IMO 2010 FTP Code

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

This Certificate is valid until **2024-11-19**.
Issued at **Hamburg** on **2019-11-20**

DNV GL local station:
Hamburg

Approval Engineer:
Roland Priebe

Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
Head of Notified Body

A 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 European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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Product description

TEFRO®floor EP is a primary deck covering consisting of solvent-free 2 component epoxy resin made of EP resin and hardened with aliphatic polyamine.

The mixing ratio of epoxy resin and hardener is 100:45 and with a ratio of 1:6 the TEFROKA KH-filler is added.

Thickness:	2 - 30 mm
Density:	1.7 kg/dm³
Color:	Grey-brown
Organic content:	14,3 %

For further details refer to the documentation listed below under "Type Examination documentation".

Application/Limitation

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

The product may be applied over any 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.

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

Type Examination documentation

Test report No. 2019-1867 dated 13th August 2019 from Warringtonfire, Frankfurt, Germany.
Test report No. 2019-1904 dated 30th August 2019 from Warringtonfire, Frankfurt, Germany.

Tests carried out

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex 1, Part 2 and Part 5

USCG Approval Category (Module B) number

This product has been assigned a U.S. Coast Guard Module B number 164.106/EC0098 to note type approval to Module B only as it pertains to obtaining US Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 27th, 2004 and amended by Decision No.1/2018 dated February 18th, 2019.

Marking of product

The product or packing is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG approval number (see page 1).