

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000085W

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

That the A & B Class divisions fire integrity: A class divisions.

with type designation(s)

Class A-60 deck , Type: Marine Screed Plus

Issued to

CEMART NV
Nazareth, Belgium

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2022/1157**,

item No. MED/3.11a. SOLAS 74 as amended, Regulation II-2/3.2 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1434,1435; IMO MSC.1/Circ.1616, 1621

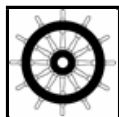
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-08-08**.

Issued at **Høvik** on **2023-08-09**

DNV local unit:
Belgium CMC

Approval Engineer:
Timo Linn



Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
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 United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005, and amended by Decision No 1/2019 dated February 22nd, 2019.



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 AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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

A self-leveling cement floor on a deck, type: Marine Screed Plus, which creates a class "A-60" deck consisting of: 5 mm thick steel deck construction with outer dimensions: 3980 mm x 3020 mm fixed by means of welded-on fixing cleats by means of bolts and washers. The longitudinal stiffeners are made of 8 mm thick Steel, the section dimensions are 70 mm x 100 mm. The transversal stiffeners are made of 8 mm thick steel, 100 mm in width and 3020 in length.

Outer dimensions of the self levelling cement floor without the side insulation are as follows:
width: 3020 mm; length: 3980 mm; thickness: 40 mm.

The deck construction is as follows from bottom to Top:

Insulation

Brand and type: Rockwool SeaRox SL 436

Material: stone wool provided with an aluminum sheet with a thickness of 0.2 mm – thickness: 20 mm

Dimensions: 600 mm x 1000 mm, density: 131.4 kg/m³, organic content: 1.4%.

Mesh sheets

Material: steel, mesh size and wires: 50 mm x 3 mm, sheet dimensions: 1000 mm x 1000 mm.

Quartz material

Gravel (diameter: 8 mm – 10 mm), layer thickness: ±15 mm.

Fills up the apertures of the mesh sheet.

Mortar

brand and type: Cemart Marine Screed Plus with a layer thickness of 20 mm, density: 951.2 kg/m³, moisture content: 2,7% measured at 50°C – batch number: 200F Marine 11/12/19 10:02.

In between and on top of the mesh sheet and the quartz, creating a thickness of 20 mm between the top of the insulation layer and the top of the mortar.

Side insulation

Brand and type: Rockwool SeaRox SL 480, material: stone wool with a thickness of 15 mm. Dimensions: 1000 mm x 65 mm, density: 200 kg/m³ (NV), organic content: 2.5%.

3 upright strips on top of the deck construction.

All around the floor which provides a height of 25 mm above the mortar layer.

Total thickness: 78 mm

For further details see test report and drawings listed under Type Examination documentation 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 maintenance.

Type Examination documentation

Test Report No.20131A dated 05 March 2021, from Warringtonfire, Gent, Belgium.

Tests carried out

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

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).