EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000AVN
Revision no.:
0

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

This is to certify:

that the **A' & 'B' Class divisions fire integrity: - 'A' class division**

with type designation(s)
CBG SeaPan FF 30/60

issued to
CBG Composites GmbH
Wipperfürth, **Germany**

is found to comply with the Implementing Regulation **(EU) 2024/1975** for
Item no. **MED/3.11a** (Row **1 of 2**)
according to the following requirements:
SOLAS 74 Reg. II-2/3.2, SOLAS 74 Reg. II-2/9, IMO MSC.1/Circ.1434, IMO MSC.1/Circ.1616., IMO MSC/Circ.1120

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

Date of issue: **2025-03-14**

Expiry date: **2030-03-13**

DNV local unit:
Class Systematics, Data and Operation Centre

Approval Engineer:
Meike Grabau

Notified Body
No.: **0098**

for **DNV SE**

Christine Mydlak-Röder
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, and amended by Decision No 1/2023 dated May 26th, 2023.
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

Product description

"CBG SeaPan FF 30/60"
is a floating floor sandwich panel constructed of 10 layers, which are glued to each other and to the structural steel deck by approved adhesive. The basic structure is composed of top and bottom layer of 0.5 mm ceramic basalt fiber laminate “LtGC-300.001” (density: 1177 kg/m³) by CBG. In between are several layers of:

- 0.5 mm (5 layers) ceramic basalt fiber laminate “LtBC-480.001” (density: 1183 kg/m³) by CBG
- 12.5 mm (2 layers) rock wool “LifeRock MW-180” (density: 180 kg/m³) by CBG
- 1 mm of multilayer, steel-ceramic glaze laminate “TopSkin” by CBG is applied on top of the basic structure.

The panels were recessed at the joints on the underside and underlaid with a 60 mm x 12 mm wedge, composed of 0.5 mm (2 layers) ceramic basalt fiber laminate “LtBC-480.001” (density: 1183 kg/m³) by CBG and one layer in between of 12.5 mm rock wool “LifeRock MW-180” (density: 180 kg/m³) by CBG glued to each other by approved adhesive.

Total nominal thickness of floating floor: 29 mm

Total nominal density: 466 kg/m³

For further details, see Type Examination documentation.

Application/Limitation

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

Maximum panel size: 600 mm x 2980 mm (W x L)

The insulation materials and adhesives used have to be approved according to the Marine Equipment Directive and bear the MED 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

Tests carried out

Tested 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).