

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)

DAMPA Marine DCC Ceiling system - DC 215/315

Issued to

Dampa ApS
TOMMERUP, Denmark

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

Annex A.1, item No. A.1/3.11b and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2.3.4.4. and IMO 2010 FTP Code.

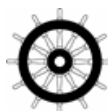
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-09-16**.

Issued at **Høvik** on **2016-09-17**

DNV GL local station:
Fredericia

Approval Engineer:
Tessa Biever



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Product description

"DAMPA Marine DCC Celing system - 215 /315"

composed of 25 mm thick mineral wool of type "Rockwool SeaRox SL 720-SC" with nominal density of 32 kg/m³ (manufactured by Rockwool A/S), covered with 0.6 mm thick perforated steel sheets (max. $\phi=1.8\text{mm}$, 20.5%) on exposed side and around the edges of the panel. Between insulation and steel sheets, a sealing membrane of aucustic felt is fitted.

Total panel thickness is 26 mm.

Along one of the longitudinal edges the panels have a 37 mm steel flange. The panels are fixed by clicking the flange into the small hooks in the module carrier No. 16 and the Angle Runner No. 29 and by means of small self-tapping screws (spacing according to distance between modular carriers below) on all edges where the panals are overlapping.

In transverse direction the panels are connected to joining panels by means of pop-rivets. The rivets are placed in the middle of the panel flange and approx. 15 mm from the edge of the flange of the joining panel.

The joining panel consists of a 0.6 mm thick steel profile on exposed side (total width of 159 mm) with 54.5 mm flanges. The steel profile is filled with 25 mm thick mineral wool of type Rockwool SeaRox SL 720-SC with nominal density 32 kg/m³ (manufactured by Rockwool A/S)

The ceiling is connected to the steel deck with adjustable suspension hanger sets connected to U-profile (51 mm x 34 mm x 1 mm) modular carriers in transverse direction. The main modular carriers are placed along the whole width of the ceiling.

For further details, please see drawing listed under Type Examination documentation below.

Application/Limitation

Approved for use as a horizontal fire retarding division of class B-0. When the ceiling panels are constructed as described above and are combined with an A-class steel deck, the whole construction is to be regarded as a fire resisting division of class A-15.

Maximum panels widths:

- Panel DCC-215: 200 mm
- Panel DCC-315: 300 mm

Maximum distance between modular carriers for DCC-215 and DCC-315: 1200 mm

Maximum Suspensions spacing along the modular carriers: 900 mm up to 1200 mm

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 Report No.PGA10390 dated 2015-01-15 from Danish Institute of Fire and Security Technology, Denmark.

Job Id: **344.1-005998-1**
Certificate No: **MEDB00001NA**

Drawings from manufacturer:

- 004.00/06 dated 2015-01-15 (modular carrier No.16)
- 015.00/09 dated 2015-01-15 (joining panel No.2)
- 039.00/09 Rev.A dated 2015-01-07 (ceiling panel type DCC 315/215)
- 006.00/09 dated 2015-01-15 (edge trim No.13)
- 003.00/06 dated 2015-01-15 (suspension No.1)
- 007.00/06 dated 2015-01-15 (suspension No.3)
- 002.00/06 dated 2015-01-15 (Rod clip No.2)
- 001.00/06 dated 2015-01-15 (Threaded Rod M8)
- 012.00/09 dated 2014-10-27 (Edge trim No.26 – 0,6)
- 014.00/09 dated 2015-01-15 (clip inlay No.3)
- PGA10390-1 dated 2014-11-04 (Ceiling overview)
- PGA10390-2 Rev. A 2015-01-07 (Ceiling system 3D)

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name of manufacturer, type designation, fire-technical rating, Mark of Conformity and USCG number if applicable (see page 1).