DNV·GL

Certificate No:
MEDB00002ZG

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

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 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)
DCC 200/300/600 B-0/B-15

Issued to
Dampa ApS
Tommerup, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2.3.4 & II-2/9 and IMO 2010 FTP Code

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

This Certificate is valid until **2022-09-17**.

Issued at **Høvik** on **2017-09-18**

DNV GL local station:
Fredericia

Approval Engineer:
Fryderyk Hoga

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
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.

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

NORWEGIAN ACCREDITATION PROD 019

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Product description

"DCC 200/300/600 B-0/B-15"
composed of a 22 mm thick insulation type "Rockwool SeaRox FB 6040" manufactured by Rockwool B.V. with nominal density of 60 kg/m³ covered by 0.5 mm (DCC 200)/0.6 mm (DCC 300/600) thick perforated (DCC 215/315/615), galvanized steel panel on exposed side. The steel sheet on exposed side is perforated with ø1.8 mm holes at 3.5 mm and fitted with a 0.25 mm thick "Felt Royalin R6/40 Foil". On top of the panels, one layer of a 50 mm thick insulation type "Rockwool SeaRox SL 740" manufactured by Rockwool B.V., with nominal density of 45 kg/m³ is placed.

The panels are jointed along shorter edge by a 0.6 mm thick joining panels in size 55 x 27.5 x 50 mm.

For further details of joining ceiling panels to the deck (hangers/modular carrier profiles) see tests report below.

Total thickness: 25 mm + 50 mm

Alternative execution: Ceiling membrane can be executed without perforation. (DCC 208/308/608)

The panels may be fitted with:

- Lights – circular downlight ø140 type "Glamox Enerba G4913701", rectangular light box 310 x 96 x 65
- Ventilation unit – SABU-500, SABU-300, EAB-R, SAN ø100, SAN ø160 or EAN ø160
- Inspection hatch type SL470 with piano hinge – 600 x 600 mm (W x L) or 600 x 300 mm (W x L)

For further details about insulation see test report no. PGA 11009A below.

Total access hatch thickness: 25 mm

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

Application/Limitation

Approved for use as a Class B-15 Ceiling (expect EAB-R 4/2 approved for use in Class B-0 Ceiling). When the ceiling panels are suspended minimum 300 mm below a structural steel deck, the whole construction is to be regarded as a fire resisting division of class A-30.

Max. panel width:	600 mm
Max. size of access hatch:	600 x 600 mm (W x L)

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, use and maintenance.

Type Examination documentation

Test report No. PGA10990A dated 20 March 2017 and No. PGA11009A dated 29 June 2017, both from DBI Danish Institute of Fire and Security Technology, Hvidovre, Denmark.

Drawings Nos. PGA 10990A-1 and PGA 10990A-2 dated 01 March 2017, PGA 11009A-1 and PGA 11009A-2 dated 07 April 2017, all from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP part 3.

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 if applicable (see first page).