EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00008FT

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: B class divisions.

with type designation(s)
Self-Supporting B-15 Ceiling with hatch

Issued to
PANELSHIP S.L.
Ponteareas, Pontevedra, Spain

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2022/1157,**
item No. MED/3.11b. SOLAS 74 as amended, Regulation II-2/3.4 & II-2/9, IMO 2010 FTP Code, IMO MSC/Circ.1120 and IMO MSC.1/Circ.1581

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

This Certificate is valid until **2028-05-28**.

Issued at **Høvik** on **2023-05-29**

DNV local unit:
NB/CMC Team West

Approval Engineer:
Helge Bjørnarå

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Self-Supporting B-15 Ceiling with hatch"
It consists of steel sheet sandwich panels with each panel composed of 40 mm thick insulating core of "Board M12 PBE" (manufactured by Knauf Insulation with density of 120 kg/m³) covered with 0.6 mm thick galvanized steel plates on each side. The steel plate and the insulation are glued to each other with adhesive Kleiberit PUR-Leim 501.0 (manufactured by Klebchemie M.G. Becker GmbH & Co. KG). The panels are connected together in longitudinal direction with one side of panel on top and one below the adjacent panel.

Total panel thickness: 40.0 mm.

One side most panel does incorporate inspection hatch. Hatch consists of an insulating core of 43 mm thick "Board M12 PBE" (manufactured by Knauf Insulation with density of 120 kg/m³) covered with 0.6 mm thick galvanized steel plates on each side. The hatch is fitted to the ceiling panel primarily by locking system and additionally by nine screws. Total thickness of hatch leaf is 43.4 mm.

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

Application/Limitation

Approved for use as a horizontal fire retarding division (ceiling) of class B-15.

Panels are only to be joined along longitudinal edges.

Max. panel size: 376 x 3040 mm (W x L).
Max. size of hatch leaf: 336 x 600 mm (W x L).
Max. clear opening of hatch: 169 x 433 mm (W x L).

Ceiling edges to be structurally supported.

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. 067298-001-a dated 31 August 2017 from Tecnalia Research & Innovation, Azpeitia, Spain.

Statement No. 067298 dated 1 August 2018 from Tecnalia Research & Innovation, Azpeitia, Spain.

Drawing No. REF.TD17C04 dated 5 June 2017 from manufacturer.
Drawing No. REF.TD17C05 dated 5 June 2017 from manufacturer.
Drawing No. REF.TD17C07 dated 5 June 2017 from manufacturer.
Drawing No. REF.TD17C01 rev.1 dated 18 July 2018 from manufacturer.
Drawing No. REF.TD17C02 rev.1 dated 18 July 2018 from manufacturer.
Drawing No. REF.TD17C03 rev.1 dated 18 July 2018 from manufacturer.
Drawing No. REF.TD17C06 rev.2 dated 30 July 2018 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

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