

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000085S

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 C class Divisions

with type designation(s)
PANELFA C Class Ceiling

Issued to

PANELFA, S.L.
Mos-Puxeiros, Pontevedra, Spain

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

Regulation (EU) 2022/1157,
item No. MED/3.64. SOLAS 74 as amended, Regulation II-2/3.10,3.33 & 2/9 and IMO 2010 FTP Code and IMO
Res. MSC/Circ.1120

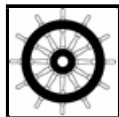
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-09-21**.

Issued at **Høvik** on **2022-09-22**

DNV local station:
Vigo

Approval Engineer:
Timo Linn



Notified Body
No.: **0575**

for **DNV AS**

Sverre Olav Bergli
Head of Notified Body



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"PANELFA C Class Ceiling", is composed of ceiling panels suspended below the structural deck by means of a supporting joining profile (T-bar) connected with a bolt to a hanger rod (supporting angle + tie rod). The panels consist of an approx. 15 - 40 mm thickness mineral wool "PBE Board M12", (MEDB00000JR Rev.4) with a density of 120 kg/m³ (manufactured by Knauf insulation d.o.o.) faced on the exposed side with 0.6 mm perforated or un-perforated galvanized steel sheets with glue "SYNTHEL PE 3015" (MEDB17/000008).

Panels are attached to bulkhead by outline L-shaped steel profiles along the longest edge of panels. These profiles are constructed of galvanized steel with a thickness of 1.2mm.

Max. panel size: 2200 x 300 x 15 / 40 mm (L x W x T)

For details of construction, please consult drawings mentioned under Type Examination documentation.

Application/Limitation

Approved as C class ceiling.

The mineral wool insulation has to be approved as non-combustible material according to the Marine Equipment Directive and bear the Mark of Conformity.

Any adhesive used has to be tested for low flame spread characteristics according to IMO 2010 FTP Code Part 5 and to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

Additional surface materials have to be approved for low flame-spread characteristics and smoke and toxicity (IMO 2010 FTP Code, Annex 1, Parts 2 and 5). Total volume of combustible material shall satisfy SOLAS Chapter II-2, Reg 5.3.2.3.

Each product is to be supplied with its manual for installation and maintenance.

Type Examination documentation

Drawing No.: C Class Ceiling_01, C Class Ceiling_02, C Class Ceiling_03 dated 15th February 2022 from PANELFA Insulation Solution

Tests carried out

Mineral wool "PBE Board M12"

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex 1, Part 1.

Adhesive SYNTHEL PE 3015

Tested according to IMO Res. MSC.307(88) – 2010 FTP Code Annex 1, Part 5 and Annex 2 item 2.2 and 2.3

Marking of product

The product is to be marked with name and address of the manufacturer, type designation, fire technical rating and MED Mark of Conformity.