

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00004Y3
Revision No:
3

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)
Weiss Hellas C Class Ceiling Metal Panels & Metal Tiles & Metal Flat Ceiling Beams

issued to
WEISS HELLAS - INTERNA S.A.
Markopoulo Attikis, Greece

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2023/1667,
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

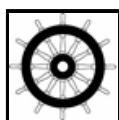
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-02-08**.

Issued at **Høvik** on **2024-02-09**

DNV local unit:
Piraeus

Approval Engineer:
Timo Linn



Notified Body
No.: **0575**



for **DNV AS**

Digitally Signed By:
Tessa Biever
Location: **DNV Høvik, Norway**
on behalf of

Mydlak-Röder, Christine
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 1/2023 dated August 21st, 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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

"Weiss Hellas C Class Ceiling Metal Panels & Metal Tiles & Metal Flat Ceiling Beams", composed of steel or aluminium panels, perforated or un-perforated, of thickness of approximately 0.5-0.7 mm.

The Metal Panels & Metal Tiles & Metal Flat Ceiling Beams may be fitted with following surface materials:

- Insulation mineral wool in plastic bag "KIMMCO Fiberglass insulation" (12-64 kg/m³) and "HDPE 30/35 FR Black" (1.35-1.45 kg/m³) total thickness 45 mm fitted on panel.
- Black acoustic inlay 0,27mm "Soundtex C1986 SP (Freudenberg, 63 g/m²), tested with metal panel named "Pannello Metallico Con Soundtex C 1986 SP Termoapplicato" with a total thickness of appr. 0.8 mm. The top layer is 0.085 mm white polyester paint (Akzo Nobel, 130 g/m²) on 0.5 mm perforated steel sheet (Atena, 3.9 kg/m²).

It applies also for the following approved Products:

- PVC laminated panel, type "Decorplate" from REPLASA Advanced Materials, S.A.
- PVC Film by "LX HAUSYS INTERIOR Film (BENIF)" from LX Hausys, Busan.
- Painted panel by "Serie 30.MED" from STARDUST Powder Coatings SRL
- Painted panel by "Syntha Pulvin PE/P/M and PE/P MATT" from INVER France SAS
- Painted panel by "INTERPON POLIESTERE TGIC FREE" from AKZO NOBEL COATINGS SPA
- Painted panel by "Pulverit 5 (Serie 5)" from PULVERIT S.P.A., Italy.

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

Application/Limitation

Approved as C class ceiling.

If the mineral wool insulation will be used as fire insulation, it shall satisfy the non-combustibility requirements.

Additional surface materials have to be approved for low flame-spread characteristics and smoke and toxicity (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.

The product satisfies the requirement for maximum calorific value (ref. SOLAS Chapter II-2, Reg 5.3.2.2) without further testing.

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

Type Examination documentation

Test report no. PFB10401C dated 9 July 2020 from DBI, Hvidovre, Denmark.

Test report no. 369474 dated 14 February 2020 from Istituto Giordano, Getteo, Italy.

Drawing for "Flat Ceiling Beam", Rev. B, dated 5 October 2010 (1 drawing).

Drawing for "Strips Module 100-200-300", Rev. E, dated 4 August 2020 (2 drawings).

Drawing for "Clip-in Tile", Rev. E, dated 4 August 2020 (2 drawings).

Tests carried out

Tested according to 2010 FTP Code Annex 1, Part 5 and in compliance with Annex 2, item 1, 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.