

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 Norway.

This is to certify:

That the "B" Class divisions, fire integrity

with type designation(s)
Meta MMC-300 (Perforated B-0)

Issued to
Meta AS
ÅLEN, Norway

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397**,
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

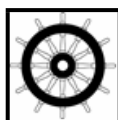
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-03-01**.

Issued at **Høvik** on **2020-03-02**

DNV GL local station:
Trondheim

Approval Engineer:
Thorvald Furuseth



Notified Body
No.: **0575**

for **DNV GL AS**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

Meta MMC-300 (Perforated B-0)

Is a ceiling system composed of 0.55 mm thick and 300 mm wide steel panels (perforated) suspended below a structural steel core. The panels are insulated with 25 mm glass wool with type designation "Ultimate SeaProtect slab" with density 36 kg/m³ manufactured by Isover Saint-Gobain.

Thickness of the ceiling is 25 mm.

Along the panel length, the panels are jointed together by carrier profiles with screws (Ø3.9 x 13 mm) and carrying nabs on the carrier profiles. Along the short ends the panels are jointed together in an end to end connecting profile.

The ceiling panels can be fitted with an inspection hatch 300 mm x 300 mm (W x L).

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

Application/Limitation

Approved for use as a class B-0 ceiling panel and when the ceiling is suspended at least 275 mm below a steel deck the whole construction may be regarded as fire retarding division of class A-15.

Max. panel size: 300 mm x 2950 mm (W x L).

Max. distance between hangers, longitudinal direction: 530 mm

Max. distance between hangers and connecting profile, longitudinal direction: 150 mm

Max. distance between hangers and bulkhead, longitudinal direction: 300 mm

Max. distance between hangers, transvers direction: 950 mm

Max. distance between hangers and bulkhead, transvers direction: 255 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. 150070-23-T2 dated 13 May 2019 from RISE, Trondheim, Norway.

Drawing No. 118397-B0 dated 25 February 2019 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, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).