



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. **MED-B-5301**

This is to certify that the
"B" Class divisions, fire integrity

with type designation(s)
META MMC-300 Ceiling

Manufacturer
Meta AS
ÅLEN, Norway

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

Annex A.1, item No. A.1/3.11b and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2.3.4.4. and IMO FTP Code.

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

Høvik, 2009-06-29
for Det Norske Veritas AS



Notified Body No.: **0575**

This certificate is valid until
2013-04-17


Eivind Mykland
Head of Department

DNV local office:
DNV Trondheim


Rolf Emilsen
Surveyor



Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.
The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-5301
Item No.: A1/3.11b
Job Id.: 344.1-001365-2

Product description

“META MMC-300”

Alternative A:

Ceiling system composed of 0.55 mm thick and 300 mm wide perforated or unperforated steel panels suspended below a structural steel core. The panels are insulated with 20 mm stone wool with type designation “Marine A” (producer: Paroc) with density 70 kg/m³. The overall thickness of the ceiling is 25 mm. The panels are fixed to the carrier profiles with screws. The ceiling is fixed to the structural core with adjustable hangers, type I and II. The distance between the hangers is maximum 1200 mm in each direction.

Alternative B:

Ceiling system composed of 0.55 mm thick and 300 mm wide steel panels (unperforated) suspended below a structural steel core. The panels are insulated with 20 mm stone wool with type designation “Isover Ultimate U PMN 36” with density 36 kg/m³. The overall thickness of the ceiling is 25 mm. The panels are fixed to the carrier profiles with screws. The ceiling is fixed to the structural core with adjustable hangers, type I and II. The distance between the hangers is as shown on drawing 115135 Rev A from Meta AS.

For alternative B an inspection hatch 300 x 300 mm may be fitted.

Applications/Limitations

Alternative A:

Approved for use as a class B-0 ceiling panel.

Alternative B:

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.

The insulation used has to be approved according to the Marine Equipment Directive and bear the Mark of Conformity.

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

Type Approval documentation

Test Report No. 103020.31 dated 27 June 2003, Assessment Report No. 103201.31 dated 4 August 2003 and No. 103020.81 dated 20 of May 2009 from SINTEF Civil and Environmental Engineering, Trondheim, Norway.
Drawing No. 115135 Rev A dated 22 April 2009 from Meta AS.

Tested according to FTP Code, Annex 1, Part 3 (IMO Res. A.754(18)).

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating, MED Mark of Conformity and USCG marking (see page 3).





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Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity.

USCG Approval

An 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.

