

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 2010/68/EU, 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-7641**

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

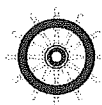
with type designation(s)
Grenamat A - Ceiling B-0 & B-15

Manufacturer
GRENA, a.s.
Veselí nad Lužnicí, Czech Republic

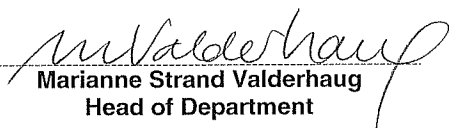
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.11b and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2.3.4.4. and IMO FTP Code.

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

Høvik, 2012-03-20
for **Det Norske Veritas AS**

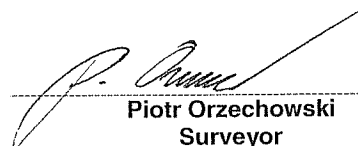


This Certificate is valid until
2017-03-20


Marianne Strand Valderhaug
Head of Department

Notified Body No.: **0575**

DNV local office:
Czechia

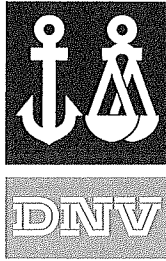

Piotr Orzechowski
Surveyor



SEGA



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-7641
Item No.: A1/3.11b
Job Id.: 344.1-000118-8

Product description

"Grenamat A - Ceiling B-0" and "Grenamat A - Ceiling B-15"

composed of a free-standing fire-resistant ceiling built into the supporting construction.

Max. dimensions are 610 x 2440 mm (W x L).

The ceiling consists of a Grenamat A board, 16 mm thick, with a density of 750 kg/m³. The board is coated on both sides with HPL sheet, 0.8 mm thick. The sheet is attached by PVAc dispersion glue, 160 g/m² (to be MED approved according to IMO FTPC part 5).

The panels are fitted together either by galvanised steel Ω profiles or galvanised steel tongue.

Application/Limitation

Approved for use as a horizontal (ceiling) fire retarding division of class B-0 and B-15.

The insulation material and any adhesives and surface materials used have 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, use and maintenance.

Type Examination documentation

Test Report No. Zp-02-02.002 dated 30 January 2002 from PAVUS a.s., Fire technical laboratory, Praha, Czech Republic.


Tests carried out

Tested according to IMO FTPC Part 3 (IMO Res. A.754(18)).

Marking of product

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

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 Certificate of 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.

