

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-7643**

This is to certify that the
Non-combustible materials

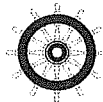
with type designation(s)
Grenamat A

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

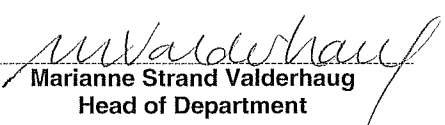
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.13 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/3 II-2/5, II-2/9 & X/3, 2000 HSC Code 7 and IMO FTP Code

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

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

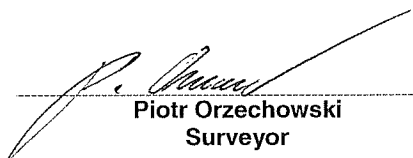


This Certificate is valid until
2017-03-20


Marianne Strand Valderhaug
Head of Department

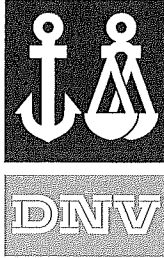
Notified Body No.: **0575**

DNV local office:
Czechia


Piotr Orzechowski
Surveyor



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-7643
Item No.: A.1/3.13
Job Id.: 344.1-000118-8

Product description

"Grenamat A"
composed of expanded mica by hot-press method (Vermiculite). Density is 0.75 g/cm³.

Application/Limitation

The product may be used as an integrated part of approved fire resisting divisions only when tested as such.

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

Type Examination documentation

Test report No. 10187 dated 28 January 2002 from PAVUS a.s, Fire technical laboratory, Praha, Czech Republic.


Tests carried out

Tested according to IMO FTPC Part 1.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation, the MED 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.

