



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-4596

This Certificate consists of 3 pages

This is to certify that the
Non-combustible materials

with type designation(s)

**GLAVA MARINE MAT 16 AND GLAVA MARINE BATT 16
(Glava Rull A 37 and Glava Plate A 37)
(Glava Stålstenderrull A 37 and Glava Stålstenderplate A 37)**

Manufacturer

Glava A/S - Oslo
OSLO, Norway

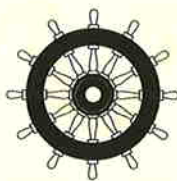
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.13 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/3.33, X/3, 2000 HSC Code 7.2.3 and IMO FTP Code.

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

Place and date

Høvik, 2008-01-16

for DET NORSKE VERITAS AS



Notified Body No. 0575

This Certificate is valid until

2012-05-07


Kristen Ulveseter

Manager, MTPNO370

Department Systems & Components


Rolf Emilsen

Surveyor



DNV local office:

DNV Oslo

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.



If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-4596
Job Id.: 344.1-000909-6
Item No.: A.1/3.13

Product description

“Glava Marine Mat 16 and Glava Marine Batt 16 (Glava Rull A 37 and Glava Plate A 37, Glava Stålstenderrull A 37 and Glava Stålstenderplate A 37)”
glass wool of nominal density approx. 16 kg/m³.

Applications/Limitations

Not to be use as an integrated part of fire retarding division, unless tested as such.

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

Type Examination documentation


Test report No. 22N010.10/00.275A, dated 3 October 2000, and Assessment 22N010.10/00.275A dated 31 October 2007 from SINTEF NBL, Norges Branntekniske Laboratorium, Trondheim, Norway.

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 and page 3).

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 shall issue a Certificate of Conformity.





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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.

END OF CERTIFICATE

