



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-3046

This Certificate consists of 2 pages

This is to certify that the product
Non-combustible materials

with the type designation(s)
Renotech Fireshield (MK 106 A1 spray insulation)

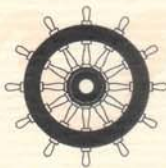
Manufactured by
Renotech Oy
Turku, Finland

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, 2005-04-04
for DET NORSKE VERITAS AS

Tore Morten Wetterhus
Manager, MTPNO370
Department Systems & Components



Notified Body No. 0575

DNV local office:
DNV Turku / Åbo

This Certificate is valid until
2010-04-04

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.

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-3046
Case No.: EC-FP-101
File No.: A.1/3.13

Product description

“Renotech Fireshield (MK 106 A1 spray insulation)”

The insulation consists of inorganic minerals, fibres, light weight fillers and chemicals. The measured density of the product is 237 kg/m³.

Applications/Limitations

Not to be used as an integrated part of fire retarding divisions, unless tested as such.

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

Type Approval documentation


Test Reports No.RTE 2204/04, dated 29 June 2004 from VTT Fire Technology Finland.

Tested according to IMO FTPC Part 1.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation and fire-technical rating.

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 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.

End of Certificate

