



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-4194

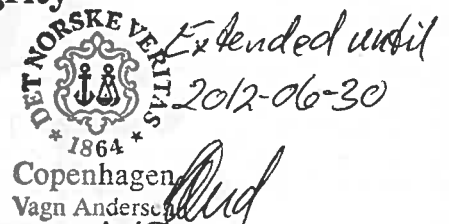
This Certificate consists of 4 pages

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

with type designation(s)
B-15 Bulkhead, Steel

Manufacturer

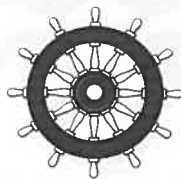
Rockwool - Marine & Offshore A/S
Hedehusene, Denmark



is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.11a and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/3.2.5 and IMO FTP Code.

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

Place and date
Høvik, 2007-03-27
for DET NORSKE VERITAS AS



This Certificate is valid until
2011-12-20

Kristen Ulveseter
Manager, MTPNO370
Department Systems & Components

Notified Body No. 0575

Rolf Emilsen
Surveyor

DNV local office:
DNV Copenhagen



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-4194
Job Id.: 344.1-000237-5
Item No.: A1/3.11a

Product description

“B-15 Bulkhead, Steel”

Steel bulkheads with different insulation solutions are listed in enclosed appendix.

(For latest revision of the appendix, see <http://exchange.dnv.com/tari>).

Applications/Limitations

Approved for use as a class B-15 bulkhead. Applications/Limitations see appendix.

The insulation 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 and maintenance.

Type Approval documentation

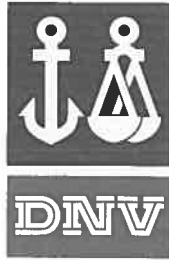
Given in enclosed appendix

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 (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 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" signed 17 October 2005.





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Appendix Rev. No. 0

QS- Certificate of Assessment-EC, MED-B-4194

Local National Solutions:

Construction	Product Description	Application / Limitations	Type Approval Documentation	National Country
<p>Solution no. A - B15Ext</p> <p>B-15 Bulkhead , Steel Extent</p> <p>Rockwool Marine Slab 180 25 mm</p>	<p>B-15 Bulkhead Extension, Rockwool Marine Slab 180 or Rockwool Slab 251</p> <p>The extension consists of a steel framework insulated with one layer of 25 mm thick mineral wool slabs (Rockwool Marine Slab 180, nominal density 180 kg/m³) mounted with steel pins and washers.</p> <p>The pins are punched out from the horizontal profiles and spaced approximately at 260 mm. The extension is connected to a B-15 class bulkhead by a special profile made up of an U-profile spot welded to a L-profile</p>	<p>Approved for use as a Class B-15 Bulkhead, according to construction drawing. B-15 fire division extending above a B-15 panel.</p>	<p>Test Report G 10386 sn 6802 DIFT 13.03.1998</p>	<p>France</p> <p>Rockwool Slab 251</p>

Place and date
Høvik, 2007-03-27

Rolf Emilsen
Surveyor



END OF CERTIFICATE