



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 2008/67/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-5613**

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


with type designation(s)
K-600/25 B15


Manufacturer
Norac AS
ARENDAL, Norway

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, 2009-10-20
for **Det Norske Veritas AS**


Eivind Mykland
Head of Department


Notified Body No.: **0575**

DNV local office:
DNV Kristiansand S

This certificate is valid until
2014-10-20


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.



Certificate No.: MED-B-5613
Item No.: A1/3.11b
Job Id.: 344.1-000597-11

Product description

"K-600/25 B15"

consisting of a 24 mm thick mineral wool core, type Rockwool T150, density 150 kg/m³, covered on the visible side with one of the following:

- 0.56 mm galvanized steel sheet
- two layers of steel sheets type Norac CL with total thickness of 1.5 mm

The reverse side is covered with one of the following:

- 0.4 mm galvanized steel sheet
- 0.8 mm aluminium sheet
- two layers of steel sheets type Norac CL with total thickness of 1.5 mm

All interfaces between steel/steel and steel/insulation are glued. The connection of panels can be done either by male/female connections or loose male and two female joints. A distance channel of 0.75 mm steel is used in each female connection.

Standard width of panel is 585 or 600 mm. Total panel thickness is 25 mm.

Applications/Limitations

Approved for use as a vertical fire retarding division of class B-15.

The insulation material (Rockwool T150) and all 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 and maintenance.

Type Examination documentation

Test Reports No. GV96.60.1 dated 18 September 1998 from TÜV Brandversuchshaus, Hamburg, Germany and No. 103020.11 dated 25 December 2001 from SINTEF, Trondheim, Norway.

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, Mark of Conformity and USCG marking 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.