



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-5609**

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

with type designation(s)
C-600 PANEL SYSTEM B30

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-5609
Item No.: A1/3.11b
Job Id.: 344.1-000597-11

Product description

"C-600 panel system B30"

A double panel system with total wall thickness from 50 to 100 mm and standard width 600 mm. The panels are manufactured in thickness from 20 to 25 mm. The main insulation is 20 mm Rockwool B250 type Norac of density 250 kg/m³. The front side of the panels are covered with one of the following:

- 0.56 mm steel sheet
- 0.7 mm steel sheet
- Steel sheets of type Norac CL with a thickness up to 1.5 mm

The steel plates can be bent 90 degrees in top/bottom. Also, U-profiles in 0.75 mm steel can frame the insulation in top/bottom. All interfaces between steel/steel and steel/insulation are glued. Connection of the panels is done by male/female connection or stud connection.

The air gap between the panels can be filled with non-combustible insulation.

"C-600 version A8 panel system B15"

constructed as described for "C-600 panel system B30", but connection of panels is done with stud connection.

Applications/Limitations

Approved for use as a vertical fire retarding division of class B-30 (B-15 for version A8).

The insulation material (Rockwool B250 type Norac) and any surface material 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 Report No. 103020.20 dated 17 September 2002 from SINTEF NBL, Trondheim, Norway.

Drawings Nos. 5000-001 -CS620000, -A3 and -A3-25 dated 7 August 2002 and No. A8 dated 21 February 2002 from Norac AS.

Tested according to IMO FTPC Part 3, IMO Res. A. 754(18).

Marking of product

The product 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 of Certificate 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.

