



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-5610**

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

with type designation(s)
Q-600/50 wall panel system B-15/B-30

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-5610
Item No.: A1/3.11b
Job Id.: 344.1-000597-11

Product description

"Q-600 wall panel system B15"

A panel system with panels of thickness from 50 to 70 mm and standard width 600 mm. A distance channel of 0.75 mm perforated steel is used in each female connection. The main insulation is one of the following in any combination:

- 20 mm Rockwool B250 type Norac of density 250 kg/m³ plus 25 mm Rockwool T150 type Norac of density 150 kg/m³, divided with and air gap of 3-23 mm.
- 49 mm Rockwool T150 type Norac of density 150 kg/m³
- 49 mm Rockwool T150 type Norac of density 150 kg/m³ with an integrated cable track of 15x30 or 15x60 mm dimension

Each side of the panel is covered with one of the following in any combination:

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

All interfaces between 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.

"Q-600 wall panel system B30"

A panel system with panels of thickness from 50 to 70 mm and standard width 600 mm. A distance channel of 0.75 mm perforated steel is used in each female connection. The main part of the panel is insulated with 20 mm Rockwool B250 type Norac of density 250 kg/m³ plus 25 mm Rockwool T150 type Norac of density 150 kg/m³, divided with and air gap of 3-23 mm. Rockwool T150 type Norac of density 150 kg/m³ and of thickness 49 mm is used along male connection.

Applications/Limitations

Approved for use as a vertical fire retarding division of class B-15 or B-30.

The insulation material (Rockwool T150 Type NORAC and Rockwool B250 Type NORAC) 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 Report No. 250000.42/94.206 dated 8 July 1994 and 103020.19A dated 17 July 2002 from SINTEF NBL, Trondheim, Norway.

Drawings Nos. 5000-001 Q-600/70, CF-600/50, CF-600/70 and STD Q-600/50 with cable track dated 17 October 2002.

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 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.