



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-17930
This Certificate consists of 3 pages

This is to certify that the
Class B Door

with type designation(s)
Class B-15 door - B 15 S

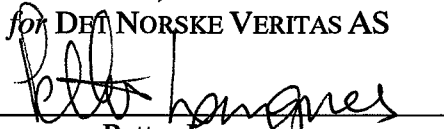
Manufactured by
Alvedoor AB
Alvesta, Sweden

is found to comply with
Det Norske Veritas' Offshore Standards
Det Norske Veritas' Rules for Classification of Ships
Det Norske Veritas' Interpretation of SOLAS 1974 Convention as Amended

Application
Approved for use as an integrated part of fire resisting division of class B-15.
Max. clear opening: 900 x 2073 (W x H).

Place and date
Høvik, 2006-02-03

for DET NORSKE VERITAS AS


Petter Langnes
Head of Section

Local Office
DNV Gothenburg

This Certificate is valid until
2010-06-30




Håkon Laskemoen
Surveyor

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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.: F-17930
File No.: 471.14
Case No.: 262.1-000577

Product description

“Class B-15 door – B-15 S”

consisting of single leaf hinged door. Door blade constructed of 32 mm thick Skamol SuperPro 250 board (density 250 kg/m³) with 32 x 32 mm calcium silicate strips (density 1000 kg/m³) along the edges. Faced on both sides with 0.8 mm laminate “Polyrey HPL postformable”, glued to the Skamol SuperPro 250 with adhesive “Skamol Super Pro Glur”. The door is fitted with three hinges.

The upper part of the door leaf may be fitted with a fire window "Pilkington Pyrostop 60-101" (thickness 23 mm) with a max size of fire technical glazing unit of 400 mm x 400 mm (w x h).

The lower part of the door leaf may be fitted with kick out panel with ventilation grating with automatic closing device. Max size of the kick out panel 530 x 430 mm (w x h).

The door frame is made of 1.5 mm steel sheet and the box frame above the door is insulated with Paroc Marine Slab 150 (density 150 kg/m³) and 6 mm Multiboard “Glasroc S” (density approx. 1000 kg/m³).

Total door leaf thickness is 34 mm.

For further details see drawings:

D 301839 B and D 301839 C dated 10 August 2005

C 301858 A dated 23 September 2005

C 301293 dated 28 February 2000

B 100634 B dated 28 February 1996

D 100 345 dated 9 August 1999

all from the manufacturer.

Application/Limitation

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

Type Approval documentation

Certification in accordance with Certification Note No. 1.2, Type Approval, December 1996.

Test report No. PG11507, Serial No. 10208 dated 21 September 2005, from Danish Institute of Fire and Security Technology (DANAK), Hvidovre, Denmark.

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

Laminate is successfully tested in accordance with IMO FTFC Part 5 and 2.





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Marking of product

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

Certificate retention survey

Det Norske Veritas' surveyor is to be given permission to perform Periodical Product Audits at any time during the validity period of this certificate. The arrangement is to be in accordance with procedure described in item 4.3, certification Note No. 1.2.

END OF CERTIFICATE

