



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-17416
This Certificate consists of 2 pages

This is to certify that the
Class B Door

with type designation(s)
DOUBLE HINGED B-15 DOOR

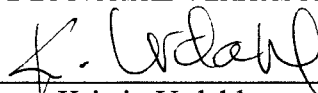
Manufactured by
Alvedoor AB
Alvesta, Sweden

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

Application
Approved for use as an integrated part of fire retarding divisions class B-15.
Max size of clear opening: 1800 mm x 2080 mm (w x h).

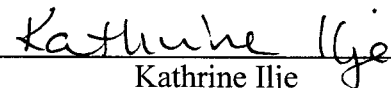


Place and date
Høvik, 2003-11-25
for DET NORSKE VERITAS AS


Kristin Urdahl
Head of Section

Local Office
DNV Gothenburg

This Certificate is valid until
2007-12-31


Kathrine Ilje
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-17416
File No.: 471.14

Product description

“Double Hinged B-15 Door”

Double leaf door with door blades made from 40 mm thick “Rockwool 337”, density 150 kg/m³ covered on both sides with 0.7 mm thick steel plates. Max. size of each door blade: 915mm x 2095mm (width x height). The top of the door consists of a special shaped panel. Each of the door blades may be fitted with a window of max. size 350mm x 350mm in the upper half and a kick out panel with ventilation grille in the lower half.

Applications/Limitations

Max. total free area of ventilation grilles: 500 cm².

The door may be fitted with a concealed door closer with type designation “Geze Boxer”.

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 File No. PG 10639, Serial No. 7423 dated 5 January 2000 from DIFT, Copenhagen, Denmark.

Drawings Nos. D301 121, D301 121B, D100 345, D100 345B, C301 074 from Alvedoor AB. (See applications/limitations for max. total free area of ventilation grilles.)
Drawing No. B301668 dated 19 October 1995 from Alvedoor AB (Geze Boxer door closer).

Certification Retention Survey Report dated 21 October 2003 from DNV Gothenburg.

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 and fire-technical rating.

Certificate retention survey

Det Norske Veritas' surveyor is to be given permission to perform Certification Retention Surveys 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

