



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-18379
This Certificate consists of 3 pages

This is to certify that the
Class B Door

with type designation(s)
ALVEDOOR B 15 M

Manufactured by
Alvedoor AB
ALVESTA, Sweden

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

Application
Approved for use as an integrated part of fire retarding division of class B-15.
The door may be fitted with escape panel and ventilation louvre in the lower part and/or a window in the upper part of the doorblade.

This certificate is recognized by Transport Canada.

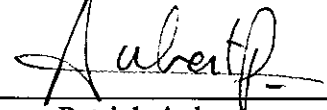
Place and date
Høvik, 2007-07-04
for DET NORSKE VERITAS AS


Hilde Smedal Thunes
Head of Section

Local Office
DNV Gothenburg



This Certificate is valid until
2011-12-31


Patrick Aubert
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-18379
File No.: 471.14
Job Id.: 262.1-003209-1

Product description

“Alvedoor B 15 M”
single leafed hinged door composed of an insulating core of approximately 38 mm “Paroc Slab 337”, of density 140 kg/m³ faced on each side with 0.7 mm steel sheets and glued with Casco Nobel 1833 PUR Adhesive 1K, 150 g/m². The door may also be fitted with a window of type “Pyrostop 60-10 GII” 390 x 390 mm (height x width) from Pilkington in upper part and/or an escape panel 800 x 600 mm (height x width) with ventilation louvre in lower part of door blade. The door has 3 hinges. Total thickness of door 40 mm.

Application/Limitation

The ventilation louvres are to be fitted with manual and automatic closing devices on both sides of the door leaf.

Max. clear opening: 2080 x 900 mm (height x width).

Max. size of door leaf: 2095 x 938 mm (height x width).

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

The construction and installation is to be in accordance the type approval documents listed below and with the manufacturer’s manual for installation.

Type Approval documentation

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

Test report No. PG 10690 Serial No. 7588 dated 11 May 2000 from Danish Institute of Fire Technology, DANAK, Denmark.

Assessment Report No. C126554 dated 23 August 2002 from Warrington Fire Research Centre Ltd, WRFC, UK.

Drawings No. C 301 078 A, C 300925 F, C 301293, D 100 345 B, D 300925 E, B 100634 A, B 301433 and D 100345.

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)).





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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 and.

Transport Canada Approval

Based on the procedures laid down in the Transport Canada Publication entitled "*Approval Procedures for, Life Saving Equipment and Structural Fire Protection Products (TP 14612)*", Det Norske Veritas confirms that the product/s listed in this certificate is/are in accordance with Transport Canada's requirements.

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 and at least every second year. The arrangement is to be in accordance with procedure described in item 4.3, Certification Note No. 1.2.

END OF CERTIFICATE

