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# DET NORSKE VERITAS

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## TYPE APPROVAL CERTIFICATE

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**CERTIFICATE NO. F-17028**  
This Certificate consists of 2 pages

*This is to certify that the*  
**Class B Door**

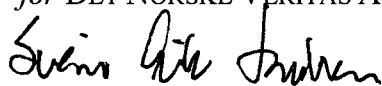
*with type designation(s)*  
**ALVEDOOR B-15 K**

*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 of class B-15. The door may be fitted with escape panel and ventilation louvre in the lower part.

*Place and date*  
Høvik, 2002-09-16  
for DET NORSKE VERITAS AS



Svein Erik Jacobsen  
*Head of Section*



*Local Office*  
DNV Gothenburg

*This Certificate is valid until*  
2006-12-31

  
Dag Nilsen  
*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 of 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-17028  
File No.: 471.14

## Product description

"Alvedoor B 15 K"

Composed of single leafed hinged door, with door blade composed of 37 mm mineral wool "RW 337" of density 150 kg/m<sup>3</sup> from Rockwool AB. The door blade faced with 0.7 mm steel sheet covered with PVC-foils on both sides. Total door blade thickness 39 mm. The door may be constructed with an escape panel 800 x 600 mm (height x width) and a ventilation duct with steel grill in the lower part of doorblade. The door has 3 hinges.

## 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: 1960 x 840 (h x w).

Max. size of door leaf: 1994 x 876 (h x w).

## Type Approval documentation

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

Test Report No. GV97.15.2, dated 30 April 1997 from TÜV Nord, Hamburg, Germany. Drawing No. D 300969 C, D 300925 F, B 301056 and B 301434.

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

DNV Certificate Retention Survey Report No. NV GOT 020169 dated 020703 from DNV Gothenburg.

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 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



*Handwritten signature*