



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-17194
This Certificate consists of 2 pages

This is to certify that the
Class B Door

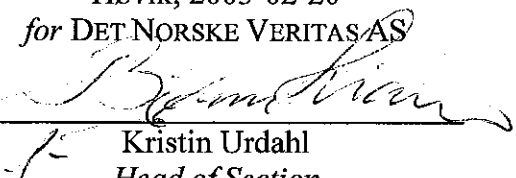
with type designation(s)
B 30 HS

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 resisting division of class B-30. Max. clear opening: 900mm x 2080mm (width x height).

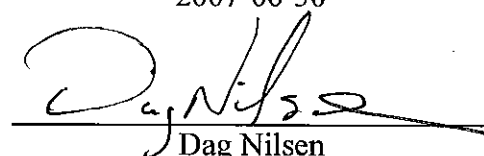
Place and date
Høvik, 2003-02-20
for DET NORSKE VERITAS AS


Kristin Urdahl
Head of Section



Local Office
DNV Gothenburg

This Certificate is valid until
2007-06-30


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-17194

File No.: 471.14

Product description

"B 30 HS"

is consisting of a single leafed hinged door, with door blade composed of 1.5mm galvanized steel insulated with two layers of mineral wool, Paroc "Slab 150" of density 150 kg/m³ with 2mm air gap between the layers. The mineral wool was glued to the steel sheets. The door may be constructed with a window 390mm x 390mm (width x height) in the upper part of doorblade. The door has 3 hinges.

The total door blade thickness is 50mm.

Max. size of door leaf: 966.5mm x 2106mm (width x height) incl. edge trim.

Type Approval documentation

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

Test Report No. PG11083 - 8822, dated 11 December 2002 from Danish Institute of Fire and Security Technology (DIFT), Hvidovre, Denmark.

Drawing No. D 301533 C, C 301540, C 301519 A and D 301533 A.

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

