



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. F-18377
This Certificate consists of 3 pages

This is to certify that the
Class A Door

with type designation(s)
ALVEDOOR A-15

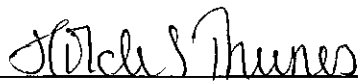
Manufactured by
Alvedoor AB
ALVESTA, Sweden

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

Application
Approved for use as an integrated part of fire retarding divisions class A-15.
Max. size of clear opening: 1000 mm x 2100 mm (width x height).

This certificate is recognized by Transport Canada.

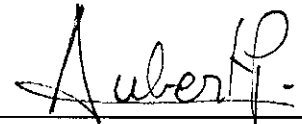
Place and date
Høvik, 2007-07-04
for DET NORSKE VERITAS AS


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-18377
File No.: 471.13
Job Id.: 262.1-003209-1

Product description

“ALVEDOOR A-15”

single leaf hinged door with door blade made from 1.5 mm steel sheet, insulated with 36 mm Mineral wool, type “Paroc 1318” of density 40 kg/m³. The door may be fitted with a hose port and/or a window, type “Pyrostop 60 -10 G II”, of max. dimensions 395 mm x 395 mm. The doorframe may be bolted or welded to the bulkhead.
Total thickness of door blade 39 mm.

Application/Limitation

The door may be fitted with a concealed door closer with type designation “Gexe 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 File No. PG10689 Serial No. 7706 dated 4 September 2000 from DIFT, Copenhagen, Denmark.

Assessment WFRC No. 118314 dated 26 March 2001 from Warrington Fire Research, UK.

Drawings Nos. D201303, C201297A, B201319, C201304, C201307 from Alvedoor AB.

Drawing No. B201376 dated 30 March 2001 from Alvedoor AB (Bolted installation).

Drawing No. C201368 dated 14 March 2001 from Alvedoor AB (Bolted or welded installation).

Drawing No. B201670 dated 15 September 2003 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.





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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

