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Certificate N°:
09708/BO EC
File Number : ACI 1200/051/026
MED item number : A1316

This Certificate is not valid where presented without the full attached Schedule, composed of 10 sections.



EUROPEAN COUNCIL DIRECTIVE 96/98 EC on MARINE EQUIPMENT (M.E.D.)

**EC TYPE EXAMINATION CERTIFICATE
(CERTIFICATE OF TYPE APPROVAL)**

This is to certify that Bureau Veritas, acting within the scope of its notification, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the International Instruments and testing standards under the requirements of Council Directive 96/98/EC, as amended.

FIRE DOORS

B-15 class double door, "ALVEDOOR B-15M double"

MANUFACTURED BY:


ALVEDOOR AB
Alvesta - SWEDEN

REGULATIONS & STANDARDS in accordance with Council Directive 96/98/EC, as amended by Commission Directive 2002/75/EC : SOLAS 74 Convention, as amended, SOLAS 2000 Regulations II-2/9.4.1.2.1 & II-2/9.4.2 - IMO Resolution A.754(18) - IMO Resolution MSC.61(67) Annex 1, Part 3 - IMO MSC/Circ. 916.

Expiry date: 2010-01-26

Local Office : BUREAU VERITAS GOTHENBURG

At Paris la Défense, on : 2005-03-11


MAGNE MÖLLER
BVN Lead Surveyor





J. BENOIT
Marine Equipment Certification Manager
For BUREAU VERITAS, EC Notified Body N°0062



The Manufacturer is allowed to affix the MED Conformity Mark to approved equipment and issue a Declaration of Conformity, only when the production/product assessment module referred to in the Directive 96/98/EC, is fully complied with.

This Certificate remains valid until its date of expiry, unless cancelled or revoked, providing the conditions in the attached Schedule are complied with and the equipment remains satisfactory in service. This Certificate does not apply to equipment which has been modified from the specimen tested. Should the specified standards be amended during the validity of this Certificate, the product(s) is/are to be re-approved prior to it/they be placed on board vessels to which the amended standards apply.

This Certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

Issued under the authority of the French Maritime Administration.



**BUREAU
VERITAS**
MARINE DIVISION

File Number : ACI 1200/051/026

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

B-15 class double door: "ALVEDOOR B-15 M double"

Double leaves hinged door composed of an insulating core of approximately 38 mm of "Rockwool 337", density 150 kg/m³ (+/- 10 %) faced on both sides with 0.7 mm thick glued (150 g/m²) steel sheets. The door is fitted with a window, glass type "Contraflam 31", in its upper part and a kick-out panel with ventilation louvre in lower part of doorblade. The top of the door leaf was additionally reinforced with a 100 mm wide steel plate.

Door leaf exterior dimensions: 915 x 2095 x 39 mm;

Total clear opening: 2080 x 1800 mm;

Kick-out panel: 390 x 490 mm (height x width);

Ventilation louvre: area up to 0.05 m²;

Glass clear size: 350 x 350 mm.

2. DESIGN DRAWINGS and/or SPECIFICATIONS

2.1- Drawings N° C 301139A, D301121, D 301121B, C 301074, D100345, D100345B from the Manufacturer.

2.2- Manual(s) for installation, use and maintenance is/are to be stamped by the Society's Surveyor and supplied in the language prescribed by the Maritime National Administration to whom the ship is registered.


2.3- Manufacturing documentation: to be stamped by the Society's Surveyor.


3. TYPE TEST REPORTS / LABORATORY RECOGNITION STATUS

3.1- Test report N° PG 10639 dated January 5, 2000 as per IMO FTP Code Annex 1 Part 3 [testing standard: IMO Resolution A.754(18)] issued by DIFT, Denmark.

3.2- Technical assessment WFRC n°C121929 dated November 12, 2001 as per IMO FTP Code Annex 1 Part 3 issued by the Warrington fire Research Center, UK.

4. MATERIALS or COMPONENTS REQUIRED TO BE TYPE APPROVED or TYPE TESTED

4.1- Non combustible material: "Rockwool 337", nominal density 150 kg/m³, manufactured by ROCKWOOL AB, Sweden; Test report N° PF 10851 dated December 16, 1999 as per IMO FTP Code Annex 1 Part 1 [testing standard: IMO Resolution A.799(19)] issued by DIFT, Denmark. To be EC type approved and to bear the  mark.

4.2- Surface linings to be EC type approved and to bear the  mark.

5. OTHER MATERIALS and/or COMPONENTS

5.1- Adhesive, type "Casco Nobel 1833 PUR 1K", 150 g/m². Test report N° PF 10827B as per IMO FTP Code Annex 1 Part 5 and Annex 2 [testing standard: IMO Resolution A.653(16)] issued by DIFT, Denmark (File reference N° ACI 1330/041).


5.2- Fire glass "Contraflam 31" manufactured by Vegla Aachen, Germany.

5.3- Fire glass "Pyrostop 60-10 GII" manufactured by Pilkington.

6. APPLICATION / LIMITATION OF USE

Approval valid for ships having to comply with SOLAS 74 Convention, as amended, and for units having to comply with IMO Resolution A649 (The "MODU Code").


7. PRODUCTION SURVEY REQUIREMENTS

- 7.1- Arrangements shall be made for a Society's Surveyor to carry out, on a periodic basis, visit of the Manufacturer's (ALVEDOOR AB Works) premises and product audits.
- 7.2- The production conformity assessment module shall either be "D, Production quality assurance" or "E, Product quality assurance" or " F, product verification".
- 7.3- Each manufactured equipment is to bear the  conformity mark and number of the Notified Body undertaking surveillance module (where BV, 0062).
- 7.4- Each equipment or batch of equipment is to be supplied with its manual (or instruction) for installation, use and maintenance in the language required by the Ship's Flag Administration.

8. ON BOARD INSTALLATION & MAINTENANCE REQUIREMENTS

- 8.1- The fitting aboard to be the same as used for the test.
- 8.2- The Manufacturer's instruction manual should be kept on board.
- 8.3- Flame spread, smoke characteristics and calorific value of the lining to be as per Rule requirements.
- 8.4- The door should be mounted in a B-15 class bulkhead.
- 8.5- Openings made in or under doors must have a total net area not exceeding 0,05 m².

9. MARKING FOR IDENTIFICATION

-  conformity mark and number of the Notified Body undertaking surveillance module (where BV, 0062).
- Last two digits of year mark affixed.

10. OTHERS

- 10.1- This approval is given on the understanding that the Manufacturer will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.
- 10.2 - This certificate supersedes Type Examination Certificate n°09708/A2 EC issued by Bureau Veritas on February 05, 2002.

***** Last page (End of Document) *****

BUREAU VERITAS GOTHENBURG

