

MARINE DIVISION

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Certificate number: 10422/B0 EC

File number : ACI 1200/051/027

Annex A1 item number : A.1/3.16

This certificate is not valid when presented without the full attached schedule composed of 7 sections

EC TYPE EXAMINATION CERTIFICATE

*as per Module B of European Union Council Directive 96/98/EC on marine equipment
as last amended by Commission Directive 2002/75/EC of 2 September 2002*

This certificate is issued to

ALVEDOOR AB

Alvesta - SWEDEN

for the type of product

FIRE DOORS

A15 Firedoor C/O 2100 x 1000: single leaf hinged door with hose port and window

Regulations and standards :

SOLAS 74 Convention, as amended by SOLAS Amendments 2000, Regs.II-2/9.4.1.1.2, II-2/9.4.1.2.1, II-2/9.4.2 - IMO Resolution A.754(18) - IMO Resolution MSC. 61(67) [FTP Code] Annex 1, Part 3 - IMO MSC/Circ.916 - IMO MSC/Circ.1004.

This certificate is issued under the French Maritime Authority to attest that BUREAU VERITAS did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Council Directive 96/98/EC of 20 December 1996 as amended



This certificate is valid until : 07 Nov 2010

At Paris la Défense, on : 07 Nov 2005

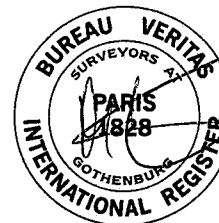
For BUREAU VERITAS, Notified Body N°0062
By order of the Secretary

Approval office

Local office : BV GOTHENBURG

Surveyor : M. Moller


J. BENOIT



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. BUREAU VERITAS S.A. is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. 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 to 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 judgement, 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.

THE SCHEDULE OF APPROVAL



1. PRODUCT DESCRIPTION :

A-15 Class Fire Door: single leaf hinged door with hose port and window

The door frame is made up of 60 x 50 x 24 x 4 mm steel Z-profiles. It is fixed to the bulkhead with M10 mm bolts per 300 mm or welded to the bulkhead. The door leaf consists of steel sheet 1.5 mm thick insulated with mineral wool "Paroc Slab 40 (40kg/m3)" (tested with a 46kg/m3 product) glued with "Casco Nobel 1833 PUR Adhesive 1K, 150 g/m²" to the steel sheet. Its top is reinforced with a 100 mm wide steel plate. The door leaf framework consists of 25 x 35 x 25 x 1.5 mm steel U-profiles along all 4 edges and a stainless steel edge cover profile (16 x 43 x 16 mm) is also mounted to this framework. The door is fitted with a hose port door operated by a door closer "Aditech 18" in the lower corner opposite the hinges and a window "Pyrostop 60-10 GII" 21 mm thick situated in the upper part of the door leaf. The glazing bead consists of stainless steel profile 2.5 mm thick bolted per 135 mm to the door leaf and its edges are insulated by means of "Durablanket S".

Maximum door dimensions:	1160 x 2205 x 50 mm (width x height x thickness)
Maximum door leaf dimensions:	1035 x 2112 x 39 mm
Clear openings dimensions:	1000 x 2100 mm
Maximum hose port door dimensions:	183 x 167 x 39 mm
Glazed area dimensions:	395 x 395 x 21 mm

Materials

- 1 - Mineral wool "Paroc Slab 40" nominal density 40 kg/m³ manufactured by Partek Rockwool AB. Test report n°RTE997/00 as per IMO FTP Code Annex 1 Part 1 [testing standard: IMO Resolution A799(19)] from VTT Building Technology, Finland. To be EC type approved and to bear the  mark.
- 2 - Surface linings to be EC type approved and to bear the  mark.
- 3- Glass, 21mm Pyrostop 60-10 GII, Pilkington (marking: 3673/03-Pyrostop-EI60-21 mm).
- 4- Door closer "Aditech 18" manufactured by Aditech.
- 5- Adhesive "Casco PUR 1833 Adhesive 1K" manufactured by Casco Nobel A/S. Test report N° PF10827B as per IMO FTP Code Annex 1 Part 5 from DIFT, Denmark.
- 6- Ceramic fiber "Durablanket S" (nominal density 128 kg/m³) manufactured by Unifrax Ltd, UK. Test report WARRES N° 103056, dated June 6, 1998 as per IMO FTP Code Part 1 [testing standard: IMO Resolution A799(19)] from the Warrington Fire Research Centre, UK.

2. DOCUMENTS AND DRAWINGS :

- 2.1- Drawings Nos. B201319, B201376, C201297A, C201304, C201307, C201368 and D201303 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. TEST REPORTS :

- 3.1 - Test report n°PG 10689 dated September 4, 2000 as per IMO FTP Code Annex 1 Part 3 [testing standard: IMO Resolution A754(18)] from DIFT, Denmark.
- 3.2 - Technical assessment WRFC n° C118314 dated March 26, 2001 as per IMO Resolution A754(18) from the Warrington Fire Research Center, UK.

4. APPLICATION / LIMITATION :

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").

On board installation & Maintenance requirements :

- 1- The Manufacturer's instruction manual should be kept on board.
- 2- Flame spread, smoke characteristics and calorific value of the lining to be as per Rule requirements.
- 3- The fitting aboard to be the same as used for the test.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1- The production conformity assessment module shall either be "D, Production quality assurance" or "E, Product quality assurance" or " F, product verification".

5.2- 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.

6. MARKING OF PRODUCT :

Every item , or batch of items, or their packaging is to bear the following marking :

- ⚙ mark and the Notified Body number undertaking surveillance module (for BV: 0062).
- Last two digits of year mark affixed.

7. OTHERS :

7.1- 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.

7.2- This certificate supersedes EC Type Examination Certificate N° 10422/A4 EC issued on 05/04/2002 by Bureau Veritas

***** END OF CERTIFICATE *****