

MARINE DIVISION

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Certificate number: 15926/A0 EC

File number : ACI 1200/051/029

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

B-15 class door - Type "ALVEDOOR B-15 S"

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 : 04 May 2011

At Paris la Défense, on : 04 May 2006

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 :

B-15 class door - Type "ALVEDOOR B-15 S"

Single leaf hinged door composed of an insulating core of approximately 32 mm of "Skamol SuperPro 250", density 250 kg/m³ with 32 x 22 mm calcium silicate strips along the edges, faced on both sides with 0.8 mm thick glued laminates type HPL. The door is fitted with a window, glass type "Pyrostop 60-101", in its upper part and a kick-out panel with ventilation louvre in lower part of doorblade.

The door frame is made up of steel sheet 1.5mm thick. The upper part of the frame (overpanel: height excluding rebate: 265mm) is filled with mineral wool "Paroc Marine Fire Slab 150", density 150 kg/m³, faced with 2 plates of "Multiboard Glasroc S", density 900-1000 kg/m³, 6mm thick.

Maximum door leaf size: 2092 x 935 mm (height x width);

Maximum clear size opening : 2073 x 900 mm;

Maximum kick-out panel size: 430 x 530 mm;

Maximum ventilation louvre size: area up to 0.05 m²;

Maximum glass clear size: 400 x 400 mm;

Tested door frame size: 2480 x 1023 x 48.5 mm (height x width x thickness).

2. DOCUMENTS AND DRAWINGS :


As per drawings n° D301839B, C301858A & D100 345 from the Manufacturer.


3. TEST REPORTS :


3.1- Test report n°PG11507 dated September 21, 2005 as per IMO FTP Code Annex 1 part 3 [testing standard: IMO Resolution A.754(18)] issued by DIFT, Denmark.


3.2- Alternative frame constructions, circular window (diameter 400mm), alternative sill types (height 200mm max with same construction as the overpanel), Air transfer grille:

- Technical assessment n°152233 dated February 13, 2006 based on Test report n°PG11507 issued by Warrington Fire Laboratories, UK.

3.3- Non combustible material: "Skamol SuperPro 250", nominal density 250 kg/m³, manufactured by SKAMOL A/S, Denmark; Test report N° PF 11861b, testing date August 17, 2004 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.

3.4- Non combustible material: "Eterpan board " (calcium silicate) , nominal density 1000-1080 kg/m³. Test report No. PF12181, testing date September 20, 2005, 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.

3.5- Non combustible material: Mineral wool "Paroc Marine Fire Slab 150", nominal density 150 kg/m³, manufactured by Paroc AB, Sweden; Test report N° RTE813/05, testing date February 28, 2005 as per IMO FTP Code Annex 1 Part 1 [testing standard: IMO Resolution A.799(19)] issued by VTT, Finland. To be EC type approved and to bear the  mark.

3.6- Non combustible material: "Glasroc S GRG" (Multiboard) , nominal density 900-1000 kg/m³, manufactured by British Gypsum Ltd., England. Test report No. PF11634d, testing date November 14, 2003, 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.

3.7- Adhesive, type "Skamol SuperPro Glue", 450 g/m². Test report n°PF12099, testing date April 14, 2005 as per IMO FTP Code Annex 1 Part 5 [testing standard: IMO Resolution A.653(16)] issued by DIFT, Denmark.

3.8- Alternative adhesive, type "ISOLEMFI 50105L Mono", 110 g/m²:

- Technical assessment n°PH 12859dated March 21, 2006 based on test report n°PG11507 (See 3.1) and n°PF12099 (See below), issued by DIFT, Denmark.

- Test report n°PF12312, testing date January 23, 2006 as per IMO FTP Code Annex 1 Part 5 [testing standard: IMO Resolution A.653(16)] issued by DIFT, Denmark.

4. APPLICATION / LIMITATION :**Application / Limitation of use :**

4.1- 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 :

4.2- The fitting aboard to be the same as used for the test.

4.3- The Manufacturer's instruction manual should be kept on board.

4.4- Flame spread, smoke characteristics and calorific value of the lining to be as per Rule requirements.

4.5- The door should be mounted in a B-15 class bulkhead.

4.6- Openings made in or under doors must have a total net area not exceeding 0,05 m².

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 :

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

7. OTHERS :

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.

*** END OF CERTIFICATE ***