



MARINE DIVISION

Certificate number: 08883/A0 BV

File number: ACI 1200/051/002

Product code: 5170H

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

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

ALVEDOOR AB

Alvesta - SWEDEN

for the type of product

B15 CLASS DOORS

B-15 CLASS DOOR "ALVEDOOR B-15C"

Requirements:

BV Rules, Part C, Chapter 4 - SOLAS 74 Convention, as amended by SOLAS Amendments 2000, Reg.II-2/9 - IMO Resolution A.754(18) - IMO Resolution MSC. 61(67) [FTP Code] Annex 1, Part 3 - IMO MSC/Circ. 916 - IMO MSC/Circ. 1004 - IMO MSC/Circ. 1120.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 22 Jul 2014

For BUREAU VERITAS,

At BV GOTHENBURG, on 22 Jul 2009,

Magne Moller



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. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. 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 "ALVEDOOR B-15C"

- Composed of decorative laminate on each side and an insulating core of "Cape Marine Board", nominal density 640 kgm-3. Maximum clear opening: 2073 x 900 mm².

- The door leaf is mounted with a kick-out panel with ventilation grating with manual closing device, situated in the lower part of the door leaf. The external measurements of the kick-out panel plate is 385 x 485 mm² (width x height).

- The top of the door frame consists of a panel (dimensions 325 x 1020 x 50 mm³), manufactured from 1.5 mm steel sheet insulated with "Paroc slab 337.00", nominal density 150 kgm-3.

2. DOCUMENTS AND DRAWINGS :

Drawings N° D 301106 A dated 26/02/1999 and N° C 301111 dated 02/03/1999.

3. TEST REPORTS :

3.1 - Test report N° G 10 488, issued on 11/05/1999, as per IMO 754 (18) from DIFT, Denmark.

3.2 - Non combustible materials:

- "Cape Marine Board", nominal density 640 kgm-3, manufactured by CAPE CALSIL PRODUCTS LTD., UK. Test report N° WARRES 107344, dated 25.03.1999 (test date 18.03.1999) as per IMO MSC.61(67) [FTP Code], Annex 1, Part 1, issued by Warrington Fire Research Centre Ltd., UK.

- Insulating mineral wool "Paroc Slab 337.00", nominal density 150 kgm-3, manufactured by PARTEC ROCKWOOL AB. Test report n° PF10844a dated March 8, 2000 as per IMO FTP Code, Annex 1, Part 1 [testing standard: IMO Resolution A.799(19)] issued by DIFT, Denmark.

3.3 - Adhesive "Casco 1833 PUR Adhesive 1K": Test report N° SN 99.20.1, testing date 16/03/1999, as per IMO 653 (16), from Brandversuchshaus, Hamburg.

4. APPLICATION / LIMITATION :

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

4.2 - Flame spread, smoke characteristics and calorific value of the lining to be as per applicable regulations.

4.3 - The "Cape Marine Board" and "Paroc Slab 337.00" shall comply with the requirements of BV Rules, to the satisfaction of the Society for acceptance of the door on board the concerned ship.

4.4 - Openings made in or under doors must have a total net area not exceeding 0.05 m².

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The ALVEDOOR B-15K is to be manufactured, examined and tested by ALVEDOOR AB in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end ALVEDOOR AB has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - **ALVEDOOR AB** has declared to Bureau Veritas that the type of product described in this certificate may be manufactured at the following production site:

ALVEDOOR AB
Blädingevägen 32
S-342 32 Alvesta
SWEDEN

6. MARKING OF PRODUCT :

The product or packing is to be marked with the manufacturer's name, type, designation and fire-technical rating.

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° 08883/B0 EC issued on 02/06/2004 by the Society.

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