

MARINE DIVISION

67771 Boulevard du Château
92200 Neuilly-sur-Seine - France

Tel. 33 1 55 24 70 00
Fax. 33 1 55 24 70 45
www.veristar.com



Certificate number: 07837/A0 BV

File number: ACI 1200/051/022

Product code: 5170H

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

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-15K

Regulations and standards:

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 of the Regulations and standards mentioned above.

This certificate is valid until: 10 Mar 2014

At Neuilly, on: 10 Mar 2009

For BUREAU VERITAS,
By order of the Secretary

L.COURREGELONGUE

Approval office



Local office: BV GOTHENBURG

Surveyor: M. 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. 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-15K"

Composed of 1.5 mm thick steel sheets on each side and an insulating core of mineral wool "RW 337", nominal density 150 kg/m³.

Maximum clear opening: 1960 x 840 mm.

2. DOCUMENTS AND DRAWINGS :

As per drawing N° D 300969 from the Manufacturer.

3. TEST REPORTS :

3.1 - Test report n° GV97.15.2, issued on 15.08.1997, as per IMO Resolution A.754(18) from TÜV NORD, HAMBURG.

3.2 - Non combustible material:

"Rockwool 337" (nominal density 150 kg/m³) manufactured by Rockwool AB, Swenden. Test report N° PF 10851 Serial N° 7402 dated December 16, 1999 as per IMO FTP Code, Annex 1, Part 1 from DIFT, Denmark.

3.3 - Adhesive "Casco PUR 1833 Adhesive 1K" (application rate 150 g/m², manufactured by CASCO NOBEL A/S. Test report N° PF 10827B dated December 10, 1999 as per IMO FTP Code, Annex 1, Part 5 from DIFT, Denmark.

4. APPLICATION / LIMITATION :

4.1 - Approval also valid for ships having to comply with IMO Resolution A649 (The "MODU Code").

4.2 - The fitting aboard to be the same as used for the test. Doors to be used with a fire tested frame design.

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

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

4.5 - 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 B-15K
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 BVCertificate supersedes EC Type Examination Certificate N° 07837/B1 EC issued on 03/11/2004 by the Society.

*** END OF CERTIFICATE ***