

MARINE DIVISION

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Certificate number: 18550/A0 BV

File number : LSA 6337/01

Product code : 6030H

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

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

C M HAMMAR AB

V:a Frölunda - SWEDEN

for the type of product

HYDROSTATIC RELEASE UNITS FOR LIFERAFTS

Hydrostatic Release Unit : type H 20 Small raft model

Regulations and standards :

SOLAS 74 Convention as amended, Regulation III/4, Regulation X/3
Regulation III/13.4.2, III/26.2.2 and III/34, Resolution MSC.48 (66), IMO MSC/Circ.811
IMO Resolution MSC.97 (73) 8.1 and 8.10 (2000 HSC Code)
IMO resolution MSC.81 (70) Part 1

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 : 20 Oct 2011

At Paris la Défense, on : 20 Oct 2006

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV GOTHENBURG
Surveyor : M. Moller



J. BENOIT



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 :

The HAMMAR H20 Hydrostatic Release Unit is intended for fitting Float-free arrangements for liferafts. Set for release at a depth not less than 1.5 metres and not greater than 4 metres. It is not part of the painter system (It is not subjected to the painter system strength).

2. DOCUMENTS AND DRAWINGS :

Drawings :

- A000200 Rev. 1 Hydrostatic Release Hammar H20, Small raft model
- 1310 info (issue 1 of 01/06/92) Knife unit

3. TEST REPORTS :

3.1 Type tested in accordance with IMO Resolution A521 (13) under supervision of the Swedish Maritime Safety Inspectorate, as per test report nr 31.309.78.212 dated 01/10/1985. The tests were carried out by SP. Statens Provningsanstalt National Testing Institute - Department of Materials Testing and Mechanics, PO Box 857, S-501 15 BORAS, Sweden :

- (a) Test report n° 85M51019 dated 28/08/1985
- (b) Test report n° 85M51019 dated 29/08/1985 (Test on membranes)

3.2 Further, type tested after modification of the Knife under supervision of the Swedish Administration of Shipping - Sjöfartsverket, as per test report ref. 21.99-90 34084 dated 24/01/1990. The tests were carried out by SP Swedish National Testing and research Institute, Boras, Sweden in accordance with paras 5.16.2.1 & 2.2 of Part 1 of IMO Res. A521 (13), as per test report n° M51400 dated 04/09/1990.

3.3 Further, reassessed by the Swedish National Maritime Administration - Maritime Safety Inspectorate as per letter dated 10/12/1993 for checking of compliance with IMO Res. A689 (17).

3.4 Further, reassessed by Bureau Veritas for checking compliance with IMO MSC/Circ. 615, Res. MSC. 54 (66), 1996 SOLAS Amendments to Chapter III and LSA Code - IMO Res. MSC. 48 (66).

4. APPLICATION / LIMITATION :

Where the weak link (item 20 of drawing A000200 Rev.1) is part of the supply, it shall be of a small raft type. (to break under a strain of 1.2 +/- 0.4 kN)

Other materials and/or components :

As per drawing A000200 Rev.

Application / Limitation of use :

- Since not submitted to the painter strain there is no limitation in respect to the liferaft capacity.
- It shall be sealed. It requires no maintenance and have an operational life of 2 years dating from time it is removed from its marketing envelope ready for installation aboard.

On board installation & Maintenance requirements

- To be installed on board in accordance with requirements of SOLAS 74/96 Convention Reg. III/13.4.2 and Manufacturer's instructions
- It shall be provided with a simple system of recording the expiry date (month/year) at which the unit must be replaced
- If marked with more than a single expiry date (month/year), the unit will be invalid and must be replaced.
- To be supplied with installation/operational & maintenance instructions written in english language.

5. PRODUCTION SURVEY REQUIREMENTS :

To be manufactured, checked for quality and tested in accordance with the protocol approved by Bureau Veritas on the basis of the IMO Resolution MSC.81, (70)

6. MARKING OF PRODUCT :

To be permanently marked on the unit or identification plate securely attached to the unit, as follows

- (a) HAMMAR H20
- (b) serial number
- (c) expiry date
- (d) BV (SOLAS) approved
- (e) suitable for liferafts dependless their capacity
- (f) the notation : "DO NOT PAINT"

7. OTHERS :

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the HRU's at any time and that CM HAMMAR AB, Sweden will accept the responsibility for informing shipbuilders or their subcontractors of the proper methods of use and general maintenance of the equipment and the conditions of this approval.

End of document.

*** END OF CERTIFICATE ***