



MARINE DIVISION

Certificate number: 18550/B0 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*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**C M HAMMAR AB**

V:a Frölunda - SWEDEN

*for the type of product*

### HYDROSTATIC RELEASE UNITS FOR LIFERAFTS

Non SOLAS  
Type H 20  
Small raft model

**Requirements:**

IMO Res. MSC.48(66) amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87) and MSC.320(89) except 4.1.6.2 (weak link breaking strength)

IMO MSC/Circ. 811

IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89) and MSC.323(89)

*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: 21 Dec 2016**

For BUREAU VERITAS,

At BV GOTHENBURG, on 21 Dec 2011,

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 :

As per the information transmitted by the applicant.

The "HAMMAR H20 Small Rafts model" is designed for liferafts from 4 up to 12 persons and outside SOLAS regulations.

- It is not fitted with a manual operation device.
- It does not need to be periodically serviced (It is of "disposable sealed unit" type).
- Set for release at a depth within approx. 4 metres.

### 2. DOCUMENTS AND DRAWINGS :

- Drawings

#### Hydrostatic Release Units

Number	Revision	Date	Description
A000200	2	21/06/2006	Hydrostatic Release Hammar H20, Small raft model
1310 INFO	1	01/06/92	Knife unit

#### Weak Link

Number	Revision	Date	Description
A001060	1	24/05/2011	WEAK LINK 1,2 kN

Used in conjunction with the Hydrostatic release unit in the float free arrangement, this weak link is designed to be used with leisure liferaft and is not in compliance with the requirement of the § 4.1.6.2 of the LSA Code as amended.

- Material and components  
As per approved drawings.
- Manual for installation, use and maintenance

### 3. TEST REPORTS :

#### Hydrostatic Release Units

Number	Date	Description
31.309.78.212	01/10/1985	Initial type tests
85M51019	28/08/1985 29/08/1985	Type tests on the membranes
21.99-90 34084	24/01/1990	Corrosion tests on the blades
M51400	04/09/1990	Corrosion tests on the blades and HRU
	10/12/1993	Reassessed by the Swedish National Maritime Administration - Maritime Safety Inspectorate
96H30094B	05/06/1995	Breaking load test of rope sling with fisherman's knot
99H50846 b	18/11/1999	Tensile strength test of link/single point metal connector
KMyP203085b	2002/08/06	Type tests : Corrosion resistance, Temperature cycling, and release test
N° KMyP03765	2002/09/05	Type tests : Corrosion resistance, Temperature cycling, and release test
KMp I-2013	2002/10/28	Strength test of the rope slings, liferaft for more than 25 persons
P801304	2008/03/13	Solar radiation test

#### Weak Link

Number	Date	Description
----	09/11/2011	Weak link test

### 4. APPLICATION / LIMITATION :

- As per requirements stated on front page of this Certificate.
- Where the weak link (item 20 of drawing A000200 Rev.2) is part of the supply, it shall be of a small raft type. ( to break under a strain of 1.2 +/- 0.4 kN ).
- Used in conjunction with the Hydrostatic release unit in the float free arrangement, the "WEAK LINK 1,2 kN" is designed to be used with small liferaft and is not in compliance with the requirement of the § 4.1.6.2 of the LSA Code as amended.
- The onboard installation and the maintenance of the Hydrostatic Release Unit shall be carried out according to manufacturer's instructions.
- It needs no annual service, maintenance or spare parts, but must be replaced after two years.

**5. PRODUCTION SURVEY REQUIREMENTS :**

The "HAMMAR H20 Small Rafts model" are to be manufactured, examined and tested by the applicant in accordance with the type described in this certificate.

The manufacturer shall institute a quality control procedure to ensure that the "HAMMAR H20 Small Rafts model" are produced to the same standard as the approved prototype and shall keep records of any production tests carried out.

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

The applicant has declared to Bureau Veritas that the type of product described in this certificate may be manufactured at the following production sites :

*CM HAMMAR AB  
August Barks Gata 15  
S-42132 V:a Frölunda  
SWEDEN*

**6. MARKING OF PRODUCT :**

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

- "HAMMAR H20 Small Rafts model"
- Serial number
- Expiry date
- 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 "HAMMAR H20 Small Rafts model" '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 CERTIFICATE \*\*\*