



MARINE DIVISION

Certificate number: 07493/D2 EC

File number: LSA 6337/01

Annex A1 Item number: A.1/1.16

USCG Module B number:
160.162 / EC0062

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

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Notified Body 0062 - MARINE EQUIPMENT DIRECTIVE 96/98/EC

EC TYPE EXAMINATION CERTIFICATE

*as per Module B of European Union Council Directive 96/98/EC on marine equipment
as amended by Commission Directive 2008/67/EC*

This certificate is issued to

C M HAMMAR AB
V:a Frölunda - SWEDEN

for the type of product

FLOAT-FREE ARRANGEMENTS FOR LIFERAFTS (HYDROSTATIC RELEASE UNITS)

Types HAMMAR H20R & HAMMAR H20-ERU

Requirements:

SOLAS 74 Convention, as amended, Regulation III/4, X/3, III/13.4.2, III/26.2.2 and III/34
IMO Resolution MSC.48(66) amended by MSC.207(81), MSC.218(82) and MSC 272(85)
IMO Resolution MSC.97 (73) 8.1 and 8.6 (2000 HSC Code)
IMO MSC/Circ. 811
IMO Resolution MSC.81(70) amended by MSC.200(80), MSC.226(82) and MSC 274(85)

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 will expire on: 09 Feb 2014

For BUREAU VERITAS Notified Body 0062,

At BV GOTHENBURG, on 04 Dec 2009,

Magne Moller



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 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 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 :

a) The HAMMAR H20R Hydrostatic Release Unit is intended for fitting Float-free arrangements for liferafts.

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 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).

b) The version HAMMAR H20-ERU (Hydrostatic /Electric Release Unit) is intended for use together with an Electronic Remote Release system, designated under trade name "*Hammar ERRS*", i.e. liferafts can be launched from one or more remote positions. The ERRS system does not affect the hydrostatic function of the HAMMAR H20.

This EC Type Examination Certificate only covers the hydrostatic function of the HRU version HAMMAR H20-ERU, as per requirements stated on front page of this certificate, and does not cover the additional ERRS system, although its design was assessed by the Society .

2. DOCUMENTS AND DRAWINGS :

- Drawings

Number	Revision	Date	Description
A000163	2	16/09/2002	Hydrostatic Release Unit HAMMAR H20 for liferafts
A000165	2	18/09/2002	Hydrostatic/Electric Release Unit HAMMAR H20 ERU for liferafts
A001044	1	16/10/2009	Weak link 2,2 KN

No departure from these drawings is permitted without the prior consent of the Society.

- Material and components

As per approved drawings, listed in section 2.1.

2.3 Manual for installation, use and maintenance

3. TEST REPORTS :

As per test report listed in the following document:

Number	Date	Description
31.309.78.212	15/03/1985	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
P206128 rev.1	2003/02/24	Environmental tests of the ERRS
P206128-1	2003/02/27	corrosion test of the ERRS
02090P	2002/11/08	Additional tests of the ERRS
P801304	2008/03/13	Solar radiation test
	2009/10/14	Weak link test

4. APPLICATION / LIMITATION :

- As per requirements stated on front page of this Certificate.
- Where the weak link is part of the supply, it shall comply with items N° 21, 22 & 23 on drawing N° A000163 Rev. 2.
- Since not submitted to the painter strain there is no limitation in respect to the liferaft capacity (the "Rope sling", which is part of the device was strength tested at 15 KN, liferaft for more than 25 persons)
- 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 :

This certificate does not allow the applicant 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 "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex B of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

Each equipment or batch of equipment is to be supplied with its manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT :

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

- HAMMAR H20R or HAMMAR H20 ERU
- Serial number
- Expiry date
- Markings as per MED 96/98/EC: \boxtimes YYYY/XX where YYYY is the number of the Notified Body undertaking surveillance module (where BV, 0062) and XX are the last two digits of year mark affixed.
- The notation: "DO NOT PAINT"

In pursuance of the EU/US MRA+, and in accordance with the Council Decision 2004/425/EC of 21 April 2004, the manufactured item(s) can be affixed with the USCG conformity marking, subject to the authorization of the Conformity Assessment Body undertaking surveillance module.

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.

This certificate supersedes EC Type Examination Certificate No 07493/D1 EC, issued on 2009-08-04 by the Society.

*** END OF CERTIFICATE ***