



Certificate number: 07493/E0 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 2012/32/EU

*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 &amp; HAMMAR H20-ERU

#### Requirements:

SOLAS 74 Convention, as amended, Regulation III/4, X/3, III/13, III/26 and III/34  
IMO Res. MSC.48(66) amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87) & MSC.320(89)  
IMO Res. MSC.36(63) 8 - IMO Res. MSC.97(73) 8  
IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89) & MSC.323(89)  
IMO MSC/Circ.811 & IMO MSC/Circ.980

*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: 24 Jan 2019**

**For BUREAU VERITAS Notified Body 0062,**

At BV GOTHENBURG, on 24 Jan 2014,

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 :

This version of the **HAMMAR H20R** Hydrostatic Release Unit is intended for fitting Float-free arrangements for liferafts.

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 is powered by the ship's Emergency Power Supply and by a back-up battery at every Control Panel.
- The ERRS system may be activated from one or several remote release positions.
- The ERRS system does not affect the hydrostatic function of the HAMMAR H20.
- Operational lifetime of a total of 24 months installed onboard

This EC Type Examination Certificate only covers the hydrostatic function of the HRU version **HAMMAR H20**, 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.

- 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).
- Its Operational lifetime is set to a total of 24 months installed onboard.

### 2. DOCUMENTS AND DRAWINGS :

- Drawings and specifications:

Document	Issue	Date
CM HAMMAR AB - DRAWING AND SPECIFICATIONS	1	2012-05-25

- Markings:

Document	Issue	Date
0001 Top Label	1	2014-01-15
0002 Expiry Label	1	2014-01-15

- Manual for installation, use and maintenance

Document	Issue	Date
HAMMAR H20 Manual HT-0019	08	2013

*No departure from these documents is permitted without the prior consent of the Society*

### 3. TEST REPORTS :

As per test report listed in the following document:

#### **Hydrostatic Release Units**

Number	Date	Description
31.309.78.212	01/03/1985	Initial Type Tests
31.309.78.212 Encl.	15/03/1985	Submergence Tests
31.309.78.212 Encl.	01/10/1985	Tests on Membranes
85M51019	28/08/1985	Type tests on the membranes
85M51019 Encl.2	28/08/1985	
85M51019 Encl.4	29/08/1985	
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
KMyP203085b	06/08/2002	Type tests : Corrosion resistance, Temperature cycling, and release test
N° KMyP03765	05/09/2002	Type tests : Corrosion resistance, Temperature cycling, and release test
P801304	13/03/2008	Solar radiation test

#### **Weak Link**

Number	Date	Description
	14/10/2009	Weak link test

**Rope Sling**

Number	Date	Description
96H30094B	05/06/1996	Breaking Load test of rope Sling
KMpI-2013	28/10/2002	Breaking Load test of rope Sling

**ERRS system**

Number	Date	Description
02090P	08/11/2002	Additional tests of the ERRS
P206128 rev.1	24/02/2003	Environmental tests of the ERRS
P206128-1	27/02/2003	Corrosion test of the ERRS

**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° 20, 21 & 22 on drawing N° A0001070 Rev. 1.
- 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.
- 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.

**5. PRODUCTION SURVEY REQUIREMENTS :**

This certificate alone 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.

For information concerning the production phase modules, **CM HAMMAR AB** has declared that the product may be manufactured

at the following manufacturing places :

**CM HAMMAR AB**

August Barks Gata 15  
S-42132 V:a Frölunda  
SWEDEN

**6. MARKING OF PRODUCT :**

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

- "HAMMAR H20 R" or "HAMMAR H20 ERU"
- Serial number
- Expiry date
- Markings as per MED 96/98/EC: ☒ 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 product(s) marked as per MED 96/98/EC may be marked with the USCG conformity marking as authorized by the Notified 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/D2 EC, issued on 04/12/2009 by the Society.

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