

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00001W4
Revision No:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Inflatable liferafts

with type designation(s)

Throw-over-board type: HAF-A6, HAF-A10, HAF-A15, HAF-A16, HAF-A20, HAF-A25 and DFN-T6, DFN-T10, DFN-T15, DFN-T16, DFN-T20, DFN-T25

Issued to

Shanghai Haian Lifesaving Equipment Co., Ltd.
Shanghai, 020, China

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2021/1158,**

item No. MED/1.12. SOLAS 74 as amended, Regulation III/4, III/13, III/21, III/26, III/31, III/34 & X/3, LSA Code, IMO MSC/Circ.811, IMO MSC.1/Circ.1328 and 2000 HSC Code 8

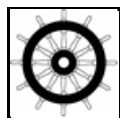
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-11-07**.

Issued at **Hamburg** on **2021-11-08**

DNV local station:
Shanghai

Approval Engineer:
Michael Oberländer



Notified Body
No.: **0098**

for **DNV SE**

Christine Mydlak-Roeder
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Inflatable liferafts, throw-over-board type (with SOLAS A and B Pack)
 HAF-A6, HAF-A10, HAF-A15, HAF-A16, HAF-A20, HAF-A25 and
 DFN-T6, DFN-T10, DFN-T15, DFN-T16, DFN-T20, DFN-T25

Trade Name: HAF (for HAF-A) and SEAMAN (for DFN-T)

Application/Limitation

Type	Persons (each 82.5 kg)	SOLAS A Weight [kg]	SOLAS B Weight [kg]	Required bollard pull [kN]		Maximum stowage height [m]
				2 kn	3 kn	
HAF-A6 (DFN-T6)	6	75	63	0.66	1.18	30
HAF-A10 (DFN-T10)	10	94	69	0.68	1.24	30
HAF-A15 (DFN-T15)	15	130	95	0.85	1.40	30
HAF-A16 (DFN-T16)	16	132	97	0.87	1.45	30
HAF-A20 (DFN-T20)	20	155	110	1.00	1.65	30
HAF-A25 (DFN-T25)	25	183	128	1.30	1.90	30

- The liferafts shall be packed with a SOLAS A- or SOLAS B emergency pack.
- Gas cylinders shall be of an approved type.
- Components in the gas inflation system should be approved according to ISO 15738:2002.
- The liferaft is intended to be installed with external weak link and a hydrostatic release unit. Float free arrangement to be checked upon installation on board.
- The liferafts are to be serviced annually, provided where in any case this is impracticable, the administration may extend this period to 17 month. They shall be serviced at approved service stations which are authorised by the manufacturer.
- Production tests are to be conducted in accordance with IMO Resolution MSC.81(70) Part 2 and recorded by the manufacturer in accordance with the approved Production Quality Assurance system for Module D of the Marine Equipment Directive 96/98/EC as amended.
- The design assessment is based on International Life-Saving Appliances (LSA) Code, IMO Res. MSC 48(66) as amended by IMO Res. MSC.218(82) and IMO Res. MSC.293(87).

Type Examination documentation

- Test reports from GL Shanghai dated 2009-11-30, 2011-09-21 (Ref.11-153105) and 2015-02-11 (Ref.15-020877 for modified boarding platform)
- The National Supervision and Testing Center of Fishery Machinery and Instrument (No.2014YW107)
- Inspection report for high/low inflation 2021SW026 dated 2021-08-24
- Fabric Test Report (2009-11-17~2010-01-11) witnessed by GL Shanghai
- Design Calculation for HAF-A / DFN-T Type Inflatable Liferaft
- Servicing Manual and User Manual

Tests carried out

Prototype tests and test reports in accordance with the Recommendations on Testing of Life-Saving Appliances, IMO Res.MSC.81(70) Part 1, including IMO Res.MSC.218(82), MSC.226(82), MSC.295(87) and MSC.323(89), have been witnessed and found to be in compliance.

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, date of manufacture and the MED Mark of Conformity (see first page). The marking shall comply with the LSA Code (IMO Res.MSC48(66) item 4.2.6.3 and 4.2.7.