DNV·GL

Certificate No:
MEDB00005G1

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL 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)
KHD-12, KHD-15, KHD-16, KHD-20, KHD-25, KHD-30, KHD-35 (Davit-launched type) with brand names: HERO, SEA DYNASTY

Issued to
Shanghai Youlong Rubber Products Co., Ltd.
Shanghai, 020, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773,**
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 and 2000 HSC Code 8

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

This Certificate is valid until **2024-05-08**.

Issued at **Hamburg** on **2019-05-09**

DNV GL local station:
Shanghai

Approval Engineer:
Michael Oberländer

Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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 GL 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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Product description

The KHD-12/15/16/20/25/30/35 is a davit-launched, inflatable liferaft, available with SOLAS A and SOLAS B pack.
All these liferaft designs are complying with the LSA-Code as amended, including MSC.293(87).
Trade names: HERO, SEA DYNASTY

Application/Limitation

Max. Stowage Height: 50 m

Type	Persons (82.5 kg each)	Weight [kg]		Required bollard pull [kN]	
		SOLAS A	SOLAS B	(2 kn)	(3kn)
KHD-12	12	137	111	0,55	0,90
KHD-15	15	153	121	0,70	0,95
KHD-16	16	163	129	0,75	0,98
KHD-20	20	188	146	0,95	1,15
KHD-25	25	211	159	1,20	1,65
KHD-30	30	325	245	1,30	1,90
KHD-35	35	340	256	1,40	2,00

- The liferafts shall be packed with a SOLAS A Pack or SOLAS B 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 impractible, the administration may extend this to a period of 17 months. They shall be serviced at approved service stations which are authorized 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 liferafts which have a mass above 185 kg may not be used for positions where side to side transfer is necessary.

Type Examination documentation

Drawings: KHD-12-0000, KHD-15-0000, KHD-16-0000, KHD-20-0000, KHD-25-000, KHD-30-0000, KHD-35-0000
This certificate replaces the previous MED-B certificate 95019-10 HH, issued by DNV GL.

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.
Test reports: Germanischer Lloyd Shanghai 80623 SHA of 2003-12-22, 97424 SHA of 2008-07-21, 10993 SHA 09, 11680 SHA 09 and 11653 SHA of 2010-05-14 GL SHA of 2011-07-11 and GL SHA of 2013-11-13.

Additional tests for the inclusion of the sizes KHD-30 and KHD-35 were conducted between 2017-07-17 ~ 2017-08-26 and witnessed by DNV GL Shanghai.
Towing test in accordance with MSC.81(70) Part1, 5.4 dated 2019-02-15 and witnessed by DNV GL.

Material Tests:

- Shanghai Monitoring and Inspection Center for Rubber Products Quality No. W(X)2012-230
- Wuhan Testing Center of Marine Life-Saving Appliances, No. 2014048 dated 2014-07-04.

Marking of the product

The product is to be indelibly marked with the name and address of the manufacturer, type designation and date of manufacture. The marking shall comply with the LSA Code (IMO Res.MSC.48(66)) item 4.2.6.3 and 4.2.7.