

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)
KHA-6/8/10/15/20/25/30/35

Issued to

Shanghai Youlong Rubber Products Co., Ltd.
Shanghai, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306**,
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 **2022-04-02**.

Issued at **Hamburg** on **2017-04-03**

DNV GL local station:
Shanghai CMC

Approval Engineer:
Michael Oberländer



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudsus
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

Throw over board inflatable liferafts with the following type designation: KHA-6, KHA-8, KHA-10, KHA-15, KHA-20, KHA-25, KHA-30, KHA-35

All these liferaft designs are complying with the LSA-Code as amended, including MSC.293(87).

Trade name: YOULONG / SEA SAFE / DUARRY / UNITOR

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)
KHA-6	6	75	60	0,63	1,18
KHA-8	8	88	68	0,65	1,28
KHA-10	10	98	78	0,67	1,40
KHA-15	15	127	97	0,90	2,05
KHA-20	20	162	120	1,00	2,25
KHA-25	25	183	139	1,25	2,40
KHA-30	30	198	152	1,70	2,65
KHA-35	35	223	158	1,90	2,80

- 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 impracticable, 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 KHA-30 (SOLAS A pack) and KHA-35 (SOLAS A pack) have a mass above 185 kg and may not be used for positions where side to side transfer is necessary.

Type Examination documentation

Drawings: KHA-6-00/01/02/03, KHA-8-00/01/02/03, KHA-10-00/01/02/03, KHA-15-00/01/02/03, KHA-20-0000, KHA-25-0000, KHA-30-0000, KHA-35-0000

Technical file verified with ref.: 12-124976, 13-054586 and 13-029220.

This certificate replaces the previous MED-B certificates 95025-10 HH and 95027-10 HH.

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 62842 SHA of 2002-01-22 and 2002-02-05, 2006-03-20, 2007-04-05, 2007-07-12, 2008-07-21, 11653 SHA of 2010-05-14, GL SHA of 2011-07-11 and 2013-02-01, 92598 SHA of 2007-06-21, W(x)2012-230.

Drop test for stowage height of 50m was witnessed by DNV GL Shanghai on 2017-01-17.



Job Id: **344.1-006578-1**
Certificate No: **MEDB000028B**

Marking of 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.