

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00007NW

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)
KHA-6/8/10/12/15/16/20/25/30/35 (II)

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) 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

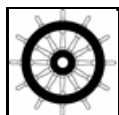
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-11-28**.

Issued at **Hamburg** on **2021-11-29**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

KHA-6/8/10/12/15/16/20/25/30/35 (II) are throw over board, inflatable liferafts packed in cylindrical containers, as specified below.

This liferaft type is identical with KHA-6/8/10/12/15/16/20/25/30/35 (MEDB000028B Rev.2) but with a higher gas volume for all sizes and added gas cylinder quantity for sizes KHA-6/8/10/12/15/16 (II).

Trade name: YOULONG

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 (II)	6	81	66	0,50	0,70
KHA-8 (II)	8	90	72	0,60	0,80
KHA-10 (II)	10	103	78	0,67	0,90
KHA-12 (II)	12	115	87	0,55	0,90
KHA-15 (II)	15	131	96	0,85	1,40
KHA-16 (II)	16	135	99	0,65	0,95
KHA-20 (II)	20	166	123	0,85	1,50
KHA-25 (II)	25	193	134	0,90	1,65
KHA-30 (II)	30	220	151	0,95	1,70
KHA-35 (II)	35	250	171	1,00	1,80

- 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 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).
- The liferafts KHA-25/30/35 (II) (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: General Arrangement KHA-6(II)-00, KHA-8(II)-00, KHA-10(II)-00, KHA-12(II)-00, KHA-15(II)-00, KHA-16(II)-00, KHA-20(II)-00, KHA-25(II)-00, KHA-30(II)-00, KHA-35(II)-00

Technical file in NPS 344.1-011763-1

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:

- For KHA-6/8/10/15/20/25/30/35: 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
- For KHA-12/16: Germanischer Lloyd Shanghai 80623 SHA of 2003-12-18, 93309 SHA of 2007-07-12, 97424 SHA of 2008-07-21, 11680 SHA 09. GL SHA dated 2010-05-14, 2011-07-11 and 2013-11-13.

- Drop test with round containers for stowage height of 50m was witnessed by DNV GL Shanghai on 2017-01-17.
- New towing test in accordance with MSC.81(70) Part 1, 5.4 for a speed of 2kn and 3kn, witnessed by DNV GL Shanghai 2019-02-15.
- Tests for design alterations of KHA-6/8/10/12/15/16/20/25/30/35 (II): Evaluation and test report (MSC.1/Circ.1630) no. YL-TR-DNV-KHA(II)-2021, dated 2021-09-01 and witnessed by DNV Shanghai.

Material Tests:

- Shanghai Monitoring and Inspection Center for Rubber Products Quality: Report No. W(X) 2021-230
- Wuhan Testing Center of Marine Life-Saving Appliances: No. 2014048, dated 2014-06-09 until 2014-07-04

Marking of product

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