



TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB000028C
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Automatically self-righting liferafts

with type designation(s)

KHZ-6/10/15/20/25/30/35/50/65 with brand names: YOULONG, SEA SAFE, MSC

Issued to

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

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

Regulation **MSN 1874 Amendment 7,**

item No. UK/1.14a SOLAS 74 as amended Reg. III/4, III/26, III/ 34 and X/3, LSA Code I, IV and 1994 HSC Code 8.
2020 HSC Code 8

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

This Certificate is valid until **2024-05-09.**

Issued at **London** on **2023-06-21**

DNV local unit:
Shanghai



for **DNV UK Ltd.**

Approval Engineer:
Tessa Biever

Approved Body No.: **0097**

Christine Mydlak-Roeder
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved 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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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.



Form code: MER 201.GBR

Revision: 2023-03

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Product description

'KHZ-6/10/15/20/25/30/35/50/65 with brand names: YOULONG, SEA SAFE, MSC'
Are throw overboard, automatically self-righting, inflatable liferafts.

Application/Limitation

Type	Persons (@82.5 kg)	Weight [kg]		Required bollard pull [kN]		Max. stowage height [m]
		SOLAS A	SOLAS B	2 kts	3 kts	
KHZ-6	6	85	70	0,38	0,52	50
KHZ-10	10	113	85	0,65	0,85	50
KHZ-15	15	141	108	0,90	1,15	50
KHZ-20	20	184	140	1,05	1,30	50
KHZ-25	25	210	157	1,10	1,70	50
KHZ-30	30	302	240	1,20	1,70	50
KHZ-35	35	320	250	1,30	1,90	50
KHZ-50	50	438	336	1,40	2,35	50
KHZ-65	65	514	335	1,90	2,40	50

The liferaft 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 15738:2019.

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 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).

Production testing shall be carried out according to IMO Res. MSC.81(70) part 2.

The liferaft KHZ-25 (SOLAS A pack) and KHZ-30/35/50/65 (SOLAS A and B pack) have a mass above 185 kg and may not be used for positions where side to side transfer is necessary.

Type Examination documentation

Test reports from Germanischer Lloyd Shanghai:

- 62842 SHA of 2002-01-22 and 2002-02-05, 2006-12-25, 2007-04-06, 2008-07-21, 11653 SHA of 2010-05-14, GL SHA of 2011-07-11.
- For model KHZ-50: 80623 SHA dated 2003-12-21, 10993, 11680 SHA 09 and 11653 SHA dated 2010-05-14 and GL SHA dated 2011-07-11 and 2013-11-13
- Drop test for stowage height of 50m was witnessed by DNV GL Shanghai on 2017-01-17. Additional test for inclusion of the sizes KHZ-30/35/65 were conducted between 2017-07-11 and 2017-08-29 and witnessed by DNV GL Shanghai.
- New towing test carried out 2019-02-15 and witnessed by DNV GL Shanghai.

Drawings:

KHZ-6-0000, KHZ-10-0000, KHZ-15-0000, KHZ-20-0000, KHZ-25-0000, KHZ-30-00, KHZ-35-00, KHZ-50-00 and KHZ-65-00

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

Technical file with ref. 14-042425

Tests carried out



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

Marking of product

The product is to be indelibly marked with name and address of manufacturer, type designation, dimensions, date of manufacture and the UK Mark of Conformity (see first page). The marking shall comply with the LSA Code Ch. 4.2.6 and 4.2.7.