

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)
ZHR-D15, ZHR-D16, ZHR-D20, ZHR-D25 (davit launched type)

Issued to

Ningbo Zhenhua Life-saving Equipment Co., Ltd.
Ningbo 130, 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

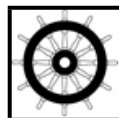
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-09-04.**

Issued at **Hamburg** on **2017-09-05**

DNV GL local station:
Ningbo

Approval Engineer:
Michael Oberländer



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Job Id: **344.1-007343-1**
Certificate No: **MEDB000033Z**

Product description

Davit launched inflatable liferaft: ZHR-D15, ZHR-D16, ZHR-D20, ZHR-D25

Trade names: ZHENHUA , EUROSUL

Application/Limitation

Type:	Persons (82,5 kg)	Weight [kg] SOLAS A	Weight [kg] SOLAS B	Required bollard pull [kN]		max. Stowage Height
				(2 kn)	(3 kn)	
ZHR-D15	15	173	138	0.78	1.35	46 m
ZHR-D16	16	175	138	0.78	1.35	46 m
ZHR-D20	20	193	148	1.05	1.62	46 m
ZHR-D25	25	235	180	1.27	1.81	46 m

This certificate replaces the previous DNV GL MED-B certificate 94716-10 HH.

The liferafts are to be serviced annually at approved service stations which are authorized by the manufacturer.

Production tests are to be conducted in accordance with IMO Res.MSC.81(70), Part 2 and recorded by the manufacturer in compliance with the approved Production Quality Assurance System for Module D of the Marine Equipment Directive 96/98/EC as amended.

The design assessment is base on IMO Res.MSC.48(66)-(LSA Code) Ch.I and IV, as amended by:

- IMO Res. MSC.207(81)
- IMO Res. MSC.218(82)
- IMO Res. MSC.293(87)

Type Examination documentation

Tests carried out

The product has been tested in accordance with the Revised Recommendation on Testing of Life-saving Appliances, IMO Res. MSC.81(70), as amended by:

- IMO Res. MSC.226(82)
- IMO Res. MSC.295(87)
- IMO Res. MSC.323(89)

Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, date of manufacturer and batch or serial number or other elements allowing their identification. The marking shall comply the LSA Code (IMO Res. MSC.48(66)) item 4.2.6 and 4.2.7.