

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)

SDR-A6, A8, A10, A12, A15, A16, A20, A25 (throw over-board type)

Issued to

**Shanghai Huaxiang Dacheng Rubber Plastics 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

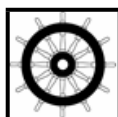
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-06-03**.

Issued at **Hamburg** on **2018-06-04**

DNV GL local station:
Shanghai CMC

Approval Engineer:
Peter Zell



Notified Body
No.: **0098**

for **DNV GL SE**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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



Product description

Inflatable liferafts, throw over-board type with SOLAS A or B Pack and the following type designations: SDR-A6, A8, A10, A12, A15, A16, A20, A25

All these liferaft designs are complying with IMO Res. MSC.48(66)-(LSA Code) Ch. I and IV, as amended by IMO Res. MSC.218(82) and IMO Res. MSC.293(87).

Application/Limitation

Type	Persons (each 82.5 kg)	Weight [kg] SOLAS A	Weight [kg] SOLAS B	Required bollard pull [kN]		Max. Stowage Height [m]
				2 kn	3 kn	
SDR-A6	6	77	67	0.45	0.75	40
SDR-A8	8	83	68	0.50	0.80	40
SDR-A10	10	103	83	0.58	0.90	40
SDR-A12	12	111	86	0.64	0.96	40
SDR-A15	15	129	99	0.74	1.05	40
SDR-A16	16	133	103	0.77	1.07	40
SDR-A20	20	168	128	0.90	1.20	40
SDR-A25	25	185	143	1.05	1.35	40

- 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.
- 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 15738:2002.
- 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.
- 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.

Type Examination documentation

This certificate is replacing the previous MED B certificate 60084-13 HH

Prototype Tests witnessed by GL SHA, dated 2012-06-05 ~ 2012-09-28,
Evaluation and Test Reports evaluated and noted with GL Ref-No.: 12-129669.

Material Tests performed at Shanghai Institute of Rubber Products Testing Center,
Report No.: W(X)2012-211 dated 2012-02-20 ~ 2012-03-23

Design Drawings, Edition No. 1.2:

SDR-A6-00 Inflatable liferaft – General drawing, SDR-A6-01 Inflatable liferaft – Structure drawing
SDR-A8-00 Inflatable liferaft – General drawing, SDR-A8-01 Inflatable liferaft – Structure drawing
SDR-A10-00 Inflatable liferaft – General drawing, SDR-A10-01 Inflatable liferaft – Structure drawing
SDR-A12-00 Inflatable liferaft – General drawing, SDR-A12-01 Inflatable liferaft – Structure drawing
SDR-A15-00 Inflatable liferaft – General drawing, SDR-A15-01 Inflatable liferaft – Structure drawing
SDR-A16-00 Inflatable liferaft – General drawing, SDR-A16-01 Inflatable liferaft – Structure drawing
SDR-A20-00 Inflatable liferaft – General drawing, SDR-A20-01 Inflatable liferaft – Structure drawing
SDR-A25-00 Inflatable liferaft – General drawing, SDR-A25-01 Inflatable liferaft – Structure drawing



Job Id: **344.1-007995-1**
Certificate No: **MEDB00003XB**

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 and date of manufacture. The marking shall comply with the LSA Code (IMO Res.MSC48(66) item 4.2.6.3 and 4.2.7.