

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)
LR-DL-12, 16, 20 & 25, davit launched type

Issued to

Ocean Safety Ltd
Southampton, United Kingdom

Trade names: OCEAN SAFETY, REVERE

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

Regulation **(EU) 2018/773**,
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

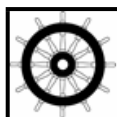
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-08-19**.

Issued at **Hamburg** on **2018-08-20**

DNV GL local station:
Southampton

Approval Engineer:
Michael Oberländer



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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

LR-DL-12, 16, 20 & 25 is a davit-launched inflatable liferaft type, available with SOLAS A and B Pack.

Application/Limitation

Type	Persons (82.5kg)	Weight [kg]		Required bollard pull [kN]		Maximum stowage height (m)
		SOLAS A	SOLAS B	2 kn	3 kn	
LR-DL-12	12	142	125	1.0 kN	1.8 kN	40
LR-DL-16	16	170	140	1.0 kN	1.9 kN	40
LR-DL-20	20	226	190	1.5 kN	2.2 kN	40
LR-DL-25	25	270	210	1.5 kN	3.1 kN	40

- The liferafts shall be packed with SOLAS A Pack or SOLAS B Pack.
- Gas cylinders shall be of an approved type.
- Components of the gas inflation system should be approved according to ISO 15738:2002.
- The liferafts are intended to be installed with external weak link and a hydrostatic release unit.
- Liferafts types with a mass of more than 185 kg are not suitable for side-to-side transfer and have to be stowed for launching directly from the stowed position under unfavourable conditions of trim and list (SOLAS III/16.1.2).
- The liferafts are to be serviced at intervals not exceeding 12 months, provided where in any case this is impracticable, the administration may extend this period to 17 months, 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 2014/90/EC.

Type Examination documentation

The design assessment is based 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)
- Test report MSC/Circ.980 4.1 GL SHA dated 2009-08-10, 2011-12-15 and 2014-03-10 (SHA-1401152).
- Test report MSC/Circ.980 4.3.4 GL Shanghai, 2009-08-10.
- Inspection report from Shanghai Monitoring and Inspection Center for Rubber Products Quality no. W(X) 2009-26.
- Technical file approval ref.no. 13-103767 and 14-090572.

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 and batch or serial number or other elements allowing identification. The marking shall comply with the LSA Code (IMO Res. MSC 48(66)) item 4.1.5, 4.2.6 and 4.2.7.