



# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB000042G**  
Revision No:  
**5**

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 Open reversible liferaft**

with type designation(s)

**LR-ORL-6, 15, 25, 30, 50, 65 & 132 Trade names: OCEAN SOLAS, PLASTIMO**

Issued to

**Ocean Safety Ltd  
Southampton, United Kingdom**

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

Regulation (EU) 2023/1667,

**item No. MED/1.39. SOLAS 74 as amended, Regulation III/4 & X/3, LSA Code, 2000 HSC Code 8, IMO Res. MSC.481(102) and IMO MSC.1/Circ.1328**

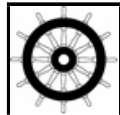
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2028-08-17**.

Issued at **Hamburg** on **2024-01-24**

DNV local unit:  
**UK & Ireland CMC & VMC**

Approval Engineer:  
**Michael Oberländer**



Notified Body  
No.: **0098**



for **DNV GL SE**

Digitally Signed By:  
**Christine Mydlak-Röder**  
Location: DNV GL SE,  
Hamburg, Germany

**Mydlak-Röder, Christine**  
**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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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

LR-ORL-6, 15, 25, 30, 50, 65 & 132 is an open reversible liferaft in accordance with HSC-Code 8.10.2, equipped with HSC Pack and stowed in a cylindrical container in two variants.

LR-ORL-25, 30 & 65 may be manufactured alternatively with a square container.

Trade name: OCEAN SOLAS, PLASTIMO

## Application/Limitation

Cylindrical Model:

Type	Persons (82.5kg)	Weight (kg) HSCPack	Required bollard pull (kN)		Maximum Stowage Height (m)
			2 knots	3 knots	
LR-ORL-6	6	54	0.65	0.80	10
LR-ORL-15	15	90	0.80	1.30	10
LR-ORL-25	25	122	1.30	1.53	10
LR-ORL-30	30	144	1.25	1.55	10
LR-ORL-50	50	178	1.46	2.30	10
LR-ORL-65	65	208	1.50	2.40	10
LR-ORL-132	132	346	2.41	4.22	10

Slimline Cylindrical Model:

Type	Persons (82.5kg)	Weight (kg) HSCPack	Required bollard pull (kN)		Maximum Stowage Height (m)
			2 knots	3 knots	
LR-ORL-25	25	102	1.30	1.53	10
LR-ORL-30	30	141	1.25	1.55	10
LR-ORL-50	50	179	1.46	2.30	10

This liferaft variant is approved for use with a slimline round container type (OS-164-GA-16 or OS-164-GA-20&25).

### Conditions for approval:

- The liferafts shall be packed with HSC 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.
- 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 by one month, 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.
- Liferaft types having 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.

## Type Examination documentation

Drawings: Technical file verified with ref.: 13-002242, 13-026865 and 13-058222

These liferaft models are technically identical to the liferaft type manufactured by Shanghai Star Rubber (CSM), Raft R-XX certified with MEDB00001MM as agreed in the authorization letter dated 2018-02-12 between Ocean Safety and CSM.

### Tests carried out

Test reports: Germanischer Lloyd Shanghai of 2013-03-06, 2013-05-29 and 201608-26.

Inspection report: Shanghai Monitoring and Inspection Center for Rubber Products Quality, No. W(X) 2009-26

Following tests of MSC.81(70), part 1 have been omitted in accordance with HSC Code 2000 Annex 11,7.:

5.5, 5.8 regarding closing arrangements, 5.12, 5.16, 5.17.2, 5.17.10, 5.17.11, 5.17.12, 5.18 and 5.20.

The drop height in test 5.1.2 was substituted with 10m.

Additional drop test and weight test for RAFT-R-25/30/50 liferaft with slimline cylindrical container OS-164-GA-16 and OS-164-GA-20&25 have been carried out 2022-03-04 (report: RAFT-R/SYB-2022(I)) and witnessed by DNV.

### Marking of product

The product is to be indelibly marked with name and address of the manufacturer, type designation, date of manufacture, batch or serial number or other elements allowing identification and the MED Mark of Conformity (see page 1).

The equipment and marking of the liferaft incl. stowage container shall be in accordance with HSC Code 2000 Annex 11.