TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB000020E
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: inflatable

with type designation(s)
LSA 100P SRL MK1, LSA 115P SRL

Issued to
Liferaft Systems Australia Pty Ltd.
Derwent Park, **Australia**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 6,**
item No. MER/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 and 2020 HSC Code 8.

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

This Certificate is valid until **2027-01-20**.

Issued at **London** on **2022-10-25**

for **DNV UK Ltd.**

DNV local station:
Australia NB

Approval Engineer:
Roland Priebe

Approved Body No.: **0097**

Christine Mydlak-Röder
MER Service Responsible

Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

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. The product liability rests with the manufacturer or his representative in accordance with the Merchant Shipping (Marine Equipment) Regulations 2016.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV UK Ltd. of any changes to the approved equipment. 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. This certificate remains valid unless suspended, withdrawn, re-called, or cancelled.

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

"LSA 100P SRL MK1 and LSA 115 P SRL" are automatically self-righting inflatable liferaft for resp. 100 and 115 persons.

	100P SRL MK1	115P SRL
Container material:	As detailed in DSI.017, issue 5, dated 2001-11-02	As detailed in DSI.017, issue 6, dated 2009-04-08
Buoyancy tube fabric:	As detailed in DSI.001, issue 6, dated 2003-10-02	As detailed in DSI.001, issue 8, dated 2012-01-20
Exterior canopy fabric:	As detailed in DSI.002b, issue 3, dated 2003-10-07	As detailed in DSI.002b, issue 3, dated 2003-10-07
Adhesive:	As detailed in DSI.010, issue 2, dated 2003-10-08	As detailed in DSI.010, issue 2, dated 2003-10-08

The design assessment is based on IMO Res. MSC.48(66) as amended by IMO Res. MSC.218(82) and IMO Res. MSC.293(87).

Application/Limitation

	100P SRL MK1	115P SRL
Stowage height, max:	25 m	20 m
Number of persons, max:	100	115
Weight of liferaft:	540 kg (SOLAS A-pack) 420 kg (SOLAS B-pack)	625 kg (SOLAS A-pack) 490 kg (SOLAS B-pack)
Required towing force:	2 knots – 1,55 kN 3 knots – 3,86 kN	2 knots – 2,75 kN 3 knots – 3,8 kN

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.

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

Type examination documentation

Test reports	**Date**
Prototype test reports for increase of weight from 75 to 82.5 kg witnessed by DNV surveyor	2011-11-17 2011-12-16
Test report for drop test due change of type for position indicating light to Dianamant RL7	2021-11-04
Drawings	**Date**
Drawings and test report as per DNV Approval letter dated 2008-10-14 (ref. our technical file 344.1-002782)	2008-10-14
Approval documentation 115 P SRL including: - Operations and maintenance manual - Design specifications - Material certificates - Prototype test reports witnessed and signed by DNV GL - Drawing nos: ○ 0068 (4 sheets) – Label data liferaft ○ 0128 (4 sheets) – Towing patch ○ 0192 (4 sheets) – Water pocket ○ 0348 (3 sheets) – 100P/115p self-righting liferaft interface ○ 0443 (6 sheets) – Boarding ramp ○ 0734 (3 sheets) – General arrangement ○ 0742 (2 sheets) – Container ○ 0743 (2 sheets) – Container ○ 0750 (17 sheets) – General arrangement/hull assembly	April 2018 2018-03-20 1995-11-24 1994-05-21 1995-05-17 2000-08-15 2002-03-15 2017-07-28 2017-01-20 2017-01-20 2017-07-28

○ 0751 (4 sheets) – Canopy assembly ○ 0752 (2 sheets) – Assembly lower components, cylinder, floor and water pockets	2017-07-28 2017-07-28
Other	**Date**
Product specification 100P SRL MK1 Liferaft, Doc. No. DSI.015	1998-12-04
Product specification 115P SRL Liferaft, Doc. No. DSI.040	2018-03-20
MCA Certificates of Inspection and Tests of materials referred in DSI.001 and DSI.002b	See under product description

Tests carried out

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), IMO Res. MSC.295(87) and IMO Res. 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, date of manufacture and the MER Mark of Conformity (see page 1). The marking shall comply with the LSA Code Ch. 4.2.6 and 4.2.7.