Certificate No: LR25127404SS
Issue Date: 17/05/2025
Expiry Date: 16/05/2030

Certificate of Type Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	**Survitec Group Ltd.**
Address	Kingsway, Dunmurry, Belfast, BT17 9AF, United Kingdom
Type	INFLATABLE LIFERAFTS
Description	100 person capacity throw/roll over open reversible liferaft
Trade Name	RFD Ferryman 100 (also known as Beaufort 100 ORL, DSB LR14R, Crewsaver, Elliot, Survitec, Survitec Zodiac, SSPI, RFD Toyo)
Specified Standard	IMO Res. MSC.36 (63) – (1994 HSC Code) Annex 10 IMO Res. MSC.97 (73) – (2000 HSC Code) Annex 11 ISO 15738:2019

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The attached Design Appraisal Document forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Lijo Thomas

Lijo Thomas

Fire & Safety - Senior Surveyor to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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DESIGN APPRAISAL DOCUMENT

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR25127404SS

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Design Appraisal Document forms part of the Certificate.

This Certificate is a Renewal and an Amendment of Certificate Number LR2003989SS

APPROVAL DOCUMENTATION

Note: *The 100 person capacity is achieved with 2 x 50 person open reversible liferafts being packed within one container.*

Service Manual 177 Rev 6 for Ferryman Open Reversible Liferafts, dated 23/02/2010.

Service Manual M310 Rev 1 for Open Reversible Liferafts, dated 31/07/2015.

Design Change Sheet - DCS 8026, Elimination of PU-Nylon attachments, dated 01/07/2002.

Design Change Sheet - DCS 8144, Replacement of the A3 Leafield PRV with the Thanner OTS65 PRV, dated 12/05/2003.

Design Change Sheet – DCS 8273, Replacement of Thanner DK88 with DK94 Operating Head System, dated 19/05/2004.

Design Change Sheet – DCS 0574, Update of Ferryman 50/60/75 person Hull to be use in Ferryman 100/130 person configuration, dated 30/03/2015.

Schedule No D41831 Rev 16 for Ferryman 65 ORL, dated 27/05/2010.

Drawing No.	Rev.	Date	Title
D41839	6	23/02/2012	General Arrangement Ferryman 65 ORL
D41831	13	26/09/2003	Main Assembly Ferryman 65 ORL
D52413	2	20/04/2021	Main Assembly (General Arrangement/Design Data 50/65/75 ORL)
D44483	3	22/11/2022	Acceptance of D41831 for 65p ORL used for 50p ORL - FERRYMAN 50 PERSON OPEN REVERSIBLE LIFERAFT UK (HSC Annex.10)

TEST REPORTS

Prototype Test conducted to the requirements of IMO Resolution MSC.81 (70) under the witness of attending Surveyors. Test reports documented by SURVITEC Group Ltd.

Report No.	Date	Report Title.
016/1992	03/03/1992	18m Drop Test of 30 & 65 Person RFD Ferryman ORL
019/1992	03/03/1992	Jump Test of 30 & 65 Person RFD Ferryman Liferafts
017/1992	03/03/1992	Boarding, Freeboard & Damage Test of 30 & 65 Person Ferryman ORL Liferaft (Bath Tests)
022/1992	03/03/1992	Cold Inflation Test of 30 Person RFD Ferryman Liferaft

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014/1992	03/03/1992	Hot Inflation Test of 30 & 65 Person Ferryman ORL Liferafts
119/1992	07/11/1992	Detailed Inspection of 25 & 50 Person RFD Ferryman ORL Liferafts
021/1992	13/03/1992	Ambient Inflation Test of 30 & 65 Person RFD Ferryman Liferaft , with (UK) E packs in Mk 10 containers
031/1992	10/04/1992	Seam Strength Test
088/1992	26/08/1992	Water Pocket
090/1992	02/09/1992	RFD Water Pocket – Revised Material Type
049/1998	31/12/1992	Fabrics Tests as per MSC.81(70)
050/1993	07/07/1993	Swamp Test pf 25 & 50 Person ORL Liferaft
055/1993	10/09/1993	10m Drop Test of 30 & 65 Person Ferryman Liferaft
054/1993	10/09/1993	Cold Inflation Test of 30 & 65 Person Ferryman ORL Liferafts packed in Flatpack Containers
016/1998	05/06/1998	Boarding Ramp Test
021/1999	25/10/1999	Over-pressure Test of 50 Person Suviva Reversible Liferaft
039/2001	23/11/2001	Buoyancy of Float-Free Liferaft Test of 30 & 65 Ferryman ORL with Mk10 GRP Containers
002/2002	15/01/2002	Cold Floor Inflation Test of 16 person US Air Force Liferaft
033/2011	09/11/2011	Testing of Fabric Material RFD 1015
051/2011	14/11/2011	Towing Test of 50 & 65 Person Ferryman ORL Liferaft
054/2011	07/12/2011	Pressure & Mooring Out Test of 50 & 65 Person ORL Liferaft
004/2014	09/01/2014	Mooring Out Test of 50, 65 & 75 Person Ferryman ORL Liferaft
028/2014	31/01/2014	Boarding Test of 50 & 65 Person Ferryman ORL Liferaft
014/2014	26/02/2014	Hot Inflation Test of Ferryman 100 & 130 Person ORL Lifefraft
007/2014	07/03/2014	Visual Inspection of 50 Person RFD Ferryman ORL Liferaft
015/2014	14/03/2014	Cold Inflation Test of Ferryman 100 & 130 Person ORL Lifefraft
032/2014	28/04/2014	Detailed Inspection 100 & 130 Person ORL Lifefraft
030/2014	28/04/2014	18m Drop Test of Ferryman 100 & 130 Person ORL Lifefraft in MK15 Size 13 Cylindrical Container
029/2014	28/04/2014	Towing Test of 50 & 65 Person Ferryman ORL Liferaft
031/2014	28/04/2014	Ambient Inflation Test of Ferryman 100 & 130 Person ORL Lifefraft
036/2014	27/05/2014	Painter System Test of 50, 65 & 75 Person ORL Liferaft
037/2014	27/05/2014	Water Pocket Fill & Weight Test 25.5L & 85L used on Ferryman ORL (30 & 130 Persons)
038/2014	27/05/2014	Weight Test 50, 65 & 75, 100 & 130 Person ORL Person ORL Liferaft packed in a flat Mk16 size 4 container
59942	22/11/2016 - 07/12/2017	Lin Report & Smithers Rapra, Fabric Material Test Report for 3824 (TPU single side coated fabric material RFD 1015/1)

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CONDITIONS OF CERTIFICATION

1. 50 Persons rafts: Container size (s), maximum stowage height (s), weight (s) and towing force:-

Container type / size	Stowage Height (m)	Weight kg	Emergency Pack	Towing Force
Mk 15 Size 31	18	309 / 339	HSC	@ 2 kts: 1.261/1.34 kN @ 3 kts: 2.134/3.40 kN

2. The liferaft has been approved assuming for each person an average mass of 82.5 kg.
3. The container for open reversible liferafts is to be marked with the maker's name or trademark, serial number, approving authority, the number of persons it is permitted to carry, the words “NON- SOLAS reversible”, type of emergency pack enclosed, date when last serviced, length of painter, maximum permitted height of stowage above waterline (depending on drop-test height) and launching instructions.
4. The open reversible liferaft is to be marked with the maker's name or trademark, serial number, date of manufacture (month and year), approving authority, name and place of service station where it was last serviced, number of persons it is permitted to accommodate on the top of each buoyancy tube, in characters not less than 100 mm in height and of a colour contrasting with that of the tube..
5. Provision shall be made for marking each liferaft with the name and port of registry of the ship to which the liferaft is supplied, in such a form that the ship identification can be changed at any time without opening the container.
6. Every liferaft shall be stowed with its painter permanently attached to the craft and with a float free arrangement complying with the requirements of paragraph 4.1.6 of the LSA Code so that, as far as practicable, the liferaft floats free and, if inflatable, inflates automatically should the high speed craft sink.
7. Inflatable liferafts are to be serviced at intervals not exceeding 12 months at a Lloyd’s Register approved or Flag Administration approved service station duly authorized and appointed by the manufacturer.
8. **Installation on board:** The on board arrangements and installation of the liferaft are not part of this Design Appraisal or Certificate and shall be to the satisfaction of the attending Surveyor.
9. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
10. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5.
11. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and each item, batch, or lot be delivered with an LR Certificate of SOLAS Production Testing issued by the attending LR Surveyors following their witness of the tests. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration.

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12. Should a change of Place of Production from that stated on the application form be required, i.e. where the stages of manufacture/assembly/testing of this product takes place, the new Place of Production is to be advised to us prior to the change taking place. This updated notification about the Place of Production is required for this Approval to be maintained.

Lijo Thomas
Senior Specialist
Fire & Safety, Statutory Discipline Team
UK&I Technical Support Office, Marine & Offshore
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s).

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