Certificate No: LR26252449MB
Issue Date: 18/06/2026
Expiry Date: 17/06/2031

Notified Body authorised by
BSH 0800-S23/4822:013

# EC Type Examination (Module B) Certificate

This is to certify that:
LLOYD'S REGISTER Marine Deutschland GmbH (LRMD), designated as a “notified body” based on the notification of the Federal Maritime and Hydrographic Agency of Germany, did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU and the valid Commission Implementing Regulation (EU) in force indicating design, construction and performance requirements and testing standards for marine equipment, subject to the conditions below and the attached Schedule which also forms part of this Certificate.

| | |
|---|---|
| **Manufacturer** | **Survitec Group Ltd.** |
| **Address** | Kingsway, Dunmurry, Belfast, Northern Ireland, BT17 9AF, United Kingdom |
| **Reference** | Marine Equipment Directive (MED) 2014/90/EU, Regulation (EU) 2025/1533 |
| **Regulation Item (No. & Item Designation)** | MED/1.14a Automatically Self-Righting Liferafts: Inflatable |
| **Product Type** | Automatically Self-Righting Inflatable Liferafts |
| **Product Description** | 25 & 35 persons davit-launched canopied inflatable automatically self-righting liferaft |
| **Specified Standard** | SOLAS 74 Reg. III/4, SOLAS 74 Reg. X/3<br>SOLAS 74 Reg. III/26, SOLAS 74 Reg. III/34<br>IMO Res. MSC.36(63)-(1994 HSC Code) 8<br>IMO Res. MSC.48(66)-(LSA Code) I<br>IMO Res. MSC.48(66)-(LSA Code) IV<br>IMO Res. MSC.97(73)-(2000 HSC Code) 8<br>IMO Res. MSC.481(102)<br>IMO MSC/Circ.809<br>IMO MSC/Circ.811<br>IMO MSC.1/Circ.1328<br>IMO MSC.1/Circ.1630 Rev 2 |

Lloyd's Register Marine Deutschland GmbH, Willy-Brandt-Straße 59-65, 20457 Hamburg, Germany.
A member of the Lloyd's Register group

**Marina Borglin**

Fire & Safety - Assistant Specialist
For and on behalf of Lloyd’s Register Marine Deutschland GmbH (2923)

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IMO Resolution MSC.81(70) as amended by Resolution MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89), MSC.378(93), MSC.427(98), MSC.472(101), MSC.488(103), MSC.544(107), MSC.563(108), MSC.568(109), MSC.580(110) as applicable.
IMO Res. MSC.481(102)

| | |
|---|---|
| **Row of the Regulation Item** | Row Row 2 of 2 of Regulation (EU) 2025/1533 |
| **Trade Name** | RFD Surviva R DL (also known as Survitec, Survitec Zodiac) |

The attached Design Appraisal Document (schedule) forms part of this certificate. This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to and agreed with the notified body named on this certificate. The manufacturer should notify LRMD of any modification or changes to the equipment in order to obtain a valid Certificate.

Should the specified regulations or standards be amended during the period of validity of this certificate, the product is to be re-approved prior being placed on the market and on board vessels to which the amended regulations or standards apply.

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 ANNEX II of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

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## ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. LR26252449MB

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

**Approval Documentation**

Service Manual 80957150, SOLAS 74/96 LR 97 (L)SR Throw-over-board liferafts type LR 97 SR for 25, 35, 50 and 100 persons & Davit launchable liferafts type LR 97 LSR for 25 and 35 persons, dated September 2002.

Service Manual 08524009, Surviva Self-righting Liferaft THROW-OVER TYPES 25 & 35 Person & DAVIT LAUNCH TYPES 25 & 35 Person, Version 4, dated October 2020.

DOCUMENT SCHEDULE No. D51361 Rev 02, DSB LR97 25person TYPE49 SR DL HULL SUB ASSEMBLY, undated.

DOCUMENT SCHEDULE No. D51168 Rev 04, LR97 SR 35 Person Davit Launch Type 12, undated.

Design Change Sheets (DCS):

DCS 8934, Marine Liferafts- LR97 Large Capacity Raft's – ORL 25 to 150 Persons and SRL 25 to 150 Persons inclusive - Introduction of alternative fabric to Continental NK205.

DCS 8866, Introduction of alternative fabric related to LIN Report No.0394 RFD 1070, dated 08/05/2008.

DCS 9381, Change of length of lifting bridle, LR 35 Person DL Type 11, dated 28/07/2010.

DCS 2017-08, Change of lifting bridle, inflation system (Leafield GIST) and lights (Danimant RL6), 25 Person DL SRL, undated.

DCS 9324, Introduction of Bostik 6530 as an alternative structural adhesive for Marine Liferafts LR97 Family & Large Liferaft Capacity Rafts, dated 03/06/2010.

| Drawing No. | Rev. No. | Date | Drawing Title |
|---|---|---|---|
| D51361 | 3 | 30/01/2023 | LR97 25 Person TYPE49 SR DL RAFT MAIN ASSEMBLY GA |
| D51168 | 5 | 21/04/2023 | LR97 SR 35 Person DL GA |

**Test Reports**

| Report No. | Date | Title |
|---|---|---|
| TR 2017-036 | 02/03/2017 | 36m Drop Test for Surviva R 25 Person SRL DL Liferaft packed in MK14 Size 17 Container with SOLAS B Pack |
| DM-QTD 2025-070 | 18/11/2002 | 25m Drop Test for LR97LSR 35 Person Liferaft packed in Size 35 Type 4 (35F) Container with SOLAS A Pack or SOLAS B Pack |
| TR 2018-016 | 04/05/2018 | 55m Drop Test for 35 Person SRL DL Liferaft packed in Container Size 45/7F with SOLAS A Pack |
| 2011-024 | 09/05/2011 | 25m Drop Test for 35 Person DL SRL Liferafts packed in Hi-Spec Plastic Containers Sizes 35/4f 35/7F & 35/8F |
| 2011-098 | 24/11/2011 | Jump Test for LR97SR 150 Person Liferaft |
| DM-QTD 2026-019 | - | Weight Test for SR Liferaft 25 Person DL Packed with SOLAS A or B Pack (From Production Data, accepted) |
| DM-QTD 2025-070 | 18/11/2002 | Weight Test for LR97SR 35 Person Liferaft with SOLAS A or B Packs |
| 2011-091 | 19/10/2011 | Towing Test for LR97R 25 Person Type 49 TO Liferaft |
| 2011-094 | 20/10/2011 | Towing Test for LR97R 35 Person Type 12 TO Liferaft |

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| | | |
|---|---|---|
| 2009-065 | 04/03/2011 | Mooring Out Test of RFD Surviva MkIV 16 TO with an alternative adhesive (Boistik 6530) |
| 2011-063 | 20/11/2011 | Mooring Out Test of LR97 150 Person SR Type 6 Liferaft |
| DM-QTD 2025-074 | 25/08/1989 | Liferaft Painter System Test LR97SR 35 Person TO Liferaft |
| DM-QTD 2020-093 Rev 1 | 15-13/06/2020 | Liferaft Painter System used for Liferafts carrying 9 to 25 Persons with use RFD1050 Material (supporting report 2008-009) |
| 2008-009 | 29/07/2008 | Painter System Test of RFD SURVIVA MKIV 6 to 25 Person Liferaft |
| 2011-068 | 01/11/2011 | Loading and Seating Test for LR97SR 25 Person TO & DL Liferaft (accepted) |
| DM-QTD 2025-075 | 26/03/1997 | Loading and Seating Test for LR97SR 50 Person TO Liferaft |
| DM-QTD 2026-002 | - | Loading/Seating Calculations of the required/existing air volume for LR97 SR 50 Person TO Liferaft |
| DM-QTD 2026-003 | - | Loading/Seating Calculations of the required/existing bottom surface for LR 97 SR 50 Person TO Liferaft |
| DM-QTD 2026-004 | 20/10/2017 | Loading/Seating Calculations of the required/existing air volume for LR97 & LR97 SR 102 Person TO Liferaft |
| DM-QTD 2026-037 Rev 1 | 21/05/2026 | LR97SR 50P & 102P Carrying Capacity Calculations, persons having an average mass of 82.5 kg (covering Load/Seating and Damage Tests) |
| 2008-027 | 14/08/2008 | Boarding Test of RFD SURVIVA mkIV 6 Person TO, 16 & 25 Person DL Liferafts |
| 2011-077 | 15/12/2011 | Boarding Test LR97SR 25 Person Type 46 Liferaft |
| 2011-084 | 14/12/2011 | Boarding Test LR97SR 35 Person Type 12 Liferaft |
| DM-QTD 2025-070 | 18/11/2002 | Closing Arrangement Test (Boxing glove Test) LR97SR 50 Person Liferaft |
| 2011-081 | 15/12/2011 | Stability Test for LR97SR 25 Person Type 46 Liferaft |
| DM-QTD 2025-092 | 18/11/2002 | Stability Test for LR97SR 100 Person TO Liferaft |
| 2011-088 | 15/12/2011 | Manoeuvrability Test for LR97 SR 25 Person Type 46 TO & DL Liferaft |
| 2011-089 | 15/12/2011 | Manoeuvrability Test for LR97 SR 102 Person Type 13 TO Liferaft |
| DM-QTD 2025-076 | 17/02/1998 | Swamp Test for LR97L 50 Person Liferaft |
| DM-QTD 2025-070 | 18/11/2002 | Canopy Closure Test for LR97L 25 Person Liferaft |
| DM-QTD 2025-070 | 31/05/2001 | Canopy Closure Test for LR97LSR 35 Person Liferaft |
| DM-QTD 2025-070 | 18/11/2002 | Buoyancy of float-free Liferafts Test for LR97LSR 35 Person Liferaft |
| 2011-067 | 24/11/2011 | Damage Test for LR97SRL 25 Person Liferaft (Acceptance with DM-QTD 2026-037 Rev 1) |
| DM-QTD 2025-081 | 13/05/1998 | Righting Test (conventional liferaft) for LR97SR 50 Person TO Liferaft (Self-right in ≤ 1 min) |
| TR 2017-037 | 29/03/2017 | Inflation Cold Test for SRL 25 Person DL Liferaft, Leafield GIST System |
| 2007-003 | 15/05/2007 | Inflation Ambient Test for DSB 35 Person DL SRL ENDURA Liferaft, Thanner DK94 Inflation System. |
| DM-QTD 2025-070 | 18/11/2002 | Inflation Cold Test for LR97SR 35 Person Liferaft, Thanner Inflation System |
| DM-QTD 2025-070 | 18/11/2002 | Inflation Hot Test for LR97SR 35 Person Liferaft, Thanner Inflation System |
| DM-QTD 2025-070 | 18/11/2002 | Pressure Test for LR97SR 35 Person Liferaft |
| DM-QTD 2025-070 | 18/11/2002 | Detailed Inspection for LR97SR 35 Person Liferaft |
| DM-QTD 2025-070 | 18/11/2002 | DL Lifting components strength test for LR97SRL 25 & 35 Person Liferaft |
| 2011-064 | 21/12/2011 | DL Lifting components strength test for LR97SRL 35 Person Liferaft |
| 2011-082 | 14/12/2011 | DL Impact test for LR97 SR 35 Person Liferaft |
| 2011-083 | 15/12/2011 | DL Drop for LR97 SR 35 Person Liferaft |
| 2011-084 | 14/12/2011 | Davit-launched liferaft boarding test for LR97 SR 35 Person Liferaft |
| TR 2017-040 | 13/03/2017 | Davit-launched inflatable liferafts – Strength test, LRSRL 25 Person Liferaft |
| 2011-085 | 14/12/2011 | Davit-launched inflatable liferafts – Strength test, LRSRL 35 Person Liferaft |
| 2011-086 | 15/12/2011 | DL Cold overload test for LR97SR 35 Person Liferaft |
| 2011-087 | 14/12/2011 | DL Lowering abrasion test for LR97SR 35 Person Liferaft |
| DM-QTD 2025-070 | 18/11/2002 | Self-righting test (self-righting liferafts only) for LR97LSR 35 Person Liferaft |
| DM-QTD 2025-086 | 13/05/1998 | Self-righting test (self-righting liferafts only) for LR97SR 50 Person Liferaft |

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| | | |
|---|---|---|
| DM-QTD 2025-070 | 18/11/2002 | Submergence test (self-righting liferafts only) for LR97LSR 35 Person Liferaft with SOLAS B Pack |
| DM-QTD 2025-070 | 18/11/2002 | Wind Velocity Test for LR97LSR 35 Person Liferaft |
| DM-QTD 2025-070 | 18/11/2002 | Self-draining test (self-righting liferafts only) for LR 97 SR 35 Person Liferaft |
| 2008-063 | 01/09/2008 | Material Tests for the acceptance of RCN D60001 for (25, 35, 50 & 102 Person) TO & (25 & 35 Person) DL Liferafts with supporting report 0394, 48392 and reference to DCS 8866 use of RFD1070 |
| 2008-058 | 27/08/2008 | Material Tests for the acceptance of RFD 1004/2 for Outer Canopy Fabric for (25, 35, 50 & 102 Person) TO & (25 & 35 Person) DL Liferafts |
| 0394 | 18/12/2007 | Lin Report & Smithers Rapra, Fabric Material Test Report for Rubber coated Nylon 66 (RFD 1070) |
| 2008-045 | 14/08/2008 | Water Pocket Test of RFD SRUVIVA mkIV Liferafts (Accepted to provide detail to the design covering all sizes of approved Liferafts) |
| 2010-002 | 01/04/2010 | Over Pressure test of RFD Surviva MkIV 16 DL liferaft manufactured with structural fabric RFD 1070 & constructed with adhesive Bostik 6530 |
| 1342 | 01/04/2010 | Lin Report for Surface Receptiveness & Coating Adhesion manufactured with structural fabric RFD 1070 & constructed with adhesive Bostik 6530 |

## Technical Criteria

Liferaft specification when used with Thanner/Hydrauflax Inflation System/Leafield GIST

| Liferaft Capacity | SoLaS E-Pack | RFD Containers | | | | | Weight (Kg) | Drop Height (m) | Laden Weight (Kg) |
|---|---|---|---|---|---|---|---|---|---|
| | | Mk10 | Mk14 | Mk25 | Mk35 | Other | | | |
| 25DL | A | s9 | | | | Size 65 type 2 | 220 | 25 | 2282.5 |
| | B | s9 | | type 6 | | | 160 | 25 | 2222.5 |
| | A | | 17 | | | | 220 | 36 | 2282.5 |
| | B | | 17 | | | | 160 | 36 | 2222.5 |
| 35DL | A | | | | | GR35 | 350 | 25 | 3237.5 |
| | B | | | | type 4 | GR35 | 259 | 25 | 3146.5 |
| | A | | | | type 7 | GR35 | 350 | 25 | 3237.5 |
| | B | | | | type 8 | GR35 | 259 | 25 | 3146.5 |
| | A | | | | type 5 | GR35 | 350 | 36 | 3237.5 |

## Conditions of Certification

*Towing Forces:*

| | | |
|---|---|---|
| *Persons* | 25 | 35 |
| *@ 2 Knots* | 0.5 kN | 1.0 kN |
| *@ 3 Knots* | 0.9 kN | 2.0 kN |

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1. This liferaft has been approved assuming for each person an average mass of 82.5 kg.
2. The liferaft's container shall be marked as required by the LSA Code Regulation IV/4.2.6.3 with the marker's name or trademark, serial number, approving authority, number of persons it is approved to carry, SOLAS, the type of emergency pack enclosed, date when last serviced, length of painter, mass of packed liferaft, if greater than 185kg, maximum permitted height of stowage above waterline, and launching instructions. In addition, containers of liferafts carried on ro-ro passenger ships fitted with a radar transponder shall be clearly marked.
3. The liferaft shall be marked as required by the LSA Code Regulation IV/4.2.7.1 with the maker's name or trademark, serial number, date of manufacture, approving authority, name and place of last servicing station, and the number of persons it is approved to carry.
4. Provision shall be made for marking each liferaft as required by the LSA Code Regulation IV/4.2.7.2 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.
5. Instructions on how to survive complying with IMO Resolution A.657(16) are to be provided on board the liferaft.
6. The service of the liferaft is to be undertaken annually at a Lloyd's Register approved or Flag Administration approved Service station duly authorised and appointed by the manufacturer subject to the following conditions
7. Detailed instructions for use, maintenance and installation of the liferaft complying with SOLAS Regulations III/35 and 36 and also instructions for use and maintenance of the liferaft equipment shall be provided to each purchaser and be available on board. The liferaft and its equipment shall be kept in good working order at all times and checked at regular intervals according to the manufacturer's instructions and SOLAS requirements.
8. All equipment installed on board the liferaft is to be of an approved type as required by SOLAS and the LSA Code as applicable.
9. **Installation on board:** The on-board arrangements and installation of the liferaft, including launching of the liferaft on ice are not part of this Design Appraisal or Certificate. All such arrangements are to be to the satisfaction of the attending Surveyors.
10. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
11. 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.
12. 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.
13. 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.
14. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
15. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.

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16. The manufacturer shall keep a copy of the EC type-examination certificate, its annexes, and additions together with the technical documentation at the disposal of the national authorities for at least 10 years after the wheel mark has been affixed on the last product manufactured and in no case for a period shorter than the expected life of the marine equipment concerned.

17. Should a change of Place of Production from that provided at the application stage i.e., where the stages of manufacture/assembly/testing of this product take 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.

Marina Borglin
Assistant Specialist
Fire & Safety, Statutory Discipline Team
UK&I Technical Support Office, Marine & Offshore
**For and on behalf of Lloyd's Register Marine Deutschland**
**LRMD EC Distinguishing No. 2923**

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