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

Certificate No: LR26151041MB-02
Issue Date: 30/08/2026
Expiry Date: 19/04/2031

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/1.4 Lifejackets
Product Type	Lifejackets
Product Description	Twin chamber inflatable Lifejacket for adults
Specified Standard	SOLAS 74 Reg. III/4, SOLAS 74 Reg. X/3. SOLAS 74 Reg. III/7, SOLAS 74 Reg. III/22, SOLAS 74 Reg. III/34, IMO Res. MSC.36(63)- (1994 HSC Code) 8, IMO Res. MSC.48(66)- (LSA Code) I, IMO Res. MSC.48(66)- (LSA Code) II, IMO Res. MSC.97(73)- (2000 HSC Code) 8, IMO Res. MSC.481(102), IMO MSC/Circ.922, IMO MSC.1/Circ.1304, IMO MSC.1/Circ.1470, IMO MSC.1/Circ. 1628 Rev2. Resolution MSC 81 (70) Amended by Resolution MSC.200(80),

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

Bhaskar Gole

Lead Specialist - Lifesaving Appliances
For and on behalf of Lloyd’s Register Marine Deutschland GmbH (2923)

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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) and MSC.580(110) as applicable.
IMO Res MSC.481(102).

Row of the Regulation Item	Row 3 of 3 of Regulation (EU) 2025/1533
Trade Name	0799 - Seacrewsader 2010 and Crewfit Twin 2010

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 This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.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. LR26151041MB-02

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.

This Certificate Supersedes and is an Amendment of Certificate Number LR26151041MB-01.

Approval Documentation

Seacrewsader 2010 and Crewfit Twin 2010 Technical File, Issue 5, dated 13/02/2025.

Test Reports

SGS test report No: PPE 10786(1)/SM/07 for inflation chamber material, TPU 1001/P, dated 30/April/2007.

Component certification for UML pro elite sensor automatic inflator issued by Fleetwood Test House, dated 15/04/2021.

Component certification for Hammar automatic inflator issued by Fleetwood Test House, dated 02/11/2022.

Component certification for whistle issued by Fleetwood Test House, dated 20/10/2022.

Component testing of MK5 automatic inflator issued by Fleetwood Test House, report DAR/FTL/1124 dated 04/04/2007.

Component testing of MK5i automatic inflator issued by Fleetwood Test House, report BLS /FTL/2243a dated 25/02/2011.

Component testing of MK5 automatic inflator issued by Fleetwood Test House, report JH/FTL/3041 dated 06/02/2018.

FORCE Technology test report for stainless steel buckle, Report No 110-24383.c, dated 01/07/2010.

Test report No 107-38263-b, dated 04/08/2008 issued by FORCE Technology for buckle SS40.

Fleetwood test report no DAR/FTL/1182, dated 21st May 2008 for automatic inflation system MA1EC manufactured by CM Hammar.A.B.

Technical report No: SPC0181974/1005/11 issue 2, dated 23rd June 2010 for the fabric.

Technical report No: SPC0181599/1003, dated 12th March 2010 for the webbing.

Technical report No: SPC0179670/0943, dated 18th December 2009 for the thread.

EC Type Examination certificate for “290 Deck Safety Harness” issued by Fleetwood notified body.

Fleetwood test report no BLS/FTL/2219a, dated 6th September 2010 for Crewsaver 290 deck safety harness to EN ISO 12401:2009.

Fleetwood test report no RS/FTL/3308-1, dated 30th June 2022 for seacrewsader lifejackets to EN ISO 12402-2:2020 and EN ISO 12402-3:2020.

Fleetwood test report no RS/FTL/3308-2, dated 30th June 2022 for seacrewsader lifejackets to EN ISO 12402-2:2020, EN ISO 12402-3:2020 and MSC 81(70).

Fleetwood test report no RS/FTL/3308-B, dated 22nd March 2022 for seacrewsader lifejackets to EN ISO 12402-3:2020.

Fleetwood test report no RS/FTL/3286, dated 24th February 2021 for seacrewsader lifejackets to EN ISO 12402-3:2020, EN ISO 12402-2:2020 and EN ISO 12401:2009.

Fleetwood test report no JH/FTL/3308, dated 8th November 2021 for seacrewsader lifejackets with universal PLB attachment method to EN ISO 12402-2:2020.

Fleetwood test report no RS/FTL/3308A, dated 15th June 2021 for seacrewsader lifejackets to EN ISO 12402-2:2020.

Fleetwood test report no DB/FTL/3252, dated 7th September 2020 for seacrewsader lifejackets fitted with UML plastic manifold to EN ISO 12402-2:2006.

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Fleetwood test report no RS/FTL/3245e, dated 14th September 2020 and RS/FTL/3245g, dated 28th October 2020 for seacrewsader lifejackets fitted with cylinder retention system to EN ISO 12402-2:2010 and EN ISO 12402-3:2010.

Fleetwood test report no SLJ/FTL/2276, dated 14th October 2010 for seacrewsader and crewfit twin lifejacket safety harness and integrated cowtail/safety line to EN ISO 12401:2009.

Fleetwood test report no NW/FTL/2988, dated 16th June 2017 for seacrewsader and crewfit twin lifejacket with detachable back and crotch strap to EN ISO 12402:2006 and MSC 81(70).

Fleetwood test report no NW/FTL/3000, dated 20th September 2017 for seacrewsader and crewfit twin lifejacket with fire retardant cover to EN ISO 12402:2006 and MSC 81(70).

Test report No: 2008000970, Issue 1, dated 12/01/2009, on salt spray testing on lifeline hook.

Test report for Seacrewsader 2010 fitted with mobilarm and integrated elasticated cowtail safety line, report number BLS/FTL/2292, dated 26th November 2010, conducted at Fleetwood testing laboratory.

Technical report No: SPC0181029/0951, dated 19th January 2010 for the tubular webbing used on the elasticated cowtail.

Tri-Burst zipper function test, Fleetwood Test Laboratory test report number DK/FTL/2351a, dated21.10.2011.

Drop test for lifejacket fitted with Seamarshall PLB, Fleetwood Testing Laboratory test report number DK/FTL/2351, dated 13.10.2011.

Compatibility test for lifejacket fitted with Mcmurdo PLB, Fleetwood Testing Laboratory test report number DK/FTL/2611, dated 25.02.2014.

Compatibility test for lifejacket fitted with Ocean Signal M100 PLB, Fleetwood Testing Laboratory test report number DK/FTL/2907, dated 09.12.2016.

Compatibility test for lifejacket fitted with Ocean Signal MOB1 PLB, Fleetwood Testing Laboratory test report number DK/FTL/2949, dated 03.05.2018.

Compatibility test for lifejacket fitted with SMRT AU10 PLB, Fleetwood Testing Laboratory test report number DB/FTL/3147, dated 31.01.2019.

Compatibility test for lifejacket fitted UML Pro Sensor, Fleetwood Testing Laboratory test report number JH/FTL/268, dated 13.11.2014.

FORCE TECHNOLOGY test report no: 111-24339.a, dated 22-06-2011 for No 0534 Fast Donning Safety Buckles manufactured by Makefast.

Fleetwood Testing Laboratory test of the Seacrewsader 2010 seismic lifejacket with integrated cowtail to EN ISO 12401:2009 for deck safety harnesses and deck safety lines, test report BLS/FTL/2351, dated 18th July 2011.

PRUFBERICHT test report No 0910068-1, dated 05.02.2009.

SATRA Technology Centre test report No FWT0196151/1128/T-3, dated 10th November 2011 for the Fabric Riverseal 200HT.

SATRA Technology Centre test report No FWT0229040/1442, dated 7th November 2014 for the Fabric Black 300D Polyester.

Fleetwood test report No BSL/FTL/2426, dated 29th March 2012.

Fleetwood test report No BLS/FTL/2565, dated 21st October 2013.

Fleetwood Testing Laboratory test of the 01218 3D Seacrewsader twin chamber 275N inflatable lifejacket with UML pro sensor elite auto inflation mechanism with amended manifold position, test report DB/FTL/3147e, dated 26th July 2019.

Fleetwood Testing Laboratory test of the Seacrewsader twin chamber 275N inflatable lifejacket incorporating modified Velcro closure burst point , test report DB/FTL/3147a, issue 2 dated 11th February 2019.

Fleetwood Testing Laboratory test of the 01218 3D Seacrewsader twin chamber 275N inflatable lifejacket with seismic bladder, zipped viewing panels, test report NW/FTL/3147d, dated 25th June 2019.

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Salt spray test for CO2 cylinders , Test report No 18-09330-1 , issue 1 , dated 02/08/2018.

Salt spray test for buckle , Test report No 22-00922 , issue 1 , dated 24/02/2022.

Yellow Double PVC coated polyester testing to ISO 12402-7, test report FWT0244866/1615 , dated 23/05/2016.

Test of threads to ISO 12402-7, test report FWT0207179/1235/A/2 , dated 08/10/2012.

Webbing closure ISO 12402-7, test report 0910020 , dated 05/03/2009.

Fleetwood test for Zip, report No DAR/FTL/2052a, dated 3rd December 2008.

Fleetwood Testing Laboratory test of the Seacrewsader lifejacket with UML pro sensor elite auto inflation mechanism, test report DB/FTL/3141, dated 31st January 2019.

Component testing of SS 440 buckle, report 1210133 dated 08/03/2012.

Tensile testing of steel buckle, report GH/FTL/3450 dated 20/07/2023.

Fleetwood test report No BLS/FTL/2218 issue 2, dated 20th September 2023 for seacrewsader 2010 and crewfit twin 2010 inflatable lifejacket.

Fleetwood test report No JH/FTL/3308A-2, issue 2 dated 15th April 2026 for seacrewsader lifejackets to MSC 81(70) as amended by IMO resolution MSC.200(80), MSC.207(81), MSC.218(82), MSC.226(82), MSC.323(89), MSC.368(93), MSC.378(93).

Conditions of Certification

Approved Materials

Material	**Manufacturer**
Retroreflective tape	Orafol

Approved lights

Manufacturer	**Model**
Ideas Connected Ltd	CS-SL2, CS-SL3, CS-CL2
Daniamant	L6

Approved PLBs

Ocean Signal	Ocean Signal MOB1 RescueME
Orolia Ltd	Oralia S20 SmartFind
Marine Rescue Technologies Ltd (MRT)	Sea Marshal AU9
Marine Rescue Technologies Ltd (MRT)	Sea Marshal AU10

Product	**Inflation System**	**Variants**		**Inflation Chamber material**
		Front Closure	**Cover**	
0B01218 3D Seacrewsader 2010 with seismic bladder, Zipped inspection window and AU10 Personal Locator Beacon	1BPro Sensor Elite Automatic Inflator, UML	2BDeck Safety Harness version with stainless steel 3 bar buckle, Waist belt version with plastic buckle and Waist belt version with plastic buckle combined with Fall Arrest Harness	3BPolyester cover/removable, wipe clean cover/removable, Silver flame proof and fire retardant cover/removable.	4BTPU 1001/P 5BRiverseal 200-HT

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Product	Inflation System	Variants		Inflation Chamber material
		Front Closure	Cover	
6B01218 3D Seacrewsader 2010 with Zipped Inspection Window	7BPro Sensor Elite Automatic Inflator, UML	8BDeck Safety Harness version with stainless steel 3 bar buckle, Waist belt version with plastic buckle and Waist belt version with plastic buckle combined with Fall Arrest Harness	9BPolyester cover/removable, wipe clean cover/removable, Silver flame proof and fire retardant cover/removable.	10BTPU 1001/P 11BRiverseal 200-HT
Seacrewsader 2010	MK5, UML	Deck Safety Harness version with stainless steel 3 bar buckle, Waist belt version with plastic buckle and Waist belt version with plastic buckle combined with Fall Arrest Harness	Polyester cover/removable, wipe clean cover/removable, Silver flame proof and fire retardant cover/removable.	TPU 1001/P Riverseal 200-HT
Seacrewsader 2010 Seismic lifejacket.	MK5, UML	Deck Safety Harness version with survivor locating devices Mobilarm/ Sea Marshall and integrated elasticated cowtail safety line.	Polyester cover/removable, wipe clean cover/removable, Silver flame proof and fire retardant cover/removable.	TPU 1001/P Riverseal 200-HT
Crewfit Twin 2010	MA1EC, Hammar	Deck Safety Harness version with stainless steel 3 bar buckle, Waist belt version with plastic buckle and Waist belt version with plastic buckle combined with Fall Arrest Harness	Polyester cover/removable, wipe clean cover/removable, Silver flame proof and fire retardant cover/removable.	TPU 1001/P Riverseal 200-HT

1. The lifejacket is approved only for use by adults of a weight and height range of 43 Kg or more, 155 cm or more and up to 140 Kg with a chest girth up to 1750 mm.

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2. Instructions for use shall be provided with each lifejacket. As prescribed by SOLAS Regulation III/35 one or more additional copies shall be provided for inclusion in the vessel's Training Manual.

3. Each lifejacket shall also be clearly marked with the information required by LSA Code as amended by Regulation I/1.2.2.9 and II /2.2.1.2.

4. As prescribed by SOLAS Regulation III/36 and where applicable, lifejackets shall be maintained as per manufacturer's instructions.

5. An approved lifejacket light meeting the requirements of the LSA Code as amended by Regulation II/2.2.3 is to be fitted. The light is to be tested and meet the requirements of IMO Resolution MSC.81 (70), Part 1, 10.3 and 10.4 and is attachment have to be to the satisfaction of the attending Surveyors.

6. Each lifejacket shall be fitted with a whistle firmly secured by a lanyard as per LSA Code as amended by Regulation II/2.2.1.14.

7. Each lifejacket shall be provided with a releasable buoyant line or other means to secure it to a lifejacket worn by another person in the water as per LSA Code as amended by Regulation II/2.2.1.16.

8. Fall arrest harness version is be marked on the outside explaining the lifejacket is only for "Trained Persons Only".

9. Fall arrest harness version is not to be stored onboard ships/ floating structures with other lifejackets.

10. In accordance to SOLAS Chapter III Regulation 20.8, inflatable lifejackets are required 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.

11. Servicing is to be carried out at an LR approved or Flag Administration approved service station, which is competent to service the lifejacket having the proper facilities and trained personnel.

12. The storage of this equipment is not part of this Design Appraisal Document or Certificate. All such arrangements are to be to the satisfaction of the attending Surveyors on board.

13. 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.

14. 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.

15. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2, paragraph 2.1.1 (buoyancy test), paragraph 2.1.2 (batch inspection) and be recorded by the manufacturer in accordance with either the approved Production Quality Assurance System (Module D) or Product Quality Assurance System (Module E) or a Product Verification Process (Module F), as applicable. 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.

16. 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.

17. 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.

18. 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.

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19. Should a change of Place of Production from that stated below be required 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 Certificate will require to be updated for Approval to be maintained.

Places of Production

Winning Industrial Co. Ltd
No.10-101 Jin -Fu Road, Liao Bu,
DongGuan, Guang Dong P.R
China.

Suzhou Betacera Technology Co. Ltd
No 500 Guanquan West Road
Economic Development Zont
Wujiang City, Jiangsu Province,
PR China
215200



Bhaskar Gole
Lead Specialist-Lifesaving Appliances
Fire & Safety, Statutory Discipline Team
Lloyd's Register Marine and Offshore India LLP
For and on behalf of Lloyd's Register Marine Deutschland
LRMD EC Distinguishing No. 2923

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