Transport Canada
Safety and Security

Certificate No: LR23287334TC
Issue Date: 31/07/2023
Expiry Date: 30/07/2028

Certificate Of Type Approval Issued On Behalf Of Transport of Canada

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 when authorised by Transport Canada to issue the relevant certificates, licences, permits etc.

Manufacturer	**Survitec Group Ltd.**
Address	Kingsway, Dunmurry, Belfast, Northern Ireland, BT17 9AF, United Kingdom
Type	Liferafts
Description	4, 6, 8 person Throw Over Coastal Liferaft
Trade Name	Coastal Mk4-4,6,8 Persons
Specified Standard	IMO Resolution MSC.81(70), as amended. TP 14475E

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 Design Appraisal Document and its supplementary Type Approval Terms and Conditions form 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.

Felipe Lisperguer

Felipe Lisperguer

Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

DESIGN APPRAISAL DOCUMENT

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23287334TC

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 of Certificate Number LRTC 0000220

APPROVAL DOCUMENTATION

Drawing No.	Revision	Description	Date
D51326	12	General Arrangement RFD Mk IV, 4 TO	12/02/2016
D50858	15	General Arrangement RFD Mk IV, 8 TO	12/02/2016
D50857	17	General Arrangement RFD Mk IV, 6 TO	16/04/2018
D50165s05	1	Leaflet, Immediate Action (French)	27/02/2008
D50798	1	MK12 Container Data	23/03/2016
D52285	1	Valise Assembly, MK4 IBA and Coastal	30/05/2016
17938	19	GRP Container Mk10	06/02/2017

Configuration: RFD MKIV 4,6,8, persons liferafts consist of a standard “Surviva MK IV” liferaft fitted with a Leafield inflation system, comprising approved pressure relief valve, A10, B 10, inlet valve, operating head, and cylinders. The Liferaft is to be stowed in MK10, MK 12 containers, Size 2,3 or 4 valise.

TEST REPORTS

Report No.	Date	Title or Description
84/08	21/10/08	Hot inflation test of RFD Surviva MkIV Liferaft
82/08	15/10/08	Cold inflation test of RFD Surviva MkIV Liferafts
93/08	19/11/08	Towing Test of RFD Surviva Liferafts
94/08	19/11/08	Detailed Inspection and Weight Test of RFD Surviva MkIV Liferafts
79/2008	21/10/08	Loading and seating test of RFD Surviva MKIV Liferafts
77/2008	13/10/08	Stability test of RFD Surviva MKIV Liferafts
75/2008	13/10/08	Boarding test of RFD Surviva MKIV Liferafts
76/2008	13/08/08	Closing arrangement test of RFD Surviva MKIV Liferafts
73/2008	13/10/08	Manoeuvrability test of RFD Surviva MKIV Liferafts
74/2008	13/10/08	Swamp Test of RFD Surviva MKIV Liferafts
78/2008	13/10/08	Damage test of RFD Surviva MKIV Liferafts
71/2008	13/10/08	Righting test of RFD Surviva MKIV Liferafts
80/2008	31/10/08	Ambient Inflation and painter pull test of RFD Surviva MKIV Liferafts
72/2008	13/10/08	Inherent Buoyancy test of RFD Surviva MKIV Liferafts
48/2008	15/08/08	3 times pressure test of Surviva MKIV Liferafts

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

DESIGN APPRAISAL DOCUMENT

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23287334TC

Report No.	Date	Title or Description
49/04- Part1	29/10/04	18 m drop test of the RFD Surviva Mk3 4 person Liferaft for container types MK10 and MK18
63/2008	01/09/08	Material properties of RCN D60001: Compliance with MSC 81(70)
57/2008	27/08/08	Material properties of NK205/2: Compliance with MSC 81(70)
58/2008	27/08/08	Material properties of RFD 1044/2: Compliance with MSC 81(70)
59/2008	27/08/08	Material properties of TTK-PS.3: Compliance with MSC 81(70)
42/2008	21/08/08	Jump test of RFD of Surviva MKIV Liferafts
46/2008	14/08/08	Mooring out test of Surviva MKIV Liferafts
44/2008	14/08/08	Canopy closure test of Surviva MKIV Liferafts
40/2008	10/07/08	Wind velocity test of Surviva MKIV Liferafts
60/2008	27/08/08	Seam strength test of Surviva MKIV Liferafts
12/08	29/07/08	Lifeline Strength Test of RFD Surviva MKIV Liferafts
09/08	29/07/08	Painter System Test of RFD Surviva MKIV Liferafts
64/2008	01/09/08	Visual Inspection of RFD Surviva MKIV Liferafts
43/2008	12/08/08	Seating Arrangement Test of RFD Surviva MKIV Liferafts
01/13	29/11/12	Drop test report as witnessed by a LR surveyor
02/13	07/11/12	Cold Inflation test report as witnessed by a LR surveyor
03/13	07/11/12	Cold Inflation test report as witnessed by a LR surveyor
93/10	03/03/11	Towing Test of MK IV Liferafts
-	19/11/08	Weight Test
25/SMc/MA	09/04/92	Drop test on RFD Survival and Seasava Plus Liferafts

CONDITIONS OF CERTIFICATION

1. Liferaft specifications:

No of Persons	Type/Container Size	Stowed Weight (kg)	Stowed Height (m)	Towing Forces
4	MK10, Size 3	48	18	0.58kn@ 2 kts 1.03kn@ 3 kts
	MK12, Size 2	36	6	
	Valise size 3	30.5	6	
6	MK10, Size 3	57	18	0.72KN @ 2 KTS 1.23 KN@3 KTS
	MK12, Size 3	45	6	
	Valise Size 3 A	38	6	
8	MK10, Size 3	53	18	0.65 KN @ 2 KTS 1.50KN @ 3KTS
	MK12, Size 3	47	6	
	Valise, Size 4	41	6	

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

DESIGN APPRAISAL DOCUMENT

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23287334TC

2. The Liferaft container shall be marked with the makers name or trademark, serial number, approving authority, number of persons it is approved to carry, the type of emergency pack enclosed, date when last serviced, length or painter, maximum stowage height and launching instructions. The Liferaft container shall not be marked as SOLAS and all references to “LIFERAFT” are to be replaced with “COASTAL LIFERAFT”.

3. The Liferaft shall be marked with the makers 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. All references to “LIFERAFT” are to be replaced with “COASTAL LIFERAFT”.

4. Each Liferaft should be fitted with equipment complying with paragraph 4.8.8.1 of Canadian Life Saving Appliance Standard, TP 14475E. The copy of the life-saving signals is to be printed on a waterproof card or placed in a waterproof container.

5. The cylinders used in the inflation system shall be in accordance with the requirements of paragraph 5.10 of the Transportation of Dangerous Goods Regulations and be manufactured and used in accordance with the standards CSA-B339 and CSA-B340 respectively.

6. Every coastal Liferaft shall have affixed to it a retroreflective medium that meets the recommendation on the use and fittings of retroreflective materials as given in IMO Resolution MSC.481(102), annex 1.

7. **Installation on board:** The onboard arrangements and installation of the Liferaft are not part of this design appraisal and shall be to the satisfaction of the attending Surveyor.

8. 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.

9. 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.

10. 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 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.

11. All instructions or markings that accompany life-saving appliances or are printed directly on the appliances must be in both English & French, as per Canadian procedures for approval of life saving and fire safety systems, equipment, and products document no. TP 14612E (02/2019) paragraph 2.2.1.3. However independent signage can be accepted in lieu of the instructions or marking required in paragraph 2.2.1.3 if it is in both English & French, highly visible (size, colour, posting location), water and weatherproof and posted at each muster station, and where the appliance is stored.

12. Should a change of Place of Production from that stated on the application form be required, 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.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

DESIGN APPRAISAL DOCUMENT

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR23287334TC

PLACE OF PRODUCTION

Survitec Group Ltd
Kingsway, Dunmurry
Belfast BT17 9AF
Northern Ireland
United Kingdom



Felipe Lisperguer
Senior Specialist
Life Saving Appliances,
Statutory Discipline Team,
UK&I Technical Support Office, Marine & Offshore

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)

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.