

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

Manufacturer	Survitec Group Ltd
Address	Kingsway, Dunmurry, Belfast, BT17 9AF, Northern Ireland
Type	Liferafts
Description	45 persons capacity throw/roll over inflatable rescue platform – Type: "RFD Ferryman 45" (also known as "Beaufort 45, DSB LR14R, Crewsaver, Elliot, Survitec, Survitec Zodiac, SSPI, RFD Toyo")
Trade Name	RFD Ferryman 45
Specified Standard	IMO Res. MSC.36 (63) – (1994 HSC Code) Annex 10 IMO Res. MSC.97 (73) – (2000 HSC Code) Annex 11 ISO 15738:2002 TP14475E & TP7321E

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.

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

Lijo Thomas

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

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ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2003341TC

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 certificate is the renewal of LRTC 0000066-M1

EXAMINED DOCUMENTATION

<u>Drawing No.</u>	<u>Rev.</u>	<u>Date</u>	<u>Title</u>
DS 52491	0	18/12/2014	Schedule for 30/37/45P O.R.L.
D 52491	0	18/12/2014	Main Assembly for 30/37/45P O.R.L.
DCS 0778	-	03/02/2015	Introduction 45P O.R.L.

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.

<u>Report No.</u>	<u>Date</u>	<u>Report No.</u>	<u>Date</u>
6/15	23 January 2015	4/14	9 January 2014
57/14	8 October 2014	28/14	31 January 2014
59/14	23 January 2015	30/14	28 April 2014
54/14	8 October 2014	31/14	28 April 2014
56/14	8 October 2014	36/14	27 May 2014
55/14	8 October 2014	37/14	27 May 2014
52/14	16 October 2014	47/14	19 August 2014
3/15	23 January 2015	33/11	9 September 2011

CONDITIONS OF CERTIFICATION

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

<u>Container type/ size</u>	<u>Stowage Height</u>	<u>Weight kg</u>	<u>Emergency Pack</u>	<u>Towing Force</u>
Mk 10 Size 6	18 m	121	HSC	@2kts: 1.15 kN
Mk 16 Size 3	10 m	124	HSC	@3kts: 5.23 kN

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2. The liferaft has been approved assuming for each person an average mass of 82.5 kg
3. The liferaft has been appraised against also the standards mentioned under LSA Code as amended by MSC.218 (82), MSC.293 (87), and IMO Resolution MSC.81 (70) Part 1 as amended by MSC.226 (82), MSC.295 (87) and MSC.323 (89)
4. The container for open reversible liferafts is to be marked with the Maker's name & trade mark, serial number, approving authority, number of persons it is approved to carry, the words "NON- SOLAS reversible", the type of emergency pack enclosed, date when last serviced, length of painter, maximum stowage height and launching instructions
5. All instructions or marking that accompany life-saving appliance or are printed directly on the appliances must be in both English and French, as per Canadian procedures for approval of life-saving appliances and fire safety system, equipment and procedures TP 14612E (05/2011) paragraph 2.2.1.3. However independent signage can be accepted in lieu of the instructions or marking required in 2.2.1.3 if it is both English and French, highly visible (size, colour, posting location), water and weather proof and posted at each muster station and where the appliance is stored
6. The open reversible liferaft is to be marked with the Maker's name & trade mark, serial number, date of manufacture, approving authority, name & place of last servicing station, the number of persons it is approved to carry
7. 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
8. 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
9. 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
10. **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
11. 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
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. 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

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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).