

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life Saving Appliance requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC and 2002/84/EC subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer Survitec Group Ltd.

Address Beaufort Road
Birkenhead
Merseyside, CH41 1HQ
United Kingdom (UK)

Annex A1 Item A.1/1.12 - INFLATABLE LIFE-RAFTS

Product Type LIFERAFTS

Product Description 16 persons capacity throw or roll-overboard canopied inflatable liferafts.
Type: "RFD Surviva 16 MKIV" (also known as Beaufort Seafarer 16 and DSB LR07 16)

Specified Standard SOLAS 74, as amended, Regulations III/4,20.8.3, 34 and X/3
IMO Resolution MSC.48(66), LSA Code, Regulations I/1.2, IV/4.1 and 4.2
IMO Resolution MSC.97(73), 2000 HSC Code, Regulation 8.1
IMO MSC/Circular 811
IMO Resolution MSC.81(70), Part 1

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

Date of issue 3 December 2007 Expiry date 2 December 2012

Certificate No. MED 0750271

Signed



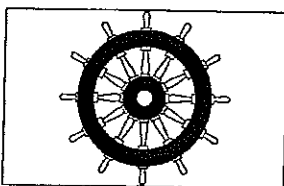
Sheet No 1 of 4

Name

Tio Devaney
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038

Note:

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 the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.
yy Last two digits of year mark affixed.

This certificate is issued under the authority of the MCA.

"Lloyd's Register Verification is the business name of Lloyd's Register Verification Limited, a member of the Lloyd's Register Group.

Registration number 4929226.

Registered office 71 Fenchurch Street, London EC3M 4BS, England

0038/yy

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group 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 Group 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

Date
3 December 2007

Quote this reference on all future communications
LDSS/PAS/LSA/TCD/1-21498833

ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 0750271

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.

EXAMINED DOCUMENTATION

- Liferaft Approval data issued by Lloyd's Register:
- LR Certificate No.: SAS S070124
- EC Module B Certificate no.: MED 0750207

<u>Dwg. No.</u>	<u>Rev. No.</u>	<u>Date</u>	<u>Drawing Title</u>
D50861	2	07.08.07	Surviva Mk4 16-Persons Liferaft
21639-01/02/03	2	25.06.07	General Arrangement (3 drawings)

TEST REPORTS

- DSB Test Report for LR 97 8 person date completed 17th October 1997.
- Series of tests completed for DSB LR 97 Liferrafts carried out between 5th February 1997 and 6th June 1997.
- Hot Inflation Test of RFD Endura Mk4 25 Person davit launched and 6 person throw over liferaft completed with Leafield (GIST), report no. 24/07, dated 07.09.07.
- Cold Inflation Test Endura (using Surviva Mk4 hull), completed with Leafield (GIST), report no. 25/07, dated 11.09.07.
- DSB LR97, 25 persons Righting Test, report No. 027/07 completed on 09.08.07.

TECHNICAL CRITERIA

<u>SOLAS Pack</u>	<u>Container Type/ Size</u>		<u>Maximum Stowage Ht</u>		<u>Stowed Wt:</u>	<u>Laden Wt:</u>
	<u>RFD</u>	<u>DSB</u>	<u>RFD</u>	<u>DSB</u>		
A	Mk10/ 7		36m		137kg	1337 kg
B	Mk10/ 6		36m		103 kg	1303kg
A	Mk14/14		36m		144kg	1344kg
B	Mk14/14		36m		101kg	1301kg
A	Mk14/17		36m		139kg	1339kg
A		16/20 F		36m	149kg	1349kg
B		10/12F		36m	114kg	1314kg

Towing Forces: @ 3 kts - 1,8kN

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CONDITIONS OF CERTIFICATION

1. The liferaft's container shall be marked as required by the LSA Code Regulation IV/4.2.6.3 with the maker's name or trade mark, 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, maximum stowage height and launching instructions. In addition, containers of liferafts carried on ro-ro passenger ships fitted with a radar transponder shall be clearly marked.
2. The liferaft shall be marked as required by the LSA Code Regulation IV/4.2.7.1 with the maker's name or trade mark, serial number, date of manufacture, approving authority, name and place of last servicing station, and the number of persons it is approved to carry.
3. 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.
4. 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 authorised and appointed by the manufacturer, the supplied Log Card being completed and the container label then being indelibly updated to display the date of the next annual inspection.
5. 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.
6. Production items are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or Product Verification (Module F) of the Marine Equipment Directive.
7. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81(70), Part 2 and be recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or witnessed by the Notified Body (LRV) as required by the Product Verification (Module F) of the Marine Equipment Directive. 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.
8. Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity".
9. Each liferaft or group of liferafts shall be stowed with a float-free arrangement complying with the LSA Code Regulation IV/4.1.6, as required by SOLAS Regulation III/13.4.2. The weak link and hydrostatic release unit used in the float-free arrangement are however not within the scope of the subject liferaft's manufacturer supply and are therefore not covered by this appraisal.

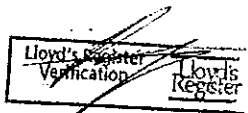
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10. When fitted, the hydrostatic release unit used in the float-free arrangements shall be such that each part connected to the painter system has a strength of not less than 10 kN.
11. A fully detailed Operation and Maintenance Manual complying with SOLAS Regulations III/35 and 36 is to be provided with each liferaft.
12. Retro-reflective materials, position-indicating lights and the equipment carried on board the liferaft as required by LSA Code Regulations IV/4.1.5 and 4.2.9 are to be approved by the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration.
13. The on board arrangements and installation of the liferaft are not part of this design appraisal and shall be to the satisfaction of the attending Surveyor.
14. 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.

PLACE OF PRODUCTION

RFD Beaufort Ltd. Kingsway Dunmurry Belfast, BT17 9AF United Kingdom (UK)	RFD Beaufort Ltd Beaufort Road Berkenhead Merseyside, CH41 1HQ United Kingdom (UK)	RFD Beaufort Inc. 1420 Wolf Creek Trail Sharon Centre 44272-0359 Ohio United States of America
Eurovinil SPA Via Genova 5810 Grosseto Italy	DSB Deutsche Schlaunchboot GmbH & Co. KG Angerweg 5 D-37623 Eschershausen Germany	



Tio Devaney
 Senior Surveyor
 For and on behalf of Lloyd's Register Verification