

## 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, 2002/84/EC and 2008/67/EC subject to any conditions in the Design Appraisal Document attached hereto.

<b>Manufacturer</b>	Survitec Group Ltd.
<b>Address</b>	Beaufort Road Birkenhead Merseyside, CH41 1HQ United Kingdom (UK)
<b>Annex A1 Item</b>	A.1/1.12 - INFLATABLE LIFE-RAFTS
<b>Product Type</b>	LIFERAFTS
<b>Product Description</b>	6 persons capacity throw or roll-overboard canopied inflatable liferafts. Type: "RFD Surviva 6 MKIV" (also known as Beaufort Seafarer 6 and DSB LR07 6)
<b>Specified Standard</b>	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 as amended to date.

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 9 February 2009 Expiry date 2 December 2012

Certificate No. MED 0750276/M2

Signed



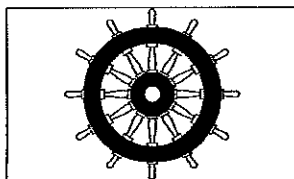
Sheet No 1 of 4

Name

P. Galbraith  
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.



0038/yy

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

"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."

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Issue number 1

**DESIGN APPRAISAL DOCUMENT**

Date 9 February 2009	Quote this reference on all future communications LDSS/PAS/LSA/KG/PG
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**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 0750276/M2**

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 S070120
- EC Module B Certificate no.: MED 0750203

Dwg. No.	Rev. No.	Date	Drawing Title
D50857	2	07.08.07	Surviva MK4 6-Persons Liferaft
20638-01/02	2	17-23.06.07	General Arrangement(2 drawings)
15-03.45	F	08.07.05	Container size 4 type 4 and 5 with cradle lashing strap and hydrostatic release unit.
DCS 8920	-	08.09.08	RFD Surviva MkIV range Marine Liferrafts: USCG Compliant

- USCG Approval Number: 160.151/121/3, Valid Until 08 September 2013
- USCG letter 16714/160.151/121-131, Reference Design Change Approvals dated 08 September 2008.

**TEST REPORTS**

- DSB Test Report for LR 97 6 person date completed 17<sup>th</sup> October 1997.
- Series of tests completed for DSB LR 97 Liferrafts carried out between 5<sup>th</sup> February 1997 and 6<sup>th</sup> June 1997.
- DSB LR97, 25 persons Righting Test, report No. 027/07 completed on 09.08.07.
- DSB LR 97, 6 Person Liferaft drop test, completed on 9<sup>th</sup> December 1998, witnessed by surveyor acceptable to Lloyds Register.

**Liferrafts Fitted with TPED Compliant Cylinders**

- 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.

**Qualifying Test for Leafield GIST Inflation System**

Liferrafts fitted with US DOT Compliant Cylinders  
DCS 8920

Report No.	Date	Description
07/08	01.08.08	Hot Inflation (Leafield GIST)
02/08	14.04.08	Cold Inflation (Leafield GIST)
14/08	14.07.08	36m Drop Test (Leafield GIST)
39/08	04.08.08	46m Drop Test (Leafield GIST)
06/08	23.04.08	Ambient Inflation / Painter Pull Force (Leafield GIST)

**"Qualifying Tests for Thanner Compact Inflation System" and "Liferrafts fitted with TPED Compliant Cylinders"**

16/08	09.06.08	36m Drop test (c/w Thanner Mk6 Inlet Valve & Thanner DK99 Short Operating Head)
18/08	04.06.08	Cold Inflation (c/w Thanner Mk6 Inlet Valve & Thanner DK99 Short Operating Head)
19/08	05.06.08	Hot Inflation (c/w Thanner Mk6 Inlet Valve & Thanner DK99 Short Operating Head)



# Lloyd's Register Verification Limited

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## DESIGN APPRAISAL DOCUMENT

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### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 0750276/M2

#### TECHNICAL CRITERIA

SOLAS Pack	Container Type/ Size		Maximum Stowage Ht		Stowed Wt:	Laden Wt:
	RFD	DSB	RFD	DSB		
A	MK10/ 4		36m		76 kg	526 kg
B	MK10/ 3		36m		57 kg	507kg
A	MK14/12		18m		76kg	526kg
B	MK14/12		18m		57kg	507kg
A	MK18/3		18m		76kg	526kg
B	MK18/1		18m		57kg	507kg
A		6/8 F		36m	87kg	537kg
B		4N		36m	63kg	513kg
B		Size 4 Type 5		8m	75kg	525kg

Towing Forces: @ 3 kts - 1,5kN

#### CONDITIONS OF CERTIFICATION

- Lloyd's Register's acceptance for the MkIV range of liferafts to be fitted with US DOT approved cylinders is subjected to USCG Approval Certification Number 160.151/121/3 remaining valid.
- 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.
- 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 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.
- 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.
- 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.
- 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.
- 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.
- Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity".

**DESIGN APPRAISAL DOCUMENT**

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**ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No.MED 0750276/M2**

9. A fully detailed Operation and Maintenance Manual complying with SOLAS Regulations III/35 and 36 is to be provided with each liferaft.
10. 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.
11. 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.
12. 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**

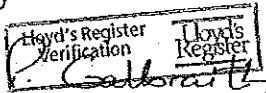
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Senior Surveyor  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038