Marine & Offshore

Certificate number: 47228/B0 BV
File number: LSA 1626/79
Product code: 6022H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

SURVITEC GROUP LIMITED

DUNMURRY - UNITED KINGDOM

for the type of product

INFLATABLE LIFERAFT

SURVITECZODIAC CCG 100 TO SR

Requirements:
SOLAS 74 Convention as amended,
Reg. III/4,X/3,III/26 & III/34
IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89), MSC.368(93), MSC.425(98), MSC.459(101) and MSC.485(103)
IMO Res. MSC.36(63)8 - IMO Res. MSC.97(73)8
IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89), MSC.378(93), MSC.427(98), MSC.472(101) and MSC.488(103)
IMO MSC/Circ.809 including Add.1, IMO MSC/Circ.811 & IMO MSC.1/Circ.1630
IMO MSC/Circ.1328

Transport Canada Requirements:
Transport Canada Life Saving Equipment Regulations, TP14475 and TP14612

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 30 Dec 2026

For Bureau Veritas Marine & Offshore,
At BV LONDON, on 30 Dec 2021,
Spencer Yule

This certificate is recognized by Transport Canada

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

Trademark	SURVITEC, CREWSAVER, ELLIOT, DSB, SURVITECZODIAC, RFD
Type	100 man throw -overboard self righting with a SOLAS A pack or SOLAS B pack

Overall dimensions of the inflated liferaft (mm)			**Working pressure (mb)**
Length	**Width**	**Height**	
10269	5535	3300	162

As indicated in the technical documentation submitted by the Applicant.

100 TO V SR liferafts may be used as an associted inflatale liferaft of the MES SIS. In such a case, liferafts shall be equipped with either an "end bowsing lines arrangement (EBL)" or a "central bowsing lines arrangement (CBL)".

2. DOCUMENTS AND DRAWINGS:

- Drawings and specifications:

Number	Title	Issue	Date
CHXBE 352TC	SURVITECZODIAC CCG100 MEN TO SR V pack A & B	D	10/12/2021
---	BRANDS FILE	---	29/05/2013

- Material and components:

Number	Title	Issue	Date
D.I.F 02	Suppliers file for liferafts COASTAL-TO-TOSR-DL-DLSR-ORIL	W	10/09/2021
D.I.F.01	Suppliers file MES SIS	K	16/06/2021

- Canadian File :

Number	Title	Issue	Date
D.I.F 02 annexe	Suppliers file CCG LIFERAFT SPECIFIC ITEMS	L	18/11/2021
D.I.F. 01	Suppliers file CCG SIS SPECIFIC ITEMS	A	16/06/2021

- Manual(s) for installation use and maintenance.

No departure from these documents is permitted without the prior consent of the Society.

3. TEST REPORTS:

LIFERAFT TYPE TESTS

Number	Title	Issue	Date
---	Tests performed on the Liferaft	G	10/12/2021
10054/C14	Markings on the Liferaft Label	---	17/07/2014

TOWING FORCE

	With the sea anchor deployed	Without the sea anchor deployed
Towed at 2 knots	265 daN	220 daN
Towed at 3 knots	518 daN	433 daN

TESTS ACCORDING TO THE RECOMMENDATIONS OF THE GUIDELINES MSC.1/CIRC.1328

Number	Title	Issue	Date
---	Tableau récapitulatif des essais EPS (EPS Tests Summury)	---	28/05/2013

4. APPLICATION / LIMITATION:

- As per requirements stated on front page of this certificate.
- Maximum capacity: 100 persons.
- The maintenance of the liferaft shall be carried out according to IMO Resolution A.761(18) as amended and with instructions stated in the Manual(s) for installation use and maintenance.

Maximum stowage height (m)	Container	Pack	Weight (kg)
20	Cylindrical container N° 29	A	560
	Cylindrical container N° 27	A	546
	Cylindrical container N° 26	B	430

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - Liferafts are to be supplied by **Survitec** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **Survitec** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

The manufacturer shall institute a quality control procedure to ensure that the inflatable liferaft are produced to the same standard as the approved prototype and shall keep records of any production tests carried out in accordance with instructions given in IMO Resolution MSC.81 (70) Part 2.

Each equipment, or batch of equipment, is to be supplied with its Manual(s) for Installation, use & maintenance and instructions for servicing stations for frequency and tests to be carried out according to IMO Resolution A.761(18).

The servicing stations must be approved by a Recognized Organisation of Transport Canada and must be recognized by the manufacturer according to IMO Resolution A.761(18), for their competences to service and repack such life-rafts.

6. MARKING OF PRODUCT:

Instructions, Diagrams, Markings illustrating the use of the Liferafts shall be printed indelibly (to be both in English and in French)

Markings on container	Markings on inflatable liferaft
Maker's name or trade mark.	
Serial Number	
Name of approving authority	
BV type approval certificate number	
Number of persons it is permitted to carry	Number of persons it is permitted to accommodate over each entrance, in characters not less than 100 mm in height of a colour contrasting with that of the liferaft.
Date when last serviced	Name and place of servicing station where it was last serviced
Type of emergency pack enclosed	Date of manufacture (month and year)
Length of painter	
Maximum permitted stowage height above waterline	
Launching instructions	
SOLAS	

Provision shall be made for marking each liferaft with the name and port of registry of the ship to which it is to be fitted, in such a form that the ship identification can be changed at any time without opening the container.

In addition, liferafts subject to extended service intervals pursuant to SOLAS regulation III/20.8.3 should be marked to indicate that they have been approved and certified for extended service intervals in accordance with the guidelines MSC.1/Circ.1328.

7. OTHERS:

It is **Survitec**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

This type of liferaft may be subject to extended service intervals on Canadian non-Convention vessels considering that liferafts are:

- serviced at an approved servicing station at intervals not exceeding 30 months for the first 10 years of their service lives, and thereafter at the frequency required by SOLAS regulation III/20.8.1.1.

- inspected on board by inspection personnel in accordance with the provisions of the MSC.1/Circ.1328 and the instructions of the manufacturer at intervals not exceeding 12 months from the last service or onboard inspection and for the first 10 years of their service life.

This certificate supersedes the previous Type Approval Certificate N° 47228/A1 BV issued on 22/01/2018 by the Society

***** END OF CERTIFICATE *****