Maritime & Coastguard Agency
UK Approved Body Authorised by the MCA

Certificate number: 74006/A0 UK
File number: LSA 1626/21
Item number: UK/1.39
This certificate is not valid when presented without the full attached schedule composed of 7 sections

Approved Body 8517 - UNITED KINGDOM MARINE EQUIPMENT APPROVAL

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

This is to certify that Bureau Veritas SA UK Branch Office did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.

This certificate is issued to:

SURVITEC GROUP LIMITED

DUNMURRY - UNITED KINGDOM

for the type of product

OPEN REVERSIBLE LIFERAFTS

100 man Open Reversible Inflatable Liferaft - HSC pack.
Trademarks: SURVITEC, ENDURA, CREWSAVER, ELLIOT, DSB, SURVITECZODIAC, RFD, SSP, BRUDE, RFD TOYO

Requirements:
SOLAS 74 Convention as amended, Regulations III/4, X/3
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) I
IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8, Annex 10
IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8, Annex 11
IMO MSC/Circ.1630 and IMO MSC/Circ.1328

The attached (schedule of approval) forms part of this certificate.
This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

This certificate will expire on: 12 Dec 2027

Issued by Bureau Veritas SA UK Branch Office

(Approved Body 8517)
At BV LONDON, on 12 Dec 2022,
Spencer Yule

This certificate was created electronically and is valid without signature

BUREAU VERITAS MARINE & OFFSHORE INTERNATIONAL REGISTER

Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
Note 2: Should the specified Regulations or standards be amended during the period of validity of this certificate, the product(s) is/ are to be re-approved prior to it/ they being placed on the UK market and on board vessels to which the amended regulations of standards apply.
Note 3: "The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body."
Note 4: In case limitations of use apply, these should be indicated in the Annex.

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 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, ENDURA, CREWSAVER, ELLIOT, DSB, SURVITECZODIAC, RFD, SSP, BRUDE, RFD TOYO
Type	Open reversible Inflatable Liferaft 100 Man - ORIL 100 HSC pack
Weight	330 Kg

Overall dimensions of the inflated liferaft (mm)			**Working pressure (mb)**
Length	**Width**	**Height**	
8300	5100	1000	162

As indicated in the technical documentation submitted by the Applicant.

2. DOCUMENTS AND DRAWINGS:

- Drawings and specifications:

Number	Title	Issue	Date
CHX BE 280 UK	OPEN REVERSIBLE LIFERAFT HSCR 100	--	03/10/2022
-	BRANDS FILE	C	10/11/2022

- Material and components :

Number	Title	Issue	Date
D.I.F 02	Suppliers file liferaft COASTAL - TO - TOSR - DL- DLSR - ORIL	X	16/11/2022

- UK Specifics Items :

Number	Title	Issue	Date
D.I.F 02 annexe UK	Suppliers file UK liferaft Specific items	--	19/05/2022

- 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 - HSC R 100 UK	--	03/10/2022

In accordance with requirements contained in the Annex 11 of the IMO Resolution MSC.97(73), open reversible liferafts have been tested in accordance with the recommendations of resolution MSC.81(70), part 1:

- Tests No. 5.5, 5.12, 5.16, 5.17.2, 5.17.10, 5.17.11, 5.17.12, 5.18 and 5.20 have been omitted;
- Part of test No. 5.8 regarding closing arrangement have been omitted,
- The temperature – 30°C in test No. 5.17.3 and 5.17.5 have been substituted with -18°C;

TOWING FORCE

	With the sea anchor deployed	Without the sea anchor deployed
Towed at 2 knots	232 daN	196 daN
Towed at 3 knots	420 daN	315 daN

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

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

4. APPLICATION / LIMITATION:

- As per requirements stated on front page of this certificate.
- Maximum capacity: 100 persons.
- Maximum permitted stowage height above waterline : 20 meters
- The maintenance of the liferaft shall be carried out according to the IMO Resolution A.761 (18) as amended and with instructions stated in the Manual(s) for installation use and maintenance.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - This certificate alone does not allow the applicant to issue the UK Declaration of Conformity and to affix the mark of conformity (United Kingdom conformity mark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module F Product Verification of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, is to be complied with and controlled by a written inspection agreement with an Approved Body.

5.2 - 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 as amended.

5.3 - Each liferaft intended to be fitted onboard a United Kingdom ship shall be delivered with a United Kingdom Declaration of Conformity.

5.4 - 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 recognized by the manufacturer according to IMO Resolution A.761(18), for their competences to service and repack such liferafts.

5.5 The following components shall comply with the requirements of Merchant Shipping (Marine Equipment) Regulations 2016, as amended, and be marked with the United Kingdom Conformity Mark:

- UK/1.2a Position-indicating lights for survival craft and rescue boats
- UK/1.7 Thermal protective aids
- UK/1.8 Rocket parachute flares
- UK/1.9 Hand flares
- UK/1.10 Buoyant smoke signals
- UK/1.30 Retro-reflective materials

Above listed components are to be listed in the above listed "UK Specifics Items" files.

6. MARKING OF PRODUCT:

Markings on container	Markings on inflatable liferaft
Maker's name or trade mark.	
Serial Number	
Name of approving authority	
Reference is made to the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, Part3: In particular Article 15.3 specifies that the United Kingdom conformity mark shall be followed by the identification number of the Approved Body involved in the production control phase (module D or F) and by the year in which the mark is affixed (4 digits or last 2 digits).	
Number of persons it is permitted to carry	Number of persons it is permitted to accommodate over each buoyancy tube, 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	
NON SOLAS REVERSIBLE	

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** 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** upon acceptance of the vessel's flag administration pursuant to SOLAS regulation III/20.8.3 and considering that liferafts should be:

- 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, this being subject to the vessel's Marine Administration acceptance.
- 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.

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