

Declaration of Design and Performance (DDP)

Product:	Version:	
Marin Lifejacket	1	
DDP no. 20230126	Revision no. Issue 1	
Manufacturer:	Address:	
Crewsaver	Tykkemyr 27, N-1597 Moss, Norway	
Typedesign	Version:	Reference:
Illustration attached	-	01314 Marin 290
Statement of compliance The life jackets design is according to ISO 12402 All materials and components are approved to ISO 12402	-	Supporting evidence below – Design
Design No. 01314 Marin 290	-	Marin
Changes: -		N/A
Maintenance, overhaul, and repair manuals	-	User Manual, Service Manual and Service Instructions

Description of article

Comfortable and lightweight Lifejacket for tough and demanding environments. It can be worn as a standalone lifejacket as well as a body armour capable lifejacket. Designed with focus on ergonomics, weight, and comfort – without compromise.

- o Body armour and standalone capability
- YKK Burst Zip
- o SOLAS approved emergency light
- o UML Pro Sensor Elite Firing Mechanism
- o In water performance equivalent to ISO 12402 o Oral inflation tube
- CE/SOLAS approved whistle
- o MOLLE Body armour attachment
- o Back neck zip access

- o 290N inflatable lifejacket
- Automatic and Manual operation
- Plastic lightweight buckles
- Incognito SOLAS tape strip

 - Easy access Beaded pull handle
- Buddy line included

List of	List of deviations:		
1	Automatic and Manual mode on the lifejacket involves ensuring the sealing cap is used correctly as per the user manual.		
2	Attachment to Body armour must comply of the user manual fitting instructions.		
3	In water performance is not approved but testing has been carried out. Limited testing completed on but all in line with the ISO 12402 standard. See report WL/FTL/3427 below.		
4	Back neck inflation on a horizontal inflation pull.		
5	No lifting becket included in the lifejacket.		
6	SOLAS reflective tape is covered unless hiding strip is removed.		
7	Stand-alone harness is not for lifting.		



FLEETWOOD TESTING LABORATORY







WL/FTL/3427 19th January 2023

FLEETWOOD TESTING LABORATORY

TEST OF

POLICE VEST WITH INTEGRAL LIFEJACKET AND BODY ARMOUR

AGAINST

CUSTOMERS OWN REQUIREMENTS 'HOME OFFICE APPROVAL TEST'

ON BEHALF OF

SURVITEC
SURVITEC HOUSE
LEDERLE LANE
GOSPORT
HAMPSHIRE
PO13 0FZ

THIS REPORT CONTAINS FOUR PAGES INCLUDING THE APPENDIX

REPORT ORIGINATOR W.LLOYD

REPORT CHECKER R.HOLGATE

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FLEETWOOD TEST HOUSE, FLEETWOOD NAUTICAL CAMPUS BROADWATER, FLEETWOOD, LANCASHIRE, FY7 8JZ, UK Telephone +44 (0) 1253 504725 • E-mail: ftl@blackpool.ac.uk

Results stated in this report are only representative of the samples submitted for testing at Fleetwood Testing Laboratory. Uncertainty applied is based on a standard uncertainty multiplied by a coverage factor of k=2, which relates to a coverage probability of approximately 95%. Decision rule ILAC GS:2009 applied with Guard band (I U) which has a specific risk of <2.5% probability for a false accept or false reject with the following conformity decision rules applied:

PASS: Results± expanded uncertainty meet the criteria/specification.

FAIL: Results ± expanded uncertainty do not meet the criteria/specification.

INDETERMINATE: Results fall within the area of expanded uncertainty for the criteria/specification and so it is not possible

to determine compliance/non-compliance based on a 95% level of confidence.

A satisfactory test report does not imply that the product tested has been approved to the relevant standard. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. This test report shall not be published or reproduced in any form without written approval of Fleetwood Testing Laboratory.

Date of tests: The tests were carried out at Fleetwood Testing Laboratory in the FOSC

Environmental training tank on 12.01.2023.

Present during testing: Steve Heawood Crib Gogh

Scott Tonks Survitec

Zac Williams Survitec- Head of product design

Dave Barrass Humberside Police
Gary Wilson Humberside Police
Brooke Schofield FTH Technical Manager
Richard Sharpe FTH Test House Supervisor
Wayne Lloyd FTH Testing Engineer
George Hill FTH Testing Engineer

Product description: 2 x Marin 290 lifejackets with manual inflators supplied on the day by Survitec

for testing.

Tests carried out: Survitec requested the use of FOSC Environmental training tank to perform a

series of bespoke exercises witnessed by two members of Humberside Police

Force. The following activities were performed by the test subjects.

1) Pool entry via the 3m platform and manually inflate the lifejacket with added weight attached by a waistbelt.

2) Self-righting from a face down position in the water simulating unconsciousness.

3) Pool side recovery.

4) Freeboard measurement.

Note: See pictures of testing in Appendix 1.

Test Subjects: Subject 1: Steve Heawood (Crib Gogh Ltd)

Subject 2: Scott Tonks (Survitec)

Test Subject Equipment:

Subject	Clothing	Equipment	Helmets	Added weight* (kg)
1	Ubacs, combats and boots	The Rogue soldier system dressed for AKAP protection	The Rogue spec-ops helmet high cut	18.36
2	Ubacs, combats and boots	The Rogue soldier system dressed for AKAP orotection	Spec-ops full cut	18.36

^{*}Each subject was loaded with an additional 18.36kg of weight by wearing a diving weight belt and integral weights.



Results:

1. 3m Water Entry

Subject	With helmet	Lifejacket manually activated	Time to surface (s)
1	No	Yes	5.29
2	Yes (The Rogue spec-ops helmet high cut)	Yes	4.13

2. Self-Righting

Subject	Start in a face down position	Lifejacket manually activated	Time to turn to a face up position once activated (s)
1	Yes	Yes	3.36

Note: Subject 1 was lying in a face down position in the water simulating unconsciousness. Test subject 2 manually activated the lifejacket of test subject 1.

3. Pool Side Recovery

Test subject 1 was recovered out of the water successfully by test subject 1 and test engineer RS using the grab handles on the rear shoulders of the body armour. Note: See fig 5.

4. Freeboard M	easurement
Subject	Freeboard (mm)
2	188

Conclusion		
	Information relating to testing was reported back to the manufacturer.	

End of Report -



APPENDIX 1 - Pictures of Testing



Fig.1. Test subject 1, successful resurfaced following 3m pool entry.

Fig.2. Test subject 2 freeboard measurement



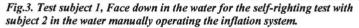




Fig.4. Test subject 1, self-righting successfully returned to a face up position (airways clear).



Fig.5. Two black grab handles on the rear of the body armour.



Fig.6. Subject 1: Clothing and equipment fitted with added weif!ht (no helmet).

Fig.7. Subject 2: Clothing and equipment fitted with added weif!ht (no helmet).

