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Test Report

Report No	253/8899420	This R	eport consists of 3 pages	
Client	Dellemma Limited 4 Carisbrooke Drive Southampton SO19 7BE United Kingdom			
Authority & date	BSI Service Management Order No 8899420 dated 6 February 2018			
Items tested	Climbing Hat with 'E-Fa Model: Evo Skyworker Three (3) samples subr	ıb' fitted nitted		
Specification	Limited testing to BS EN 12492:2012 Mountaineering Equipment – Helmets for mountaineers – Safety and Test Methods and ANSI/ISEA Z89.1-2014 American National Standard for Industrial Head Protection – Type 1C and Type 1E See Introduction and Assessment Summary for further details			
Results	See Assessment Summ	ary		
Prepared by	S C Hamon	S Harron	Senior Engineer	
Authorized by	М Мауо	MMg	Testing Team Manager	
Issue Date	27 February 2018			
Conditions of issue	This Test Report is issued subjection Contract for Testing'. The result the specific tests carried out, as indicate any measure of Approvide product. No extract, abridgeneradvertise a product without the reserves the absolute right to any which consent may be sought.	sued subject to the conditions stated in current issue of EMCP 100 'Conditions of The results contained herein apply only to the particular sample/s tested and to ied out, as detailed in this Test Report. The issuing of this Test Report does not of Approval, Certification, Supervision, Control or Surveillance by BSI of any abridgement or abstraction from a Test Report may be published or used to <i>i</i> thout the written consent of the Managing Director, BSI Testing Services, who eright to agree or reject all or any of the details of any items or publicity for e sought.		

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BRITISH STANDARDS INSTITUTION BS EN 12492:2012 AND ANSI/ISEA Z89.1-2014

SPECIFICATIONS:- Limited testing to BS EN 12492:2012 Mountaineering Equipment – Helmets for mountaineers – Safety requirements and test methods and Limited testing to ANSI/ISEA Z89.1-2014 American National Standard for Industrial Head Protection (see Assessment Summary for details)

CLIENT: Dellemma Limited MODEL: Evo Skyworker MANUFACTURE DATE: January 2018 NUMBER OF SAMPLES: Three (3) ER NO: 10176658

DATE RECEIVED: 6 February 2018 DATE STARTED: 8 February 2018

INTRODUCTION

The samples above were submitted by the Client to assess the shock performance when fitted with `E-Fab' hard hat emergency kit fitted to inner surrounding shell crown area of helmet.

The samples were initially subjected to Section 7.1.2 Force Transmission of ANSI/ISEA Z89.1 – 2014, then subsequently tested to Clause 4.2.1 Shock absorption of BS EN 12492:2012.

This Report should be read in conjunction with the Specifications referenced above.

ASSESSMENT SUMMARY

SECTION/CLAUSE NO AND TITLE		ASSESSMENT	DETAIL LOCATION
ANSI/	ISEA Z89.1-2014		
7	PERFORMANCE REQUIREMENTS		
7.1	Requirements for Type I and Type II Helmets		
7.1.2	Force Transmission	Pass	Page 3
BS EN	12492:2012		
4	PERFORMANCE		
4.2	Performance requirements	Pass	Page 3
4.2.1	Shock absorption		

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BRITISH STANDARDS INSTITUTION BS EN 12492:2012 AND ANSI/ISEA Z89.1-2014

ANSI/ISEA Z89.1-2014

SECTION 7 PERFORMANCE REQUIREMENTS

Section 7.1.2 Force Transmission (1)

Sample No./ Shell Colour	Model (Variant)	Claimed size / range (2)	Pre- conditioning	Transmitted Force (max. 4450N)
1 / White		53-64cm	+49°C	1730
2 / White	Evo Skyworker (with 'E-Fab' fitted)	53-64cm	-18°C	1900
3 / White		53-64cm	Ambient	1840

(1) Tested in accordance with Section 10.2 methods.

(2) Size range taken from size embossed on shell.

BS EN 12492:2012

CLAUSE 4.2 PERFORMANCE REQUIREMENTS CLAUSE 4.2.1 SHOCK ABSORPTION

Clause 4.2.1.1 Vertical energy absorption capacity

(Using a Hemispherical striker dropped from a nominal height of $2,000 \pm 10$ mm)

Sample Number	Claimed Size	Size of Test Headform (mm)	Conditioning	Transmitted Force kN (10kN max.)
1	53-64cm	605	+35°C	7.89
2	53-64cm	605	-20°C	6.01
3	53-64cm	605	Ambient	7.03

END OF REPORT