Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014



Alexander Andrew, Inc. 1306 S. Alameda St Compton, CA 90221

Declaration #	C0616	039		Decl	aration Date	6.17.16	
Tested Item #	ested Item# 8242AF		6' Arc Flash Shock Absorbing Lanyard				
Additional Item	s Conforming Un	der this Declar	ation:				
8	32423AF 8	242L 8	2423L	82424L	8242	8243	
Cc	-	359.13-20	following	performar ASTM	nce standard(s	s):	h
Level 1: Fa Outside the	e Scope of	Wit	el 2: FallTech hin the Scop Standard 170	e of	aco	pendent 3rd Part credited to andard 17025:20	
upporting Occumentation	PC-0928	K-418926	-1606H01-R	00			
Au	thorized Signa	ture	£)	Ju-	-	
	in Hawkins						

Exova 3883 East Eagle Drive Anaheim California USA 92807 T: +1 (714) 630-3003 F: +1 (714) 630-4443 E: sales@exova.com W: www.exova.com



Testing. Advising. Assuring.

August 15, 2016

FallTech Testing Laboratory 1306 S. Alameda Street Compton, CA 90221

Attention: Jay Sponholz

Quality Manager

Subject: Attestation of Witnessing Testing

Exova OCM Job # 361179-4
FallTech P.O.: OPEN
Report No.: PC-0928
Base Part No. 8242AF

Description: Energy Absorbing Lanyard

Dear Mr. Sponholz:

The purpose of this attestation is to attest to the fact that a representative of Exova OCM was on site at FallTech's facilities to confirm suitability of the equipment used, calibration status of the equipment and to witness testing performed by FallTech employees. Details of this visit are included below:

- · Date of Testing:
 - July 7, 2016
- Exova OCM Test Witness:
 - Robert Fortner
- FallTech Test Operators:
 - Yesbet Sierra and Jay Sponholz
- · Specification:
 - ANSI Z359.13-2013 Sections 4.5, 4.6, 4.13.1, 4.13.2, 4.13.3
- Equipment Calibration Interval
 - 1 year, except weights which are 5 years



Attached to this attestation is the test report generated by FallTech Testing Laboratory. Exova OCM test witness certifies the report accurately presents the testing performed on the samples identified.

Test Report #	Date	Base Part #	Description	Sample ID's	Results
				A2	
				A3	
				A4	
				A2	
		8242AF		A3	Pass
				A4	
			8242AF Energy Absorbing Lanyard	W1	
PC-0928	PC-0928 7/11/2016			W2	
				W3	
				C1	
				C2	
				C3	
			H1		
				H2	
				H3	

Test Witness Signature:

Technician

Robert Fortner

Mechanical Laboratory

(Signed for and on behalf of Exova-OCM)

Mark E. Kokosinski **General Manager**

Approval Signature:

(Signed for and on behalf of Exova-OCM) E. Karninghi



This attestation shall not be reproduced except in full, without the written approval of Exova-OCM. The laboratory has witnessed the testing the material / items supplied by the client as sampled by the client. The testing is not within Exova OCM's L.A.B scope of testing and was not performed at Exova OCM.







FallTech Testing Laboratory

1306 S. Alameda Street, Compton, CA 90221-4803 Tel: (323) 752-0060 www.falltech.com

FallTech Test Report							
Test Report Number	PC-0928	Date	7/11/2016	Rev		Rev Date	
Report Prepared For	FallTech	FallTech					
Initiated By	Dan Redden	Test Specification		ANSI Z359.13-2013 4.5, 4.6, 4.13.1, 4.13.2, 4.13.3			
Base Part #	8242AF	Description Energy Absorbing Lanyard					
Proposed Part #	N/A	Built By Whom		Production		BOM	No
Test Request #	PC-0928	Date Received		7/5/2016	Date	Complete	7/7/2016
Test Operator	Jay Sponholz	Test Opera	tor	Yesbet Sier	ra		

Material/Sample Identification				
Sample ID	Description			
A2	Energy Absorbing Lanyard			
A3	Energy Absorbing Lanyard			
A4	Energy Absorbing Lanyard			
A2	Energy Absorbing Lanyard			
A3	Energy Absorbing Lanyard			
A4	Energy Absorbing Lanyard			
W1	Energy Absorbing Lanyard			
W2	Energy Absorbing Lanyard			
W3	Energy Absorbing Lanyard			
C1	Energy Absorbing Lanyard			
C2	Energy Absorbing Lanyard			
C3	Energy Absorbing Lanyard			
H1	Energy Absorbing Lanyard			
H2	Energy Absorbing Lanyard			
H3	Energy Absorbing Lanyard			





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FallTech Test Report								
Test Report Number	PC-0928	Date	7/11/2016	Rev		Rev Date		
Report Prepared For	FallTech	Date	7/11/2010	Rev		Rev Date		
Initiated By	Dan Redden	ANSI 7350 13-2013						
Base Part #	8242AF	Description		Energy Absorbing Lanyard				
Proposed Part #	N/A	Built By Wh	om	Production		BOM No		
Test Request #	PC-0928	Date Receiv	/ed	7/5/2016	Dat	e Complete	7/7/2016	
		Test S	Summary					
Test Specification	Tes	t Criteria		Test I	Result	Pass	s/Fail	
ANGI 7250 42 2042	Arrest Distance	<u>< 48</u>	8"	39	.0"	Pa	iss	
ANSI Z359.13-2013 4.5	Max Arrest Force	<u><</u> 1800	O Lbf	1023	.2 Lbf	Pa	ISS	
4.5	Avg Arrest Force	<u><</u> 900	Lbf	810.	2 Lbf	Pa	ISS	
ANSI Z359.13-2013	Arrest Distance	<u><</u> 42	8"	39.6"		Pass		
4.5	Max Arrest Force	<u><</u> 1800 Lbf		1031.4 Lbf		Pass		
4.5	Avg Arrest Force	≤ 900 Lbf		796.1 Lbf		Pass		
ANSI Z359.13-2013	Arrest Distance			40.2"		Pa	ISS	
4.5	Max Arrest Force			1102.7 Lbf		Pass		
1.5	Avg Arrest Force	<u><</u> 900	<u><</u> 900 Lbf		808.2 Lbf		Pass	
ANSI Z359.13-2013	Static Strength	≥ 5000 Lbf		5040.1 Lbf		Pass		
4.6	Hold	<u>≥</u> 1 Mi	nute	1 Minute		Pass		
ANSI Z359.13-2013	Static Strength	<u>≥</u> 5000	O Lbf	5255.2 Lbf		Pass		
4.6	Hold	<u>≥</u> 1 Mi	nute	1 Minute		Pass		
ANSI Z359.13-2013	Static Strength	<u>></u> 5000	O Lbf	5050.2 Lbf		Pass		
4.6	Hold	≥ 1 Mi	nute	1 Mi	nute	Pass		
ANSI Z359.13-2013	Arrest Distance	<u><</u> 48	8"	39.4"		Pass		
4.13.1	Max Arrest Force	<u>≤</u> 1800 Lbf		978.7 Lbf		Pass		
4.13.1	Avg Arrest Force	<u><</u> 112!	5 Lbf	786.	2 Lbf	Pa	ISS	
ANSI Z359.13-2013	Arrest Distance	<u>< 48</u>		41.2"		Pa	iss	
4.13.1	Max Arrest Force	<u><</u> 1800) Lbf	1013.1 Lbf		Pass		
7.13.1	Avg Arrest Force	<u><</u> 1125		787.	8 Lbf	Pass		
ANSI Z359.13-2013	Arrest Distance	<u>< 48</u>		40	.6"	Pa	iss	
4.13.1	Max Arrest Force	<u><</u> 1800) Lbf	978.5 Lbf		Pass		
13.1	Avg Arrest Force	<u><</u> 112	5 Lbf	789.	2 Lbf	Pa	ISS	



FallTech Testing Laboratory

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Test Report Number	PC-0928	Date	7/11/2016	Rev	Rev Date		
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification		ANSI Z359.13-2013 4.5, 4.6, 4.13.1, 4.13.2, 4.13.3			
Base Part #	8242AF	Descriptio	n	Energy Absorb	oing Lanyard		
Proposed Part#	N/A	Built By W	/hom	Production	BOM	Vo	
Test Request #	PC-0928	Date Rece	ived	7/5/2016	Date Complete	7/7/2016	
ANCI 7250 42 2042	Arrest Distance	≤	48"	33.8"	Pa	iss	
ANSI Z359.13-2013 4.13.2	Max Arrest Force	≤ 18	00 Lbf	1095.2 L	bf Pa	Pass	
4.13.2	Avg Arrest Force	≤ 11	25 Lbf	917.8 LI	of Pa	Pass	
ANSI Z359.13-2013 4.13.2	Arrest Distance	<u><</u> 48"		34.2"	Pa	Pass	
	Max Arrest Force	≤ 1800 Lbf		1272.3 L	bf Pa	iss	
4.13.2	Avg Arrest Force	≤ 1125 Lbf		938.4 LI	of Pa	iss	
ANSI Z359.13-2013	Arrest Distance ≤4		48"	34.0"	Pa	iss	
4.13.2	Max Arrest Force	≤ 18	00 Lbf	1314.9 L	bf Pa	iss	
4.13.2	Avg Arrest Force	≤ 11	25 Lbf	937.2 LI	of Pa	iss	
44101 7050 40 0040	Arrest Distance	≤ 48"		42.4"	Pa	iss	
ANSI Z359.13-2013 4.13.3	Max Arrest Force	≤ 18	00 Lbf	1236.4 L	bf Pa	Pass	
4.15.5	Avg Arrest Force	≤ 11	25 Lbf	814.9 Ll	of Pa	Pass	
	Arrest Distance	≤ 48"		45.6"	Pa	iss	
ANSI Z359.13-2013 4.13.3	Max Arrest Force	≤ 1800 Lbf		1081.6 L	bf Pa	iss	
4.15.5	Avg Arrest Force	≤ 1125 Lbf		784.1 LI	of Pa	iss	
	Arrest Distance	< 48"		44.0"	Pa	iss	
ANSI Z359.13-2013	Max Arrest Force	≤ 18	00 Lbf	1064.9 L	bf Pa	iss	
4.13.3	Avg Arrest Force	< 1125 Lbf		789.8 LI	of Pa	iss	

	Conclusion		
FallTech F	P/N 8242AF meets the requirements of ANSI Z359.13-	2013 and ASTM F-8	87-13
	Report Signatories and Approv	al	
Lab Quality Manager	Jay Spondolz	Date	7/11/2016
Witnessed by	Home for R. Fortner	Date	8/15/16



Test Performed for ArcWear.com Louisville, KY 40223 www.ArcWear.com

Personal Climbing Equipment provided by **FallTech** 1306 S Alameda St Compton, CA 90221 800-719-4619

Model 8242, 6' Energy Absorbing Lanyard

ASTM F887-13 Standard Specifications for Personal Climbing Equipment Section 22, Electric Arc Performance Evaluation

Kinectrics Inc. Report No.: K-418926-1606H01-R00

Item received: June 17, 2016 Test Date: June 17, 2016

Client representative: **Hugh Hoagland**

ArcWear

Digitally signed by Hugh
Hoagland
Date: 2016.06.27 14:01:50-04'00'

Ondrew Harnes 08:12:36-04'00'

Andrew Haines Prepared by:

> **Technologist** Kinectrics Inc

Stephen Cress 2016.06.29 18:28:10

Approved by: Stephen Cress, P. Eng

Department Manager, DAM

Transmission and Distribution Technologies

Kinectrics Inc

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Note about this report

- The test performed does not apply to electrical contact or electrical shock hazard
- The test result is applicable only to the Test Item, other material or color may have a different response.
- The findings of this report are based on the current test method as described in the Reference Standard
- It is assumed that the information supplied by the client was valid and complete

Electric Arc Exposure Test Report

Test Description

Harnesses- The test program requires the specimens be placed on mannequins as normally worn. A minimum of six samples are tested, three samples with the front facing the arc and three samples with the back side toward the arc. The mannequin is positioned as to have the arc centered on the chest for front facing exposure and centered on the fall arrest attachment for the back facing exposure.

Harness accessories, loops etc. - Three specimens of each accessory or loop are required to be exposed to the arc. These may be attached webbing or other suitable means to allow the item to be held against the mannequin or panel at a distance of 30.5 cm (12 inches).

Shock Absorbing Lanyard - Three specimens of each lanyard are required to be exposed to the arc. These are placed over the shoulder and held against the mannequin or panel at a distance of 30.5 cm (12 inches). Several lanyards may be tested at one time on the same mannequin.

Test Requirements

The test standard requires that the finished personal climbing equipment be exposed to a level of 40±5 cal/cm². In the case where the arc exposure is out of range of the standard, extra samples may be performed if available. There shall be no ignition of any component, no greater than 5 seconds afterflame and no melting and dripping of any materials.

As proof of performance following the arc exposure, the exposed test specimens shall be subjected to a drop test per ANSI Z359.1 or Z349.13 as applicable. This shall be done as soon as practically possible. ArcWear has arranged to have the test items returned to the client or other laboratory to perform the drop test.

Results and Observations

The following test data was recorded for each trial:

- Arc exposure electrical conditions: arc trial number, RMS arc current, arc voltage, arc duration, energy dissipated in arc, plots of arc current and arc voltage
- Average incident energy from monitors.
- Photographs of exposed samples before and after exposure
- Video recording during and immediately after the exposure to record after-flame
- Examination of the samples after the test for evidence of ignition, melting and dripping or any other material problems.

The essential test data and test results with a representative photograph of the samples are presented in the following pages. The observations are performed by a qualified observer that has knowledge of behavior of materials in an arc exposure and in depth knowledge of arc testing specifications and requirements.

Quality Management

The arc testing performed to the above mentioned Standard is accredited by the Standards Council of Canada (SCC) to conform to the requirements of CAN-P-4E (ISO/IEC 17025:2005). Accreditation by the Standards Council of Canada (SCC) is a mark of competence and reliability recognized throughout the world.

K-418926-1606H01-R00

Sample description: 6' Energy Absorbing Lanyard

Sample identification: Model 8242
Manufacturer FallTech
Material of webbing: Kevlar

Trial # 16-3193						
Mannequin	A	В				
Item Serial #	Quantity - 2	Quantity - 1				
Ei, cal/cm²	42.3	35.4				
Afterflame	1, Absorber Cover Fabric	0				
Ignition	N	N				
Melting and dripping	N	N				
Comment	Evidence of ablation of energy absorber cover fabric, but no concerns with material response.	Evidence of ablation of energy absorber cover fabric, but no concerns with material response.				

Conclusions

The Model 8242 6' Energy Absorbing Lanyard has met the no melting, no dripping, no ignition criteria of ASTM F887-13 section 22.8. In order to satisfy the Electric Arc Performance requirements in accordance with section 22 of the standard, the test specimens must pass the specified drop test following arc exposure.