

Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014



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

Declaration #

D0315014b

Declaration Date

3.23.15

Tested Item #

82709SA4

9' DuraTech® Max Web SRD

Additional Items Conforming Under this Declaration:

82709SA1	82709SA3	82709SA5	82709TB1	82709TB3	82709TB4	82709TB5
82909SC1	82909SC3	82909SC6	82909SC5	82909SA4		
82909TB1	82909TB3	82909TB6	82909TB5			

Alexander Andrew, Inc. declares that the product(s) listed above is in conformity with the requirements of the following performance standard(s):

ANSI Z359.14-2012 and ASTM F887-13*

* All FallTech Arc Flash SRDs have been tested under a 3rd Party adoption of ASTM F887-13 for self-retracting lifelines. (see pages 21 - 23)

Conformity Assessment Method in accordance with ANSI/ISEA 125-2014

Level 1

Level 2

X

Level 3

Level 1: FallTech Lab
Outside the Scope of
ISO/IEC Standard 17025:2005

Level 2: FallTech Lab
Within the Scope of
ISO/IEC Standard 17025:2005

Level 3: Independent 3rd Party Lab
accredited to
ISO/IEC Standard 17025:2005

Supporting

Documentation

PC-0561

PC-0562

K-418927-1607H10-R00

Authorized Signature

Name

Dustin Hawkins

Title



VP Business Development

Date



12.1.16

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
PC-0561	3/23/2015	82709SA4	9' Web Self-retracting Device	2369072 2369043 2369068 2369070 2369104 2369083 2369100 2369087 2369090 2369097 2369096 2369077 2369093 2369075 2369091 2369073 2369042 2369049	Pass

Test Witness Signature: Robert Fortner Technician Mechanical Laboratory	(Signed for and on behalf of Exova-OCM) 	
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Approval Signature: Bruce K. Sauer Technical Director	(Signed for and on behalf of Exova-OCM) 	
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Approval Signature: Thomas J. (Tom) Parsons Manager Quality / Technical Services	(Signed for and on behalf of Exova-OCM) 	
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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 Test Report							
Test Report Number	PC-0561	Date	3/23/2015	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2012 4.2.1, 4.2.3, 4.2.5, 4.2.6, 4.2.8.1, 4.2.8.2, 4.2.8.3				
Base Part #	82709SA4	Description	9' Web Self-retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM	No		
Test Request #	PC-0561	Date Received	3/19/2015	Date Complete	3/20/2015		
Test Operator	Peter Mahbubani	Test Operator	Yesbet Sierra				

Material/Sample Identification	
Sample ID	Description
2369072	9' Web Self-retracting Device
2369043	9' Web Self-retracting Device
2369068	9' Web Self-retracting Device
2369070	9' Web Self-retracting Device
2369104	9' Web Self-retracting Device
2369083	9' Web Self-retracting Device
2369100	9' Web Self-retracting Device
2369087	9' Web Self-retracting Device
2369090	9' Web Self-retracting Device
2369097	9' Web Self-retracting Device
2369096	9' Web Self-retracting Device
2369077	9' Web Self-retracting Device
2369093	9' Web Self-retracting Device
2369075	9' Web Self-retracting Device
2369091	9' Web Self-retracting Device
2369073	9' Web Self-retracting Device
2369042	9' Web Self-retracting Device
2369049	9' Web Self-retracting Device

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FallTech Test Report						
Test Report Number	PC-0561	Date	3/23/2015	Rev		Rev Date
Report Prepared For	FallTech					
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2012 4.2.1, 4.2.3, 4.2.5, 4.2.6, 4.2.8.1, 4.2.8.2, 4.2.8.3			
Base Part #	82709SA4	Description	9' Web Self-retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0561	Date Received	3/19/2015	Date Complete	3/20/2015	

Test Summary				
Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.14-2012 4.2.1	Arrest Distance	Class A \leq 24" Class B \leq 54"	25.7"	Pass
	Max Arrest Force	\leq 1800 Lbf	941.5 lbF	Pass
	Avg Arrest Force	Class A \leq 1350 Lbf Class B \leq 900 Lbf	725.3 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.4 lbF	Pass
ANSI Z359.14-2012 4.2.1	Arrest Distance	Class A \leq 24" Class B \leq 54"	24.1"	Pass
	Max Arrest Force	\leq 1800 Lbf	950.6 lbF	Pass
	Avg Arrest Force	Class A \leq 1350 Lbf Class B \leq 900 Lbf	766.7 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.2 lbF	Pass
ANSI Z359.14-2012 4.2.1	Arrest Distance	Class A \leq 24" Class B \leq 54"	32.5"	Pass
	Max Arrest Force	\leq 1800 Lbf	832.3 lbF	Pass
	Avg Arrest Force	Class A \leq 1350 Lbf Class B \leq 900 Lbf	581.8 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.4 lbF	Pass
ANSI Z359.14-2012 4.2.3	Dynamic Strength	4' Fall w/ 300 Lb Test Weight; Weight Shall Not Strike the Ground	Did not strike ground	Pass
	Line Constituent Strength	\geq 1000 Lbf	1062.4 lbF	Pass
ANSI Z359.14-2012 4.2.3	Dynamic Strength	4' Fall w/ 300 Lb Test Weight; Weight Shall Not Strike the Ground	Did not strike ground	Pass
	Line Constituent Strength	\geq 1000 Lbf	1063.2 lbF	Pass
ANSI Z359.14-2012 4.2.3	Dynamic Strength	4' Fall w/ 300 Lb Test Weight; Weight Shall Not Strike the Ground	Did not strike ground	Pass
	Line Constituent Strength	\geq 1000 Lbf	1060.9 lbF	Pass

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Base Part #	82709SA4	Description	9' Web Self-retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0561	Date Received	3/19/2015	Date Complete	3/20/2015	

ANSI Z359.14-2012 4.2.5	Static Strength	$\geq 3,000$ Lbf for ≥ 60 Seconds	3022.6 lbF	Pass
ANSI Z359.14-2012 4.2.5	Static Strength	$\geq 3,000$ Lbf for ≥ 60 Seconds	3029.7 lbF	Pass
ANSI Z359.14-2012 4.2.5	Static Strength	$\geq 3,000$ Lbf for ≥ 60 Seconds	3031.1 lbF	Pass
ANSI Z359.14-2012 4.2.6	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	3.6 lbF	Pass
ANSI Z359.14-2012 4.2.6	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.6 lbF	Pass
ANSI Z359.14-2012 4.2.6	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.8 lbF	Pass
ANSI Z359.14-2012 4.2.8.1	Arrest Distance	Class A ≤ 24 " Class B ≤ 54 "	52.6"	Pass
	Max Arrest Force	≤ 1800 Lbf	579 lbF	Pass
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	527 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.8 lbF	Pass
ANSI Z359.14-2012 4.2.8.1	Arrest Distance	Class A ≤ 24 " Class B ≤ 54 "	36.2"	Pass
	Max Arrest Force	≤ 1800 Lbf	834.8 lbF	Pass
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	582 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.4 lbF	Pass
ANSI Z359.14-2012 4.2.8.1	Arrest Distance	Class A ≤ 24 " Class B ≤ 54 "	36.2"	Pass
	Max Arrest Force	≤ 1800 Lbf	696 lbF	Pass
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	529.2 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.4 lbF	Pass

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Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2012 4.2.1, 4.2.3, 4.2.5, 4.2.6, 4.2.8.1, 4.2.8.2, 4.2.8.3			
Base Part #	82709SA4	Description	9' Web Self-retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0561	Date Received	3/19/2015	Date Complete	3/20/2015	

ANSI Z359.14-2012 4.2.8.2	Arrest Distance	Class A \leq 24" Class B \leq 54"	44.3"	Pass
	Max Arrest Force	\leq 1800 Lbf	811.3 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	622.3 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.6 lbF	Pass
ANSI Z359.14-2012 4.2.8.2	Arrest Distance	Class A \leq 24" Class B \leq 54"	44.2"	Pass
	Max Arrest Force	\leq 1800 Lbf	803.8 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	608.7 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.4 lbF	Pass
ANSI Z359.14-2012 4.2.8.2	Arrest Distance	Class A \leq 24" Class B \leq 54"	33.0"	Pass
	Max Arrest Force	\leq 1800 Lbf	699.8 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	592.2 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.8 lbF	Pass
ANSI Z359.14-2012 4.2.8.3	Arrest Distance	Class A \leq 24" Class B \leq 54"	30.6"	Pass
	Max Arrest Force	\leq 1800 Lbf	1018.1 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	840.5 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.2 lbF	Pass
ANSI Z359.14-2012 4.2.8.3	Arrest Distance	Class A \leq 24" Class B \leq 54"	36.6"	Pass
	Max Arrest Force	\leq 1800 Lbf	961 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	713.3 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.4 lbF	Pass



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Report Prepared For	FallTech					
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2012 4.2.1, 4.2.3, 4.2.5, 4.2.6, 4.2.8.1, 4.2.8.2, 4.2.8.3			
Base Part #	82709SA4	Description	9' Web Self-retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0561	Date Received	3/19/2015	Date Complete	3/20/2015	

ANSI Z359.14-2012 4.2.8.3	Arrest Distance	Class A \leq 24" Class B \leq 54"	24.5"	Pass
	Max Arrest Force	\leq 1800 Lbf	879.6 lbf	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	662.8 lbf	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.6 lbf	Pass



Conclusion	
FallTech P/N 82709SA4 Self-retracting Device meets the requirements of ANSI Z359.14-2012.	

Report Signatories and Approval			
Lab Quality Manager Peter Mahubani		Date	2/25/2015
Witnessed by		Date	3/23/15



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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
PC-0562	3/23/2015	82709SA4	9' Web Self-retracting Device	2369082 2369107 2369095 2369069 2369041 2369071 2369100 2369087 2369090 2369099 2369103 2369080 2369054 2369053 2369106 2369050 2369062 2369066	Pass

Test Witness Signature: Robert Fortner Technician Mechanical Laboratory	<i>(Signed for and on behalf of Exova-OCM)</i> 	
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Approval Signature: Bruce K. Sauer Technical Director	<i>(Signed for and on behalf of Exova-OCM)</i> 	
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Approval Signature: Thomas J. (Tom) Parsons Manager Quality / Technical Services	<i>(Signed for and on behalf of Exova-OCM)</i> 	
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FallTech Test Report							
Test Report Number	PC-0562	Date	3/23/2015	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2012 4.2.1, 4.2.3, 4.2.5, 4.2.6, 4.2.8.1, 4.2.8.2, 4.2.8.3				
Base Part #	82709SA4	Description	9' Web Self-retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM	No		
Test Request #	PC-0562	Date Received	3/19/2015	Date Complete	3/20/2015		
Test Operator	Peter Mahbubani	Test Operator	Yesbet Sierra				

Material/Sample Identification	
Sample ID	Description
2369082	9' Web Self-retracting Device
2369107	9' Web Self-retracting Device
2369095	9' Web Self-retracting Device
2369069	9' Web Self-retracting Device
2369041	9' Web Self-retracting Device
2369071	9' Web Self-retracting Device
2369100	9' Web Self-retracting Device
2369087	9' Web Self-retracting Device
2369090	9' Web Self-retracting Device
2369099	9' Web Self-retracting Device
2369103	9' Web Self-retracting Device
2369080	9' Web Self-retracting Device
2369054	9' Web Self-retracting Device
2369053	9' Web Self-retracting Device
2369106	9' Web Self-retracting Device
2369050	9' Web Self-retracting Device
2369062	9' Web Self-retracting Device
2369066	9' Web Self-retracting Device

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Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2012 4.2.1, 4.2.3, 4.2.5, 4.2.6, 4.2.8.1, 4.2.8.2, 4.2.8.3			
Base Part #	82709SA4	Description	9' Web Self-retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0562	Date Received	3/19/2015	Date Complete	3/20/2015	

Test Summary				
Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.14-2012 4.2.1	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	28.8"	Pass
	Max Arrest Force	≤ 1800 Lbf	1048.4 lbF	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	743.5 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24" Extended	2.2 lbF	Pass
ANSI Z359.14-2012 4.2.1	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	29.3"	Pass
	Max Arrest Force	≤ 1800 Lbf	1067.6 lbF	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	755.0 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24" Extended	2.4 lbF	Pass
ANSI Z359.14-2012 4.2.1	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	33.9"	Pass
	Max Arrest Force	≤ 1800 Lbf	808.1 lbF	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	602.4 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24" Extended	2.4 lbF	Pass
ANSI Z359.14-2012 4.2.3	Dynamic Strength	4' Fall w/ 300 Lb Test Weight; Weight Shall Not Strike the Ground	Did not strike ground	Pass
	Line Constituent Strength	≥ 1000 Lbf	1061.7 lbF	Pass
ANSI Z359.14-2012 4.2.3	Dynamic Strength	4' Fall w/ 300 Lb Test Weight; Weight Shall Not Strike the Ground	Did not strike ground	Pass
	Line Constituent Strength	≥ 1000 Lbf	1062.4 lbF	Pass
ANSI Z359.14-2012 4.2.3	Dynamic Strength	4' Fall w/ 300 Lb Test Weight; Weight Shall Not Strike the Ground	Did not strike ground	Pass
	Line Constituent Strength	≥ 1000 Lbf	1061.7 lbF	Pass

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Base Part #	82709SA4	Description	9' Web Self-retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0562	Date Received	3/19/2015	Date Complete	3/20/2015	

ANSI Z359.14-2012 4.2.5	Static Strength	$\geq 3,000$ Lbf for ≥ 60 Seconds	3022.6 lbF	Pass
ANSI Z359.14-2012 4.2.5	Static Strength	$\geq 3,000$ Lbf for ≥ 60 Seconds	3029.7 lbF	Pass
ANSI Z359.14-2012 4.2.5	Static Strength	$\geq 3,000$ Lbf for ≥ 60 Seconds	3031.1 lbF	Pass
ANSI Z359.14-2012 4.2.6	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.6 lbF	Pass
ANSI Z359.14-2012 4.2.6	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	3.0 lbF	Pass
ANSI Z359.14-2012 4.2.6	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.8 lbF	Pass
ANSI Z359.14-2012 4.2.8.1	Arrest Distance	Class A ≤ 24 " Class B ≤ 54 "	35.7"	Pass
	Max Arrest Force	≤ 1800 Lbf	854.4 lbF	Pass
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	551.6 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.0 lbF	Pass
ANSI Z359.14-2012 4.2.8.1	Arrest Distance	Class A ≤ 24 " Class B ≤ 54 "	29.9"	Pass
	Max Arrest Force	≤ 1800 Lbf	939.3 lbF	Pass
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	702.7 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.4 lbF	Pass
ANSI Z359.14-2012 4.2.8.1	Arrest Distance	Class A ≤ 24 " Class B ≤ 54 "	40.2"	Pass
	Max Arrest Force	≤ 1800 Lbf	867.4 lbF	Pass
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	595.2 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf ≤ 24 " Extended	2.4 lbF	Pass

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Base Part #	82709SA4	Description	9' Web Self-retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0562	Date Received	3/19/2015	Date Complete	3/20/2015	

ANSI Z359.14-2012 4.2.8.2	Arrest Distance	Class A \leq 24" Class B \leq 54"	32.1"	Pass
	Max Arrest Force	\leq 1800 Lbf	1112.1 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	777.1 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.8 lbF	Pass
ANSI Z359.14-2012 4.2.8.2	Arrest Distance	Class A \leq 24" Class B \leq 54"	28.6"	Pass
	Max Arrest Force	\leq 1800 Lbf	1097.5 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	734.7 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.8 lbF	Pass
ANSI Z359.14-2012 4.2.8.2	Arrest Distance	Class A \leq 24" Class B \leq 54"	28.6"	Pass
	Max Arrest Force	\leq 1800 Lbf	1036.2 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	690.0 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.4 lbF	Pass
ANSI Z359.14-2012 4.2.8.3	Arrest Distance	Class A \leq 24" Class B \leq 54"	34.2"	Pass
	Max Arrest Force	\leq 1800 Lbf	954.8 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	650.6 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.6 lbF	Pass
ANSI Z359.14-2012 4.2.8.3	Arrest Distance	Class A \leq 24" Class B \leq 54"	39.2"	Pass
	Max Arrest Force	\leq 1800 Lbf	988.0 lbF	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	668.5 lbF	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.4 lbF	Pass

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Base Part #	82709SA4	Description	9' Web Self-retracting Device		
Proposed Part #	N/A	Built By Whom	Production	BOM	No
Test Request #	PC-0562	Date Received	3/19/2015	Date Complete	3/20/2015

ANSI Z359.14-2012 4.2.8.3	Arrest Distance	Class A \leq 24" Class B \leq 54"	30.3"	Pass
	Max Arrest Force	\leq 1800 Lbf	1006.7 lbf	Pass
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	727.1 lbf	Pass
	Retraction Tension	1.25 Lbf - 25 Lbf \leq 24" Extended	2.2 lbf	Pass

Conclusion	
FallTech P/N 82709SA4 Self-retracting Device meets the requirements of ANSI Z359.14-2012.	

Report Signatories and Approval			
Lab Quality Manager Peter Mahbubani		Date	3/23/2015
Witnessed by		Date	3/23/15



This laboratory is accredited in accordance with the recognized international standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system, referred to the joint ISO/ILAC-AP Communiqué dated January, 2009.



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 82909SA4, 9' Max DuraTech ArcFlash SRD

OBSERVATION OF WORK PRODUCTS EXPOSED
TO AN ELECTRIC ARC

Kinectrics Inc. Report No.: K-418927-1607H10-R00

Item received: July 26, 2016

Test Date: July 26, 2016

Client representative: Hugh Hoagland
ArcWear

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Electric Arc Exposure Test Report

Test Description

At the time of this test, there was no directly applicable test standard to cover arc testing of selfretracting lanyards. It was decided after discussion between Kinectrics and Arcwear to adopt the general set-up used for ASTM F887-13 to generate the arc. The purpose of the electric arc test was to expose the test items to 40 ± 5 cal/cm² and to evaluate for ignition, melting and dripping following the exposure.

In order to complete testing, the test laboratory used the test fixture described in *ASTM F887 - 13 Standard Specifications for Personal Climbing Equipment, Section 22. Electric Arc Performance*. Although the products being evaluated do not strictly fall within the scope of this standard, the apparatus and procedure was adopted to suit the Client's requirements. The test procedure involves installing the finished product onto a secure platform with instrumented calorimeters on each side in order to evaluate the material response characteristics to an arc flash exposure.

- Test Parameters: Arc Gap= 12 inches (30.5 cm), Distance to the arc = 12 inches (30.5 cm)
- Arc Current = 8 kA RMS

The following test data was recorded for each trial:

- Arc exposure electrical conditions: arc trial number, arc current, arc voltage, arc duration, energy dissipated in arc, incident energy
- Review of product by qualified observer (see attached observation form)
- Photographs of garment before and after arc exposure
- Video recording of arc exposure

Results and Observations

The details of the product and observations are attached on the product evaluation form. These were completed at the time of the test. The subjective evaluation of the product was to document product design or material response concerns such as ignition or melting and dripping. The observations were performed by a qualified observer that has knowledge of behavior of materials in an arc exposure and in depth knowledge of testing specifications and requirements.

Quality Management

Kinectrics' Quality Management System is registered to ISO 9001:2008 by QMI, a division of SAI Global and North America's leading QMS registrar. Adherence to this standard provides one of the strongest assurances of service quality available. As a minimum, all work at Kinectrics' is performed to meet the requirements of ISO 9001:2008.

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
- It is assumed that the product description supplied by the client is accurate and complete

Sample description: 9' Max DuraTech ArcFlash SRD
Sample identification: Model 82909SA4
Manufacturer: FallTech
Material of webbing: Kevlar
Other detail: Nomex Cover

Trial # 16-3685		
Mannequin	A – front exposure	B – back exposure
Item Serial #	N/A	N/A
Ei, cal/cm ²	38.9	36.7
Afterflame	0	0
Ignition	N	N
Melting and dripping	N	N
Comment	Pass. There was evidence of melting of black fabric on inside of absorber pouch; No evidence of dripping or ignition.	Pass. There was evidence of melting of black fabric on inside of absorber pouch; No evidence of dripping or ignition.

Conclusions

The Model 82909SA4 9' Max DuraTech ArcFlash SRD showed good overall performance in the electric arc and did not exhibit any signs of dripping or ignition of any system component during testing. Although there is no requirement, it is strongly recommended that these tested items be subjected to an applicable drop test following exposure.

Photographs of samples

Before test: