

Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014 and ANSI/ASSP Z359.7-2019



Alexander Andrew, Inc. 1306 S. Alameda St Compton, CA 90221 (800) 719-4619

Declaration #

Declaration Date

Tested Item #	82709SA1 /	9' Web MAX SRD Single-leg Swivel Eye + Steel Snap
	82709TB1	Hook DuraTech
		9' Web MAX SRD Twin-leg Steel Carabiner/Clip+Steel Snap Hooks DuraTech

Additional Items Conforming Under this Declaration:

82709SA3	82709SB1	82709SB5	82709TB5	82909SC3	82909TB1	82909TB6
82709SA4	82709SB3	82709TB3	82709TH5	82909SC5	82909TB3	
82709SA5	82709SB4	82709TB4	82909SC1	82909SC6	82909TB5	

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

ANSI Z359.14-2021 & ASTM F887

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

Level 1 Level 2 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
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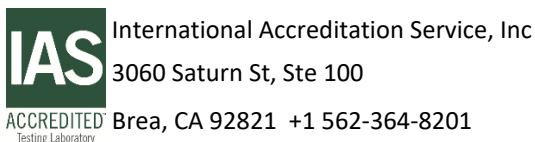
Supporting Documentation

Authorized Signature

Name

Title

Date



FallTech Lab - TL-594
ISO/IEC 17025:2017
Alexander Andrew Inc dba FallTech

FallTech Test Report

Test Report No.	PC-2731	Rpt. Date	11/18/2022	Rpt. Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification(s)	ANSI Z359.14-2021: 4.2.1, 4.2.3, 4.3.1, 4.3.2, 4.4, 4.5.1, 4.6.1				
Part No.	82709SA1/82709TB1			Part No. Revision	F/F		
Part Description	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg						
Test Request No.	PC-2731			Date Complete	11/16/2022		
Test Operator(s)	Yesbet Sierra / Jay Sponholz						

Material/Sample Identification

Sample ID	Description
6419266	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6419270	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6419273	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430723	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430713	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430715	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6419290	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6419299	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6419289	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6072306	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6072308	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6072183	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430723	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430713	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430715	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430761	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430758	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430717	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430722	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430744	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430748	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430716	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430704	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430708	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6419253	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6419252	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6419314	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430738	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430736	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430731	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430759	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430705	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430714	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430719	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430702	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg
6430706	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg

FallTech Test Report

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Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification(s)	ANSI Z359.14-2021: 4.2.1, 4.2.3, 4.3.1, 4.3.2, 4.4, 4.5.1, 4.6.1				
Part No.	82709SA1/82709TB1			Part No. Revision	F/F		
Part Description	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg						
Test Request No.	PC-2731			Date Complete	11/16/2022		

Test Summary

Test Specification	Test Criteria	Test Result	Pass/Fail
ANSI Z359.14-2021 4.2.1	Static Strength ≥ 3600 Lbf for ≥ 60 Seconds	3626.2 lbF	Pass
ANSI Z359.14-2021 4.2.1	Static Strength ≥ 3600 Lbf for ≥ 60 Seconds	3630.9 lbF	Pass
ANSI Z359.14-2021 4.2.1	Static Strength ≥ 3600 Lbf for ≥ 60 Seconds	3645.0 lbF	Pass
ANSI Z359.14-2021 4.6.1	Static Strength, Dual Configuration ≥ 3600 Lbf for ≥ 60 Seconds	3624.4 lbF	Pass
ANSI Z359.14-2021 4.6.1	Static Strength, Dual Configuration ≥ 3600 Lbf for ≥ 60 Seconds	3617.7 lbF	Pass
ANSI Z359.14-2021 4.6.1	Static Strength, Dual Configuration ≥ 3600 Lbf for ≥ 60 Seconds	3616.8 lbF	Pass
ANSI Z359.14-2021 4.4	Energy Capacity > 1800 Lbf Max Arrest Force	1231.8 lbF	Pass
ANSI Z359.14-2021 4.4	Energy Capacity > 1800 Lbf Max Arrest Force	1168.8 lbF	Pass
ANSI Z359.14-2021 4.4	Energy Capacity > 1800 Lbf Max Arrest Force	1213.8 lbF	Pass
ANSI Z359.14-2021 4.3.2	Max Arrest 72" Freefall ≤ 1800 Lbf	1371.0 Lbf	Pass
	Visual Indicator Clear Evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.2	Max Arrest 72" Freefall ≤ 1800 Lbf	1327.6 Lbf	Pass
	Visual Indicator Clear Evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.2	Max Arrest 72" Freefall ≤ 1800 Lbf	1335.7 Lbf	Pass
	Visual Indicator Clear Evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.6.2	Max Arrest Dual Configuration ≤ 1800 Lbf	1734.5 Lbf	Pass
	Visual Indicator Clear Evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.6.2	Max Arrest Dual Configuration ≤ 1800 Lbf	1705.9 Lbf	Pass
	Visual Indicator Clear Evidence of Impact	Clear Evidence	Pass

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Part No.	82709SA1/82709TB1			Part No. Revision	F/F		
Part Description	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg						
Test Request No.	PC-2731			Date Complete	11/16/2022		

Test Summary (Continued)

Test Specification	Test Criteria	Test Result	Pass/Fail	
ANSI Z359.14-2021 4.6.2	Max Arrest Dual Configuration	≤ 1800 Lbf	1763.6 Lbf	Pass
	Visual Indicator	Clear Evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	814.7 lbF	Pass
	Avg Arrest Force	≤ 1350 Lbf	665.5 lbF	Pass
	Arrest Distance	≤ 42"	35.5"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	721.1 lbF	Pass
	Avg Arrest Force	≤ 1350 Lbf	544.8 lbF	Pass
	Arrest Distance	≤ 42"	41.5"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	659.2 lbF	Pass
	Avg Arrest Force	≤ 1350 Lbf	587.4 lbF	Pass
	Arrest Distance	≤ 42"	38.4"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.7 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	937.7 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	688.3 lbF	Pass
	Arrest Distance	≤ 42"	34.1"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.7 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	1084.8 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	800.9 lbF	Pass
	Arrest Distance	≤ 42"	30.3"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.7 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	943.6 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	729.8 lbF	Pass
	Arrest Distance	≤ 42"	32.6"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.8 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	892.9 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	648.4 lbF	Pass
	Arrest Distance	≤ 42"	37.4"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.8 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	896.1 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	678.1 lbF	Pass
	Arrest Distance	≤ 42"	34.1"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass

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Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification(s)	ANSI Z359.14-2021: 4.2.1, 4.2.3, 4.3.1, 4.3.2, 4.4, 4.5.1, 4.6.1				
Part No.	82709SA1/82709TB1			Part No. Revision	F/F		
Part Description	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg						
Test Request No.	PC-2731			Date Complete	11/16/2022		

Test Summary (Continued)

Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.14-2021 4.3.1.8 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	709.8 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	576.4 lbF	Pass
	Arrest Distance	≤ 42"	35.3"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.9 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	898.5 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	714.9 lbF	Pass
	Arrest Distance	≤ 42"	32.8"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.9 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	1461.0 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	892.6 lbF	Pass
	Arrest Distance	≤ 42"	28.3"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.9 Attached to Anchor	Max Arrest Force	≤ 1800 Lbf	1398.5 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	886.9 lbF	Pass
	Arrest Distance	≤ 42"	30.6"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	954.3 lbF	Pass
	Avg Arrest Force	≤ 1350 Lbf	674.4 lbF	Pass
	Arrest Distance	≤ 42"	36.9"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	831.3 lbF	Pass
	Avg Arrest Force	≤ 1350 Lbf	634.8 lbF	Pass
	Arrest Distance	≤ 42"	40.8"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	740.8 lbF	Pass
	Avg Arrest Force	≤ 1350 Lbf	618.7 lbF	Pass
	Arrest Distance	≤ 42"	35.6"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.7 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	1007.5 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	766.7 lbF	Pass
	Arrest Distance	≤ 42"	30.4"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass

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Part No.	82709SA1/82709TB1			Part No. Revision	F/F		
Part Description	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg						
Test Request No.	PC-2731			Date Complete	11/16/2022		

Test Summary (Continued)

Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.14-2021 4.3.1.7 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	821.0 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	684.7 lbF	Pass
	Arrest Distance	≤ 42"	35.8"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.7 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	1135.4 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	841.3 lbF	Pass
	Arrest Distance	≤ 42"	30.8"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.8 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	943.0 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	662.8 lbF	Pass
	Arrest Distance	≤ 42"	38.7"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.8 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	868.0 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	620.6 lbF	Pass
	Arrest Distance	≤ 42"	36.9"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.8 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	743.4 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	576.9 lbF	Pass
	Arrest Distance	≤ 42"	40.3"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.9 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	1117.5 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	886.2 lbF	Pass
	Arrest Distance	≤ 42"	29.1"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.9 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	1101.8 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	888.6 lbF	Pass
	Arrest Distance	≤ 42"	29.7"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass
ANSI Z359.14-2021 4.3.1.9 Attached to Weight	Max Arrest Force	≤ 1800 Lbf	1082.7 lbF	Pass
	Avg Arrest Force	≤ 1575 Lbf	903.3 lbF	Pass
	Arrest Distance	≤ 42"	29.9"	Pass
	Visual Indicator	Clear evidence of Impact	Clear Evidence	Pass

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Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification(s)	ANSI Z359.14-2021: 4.2.1, 4.2.3, 4.3.1, 4.3.2, 4.4, 4.5.1, 4.6.1				
Part No.	82709SA1/82709TB1			Part No. Revision	F/F		
Part Description	9' Web Max SRD Single-leg / 9' Web Max SRD Twin-leg						
Test Request No.	PC-2731			Date Complete	11/16/2022		


Test Summary (Continued)

Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.14-2021 4.5.1	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 48" Extended	2.2 lbF	Pass
	Retraction Tension 50% Extracted	1.25 Lbf - 25 Lbf ≤ 48" Extended	4.1 lbF	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 48" Extended	4.6 lbF	Pass
ANSI Z359.14-2021 4.5.1	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 48" Extended	2.3 lbF	Pass
	Retraction Tension 50% Extracted	1.25 Lbf - 25 Lbf ≤ 48" Extended	3.1 lbF	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 48" Extended	5.7 lbF	Pass
ANSI Z359.14-2021 4.5.1	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 48" Extended	2.2 lbF	Pass
	Retraction Tension 50% Extracted	1.25 Lbf - 25 Lbf ≤ 48" Extended	3.1 lbF	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 48" Extended	5.2 lbF	Pass

Conclusion

Based upon the samples provided to the Lab:
 FallTech P/N 82709SA1 Rev. F & 82709TB1 Rev. F meet the requirements of ANSI Z359.14-2021

Report Signatories and Approval

Lab Quality Manager		Date	11/18/2022
Witnessed by	Not Required	Date	N/A



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

Prepared by: Andrew Haines _____
Technologist
Kinectrics Inc

Approved by: Stephen Cress, P. Eng _____
Department Manager, DAM
Transmission and Distribution Technologies
Kinectrics Inc

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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 self-retracting 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
E _i , 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.