# **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 # B1215059g **Declaration Date** 12/23/2015

**Arc Flash Construction Climbing FBH 3D+FD** 8073RFDM Tested Item #

Additional Items Conforming Under this Declaration: 8073RFDS 8073RFDL 8073RFDXL 8073FDS 8073FDM 8073FDL 8073FDXL 8073RS 8073RM 8073RXL 8073RL 8073R2X 8073R3X 8073R4X 8073S 8073M 8073L 8073XL 8073QCS 8073QCM 8073QCL 8073QCXL 8073QC2X 8073QC3X

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

#### ANSI Z359.11-2014 and ASTM F887-13

Conformity Assessment Method in accordance with ANSI/ISEA 125-2014 Level 1 Level 2 Level 3 Х

**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

Name

PC-0762

K-418809-1509H13-R00

PC-0762HF

**Authorized Signature** 

Zachary Winters

**Engineering Manager** 

10/13/2020

International Accreditation Service, Inc 3060 Saturn St, Ste 100

Brea, CA 92821 +1 562-364-8201

FallTech Lab - TL-594 ISO/IEC 17025:2005

Alexander Andrew Inc dba FallTech



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

FallTech Test Report							
Test Report Number	PC-0762	PC-0762 <b>Date</b> 12/23/2015 <b>Rev Rev Date</b>					
Report Prepared For	FallTech	ıllTech					
Initiated By	Dan Redden	an Redden			.6, 4.3.7		
Base Part #	8073RFD	Description	n	Full Body Hai	ness		
Proposed Part #	N/A	<b>Built By W</b>	hom	Production		ВОМ	NO
Test Request #	PC-0762	Date Received		11/10/2015	Date	Complete	12/1/2015
Test Operator	Yesbet Sierra	Test Opera	itor	Oscar Jarami	llo		

	Material/Sample Identification
Sample ID	Description
2613393	Full Body Harness
2613383	Full Body Harness
2613382	Full Body Harness
2613384	Full Body Harness
2613376	Full Body Harness
2613386	Full Body Harness
2613388	Full Body Harness
2613387	Full Body Harness
2613394	Full Body Harness
2613378	Full Body Harness
2613389	Full Body Harness
2613364	Full Body Harness
2613385	Full Body Harness
2613380	Full Body Harness
2613381	Full Body Harness
2613390	Full Body Harness
2613373	Full Body Harness
2613375	Full Body Harness
2613392	Full Body Harness
2613377	Full Body Harness
2613372	Full Body Harness

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FallTech Test Report							
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date	
Report Prepared For	FallTech	allTech					
Initiated By	Dan Redden	Pan Redden Test Specification ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13				.6, 4.3.7	
Base Part #	8073RFD	Descriptio	n	Full Body Ha	rness		
Proposed Part #	N/A	Built By Whom		Production		BOM	NO
Test Request #	PC-0762	Date Recei	ived	11/10/2015	Date	Complete	12/1/2015

		Test Summary		
Test Specification	Test (	Criteria	Test Result	Pass/Fail
	Static Strength (Dorsal D-ring)	3600 LBf ≥ 1 Minute	3647.7 Lbf	Pass
	Static Strength (Dorsal D-ring)	Harness shall not release Test Torso	Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage ≤ 1"	0.0"	Pass
4.3.3	Tear Distance	Shall not tear further than adjacent eyelet	Did Not Tear	Pass
	Tearing	Straps shall not show any signs of tearing	Did Not Tear	Pass
	Static Strength (Dorsal D-ring)	3600 LBf ≥ 1 Minute	3635.1 Lbf	Pass
	Static Strength (Dorsal D-ring)	Harness shall not release Test Torso	Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage ≤ 1"	0.0"	Pass
	Tear Distance	Shall not tear further than adjacent eyelet	Did Not Tear	Pass
	Tearing	Straps shall not show any signs of tearing	Did Not Tear	Pass
	Static Strength (Dorsal D-ring)	3600 LBf ≥ 1 Minute	3635.7 Lbf	Pass
ANGL 7050 44 2046	Static Strength (Dorsal D-ring)	Harness shall not release Test Torso	Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage ≤ 1"	0.0"	Pass
7.3.3	Tear Distance	Shall not tear further than adjacent eyelet	Did Not Tear	Pass
	Tearing	Straps shall not show any signs of tearing	Did Not Tear	Pass

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FallTech Test Report								
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date		
Report Prepared For	FallTech	•	-					
Initiated By	Dan Redden	Test Spec	ification	ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13				
Base Part #	8073RFD	Description	n	Full Body Har	Full Body Harness			
Proposed Part #	N/A	<b>Built By W</b>	<b>Built By Whom</b>			BOM	NO	
Test Request #	PC-0762	Date Rece	Date Received		Date	Complete	12/1/2015	
ANSI 7250 11 2014	Static Strength (Sternal D-ring)	3600 LBf	3600 LBf ≥ 1 Minute		' Lbf	P	ass	
	Static Strength (Sternal D-ring)		Harness shall not release Test Torso		elease	P	ass	
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slipp	age ≤ 1"	0.0'		P	ass	
4.3.5	Tear Distance		ar further than ent eyelet	Did Not	Tear	Pass		
	Tearing		not show any of tearing	Did Not Tear		Pass		
	Static Strength (Sternal D-ring)	3600 LBf	<sup>1</sup> ≥1 Minute	3651.4 Lbf		Pass		
ANSI Z359.11-2014	Static Strength (Sternal D-ring)		Harness shall not release Test Torso		Did Not Release		Pass	
4.3.5	Adjuster Slippage	Slipp	age ≤ 1"	0.0'	п	Pass		
4.5.5	Tear Distance		ar further than ent eyelet	Did Not	Tear	Pass		
	Tearing		not show any of tearing	Did Not	Tear	Pass		
	Static Strength (Sternal D-ring)	3600 LBf	<sup>1</sup> ≥1 Minute	3656.3	Lbf	P	ass	
ANCI 7250 44 2044	Static Strength (Sternal D-ring)		all not release Torso	Did Not R	elease	P	ass	
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slipp	age ≤ 1"	0.0'	"	P	ass	
4.5.5	Tear Distance		ar further than ent eyelet	Did Not Tear		Pass		
	Tearing		not show any of tearing	Did Not	Tear	P	ass	

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	FallTech Test Report						
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date	
Report Prepared For	FallTech	Duto	12/20/2010	1.01		Nov Date	
Initiated By	Dan Redden	Test Spec	ification	ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13			6, 4.3.7
Base Part #	8073RFD	Description	Description		rness		
Proposed Part #	N/A	<b>Built By W</b>	Built By Whom			BOM	NO
Test Request #	PC-0762	Date Rece	eived	11/10/2015	Date	Complete	12/1/2015
	Static Strength (Side D-ring)	3600 LB1	<sup>1</sup> ≥1 Minute	3657.3	3 Lbf	Р	ass
ANSI Z359.11-2014	Static Strength (Side D-ring)		all not release t Torso	Did Not F	Release	Р	ass
ANSI 2359.11-2014 4.3.5	Adjuster Slippage	Slipp	age ≤ 1"	0.0	"	P	ass
4.5.5	Tear Distance		ar further than ent eyelet	Did Not	: Tear	Pass	
	Tearing		not show any of tearing	Did Not Tear		Р	ass
	Static Strength (Side D-ring)	3600 LB1	<sup>1</sup> ≥1 Minute	3687.9 Lbf		Р	ass
ANG 7250 44 2044	Static Strength (Side D-ring)		all not release t Torso	llease Did Not Release		Р	ass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slipp	age ≤ 1"	0.0	11	Pass	
4.3.3	Tear Distance		ar further than ent eyelet	Did Not	: Tear	Р	ass
	Tearing		not show any of tearing	Did Not	Tear	Р	ass
	Static Strength (Side D-ring)	3600 LB1	E ≥ 1 Minute	3637.2	L Lbf	Р	ass
ANSI Z359.11-2014	Static Strength (Side D-ring)		all not release t Torso	Did Not F	Release	Р	ass
ANSI 2359.11-2014 4.3.5	Adjuster Slippage	Slipp	age ≤ 1"	0.0	"	P	ass
4.3.5	Tear Distance		ar further than ent eyelet	Did Not Tear		P	ass
	Tearing		not show any of tearing	Did Not	: Tear	P	ass

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	FallTech Test Report						
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Speci	ification	ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13			
Base Part #	8073RFD	Descriptio	n	Full Body Ha	rness		
Proposed Part #	N/A	<b>Built By W</b>	hom .	Production		BOM	NO
Test Request #	PC-0762	Date Rece	ived	11/10/2015	Date	Complete	12/1/2015
ANSI Z359.11-2014 4.3.3	Dynamic Performance Dorsal D-ring		pact Load 500 Lbf	7296.7 Lbf		Р	ass
	Dynamic Performance Dorsal D-ring		II Not Release Torso	Did Not I	Release	Р	ass
	Dynamic Performance Dorsal D-ring	Remain Suspended for		5 Minutes		Pass	
	Dynamic Performance Dorsal D-ring	Angle at Rest ≤ 30°		5.45°		Pass	
	Dynamic Performance Dorsal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently		Visibly and Po	•	Р	ass
	Dynamic Performance Dorsal D-ring		etch Shall Not ed 18"	8.88"		Р	ass
	Dynamic Performance Dorsal D-ring		pact Load 500 Lbf	6439.8	8 Lbf	Р	ass
	Dynamic Performance Dorsal D-ring		III Not Release Torso	Did Not I	Release	Р	ass
	Dynamic Performance Dorsal D-ring		ispended for Minutes	5 Min	utes	Р	ass
ANSI Z359.11-2014 4.3.3	Dynamic Performance Dorsal D-ring		Rest ≤ 30°	1.15°		Р	ass
	Dynamic Performance Dorsal D-ring	Indicato Deployed	ne Fall Arrest or Shall Be I Visibly and anently	Visibly and Po	-	P	ass
	Dynamic Performance Dorsal D-ring		etch Shall Not ed 18"	9.84	4"	Р	ass

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	FallTech Test Report						
Test Report Number	PC-0762	Date	12/23/2015	_		Rev Date	
Report Prepared For	FallTech			ı			
Initiated By	Dan Redden	Test Spec	ification	ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13			6, 4.3.7
Base Part #	8073RFD	Description		Full Body Ha	rness		
Proposed Part #	N/A	Built By Whom		Production		BOM	NO
Test Request #	PC-0762	Date Rece	ived	11/10/2015	Date	Complete	12/1/2015
	Dynamic Performance Dorsal D-ring		pact Load 500 Lbf	7624.9 Lbf		Р	ass
ANSI Z359.11-2014 4.3.3	Dynamic Performance Dorsal D-ring		all Not Release : Torso	Did Not I	Release	Р	ass
	Dynamic Performance Dorsal D-ring	Remain Suspended for > 5 Minutes		5 Minutes		Pass	
	Dynamic Performance Dorsal D-ring	Angle at Rest ≤ 30°		2.40°		Pass	
	Dynamic Performance Dorsal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently		Visibly and Permanently Deployed		P	ass
	Dynamic Performance Dorsal D-ring		etch Shall Not ed 18"	11.40"		Р	ass
	Dynamic Performance Sternal D-ring		pact Load 600 Lbf	3528.	7 Lbf	Р	ass
	Dynamic Performance Sternal D-ring		all Not Release : Torso	Did Not I	Release	Р	ass
ANG 7250 44 2044	Dynamic Performance Sternal D-ring		uspended for Minutes	5 Min	utes	Р	ass
ANSI Z359.11-2014 4.3.3	Dynamic Performance Sternal D-ring	_	Rest <u>&lt;</u> 30°	23.4	15°	P	ass
	Dynamic Performance Sternal D-ring	Indicato Deployed	ne Fall Arrest or Shall Be I Visibly and anently	Visibly and Po	-	P	ass
	Dynamic Performance Sternal D-ring	Harness Stretch Shall Not Exceed 18"		14.6	54"	Р	ass

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	FallTech Test Report						
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date	
Report Prepared For	FallTech				•		
Initiated By	Dan Redden	Test Speci	ification	ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13			
Base Part #	8073RFD	Descriptio	n	Full Body Ha	rness		
Proposed Part #	N/A	<b>Built By W</b>	hom .	Production		BOM	NO
Test Request #	PC-0762	<b>Date Rece</b>	ived	11/10/2015	Date	Complete	12/1/2015
ANSI Z359.11-2014 4.3.3	Dynamic Performance Sternal D-ring		pact Load 500 Lbf	3540.3	3 Lbf	Р	ass
	Dynamic Performance Sternal D-ring		II Not Release Torso	Did Not I	Release	Р	ass
	Dynamic Performance Sternal D-ring	Remain Suspended for		5 Minutes		Pass	
	Dynamic Performance Sternal D-ring	Angle at Rest ≤ 30°		21.80°		Р	ass
	Dynamic Performance Sternal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently		Visibly and Po	•	Р	ass
	Dynamic Performance Sternal D-ring		etch Shall Not ed 18"	13.68"		Р	ass
	Dynamic Performance Sternal D-ring		pact Load 500 Lbf	4232.8	8 Lbf	Р	ass
	Dynamic Performance Sternal D-ring		III Not Release Torso	Did Not I	Release	Р	ass
	Dynamic Performance Sternal D-ring		ispended for Minutes	5 Min	utes	Р	ass
ANSI Z359.11-2014 4.3.3	Dynamic Performance Sternal D-ring		Rest ≤ 30°	23.90°		Р	ass
	Dynamic Performance Sternal D-ring	Indicato Deployed	ne Fall Arrest or Shall Be I Visibly and anently	Visibly and Po	-	P	ass
	Dynamic Performance Sternal D-ring	Harness Str	etch Shall Not ed 18"	11.4	40"	P	ass

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	FallTech Test Report						
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13				.6, 4.3.7	
Base Part #	8073RFD	Descriptio	n	Full Body Ha	rness		
Proposed Part #	N/A	Built By Whom		Production		BOM	NO
Test Request #	PC-0762	<b>Date Rece</b>	ived	11/10/2015	Date	Complete	12/1/2015
		Test Info	ormation				
Description of Test		Static Strength Test, Dorsal D-ring, Full Body Harness					
Test Method			ANSI Z359.1	.1-2014 4.3.5			
Acceptance Criteria			ANSI Z359.11	-2014 3.2.1.3.3	}		
Test Procedure			TI-	-090			
Conditioning Requirements	Not Applicable	9	Actual C	onditions Not Applicable		le	
Time Removed from Conditioning	Not Applicable Time		Tested Not Applicable				
Test Environment			67.7° F / 5	52.4 % R.H.			
Test By	Yesbe	t Sierra		Test I	Date	11/2	4/2015

Equipment Used							
Equipment Used	Size/Type	Control Number	Calibration Date				
Test Torso	220 Lbs.	TOR220	4/16/2014				
Load Cell	10,000 Lbs.	221731	10/27/2015				
Caliper	x0.001"	ALE-95796	4/25/2015				

Test Results									
Sample ID	Characteristic	Criteria	Criteria Test Data						
	Static Strength (Dorsal D-ring)	3600 LBf ≥ 1 Minute	3600 LBf ≥ 1 Minute 3647.7 Lbf						
	Static Strength (Dorsal D-ring)	Harness shall not release Test Torso	Did Not Release	Pass					
2613393	Adjuster Slippage	Slippage ≤ 1"	0.0"	Pass					
	Tear Distance	Shall not tear further than adjacent eyelet	Did Not Tear	Pass					
	Tearing	Straps shall not show any signs of tearing	Did Not Tear	Pass					

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

www.failtecn.com								
	Fal	ITech T	est Rep	ort				
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date		
Report Prepared For	FallTech							
Initiated By	Dan Redden	Test Speci	i lest specification		ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13			
Base Part #	8073RFD	Descriptio	n	Full Body Hai	ness			
Proposed Part #	N/A	<b>Built By W</b>	hom .	Production		ВОМ	NO	
Test Request #	PC-0762	<b>Date Rece</b>	ived	11/10/2015	Date	Complete	12/1/2015	
	Static Strength (Dorsal D-ring)	3600 LBf	≥1 Minute	3635.1 Lbf		Pass		
	Static Strength (Dorsal D-ring)	Harness shall not release Test Torso		Did Not Release		Pass		
2613383	Adjuster Slippage	Slippage ≤ 1"		0.0	II .	Pa	ass	
	Tear Distance		Shall not tear further than adjacent eyelet		Did Not Tear		ass	
	Tearing		not show any of tearing	Did Not Tear Pass		ass		
	Static Strength (Dorsal D-ring)	3600 LBf	≥1 Minute	3635.7	' Lbf	Pa	ass	
	Static Strength (Dorsal D-ring)		all not release Torso	Did Not F	telease	Pa	ass	
2613382	Adjuster Slippage	Slippa	age ≤ 1"	0.0	II .	Pa	ass	
	Tear Distance		ar further than nt eyelet	Did Not	Tear	Pa	ass	
	Tearing	Straps shall not show any signs of tearing  Did Not Tear		Tear	Pa	ass		

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	FallTech Test Report								
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date			
Report Prepared For	FallTech	allTech							
Initiated By	Dan Redden	an Redden				5, 4.3.3, 4.3.	6, 4.3.7		
Base Part #	8073RFD	Description	n	Full Body Harness					
Proposed Part #	N/A	/A <b>Built By Whom</b> Production				BOM	NO		
Test Request #	PC-0762	C-0762 Date Received 11/10/2015 Date Comp				Complete	12/1/2015		
Test Information									
Description of Test		Static Strength Test, Sternal D-ring, Full Body Harness							
Test Method		ANSI Z359.11-2014 4.3.5							
Acceptance Criteria			ANSI Z359.11	-2014 3.2.2.3.2	)				
Test Procedure			TI-	-092					
Conditioning Requirements	Not Applicable	e	Actual C	onditions	Not Applicable		le		
Time Removed from Conditioning	Not Applicable	e	Time '	Tested		Not Applicab	le		
Test Environment			68.3° F /	54.0 % R.H.					
Test By	Yesbe	t Sierra		Test I	Date	11/2	4/2015		
		Equipm	ent Used						
Fauinment Used	Size	/Tyne		Control N	lumber	Calibra	tion Date		

Equipment Used							
Equipment Used	Size/Type	Control Number	Calibration Date				
Test Torso	220 Lbs.	TOR220	4/16/2014				
Load Cell	10,000 Lbs.	221731	10/27/2015				
Caliper	x0.001"	ALE-95796	4/25/2015				

	Test Results								
Sample ID	Characteristic	Criteria	Test Data	Pass/Fail					
	Static Strength (Sternal D-ring)	3600 LBf ≥ 1 Minute	3634.7 Lbf	Pass					
	Static Strength (Sternal D-ring)	Harness shall not release Test Torso Did Not Release		Pass					
2613384	Adjuster Slippage	Slippage ≤ 1"	0.0"	Pass					
	Tear Distance	Shall not tear further than adjacent eyelet	Did Not Tear	Pass					
	Tearing	Straps shall not show any signs of tearing	Did Not Tear	Pass					

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www.failtecn.com								
	Fal	ITech T	est Rep	ort				
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date		
Report Prepared For	FallTech							
Initiated By	Dan Redden	Test Speci	i lesi specification		ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13			
Base Part #	8073RFD	Descriptio	n	Full Body Hai	ness			
Proposed Part #	N/A	<b>Built By W</b>	hom .	Production		ВОМ	NO	
Test Request #	PC-0762	<b>Date Rece</b>	ived	11/10/2015	Date	Complete	12/1/2015	
	Static Strength (Sternal D-ring)	3600 LBf	≥1 Minute	3651.4	- Lbf	Pass		
	Static Strength (Sternal D-ring)	Harness shall not release Test Torso		Did Not Release		Pass		
2613376	Adjuster Slippage	Slippage ≤ 1"		0.0	I	Pa	ass	
	Tear Distance	Shall not tear further than adjacent eyelet		Did Not Tear		Pa	ass	
	Tearing	•	not show any of tearing	Did Not Tear		Pass		
	Static Strength (Sternal D-ring)	3600 LBf	≥1 Minute	3656.3	Lbf	Pa	ass	
	Static Strength (Sternal D-ring)		all not release Torso	Did Not F	elease	Pa	ass	
2613386	Adjuster Slippage	Slippa	age ≤ 1"	0.0	1	Pa	ass	
	Tear Distance		ar further than nt eyelet	Did Not	Tear	Pa	ass	
	Tearing		not show any of tearing	Did Not	Tear	Pass		

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**Load Cell** 

Caliper

# **FallTech Testing Laboratory**

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

10/27/2015

4/25/2015

	FallTech Test Report								
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date			
Report Prepared For	FallTech								
Initiated By	iDali Neudeli II est specification I		ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13						
Base Part #	8073RFD	3RFD <b>Description</b> F		Full Body Hai	Full Body Harness				
Proposed Part #	N/A <b>Built By Whom</b> Pr			Production		BOM	NO		
Test Request #	PC-0762	Date Rece	ived	11/10/2015	Date	Complete	12/1/2015		
Test Information									
Description of Test	Static Strength Test, Side D-ring, Full Body Harness								
Test Method	ANSI Z359.11-2014 4.3.5								
Acceptance Criteria	ANSI Z359.11-2014 3.2.6.1.1								
Test Procedure			TI-	097					
Conditioning Requirements	Not Applicable	9	Actual Co	onditions		Not Applicable			
Time Removed from Conditioning	Not Applicable	9	Time <sup>-</sup>	Tested		Not Applicable			
Test Environment			71.3°F /	39.0% RH					
Test By	Yesbe	t Sierra		Test [	Date	11/1	9/2015		
		Equipme	ent Used						
Equipment Used	Size	/Type		Control N	lumber	Calibra	tion Date		
Test Torso	220	Lbs.		TOR220 4/16/2014		/2014			

	Test Results								
Sample ID	Characteristic	Criteria Test Data		Pass/Fail					
	Static Strength (Side D-ring)	3600 LBf ≥ 1 Minute	3657.3 Lbf	Pass					
	Static Strength (Side D-ring)	Harness shall not release Test Torso	Did Not Release						
2613388	Adjuster Slippage	Slippage ≤ 1"	0.0"	Pass					
	Tear Distance	Shall not tear further than adjacent eyelet	Did Not Tear	Pass					
	Tearing	Straps shall not show any signs of tearing	Did Not Tear	Pass					

221731

ALE-95796

10,000 Lbs.

x0.001"

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	FallTech Test Report									
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date				
Report Prepared For	FallTech	•								
Initiated By	Dan Redden	Test Speci	i lest specification		ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13					
Base Part #	8073RFD	Descriptio	n	Full Body Hai	ness					
Proposed Part #	N/A	<b>Built By W</b>	hom .	Production		ВОМ	NO			
Test Request #	PC-0762	<b>Date Rece</b>	ived	11/10/2015	Date	Complete	12/1/2015			
	Static Strength (Side D-ring)	3600 LBf	≥1 Minute	3687.9 Lbf		Pass				
	Static Strength (Side D-ring)	Harness shall not release Test Torso		Did Not Release		Pass				
2613387	Adjuster Slippage	Slippage ≤ 1"		0.0	11	Pa	ass			
	Tear Distance		Shall not tear further than adjacent eyelet		Did Not Tear		ass			
	Tearing	•	not show any of tearing	Did Not Tear		Pass				
	Static Strength (Side D-ring)	3600 LBf	≥1 Minute	3637.1	Lbf	Pa	ass			
	Static Strength (Side D-ring)		all not release Torso	Did Not Release		Pass				
2613394	Adjuster Slippage	Slippa	age ≤ 1"	0.0	"	Pa	ass			
	Tear Distance		ar further than nt eyelet	Did Not	Tear	Pa	ass			
	Tearing	•	not show any of tearing	Did Not	Tear	Pass				

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r airreoir rest Keport									
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date			
Report Prepared For	FallTech								
nitiated By	Dan Redden	Test Spec	ification	ANSI Z359.1 ASTM F887-	1-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 13				
Base Part #	8073RFD	Descriptio	n	Full Body Hai	ness				
Proposed Part #	N/A	<b>Built By W</b>	/hom	Production		BOM	NO		
Test Request #	PC-0762	<b>Date Rece</b>	ived	11/10/2015	Date	Complete	12/1/2015		
	_		ormation						
Description of Test	Dynan	nic Performar	nce Test, Dorsal	D-ring, Full Boo	dy Harness, F	eet First			
Test Method		ANSI Z359.11-2014 4.3.3							
Acceptance Criteria			ANSI Z359.11	-2014 3.2.1.3.1					
Test Procedure			TI-	-088					
Conditioning Requirements	Not Applicabl	e	Actual Conditions			Not Applicab	le		
Time Removed from Conditioning	Not Applicabl	e <b>Time 1</b>		Tested	Not Applicable		le		
Test Environment	73.1°F / 49.9% RH								
Test By	Yesbe	Yesbet Sierra			Date	11/2	1/2015		
		Equipme	ent Used						
Equipment Used	Size	/Туре					tion Date		
Test Torso	220	Lbs.		TOR	220	4/16	4/16/2014		
Altimeter	10	0 Ft		26230		4/17/2015			
Digital Protractor	0	).1°		CP120266		6/18/2015			
Stop Watch	0.0	01%		14083	9448	12/3	0/2014		
		Test R	Results						
Sample ID	Characteristic	Cr	iteria	Test [	Data	Pas	s/Fail		
	Dynamic Performance Dorsal D-ring		pact Load 600 Lbf	7296.7	Lbf	Р	ass		
	Dynamic Performance Dorsal D-ring		all Not Release Torso	Did Not F	Release	Р	ass		
	Dynamic Performance Dorsal D-ring		uspended for Minutes	r 5 Minutes		Р	ass		
2613378	Dynamic Performance Dorsal D-ring	_	: Rest <u>&lt;</u> 30°	5.45	j°	Р	ass		
	Dynamic Performance Dorsal D-ring	Indicato	ne Fall Arrest or Shall Be I Visibly and	Visibly and Pe		Pass			

**FallTech Test Report** 

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Permanently

Harness Stretch Shall Not

Exceed 18"

8.88"

Dynamic Performance

Dorsal D-ring

FallTech Testing Laboratory allows for a +/- 5% tolerance on dynamic performance and static strength test results.



Pass



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	FallTech Test Report								
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date			
Report Prepared For	FallTech				I.				
Initiated By	Dan Redden	Test Spec	ification	ANSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 ASTM F887-13					
Base Part #	8073RFD	Description	on	Full Body Ha	rness				
Proposed Part #	N/A	<b>Built By W</b>	/hom	Production		BOM	NO		
Test Request #	PC-0762	<b>Date Rece</b>	eived	11/10/2015	Date	Complete	12/1/2015		
	Dynamic Performance Dorsal D-ring		npact Load 600 Lbf	6439.8 Lbf		Р	ass		
2613389	Dynamic Performance Dorsal D-ring	Harness Shall Not Release Test Torso		Did Not I	Release	Р	ass		
	Dynamic Performance Dorsal D-ring	Remain Suspended for > 5 Minutes		5 Minutes		Pass			
	Dynamic Performance Dorsal D-ring	Angle at	t Rest <u>&lt;</u> 30°	1.1	5°	Р	ass		
	Dynamic Performance Dorsal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently		Visibly and Permanently Deployed		P	ass		
	Dynamic Performance Dorsal D-ring	Harness Str	etch Shall Not eed 18"	9.84"		Р	ass		
	Dynamic Performance Dorsal D-ring		npact Load 600 Lbf	7624.9	9 Lbf	Р	ass		
	Dynamic Performance Dorsal D-ring		all Not Release t Torso	Did Not I	Release	Р	ass		
	Dynamic Performance Dorsal D-ring		uspended for Minutes	5 Min	utes	Р	ass		
2613364	Dynamic Performance Dorsal D-ring		t Rest <u>&lt;</u> 30°	2.4	0°	Р	ass		
	Dynamic Performance Dorsal D-ring	Indicate Deployee	ne Fall Arrest or Shall Be d Visibly and nanently	Visibly and Po	-	P	ass		
	Dynamic Performance Dorsal D-ring		retch Shall Not eed 18"	11.4	.0"	P	ass		

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	FallTech Test Report									
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date				
Report Prepared For	FallTech									
Initiated By	Dan Redden	Dan Redden Test Specification ANSI Z359.11-2014 4.3.5, 4.3.3 ASTM F887-13			5, 4.3.3, 4.3	.6, 4.3.7				
Base Part #	8073RFD	73RFD <b>Description</b>			ness					
Proposed Part #	N/A	Built By Whom		Production		BOM	NO			
Test Request #	PC-0762	C-0762 Date Received 11/10/2015 Date Complete				Complete	12/1/2015			
Test Information										
Description of Test	Dynamic Performance Test, Sternal D-ring, Full Body Harness, Feet First									
Test Method	ANSI Z359.11-2014 4.3.3									
Acceptance Criteria			ANSI Z359.11	-2014 3.2.2.3.1						
Test Procedure			TI	-091						
Conditioning Requirements	Not Applicable	2	Actual C	onditions		Not Applicab	le			
Time Removed from Conditioning	Not Applicable	9	Time	Tested Not Applicable		le				
Test Environment			72.4°F /	49.3% RH						
Test By	Yesbe	t Sierra		Test I	Date	11/2	4/2015			
		Equipm	ent Used							
			=qaipinoin occa							

Equipment Used							
Equipment Used	Size/Type	Control Number	Calibration Date				
Test Torso	220 Lbs.	TOR220	4/16/2014				
Altimeter	100 Ft	26230	4/17/2015				
Digital Protractor	0.1°	CP120266	6/18/2015				
Stop Watch	0.001%	140839448	12/30/2014				

		Test Results			
Sample ID	Characteristic	Criteria	Test Data	Pass/Fail	
	Dynamic Performance	Peak Impact Load	3528.7 Lbf	Pass	
	Sternal D-ring	<u>&gt;</u> 3,600 Lbf	3320.7 Lb1	1 033	
	Dynamic Performance	Harness Shall Not Release	Did Not Release	Pass	
	Sternal D-ring	Test Torso	Did Not Nelease	r a55	
	Dynamic Performance	Remain Suspended for	5 Minutes	Pass	
2613385	Sternal D-ring	≥ 5 Minutes	3 Williates	rass	
2013383	Dynamic Performance	Angle at Rest < 30°	23.45°	Pass	
	Sternal D-ring	Aligie at Nest < 30	23.43	F d S S	
	Dynamic Performance	At Least One Fall Arrest	Visibly and Permanently	Pass	
	Sternal D-ring	Indicator Shall Be	Deployed	F d S S	
	Dynamic Performance	Harness Stretch Shall Not	14.64"	Pass	
	Sternal D-ring	Exceed 18"	14.04	1 033	

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						VV	ww.falltecn.cor
	Fall	ITech T	est Rep	ort			
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date	
Report Prepared For	FallTech				<u>_</u>		
Initiated By	Dan Redden	Test Speci	fication	ANSI Z359.11 ASTM F887-1		5, 4.3.3, 4.3	.6, 4.3.7
Base Part #	8073RFD	Descriptio	n	Full Body Har	ness		
Proposed Part #	N/A	<b>Built By W</b>	hom .	Production		BOM	NO
Test Request #	PC-0762	Date Rece	ived	11/10/2015	Date	Complete	12/1/2015
	Dynamic Performance Sternal D-ring	<u>≥</u> 3,6	pact Load 500 Lbf	3540.3	Lbf	F	ass
	Dynamic Performance Sternal D-ring	Test	II Not Release Torso	Did Not Release		Pass	
2613380	Dynamic Performance Sternal D-ring	Remain Suspended for <u>&gt;</u> 5 Minutes		5 Minutes		Pass	
2013300	Dynamic Performance Sternal D-ring	Angle at Rest ≤ 30°		21.80°		Pass	
	Dynamic Performance Sternal D-ring		ne Fall Arrest or Shall Be	, ,		Pass	
	Dynamic Performance Sternal D-ring		etch Shall Not ed 18"	13.68	8"	Pass	
	Dynamic Performance Sternal D-ring		pact Load 600 Lbf	4232.8	Lbf	P	ass ass
	Dynamic Performance Sternal D-ring		II Not Release Torso	Did Not R	elease	Pass	
2642204	Dynamic Performance Sternal D-ring	Remain Suspended for > 5 Minutes		5 Minutes Pass		ass ass	
2613381	Dynamic Performance Sternal D-ring	Angle at	Rest < 30°	23.9	0°	P	ass ·
	Dynamic Performance Sternal D-ring		ne Fall Arrest or Shall Be			P	ass
	Dynamic Performance Sternal D-ring		etch Shall Not ed 18"	11.40		P	ass ass

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	FallTech Test Report						
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	rest opecification		ANSI Z359.1 ASTM F887-	NSI Z359.11-2014 4.3.5, 4.3.3, 4.3.6, 4.3.7 STM F887-13		
Base Part #	8073RFD	Descriptio	n	Full Body Ha	rness		
Proposed Part #	N/A	<b>Built By W</b>	hom .	Production		BOM	NO
Test Request #	PC-0762	<b>Date Rece</b>	ived	11/10/2015	Date	Complete	12/1/2015
Test Information							
Description of Test		Fall Arrest Indicator Test, Dorsal D-ring, Full Body Harness					
Test Method			ANSI Z359.1	1-2014 4.3.6			
Acceptance Criteria			ANSI Z359.11	-2014 3.2.1.3.4	1		
Test Procedure			TI-	-099			
Conditioning Requirements	Not Applicable Actual Co		Conditions Not Applicable		le		
Time Removed from Conditioning	Not Applicable Time T		• Tested Not Applicable		ile		
Test Environment		60.4 °F / 34.2 % RH					
Test By	Yesbe	t Sierra		Test I	Date	12/1	./2015

Equipment Used						
Equipment Used	Size/Type	Control Number	Calibration Date			
Test Torso	220 Lbs.	TOR220	4/16/2014			
Altimeter	100 Ft	26230	4/17/2015			

		Test Results		
Sample ID	Characteristic	Criteria	Test Data	Pass/Fail
2613390	Fall Arrest Indicator Test Dorsal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently	Visibly and Permanently Deployed	Pass
2613373	Fall Arrest Indicator Test Dorsal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently	Visibly and Permanently Deployed	Pass
2613375	Fall Arrest Indicator Test Dorsal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently	Visibly and Permanently Deployed	Pass

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FallTech Test Report							
Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Speci	IICaliOII	ANSI Z359.1 ASTM F887-		5, 4.3.3, 4.3	.6, 4.3.7
Base Part #	8073RFD	Descriptio	n	Full Body Ha	rness		
Proposed Part #	N/A	<b>Built By W</b>	hom	Production		BOM	NO
Test Request #	PC-0762	Date Rece	ived	11/10/2015	Date	Complete	12/1/2015

	Test Info	ormation			
Description of Test	Fall Arrest Inc	dicator Test, Ste	ernal D-ring, Ful	l Body Harne	ess
Test Method		ANSI Z359.1	11-2014 4.3.6		
Acceptance Criteria		ANSI Z359.11	-2014 3.2.2.3.3		
Test Procedure	TI-099				
Conditioning Requirements	Not Applicable	Actual C	onditions	Not Applicable	
Time Removed from Conditioning	Not Applicable	Time Tested Not Applicable		Not Applicable	
Test Environment	64.2 °F / 30.9 % RH				
Test By	Yesbet Sierra		Test D	ate	12/1/2015

Equipment Used						
Equipment Used	Size/Type	Control Number	Calibration Date			
Test Torso	220 Lbs.	TOR220	4/16/2014			
Altimeter	100 Ft	26230	4/17/2015			

		Test Results		
Sample ID	Characteristic	Criteria	Test Data	Pass/Fail
2613392	Fall Arrest Indicator Test Sternal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently	Visibly and Permanently Deployed	Pass
2613377	Fall Arrest Indicator Test Sternal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently	Visibly and Permanently Deployed	Pass
2613372	Fall Arrest Indicator Test Sternal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently	Visibly and Permanently Deployed	Pass

#### **End of Report**

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 (refer to the joint ISO-ILAC-IAF Communique dated January 2009).





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Test Report Number	PC-0762	Date	12/23/2015	Rev		Rev Date			
Report Prepared For	FallTech								
Initiated By	Dan Redden	Test Spec	cification	ANSI Z359.11-2 ASTM F887-13	014 4.3.	5, 4.3.3, 4.3.	6, 4.3.7		
Base Part #	8073RFD	Description	on	Full Body Harne	ss				
Proposed Part #	N/A	Built By V	Vhom	Production		ВОМ	VO		
Test Request #	PC-0762	Date Rec	eived	11/10/2015	Date	Complete	12/1/2015		
ANSI Z359.11-2014 4.3.6	Fall Arrest Indicator Dorsal D-ring	Indicat Deploye	One Fall Arrest or Shall Be d Visibly and nanently	Visibly and Perm Deployed		Pa	iss		
ANSI Z359.11-2014 4.3.6	Fall Arrest Indicator Dorsal D-ring	At Least C Indicat Deploye Perr	One Fall Arrest or Shall Be d Visibly and nanently	Visibly and Perm Deployed	•	Pa	ass		
ANSI Z359.11-2014 4.3.6	Fall Arrest Indicator Dorsal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently		Visibly and Perm Deployed	,	Pass			
ANSI Z359.11-2014 4.3.6	Fall Arrest Indicator Sternal D-ring	Indicat Deploye	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and		anently	/ Pass			
ANSI Z359.11-2014 4.3.6	Fall Arrest Indicator Sternal D-ring	Permanently At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently		At Least One Fall Arrest Indicator Shall Be Deployed Visibly and		Visibly and Perm Deployed		Pa	ass
ANSI Z359.11-2014 4.3.6	Fall Arrest Indicator Sternal D-ring	At Least One Fall Arrest Indicator Shall Be Deployed Visibly and Permanently		Visibly and Perm Deployed	,	Pa	ass		
ANSI Z359.11-2014 4.3.7	Lanyard Parking Attachment Element	Disenga	gement load L20 Lbf	Previously test		Pa	ass		

#### Conclusion

FallTech P/N 8073RFD meets the requirements of ANSI Z359.11-2014 and ASTM F887-13.

	Report Signatories and Approval		
Lab Quality Manager	gay Spontols	Date	12/23/2015
		Don.	
Witnessed by	Ma Moul Pol A. FA	ON Date	12/29/15
	15 Eq. 100	I SIE	, , ,

This laboratory is accredited in accordance with the recognized International Standard \$50,000. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system in the joint ISO-IDAC/AF communique dated January 2009).

FallTech Testing Laboratory allows for a +/- 5% tolerance on dynamic





# 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

#### 8073RFDM, Full Body Harness

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

Kinectrics Inc. Report No.: K-418809-1509H13-R00

Item received: September 23, 2015 Test Date: September 23, 2015

Client representative:	Hugh Hoagland ArcWear	
Prepared by:	Andrew Haines Technologist Kinectrics Inc	
Approved by:	Claude Maurice Laboratory Mana	ger, HCL

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Kinectrics Inc

#### 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.

Kinectrics Inc., 800 Kipling Avenue, Toronto, Ontario, Canada

Sample description: Full Body Harness

Sample identification: 8073RFDM Material of webbing: Nomex

	Trial # 15-6260	
Mannequin	A – front exposure	B – back exposure
Item Serial #	N/A	N/A
Ei, cal/cm <sup>2</sup>	42.2	40.3
Afterflame	1	1
Ignition	N	N
Melting and dripping	N	N
Comment	Pass	Pass
	Trial # 15-6262	
Mannequin	A – front exposure	B – back exposure
Item Serial #	N/A	N/A
Ei, cal/cm²	42.8	41.0
Afterflame	1	1
Ignition	N	N
Melting and dripping	N	N
Comment	Pass	Pass
	Trial # 15-6263	
Mannequin	A – front exposure	B – back exposure
Item Serial #	N/A	N/A
Ei, cal/cm <sup>2</sup>	44.0	39.7
Afterflame	1.5	1.0
Ignition	N	N
Melting and dripping	N	N
Comment	Pass	Pass

#### **Conclusions**

The 8073RFDM Full Body Harness 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.