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	I		-		ANSI/ASSP Z359.	7-2019	
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	Alex	ander Andrev	v, Inc. 1306 S. Ala	meda St Comp	ton, CA 90221 (800) /19-4619	
De	claration #	B0413	153		Declaration Dat	a 4/13	3/2021
			AF Nylon N	Ivlon Const	truction Climbi	ing Belted	
Tested	Item # 7	050FDM	3D + FD Q(-			
Ado	ditional Items C	onforming Ur	nder this Declarati	on:			
)FDXL					
)FD2X					
7050	0FDL 7050)FD3X					
	Alexander Ar	the requ		e following p	listed above is in roduct standard(STM F887	-	with
		the requ	irements of the	e following pr 2014 & A	roduct standard(STM F887	s):	with
	Cont	the requ	irements of the	e following pr 2014 & As in accordance	roduct standard(s):	with
	Cont	the requ AN formity Asse	irements of the	e following pr 2014 & As in accordance	roduct standard(STM F887 e with ANSI/ISEA 1	s):	with
	Cont Lev Level 1: FallTe	the requ AN formity Asse vel 1	irements of the	e following pr 2014 & A in accordance el 2 X 2: FallTech Lab	roduct standard(STM F887 e with ANSI/ISEA 1 Level 3	s): 25-2014 ndependent 3rd	d Party La
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	Cont Lev Level 1: FallTe	the requ AN formity Asse vel 1	ISI Z359.11- essment Method Lev	e following pr 2014 & A in accordance el 2 X 2: FallTech Lab	stim F887	s): 25-2014 ndependent 3rd	d Party La
ISC	Conf Level 1: FallTe Outside the So D/IEC Standard 1	the requ AN formity Asse vel 1	irements of the ISI Z359.11- essment Method Lev Level 2 Withir ISO/IEC Sta	e following pr 2014 & A in accordance el 2 X 2: FallTech Lab the Scope of ndard 17025:20	stim F887	s): .25-2014 ndependent 3rd accredited to	d Party La
ISC	Conf Level 1: FallTe Outside the So D/IEC Standard 1	the requ AN formity Asse vel 1	irements of the ISI Z359.11- essment Method Lev Level 2 Withir ISO/IEC Sta	e following pr 2014 & A in accordance el 2 X 2: FallTech Lab the Scope of ndard 17025:20	stim F887	s): .25-2014 ndependent 3rd accredited to	d Party La
ISC	Conf Level 1: FallTe Outside the Sc D/IEC Standard 1 ting	the requ AN formity Asse vel 1	irements of the ISI Z359.11- essment Method Lev Level 2 Withir ISO/IEC Sta	e following pr 2014 & A in accordance el 2 X 2: FallTech Lab the Scope of ndard 17025:20 L03H04-R00	roduct standard(STM F887 e with ANSI/ISEA 1 Level 3 Level 3 ISO/IE	s): .25-2014 ndependent 3rd accredited to	d Party La
ISC	Cont Level 1: FallTe Outside the So O/IEC Standard 1 ting entation	the requ AN formity Asse vel 1	ISI Z359.11- ISI Z359.11- ISSMENT Method Lev Level 2 Withir ISO/IEC Sta K-580521-2:	e following pr 2014 & A in accordance el 2 X 2: FallTech Lab the Scope of ndard 17025:20 L03H04-R00	stim F887	s): .25-2014 ndependent 3rd accredited to	d Party La
ISC	Conf Level 1: FallTe Outside the Sc D/IEC Standard 1 ting entation	the requ AN formity Asse vel 1 cch Lab cope of 17025:2005 PC-2241	ISI Z359.11- ISI Z359.11- ISSMENT Method Lev Level 2 Withir ISO/IEC Sta K-580521-2:	e following pr 2014 & A in accordance el 2 X 2: FallTech Lab the Scope of ndard 17025:20 L03H04-R00	roduct standard(STM F887 e with ANSI/ISEA 1 Level 3 Level 3 ISO/IE	s): 25-2014 .25-2014 	d Party La
ISC Suppor Docum	Conf Level 1: FallTe Outside the Sc O/IEC Standard 1 ting entation Autho Zachary	the reque AN formity Asse vel 1 cch Lab cope of 17025:2005 PC-2241 orized Signa	ISI Z359.11- ISI Z359.11- ISSMENT Method Level 2 Withir ISO/IEC Sta K-580521-2: Iture Title	e following pr 2014 & A in accordance el 2 X 2: FallTech Lab the Scope of ndard 17025:20 L03H04-R00	roduct standard(STM F887 e with ANSI/ISEA 1 Level 3 Level 3 005 ISO/IE	s): 25-2014 25-2014 2014 2014 2014 2014 2014 2014 2014	d Party La
ISC Suppor Docum	Conf Level 1: FallTe Outside the Sc D/IEC Standard 1 ting entation	the requ AN formity Asse vel 1 cch Lab cope of 17025:2005 PC-2241 orized Signa v Winters	ISI Z359.11- ISI Z359.11- ISSMENT Method Level 2 Withir ISO/IEC Sta K-580521-2: Iture Title	e following pr 2014 & A in accordance el 2 X 2: FallTech Lab the Scope of ndard 17025:20 L03H04-R00	roduct standard(STM F887 e with ANSI/ISEA 1 Level 3 Level 3: I 005 ISO/IE	s): 25-2014 25-2014 25-2014 2014 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015 2015	d Party La



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FallTech Test Report							
Test Report No.	PC-2241	Rpt. Date	4/13/2021	Rpt. Rev		Rev Date	
Report Prepared For	FallTech	•					
Initiated By	Dan Redden	Test Specifi	cation(s)	ANSI Z359.1 ASTM F-887		3.5, 4.3.3, 4.3.4, 4.3	3.6
Part No.	7050FDM			Part No. Rev	vision	А	
Part Description	Arc Flash Nylon Construction	n Climbing Belt	ed FBH M 3D -	FD QC Legs/0	QC Chest	-	
Test Request No.	PC-2241			Date Compl	ete	4/8/2021	
Test Operator(s)	Yesbet Sierra / Jay Spont	nolz					
	Mate	erial/Sample	dentificati	on			
Sample ID			Descrip	otion			
5767848	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5767845	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706844	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706833	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706838	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706837	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5767846	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5767847	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5767839	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5767854	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706829	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706842	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706832	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706841	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706846	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
DPTS1	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706843	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706840	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5767853	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
5706828	Arc Flash	Arc Flash Nylon Construction Climbing Belted FBH M 3D + FD QC Legs/QC Chest					
DPTI1	Arc Flash	Nylon Construct	tion Climbing Be	ted FBH M 3D +	FD QC Legs/0	QC Chest	
Test Summary							

Test Summary						
Test Specification	Test	Criteria	Test Result	Pass/Fail		
	Static Strength (Dorsal D-ring)	3600 Lbf <u>></u> 1 Minute	3632.2 Lbf	Pass		
ANSI Z359.11-2014	Static Strength (Dorsal D-ring)	Harness Shall Not Release Test Torso	Did Not Release	Pass		
4.3.5	Adjuster Slippage	Slippage <u><</u> 1"	0.0"	Pass		
4.3.3	Tear Distance (Buckle)	Shall Not Tear a Distance > 1" or Adjacent Eyelet	Did Not Tear Through	Pass		
	Tearing	Straps Shall Not Show Any Signs of Tearing	Did Not Tear	Pass		





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FallTech Test Report					
Test Report No.	PC-2241	Rpt. Date	4/13/2021	Rpt. Rev	Rev Date
Report Prepared For	FallTech				
Initiated By	Dan Redden	Test Specific	cation(s)	ANSI Z359.11-2014: 4. ASTM F-887-18	3.5, 4.3.3, 4.3.4, 4.3.6
Part No.	7050FDM			Part No. Revision	A
Part Description	Arc Flash Nylon Construction	on Climbing Belte	ed FBH M 3D -		
Test Request No.	PC-2241			Date Complete	4/8/2021
	Те	est Summary	(Continued	(k	
Test Specification	Test	Criteria		Test Result	Pass/Fail
	Static Strength (Dorsal D-ring)	3600 Lbf <u>></u> 1 №	1inute	3631.3 Lbf	Pass
ANCI 7250 11 2014	Static Strength (Dorsal D-ring)	Harness Shall I Test Torso	Not Release	Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage <u><</u> 1"		0.0"	Pass
7.3.3	Tear Distance (Buckle)	Shall Not Tear 1" or Adjacent		Did Not Tear Through	Pass
	Tearing	Straps Shall No Signs of Tearin	•	Did Not Tear	Pass
	Static Strength (Dorsal D-ring)	3600 Lbf <u>></u> 1 №	linute	3644.0 Lbf	Pass
	Static Strength (Dorsal D-ring)	Harness Shall Not Release Test Torso		Did Not Release	Pass
ANSI Z359.11-2014	Adjuster Slippage	Slippage <u><</u> 1"		0.0"	Pass
4.3.5	Tear Distance (Buckle)	Shall Not Tear a Distance > 1" or Adjacent Eyelet		Did Not Tear Through	Pass
	Tearing	Straps Shall Not Show Any Signs of Tearing		Did Not Tear	Pass
	Static Strength (Sternal D-ring)	3600 Lbf <u>></u> 1 Minute		3644.8 Lbf	Pass
ANGL 72E0 11 2014	Static Strength (Sternal D-ring)	Harness Shall I Test Torso	Not Release	Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage <u><</u> 1"		0.0"	Pass
	Tear Distance	Shall Not Tear 1" or Adjacent		Did Not Tear Through	Pass
	Tearing	Straps Shall No Signs of Tearin		Did Not Tear	Pass
	Static Strength (Sternal D-ring)	3600 Lbf <u>></u> 1 N	linute	3625.9 Lbf	Pass
	Static Strength (Sternal D-ring)	Harness Shall I Test Torso	Not Release	Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage <u><</u> 1"		0.0"	Pass
ч. <i>Э.Э</i>	Tear Distance	Shall Not Tear 1" or Adjacent		Did Not Tear Through	Pass
	Tearing	Straps Shall No Signs of Tearin	•	Did Not Tear	Pass





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FallTech Test Report					
Test Report No.	PC-2241	Rpt. Date	4/13/2021	Rpt. Rev	Rev Date
Report Prepared For	FallTech				
Initiated By	Dan Redden	Test Specifica	ation(s)	ANSI Z359.11-2014: 4. ASTM F-887-18	3.5, 4.3.3, 4.3.4, 4.3.6
Part No.	7050FDM			Part No. Revision	A
Part Description	Arc Flash Nylon Constructio	n Climbing Belteo	FBH M 3D +	-	
Test Request No.	PC-2241			Date Complete	4/8/2021
	Те	st Summary (Continued	l)	
Test Specification	Test	Criteria		Test Result	Pass/Fail
	Static Strength (Sternal D-ring)	3600 Lbf <u>></u> 1 Min	nute	3638.9 Lbf	Pass
	Static Strength (Sternal D-ring)	Harness Shall No Test Torso	ot Release	Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage <u><</u> 1"		0.0"	Pass
7,3,3	Tear Distance	Shall Not Tear a 1" or Adjacent E		Did Not Tear Through	Pass
	Tearing	Straps Shall Not Signs of Tearing	•	Did Not Tear	Pass
	Static Strength (Side D-rings)	3600 Lbf <u>></u> 1 Minute		3652.5 Lbf	Pass
	Static Strength (Side D-rings)	Harness Shall Not Release Test Torso		Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage <u><</u> 1"		0.0"	Pass
7.3.3	Tear Distance (Buckle)	Shall Not Tear a Distance > 1" or Adjacent Eyelet		Did Not Tear Through	Pass
	Tearing	Straps Shall Not Show Any Signs of Tearing		Did Not Tear	Pass
	Static Strength (Side D-rings)	3600 Lbf <u>></u> 1 Minute		3641.9 Lbf	Pass
	Static Strength (Side D-rings)	Harness Shall No Test Torso	ot Release	Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage <u><</u> 1"		0.0"	Pass
	Tear Distance (Buckle)	Shall Not Tear a 1" or Adjacent E		Did Not Tear Through	Pass
	Tearing	Straps Shall Not Signs of Tearing	•	Did Not Tear	Pass
	Static Strength (Side D-rings)	3600 Lbf <u>></u> 1 Mi	nute	3670.5 Lbf	Pass
	Static Strength (Side D-rings)	Harness Shall No Test Torso	ot Release	Did Not Release	Pass
ANSI Z359.11-2014 4.3.5	Adjuster Slippage	Slippage <u><</u> 1"		0.0"	Pass
	Tear Distance (Buckle)	Shall Not Tear a 1" or Adjacent E		Did Not Tear Through	Pass
	Tearing	Straps Shall Not Signs of Tearing	•	Did Not Tear	Pass





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FallTech Test Report					
Test Report No.	PC-2241	Rpt. Date	4/13/2021	Rpt. Rev	Rev Date
Report Prepared For	FallTech				
Initiated By	Dan Redden	Test Specific	ation(s)	ANSI Z359.11-2014 ASTM F-887-18	1: 4.3.5, 4.3.3, 4.3.4, 4.3.6
Part No.	7050FDM			Part No. Revision	А
Part Description	Arc Flash Nylon Construction	n Climbing Belte	ed FBH M 3D -	· .	
Test Request No.	PC-2241			Date Complete	4/8/2021
	Tes	st Summary	(Continued	d)	
Test Specification	Test	Criteria		Test Result	Pass/Fail
	Dynamic Performance Dorsal D-ring (Feet First)	Peak Impact Lo <u>></u> 3600 Lbf	bad	3477.1 Lbf	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Shall N Test Torso	lot Release	Did Not Release	Pass
ANSI Z359.11-2014 4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Remain Susper Minutes	nded for <u>></u> 5	5 Minutes	Pass
4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Angle at Rest <	30°	6.2°	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	At Least One Fa Indicator Shall		Visibly and Permaner Deployed	ntly Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Stretc Exceed 18"	h Shall Not	11.5"	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Peak Impact Load <u>></u> 3600 Lbf		3511.3 Lbf	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Shall Not Release Test Torso		Did Not Release	Pass
ANSI Z359.11-2014 4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Remain Suspended for <u>></u> 5 Minutes		5 Minutes	Pass
4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Angle at Rest <u><</u> 30°		4.4°	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	At Least One Fall Arrest Indicator Shall Deploy		Visibly and Permaner Deployed	ntly Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Stretch Shall Not Exceed 18"		11.3"	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Peak Impact Lo <u>></u> 3600 Lbf		3704.5 Lbf	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Shall Not Release Test Torso		Did Not Release	Pass
ANSI Z359.11-2014 4.3.3	Dynamic Performance Dorsal D-ring (Feet First)	Remain Susper Minutes	nded for <u>></u> 5	5 Minutes	Pass
1010	Dynamic Performance Dorsal D-ring (Feet First)	Angle at Rest <u><</u>	30°	3.3°	Pass
	Dynamic Performance Dorsal D-ring (Feet First)	At Least One Fa Indicator Shall		Visibly and Permaner Deployed	ntly Pass
	Dynamic Performance Dorsal D-ring (Feet First)	Harness Stretc Exceed 18"	h Shall Not	11.7"	Pass





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FallTech Test Report						
Test Report No.	PC-2241	Rpt. Date	4/13/2021	Rpt. Rev		Rev Date
Report Prepared For	FallTech					
Initiated By	Dan Redden	Test Specific	cation(s)	ANSI Z359. ASTM F-887		3.5, 4.3.3, 4.3.4, 4.3.6
Part No.	7050FDM			Part No. Re		А
Part Description	Arc Flash Nylon Constructio	n Climbing Belte	ed FBH M 3D	-		
Test Request No.	PC-2241			Date Comp	lete	4/8/2021
	Те	st Summary	(Continued	d)		
Test Specification		Criteria		Test R	lesult	Pass/Fail
	Dynamic Performance Dorsal D-ring (Head First)	Peak Impact Lo <u>></u> 3,600 Lbf	bad	3297.	7 Lbf	*
	Dynamic Performance Dorsal D-ring (Head First)	Harness Shall N Test Torso	Not Release	Did Not	Release	Pass
ANSI Z359.11-2014 4.3.4	Dynamic Performance Dorsal D-ring (Head First)	Remain Susper Minutes	nded for <u>></u> 5	5 Min	utes	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Angle at Rest <u><</u>	<u>:</u> 30°	18.	4°	Pass
	Dynamic Performance Dorsal D-ring (Head First)		At Least One Fall Arrest Indicator Shall Deploy		ermanently byed	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Peak Impact Load <u>></u> 3,600 Lbf		2982.	8 Lbf	*
ANSI Z359.11-2014	Dynamic Performance Dorsal D-ring (Head First)	Harness Shall Not Release Test Torso		Did Not	Release	Pass
4.3.4	Dynamic Performance Dorsal D-ring (Head First)	Remain Suspended for <u>></u> 5 Minutes		5 Min	utes	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Angle at Rest <u><</u> 30°		20.	2°	Pass
	Dynamic Performance Dorsal D-ring (Head First)	At Least One F Indicator Shall		Visibly and P Deplo		Pass
	Dynamic Performance Dorsal D-ring (Head First)	Peak Impact Lo <u>></u> 3,600 Lbf	bad	2643.	5 Lbf	*
	Dynamic Performance Dorsal D-ring (Head First)	Harness Shall N Test Torso	Not Release	Did Not	Release	Pass
ANSI Z359.11-2014 4.3.4	Dynamic Performance Dorsal D-ring (Head First)	Remain Susper Minutes	nded for \geq 5	5 Min	utes	Pass
	Dynamic Performance Dorsal D-ring (Head First)	Angle at Rest <u><</u>	<u>3</u> 30°	8.3	3°	Pass
	Dynamic Performance Dorsal D-ring (Head First)	At Least One F Indicator Shall		Visibly and P Deplo		Pass





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FallTech Test Report						
Test Report No.	PC-2241	Rpt. Date	4/13/2021	Rpt. Rev	Rev Date	
Report Prepared For	FallTech	-	-			
Initiated By	Dan Redden	Test Specifie	cation(s)	ANSI Z359.11-2014: 4 ASTM F-887-18	4.3.5, 4.3.3, 4.3.4, 4.3.6	
Part No.	7050FDM			Part No. Revision	A	
Part Description	Arc Flash Nylon Constructio	n Climbing Belte	ed FBH M 3D +	FD QC Legs/QC Chest		
Test Request No.	PC-2241			Date Complete	4/8/2021	
	Те	st Summary	(Continued	i)		
Test Specification	Test	Criteria		Test Result	Pass/Fail	
	Dynamic Performance Sternal D-ring (Feet First)	Peak Impact Lo <u>></u> 3600 Lbf	bad	3070.0 Lbf	*	
	Dynamic Performance Sternal D-ring (Feet First)	Harness Shall I Test Torso	Not Release	Did Not Release	Pass	
ANSI Z359.11-2014	Dynamic Performance Sternal D-ring (Feet First)	Remain Suspended for <u>></u> 5 Minutes		5 Minutes	Pass	
4.3.3	Dynamic Performance Sternal D-ring (Feet First)	Angle at Rest <u><</u> 50°		27.8°	Pass	
	Dynamic Performance Sternal D-ring (Feet First)	At Least One Fall Arrest Indicator Shall be Deployed Visibly and Permanently		Visibly and Permanentl Deployed	y Pass	
	Dynamic Performance Sternal D-ring (Feet First)	Harness Stretch Shall Not Exceed 18"		14.0"	Pass	
	Dynamic Performance Sternal D-ring (Feet First)	Peak Impact Load <u>></u> 3600 Lbf		3208.6 Lbf	*	
	Dynamic Performance Sternal D-ring (Feet First)	Harness Shall Not Release Test Torso		Did Not Release	Pass	
ANSI Z359.11-2014	Dynamic Performance Sternal D-ring (Feet First)	Remain Suspended for <u>></u> 5 Minutes		5 Minutes	Pass	
4.3.3	Dynamic Performance Sternal D-ring (Feet First)	Angle at Rest <	<u><</u> 50°	26.8°	Pass	
	Dynamic Performance Sternal D-ring (Feet First)	At Least One Fall Arrest Indicator Shall be Deployed Visibly and Permanently		Visibly and Permanentl Deployed	y Pass	
	Dynamic Performance Sternal D-ring (Feet First)	Harness Streto Exceed 18"	h Shall Not	14.2"	Pass	



This laboratory is accredited with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to the joint ISO-ILAC Communique dated January 2009). FollTech Testing Laboratory allows for a +/- 5% tolerance on dynamic and static strength test results.

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FallTech Test Report							
Test Report No.	PC-2241	Rpt. Date	4/13/2021	Rpt. Rev	Rev Date		
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specific	cation(s)	ANSI Z359.11-2014: 4 ASTM F-887-18	.3.5, 4.3.3, 4.3.4, 4.3.6		
Part No.	7050FDM			Part No. Revision	А		
Part Description	Arc Flash Nylon Constructio	n Climbing Belte	ed FBH M 3D +	FD QC Legs/QC Chest			
Test Request No.	PC-2241			Date Complete	4/8/2021		
	Te	st Summary	(Continued	i)			
Test Specification	Test	Criteria		Test Result	Pass/Fail		
	Dynamic Performance Sternal D-ring (Feet First)	Peak Impact Load <u>></u> 3600 Lbf		2759.9 Lbf	*		
	Dynamic Performance Sternal D-ring (Feet First)	Harness Shall Not Release Test Torso		Did Not Release	Pass		
ANSI Z359.11-2014	Dynamic Performance Sternal D-ring (Feet First)	Remain Suspended for ≥ 5 Minutes		5 Minutes	Pass		
4.3.3	Dynamic Performance Sternal D-ring (Feet First)	Angle at Rest <u><</u> 50°		25.2°	Pass		
	Dynamic Performance Sternal D-ring (Feet First)	At Least One F Indicator Shall Visibly and Per	be Deployed	Visibly and Permanently Deployed	Pass		
	Dynamic Performance Sternal D-ring (Feet First)	Harness Stretch Shall Not Exceed 18"		16.9"	Pass		
ANSI Z359.11-2014 4.3.6	Fall Arrest Indicator Test (Doral D-ring)	At Least One Fall Arrest Indicator Shall Deploy				Visibly and Permanently Deployed	Pass
ANSI Z359.11-2014 4.3.6	Fall Arrest Indicator Test (Doral D-ring)	At Least One Fall Arrest Indicator Shall Deploy		Visibly and Permanently Deployed	Pass		
ANSI Z359.11-2014 4.3.6	Fall Arrest Indicator Test (Doral D-ring)	At Least One F Indicator Shall		Visibly and Permanently Deployed	Pass		

Conclusion

Based upon the samples provided to the Lab:

FallTech P/N 7050FDM Rev. A meets the requirements of ANSI Z359.11-2014 and * ASTM F-887-18

Test Exceptions

* Harness has been dynamically tested and subjected to forces of 5,000 Lbs. or more. Energy absorbing properties inherent to the harness prevented residual force readings equal to or greater than the 3,600 Lbs. required by the standard.

	Report Signatories and Approval					
Lab Quality Manager	Jay Spontolz	Date	4/13/2021			
Witnessed by	Not Required	Date	N/A			



STANDARD MS-CRPT-0001 REV 16-05





TESTING - EXPOSURE TO AN ELECTRIC ARC

Test Specimen: Harness, Style 7050FDM Webbing: Yellow Nylon

Requested by: FallTech 1306 S Alameda St Compton, CA 90221

Test Standard: ELECTRIC ARC TESTS: ASTM F887-20 OBSERVATION OF PERSONAL CLIMBING EQUIPMENT EXPOSED TO AN ELECTRIC ARC

Test Report:

K-580521-2103H04-R00

Sample Received March 25, 2021

Test Date March 26, 2021 Report Date March 31, 2021

Prepared by

Approved by

Robert Ferraz Technologist, HCL TD Technologies, Kinectrics Claude Maurice Technical Specialist, HCL TD Technologies, Kinectrics

For questions about this test report, please contact testing@arcwear.com

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Proprietary and Confidential

Revision History

R	ev	Description			
0	0	Initial report creat	ion		
		Issue Date	Prepared by	Approved by	
		March 31, 2021	Robert Ferraz	Claude Maurice	
R	ev	Description			
		Issue Date	Prepared by	Verified by	

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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

- The test performed does not apply to electrical contact or electrical shock hazard.
- The test result is applicable only to the Test Specimens delivered to Kinectrics, other material, design or color may have a different response.
- It is the clients' responsibility to provide full and accurate information about the items supplied.
- No test is done to validate the fiber content or composition of the test item.
- Photographs of the test specimens and waveforms of the arc current, voltage and calorimeters with the circuit and arc exposure calibration records are available from Kinectrics and provided to the client separately from this report.



1 Test Standard:

Electrical arc test according to ASTM F887-20, Section 22

Standard Specifications for Personal Climbing Equipment, After Exposure to an Electric Arc Evaluation. Specimens are mounted on mannequins of panels having a distance of 30.5 cm (12 inches) from the centerline of the electrodes. The test standard requires that the finished personal climbing equipment be exposed to a level of 40 cal/cm² ± 5 cal/cm².

1.1 Test Requirements

Harnesses- The test program requires the specimens be placed on mannequins as normally worn. A minimum of eight samples are tested, four samples with the front facing the arc and four samples with the back side toward the arc.

Harness accessories, loops etc. - Three specimens of each accessory or loop are required to be exposed to the arc.

Energy Absorbing Lanyard - Three specimens of each lanyard are required to be exposed to the arc.

Other effects than the thermal effects of an electric arc like noise, light emissions, pressure rise, hot oil, electric shock, the consequences of physical and mental shock or toxic influences are not covered by this standard.

1.2 Acceptance criteria for products exposed to electrical arc:

The procedure outlined in ASTM F887-20 is followed to verify the electric arc performance of the personal climbing equipment. The product is considered as having passed the visual inspection criteria if the parameters defined in Table 1-1 are met. As proof of performance following the arc exposure, the exposed test specimens shall be subjected to a drop test. This shall be done as soon as practically possible. The samples have been returned to the client as directed to perform the drop test.

Parameter	Criterion
Arc Energy	Electrical arc exposure of 40 cal/cm ² ± 5 cal/cm ²
Ignition	No electric arc ignition.
After-flame Time	Less than 5 seconds on load bearing materials and less than 15 seconds for accessories or non-load bearing components.
Melting/Dripping	No melting and dripping of molten materials to the floor of any load bearing material. Accessories are allowed to exhibit melting and dripping provided they are not ignited while dripping.

Table 1-1: Visual inspection Criteria for Electric Arc Performance of ASTM F887-20





Test Condition: 2

The following test circuit parameters and conditions were used.

- Electric arc current: 8 kA rms ± 10%, 60 Hz -
- Open circuit voltage: 2500 V rms ± 10%, 60 Hz -
- Nominal Heat Flux Density: 2100 kW/m² (50 cal/cm²·s) -
- Arc duration: 0.85 seconds \pm 0.1 s to obtain required incident energy
- -Electrode gap: 305 mm (12 inches)
- Distance from mannequin to electrode: 305 mm (12 inches) -
- Deviations and abnormalities: None _

Note: The measurement uncertainty, MU, for the measured values of this test method are well within the requirements of the test standard and are defined on a 95% confidence interval basis over the full test range, as follows:

- Arc Current: ± 2 °C Time 70** Incident Energy: ±1.5%
- Voltage: ± 2.2%
- Time zero reference: ± 3 ms

3 **Test Specimen:**

The following description of the test sample was provided by the client and confirmed by the identification tag shown in Figure 3.1.

Sample description:	Falltech, Harness
Sample identification:	Style 7050FDM
Manufacturer:	Falltech
Material of webbing:	Yellow Nylon
Number of samples tested:	12
Harness Accessories:	Black Nomex/Kevlar Ripstop Label Cover, Shoulder Pad,
	Waist Pad, and Leg Pads
Notes:	Product modified from as-received state. Suspension Trauma
	Safety Strap Packs removed from harness prior to testing, as
	requested by the manufacturer.

FallTech DO NOT REMOVE LABEL OSHA 1926.502 ANSI Z359.11-2014 ASTM F887	Capacity (capacidad): OSHA Capacity: 130 to 425 lbs Max ANSI Capacity: 130 to 310 lbs Max Material: Nylon
SERIAL NUMBER: 5706844	VEA EL MANUAL DE INSTRUCCIONE DE ADVERTENCIAS DE US

Figure 3.1: Identification Tag



4 Test Results:

Arc exposures were performed on twelve samples as indicated. If the conditions and evaluation of the samples meet the criteria in Table 1-1, the product has passed the electrical arc exposure and is candidate for the mechanical drop test to fully meet the arc performance requirements of ASTM F887-20. Photographs of the samples before and after the arc exposure are shown in Section 6.

Table 4-1: Summary of Test Results Trial # 21-1746				
Mannequin	A – Front	B – Back		
Item Serial #	5706844	5706845		
Incident Energy	39 Cal/cm ²	41 Cal/cm ²		
After-flame	0	0		
Ignition	Ν	N		
Melting and Dripping	Ν	N		
Acceptance Criteria	Meets	Meets		
	Trial # 21-1747			
Mannequin	A – Front	B – Back		
Item Serial #	5706839	5706847		
Incident Energy	37 Cal/cm ²	43 Cal/cm ²		
After-flame	0	3		
Ignition	Ν	N		
Melting and Dripping	Ν	N		
Acceptance Criteria	Meets	Meets		
	Trial # 21-1748			
Mannequin	A – Front	B – Back		
Item Serial #	5706843	5706840		
Incident Energy	41 Cal/cm ²	41 Cal/cm ²		
After-flame	1	1		
Ignition	Ν	N		
Melting and Dripping	Ν	N		
Acceptance Criteria	Meets	Meets		
	Trial # 21-1749			
Mannequin	A – Front	B – Back		
Item Serial #	5706846	5706841		
Incident Energy	40 Cal/cm ²	40 Cal/cm ²		
After-flame	1	3		
Ignition	Ν	N		
Melting and Dripping	Ν	Ν		
Acceptance Criteria	Meets	Meets		



Trial # 21-1750				
Mannequin	A – Front	B – Back		
Item Serial #	5706842	5706829		
Incident Energy	41 Cal/cm ²	45 Cal/cm ²		
After-flame	0	4		
Ignition	Ν	N		
Melting and Dripping	Ν	N		
Acceptance Criteria	Meets	Meets		
	Trial # 21-1751			
Mannequin	A – Front	B – Back		
Item Serial #	5706828	1-27-2021		
Incident Energy	39 Cal/cm ²	41 Cal/cm ²		
After-flame	0	1		
Ignition	Ν	N		
Melting and Dripping	Ν	N		
Acceptance Criteria	Meets	Meets		

4.1 Observations:

Charring of the outer layer of webbing was observed on all samples tested. After flame was observed on the label cover and webbing and lasted for under 5 seconds as described in Table 4-1. There was no evidence of melting, dripping or ignition on any of the samples tested.

5 Interpretation of Results:

Based on the test results in Table 4-1 and observations, the product tested meets the requirements criteria of Table 1-1 as per ASTM F887-20 sections 22.1-22.4 and 22.6.1-22.6.2.

According to ASTM F887-20, Section 25, qualification of performance shall include a mechanical integrity (vertical drop test) as soon as possible following the arc exposure. This shall be arranged by the producer. If any accessories are to be added to the product, or the product undergoes modification from what has been reported, it must be re-tested.