

Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014



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

Declaration #

D0416020b

Declaration Date

4.4.16

Tested Item #

7227C

20' DuraTech® Self-Retracting Lifeline Galvanized

Additional Items Conforming Under this Declaration:

7227B

7226C

7226B

7227CS

7227CSS

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

ANSI Z359.14-2014

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

Supporting
Documentation

PC-0825

PC-0967

Authorized Signature

A handwritten signature in black ink, appearing to read 'Mark Sasaki', is written over a dashed horizontal line.

Name

Mark Sasaki

Title

Director of Engineering

Date

8.30.18

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Testing. Advising. Assuring.

April 7, 2016

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

Attention: Jay Sponholz
Quality Manager

Subject: **Attestation of Witnessing Testing**
Exova OCM Job # 360527-1
FallTech P.O.: OPEN
Report No.: PC-0825
Base Part No. 7227B
Description: 20' Cable, DuraTech Self Retracting Device



Dear Mr. Sponholz:



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

- Date of Testing:
 - 30 March 2016
- Exova OCM Test Witness:
 - Robert Fortner
- FallTech Test Operators:
 - Yesbet Sierra and Jay Sponholz
- Specification:
 - ANSI Z359.14-2014 Sections 4.2.1, 4.2.3, 4.2.5, 4.2.6, 4.2.8.1, 4.2.8.2, 4.2.8.3
- Equipment Calibration Interval
 - 1 year, except weights which are 5 years

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

Test Report #	Date	Base Part #	Description	Sample ID's	Results
PC-0825	4/4/2016	7227B	20' Cable, Self-Retracting Device	3122281	Pass
				3122263	
				3122280	
				3122271	
				3122274	
				3122282	
				3122279	
				3122278	
				3122269	
				3122281	
				3122263	
				3122280	
				3122270	
				3122265	
				3122266	
				3122277	
				3122272	
3122276					
3122267					
3122268					
3122264					

Test Witness Signature: Robert Fortner Technician Mechanical Laboratory	(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-0825	Date	4/4/2016	Rev		Rev Date
Report Prepared For	FallTech					
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014 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 #	7227B	Description	20' Cable, DuraTech Self Retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM No		
Test Request #	PC-0825	Date Received	2/24/2016	Date Complete	3/30/2016	
Test Operator	Yesbet Sierra	Test Operator	Jay Sponholz			

Material/Sample Identification	
Sample ID	Description
3122281	20' Cable, Self-Retracting Device
3122263	20' Cable, Self-Retracting Device
3122280	20' Cable, Self-Retracting Device
3122271	20' Cable, Self-Retracting Device
3122274	20' Cable, Self-Retracting Device
3122282	20' Cable, Self-Retracting Device
3122279	20' Cable, Self-Retracting Device
3122278	20' Cable, Self-Retracting Device
3122269	20' Cable, Self-Retracting Device
3122281	20' Cable, Self-Retracting Device
3122263	20' Cable, Self-Retracting Device
3122280	20' Cable, Self-Retracting Device
3122270	20' Cable, Self-Retracting Device
3122265	20' Cable, Self-Retracting Device
3122266	20' Cable, Self-Retracting Device
3122277	20' Cable, Self-Retracting Device
3122272	20' Cable, Self-Retracting Device
3122276	20' Cable, Self-Retracting Device
3122267	20' Cable, Self-Retracting Device
3122268	20' Cable, Self-Retracting Device
3122264	20' Cable, Self-Retracting Device

FallTech Test Report						
Test Report Number	PC-0825	Date	4/4/2016	Rev		Rev Date
Report Prepared For	FallTech					
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014 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 #	7227B	Description	20' Cable, DuraTech Self Retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM No		
Test Request #	PC-0825	Date Received	2/24/2016	Date Complete	3/30/2016	

Test Summary				
Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	15.0"	Pass
	Max Arrest Force	≤ 1800 Lbf	1101.7 lbF	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	850.2 lbF	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.2 lbF	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	3.4 lbF	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.6 lbF	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.8 lbF	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.2 lbF	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.8 lbF	Pass
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	16.2"	Pass
	Max Arrest Force	≤ 1800 Lbf	1260.0 lbF	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	931.1 lbF	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	1.4 lbF	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.8 lbF	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	4.8 lbF	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.6 lbF	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.0 lbF	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.2 lbF	Pass

FallTech Test Report							
Test Report Number	PC-0825	Date	4/4/2016	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014 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 #	7227B	Description	20' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production		BOM	No	
Test Request #	PC-0825	Date Received	2/24/2016	Date Complete	3/30/2016		
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A \leq 24" Class B \leq 54"	16.8"	Pass			
	Max Arrest Force	\leq 1800 Lbf	1287.5 lbF	Pass			
	Avg Arrest Force	Class A \leq 1350 Lbf Class B \leq 900 Lbf	878.3 lbF	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	1.8 lbF	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	3.8 lbF	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	5.4 lbF	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	6.8 lbF	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	8.4 lbF	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	9.6 lbF	Pass			
ANSI Z359.14-2014 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	1023.0 lbF	Pass			
ANSI Z359.14-2014 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	1027.7 lbF	Pass			
ANSI Z359.14-2014 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	1033.1 lbF	Pass			

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Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014 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 #	7227B	Description	20' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM	No		
Test Request #	PC-0825	Date Received	2/24/2016	Date Complete	3/30/2016		
ANSI Z359.14-2014 4.2.5	Static Strength	≥ 3,000 Lbf for ≥ 60 Seconds	3034.4 lbF	Pass			
ANSI Z359.14-2014 4.2.5	Static Strength	≥ 3,000 Lbf for ≥ 60 Seconds	3058.4 lbF	Pass			
ANSI Z359.14-2014 4.2.5	Static Strength	≥ 3,000 Lbf for ≥ 60 Seconds	3033.3 lbF	Pass			
ANSI Z359.14-2014 4.2.6	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	2.0 lbF	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.4 lbF	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	5.4 lbF	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.6 lbF	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.4 lbF	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	9.4 lbF	Pass			
ANSI Z359.14-2014 4.2.6	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	1.8 lbF	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.0 lbF	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	4.8 lbF	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.6 lbF	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.8 lbF	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	8.8 lbF	Pass			
ANSI Z359.14-2014 4.2.6	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	1.8 lbF	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.4 lbF	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	5.4 lbF	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.8 lbF	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	8.2 lbF	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	9.4 lbF	Pass			

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Test Report Number	PC-0825	Date	4/4/2016	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014 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 #	7227B	Description	20' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM	No		
Test Request #	PC-0825	Date Received	2/24/2016	Date Complete	3/30/2016		
ANSI Z359.14-2014 4.2.8.1	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	14.4"		Pass		
	Max Arrest Force	≤ 1800 Lbf	1157.5 lbf		Pass		
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	881.0 lbf		Pass		
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	1.8 lbf		Pass		
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	3.2 lbf		Pass		
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.4 lbf		Pass		
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.6 lbf		Pass		
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.0 lbf		Pass		
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.2 lbf		Pass		
ANSI Z359.14-2014 4.2.8.1	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	12.4"		Pass		
	Max Arrest Force	≤ 1800 Lbf	1235.4 lbf		Pass		
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	832.7 lbf		Pass		
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.6 lbf		Pass		
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	3.6 lbf		Pass		
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.2 lbf		Pass		
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.0 lbf		Pass		
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.2 lbf		Pass		
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.6 lbf		Pass		

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Test Report Number	PC-0825	Date	4/4/2016	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014 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 #	7227B	Description	20' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production		BOM	No	
Test Request #	PC-0825	Date Received	2/24/2016	Date Complete	3/30/2016		
ANSI Z359.14-2014 4.2.8.1	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	13.8"	Pass			
	Max Arrest Force	≤ 1800 Lbf	1717.1 lbf	Pass			
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	1007.1 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.2 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	3.4 lbf	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.6 lbf	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.2 lbf	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.4 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.6 lbf	Pass			
ANSI Z359.14-2014 4.2.8.2	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	16.6"	Pass			
	Max Arrest Force	≤ 1800 Lbf	1758.9 lbf	Pass			
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	915.4 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.2 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	3.6 lbf	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.8 lbf	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.4 lbf	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.0 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.4 lbf	Pass			

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Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014 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 #	7227B	Description	20' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM	No		
Test Request #	PC-0825	Date Received	2/24/2016	Date Complete	3/30/2016		
ANSI Z359.14-2014 4.2.8.2	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	14.6"	Pass			
	Max Arrest Force	≤ 1800 Lbf	1454.0 lbf	Pass			
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	823.0 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.2 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	3.4 lbf	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.0 lbf	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.2 lbf	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.8 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.2 lbf	Pass			
ANSI Z359.14-2014 4.2.8.2	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	14.4"	Pass			
	Max Arrest Force	≤ 1800 Lbf	1568.1 lbf	Pass			
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	871.0 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.0 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.6 lbf	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.8 lbf	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.0 lbf	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.2 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.4 lbf	Pass			

FallTech Test Report							
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Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014 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 #	7227B	Description	20' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM No			
Test Request #	PC-0825	Date Received	2/24/2016	Date Complete	3/30/2016		
ANSI Z359.14-2014 4.2.8.3	Arrest Distance	Class A \leq 24" Class B \leq 54"	14.0"	Pass			
	Max Arrest Force	\leq 1800 Lbf	1396.7 lbf	Pass			
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	886.3 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	2.0 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	2.8 lbf	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	5.2 lbf	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	6.4 lbf	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	7.8 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	9.2 lbf	Pass			
ANSI Z359.14-2014 4.2.8.3	Arrest Distance	Class A \leq 24" Class B \leq 54"	16.6"	Pass			
	Max Arrest Force	\leq 1800 Lbf	1241.4 lbf	Pass			
	Avg Arrest Force	Class A \leq 1575 Lbf Class B \leq 1125 Lbf	810.4 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	1.8 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	2.8 lbf	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	5.2 lbf	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	7.0 lbf	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	8.0 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf \leq 24" Extended	8.8 lbf	Pass			

FallTech Test Report						
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Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014 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 #	7227B	Description	20' Cable, DuraTech Self Retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0825	Date Received	2/24/2016	Date Complete	3/30/2016	
ANSI Z359.14-2014 4.2.8.3	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	13.0"	Pass		
	Max Arrest Force	≤ 1800 Lbf	1119.9 lbf	Pass		
	Avg Arrest Force	Class A ≤ 1575 Lbf Class B ≤ 1125 Lbf	855.7 lbf	Pass		
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	1.8 lbf	Pass		
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.8 lbf	Pass		
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.6 lbf	Pass		
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.0 lbf	Pass		
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.6 lbf	Pass		
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.8 lbf	Pass		

Conclusion
FallTech P/N 7227B Self-retracting Device meets the requirements of ANSI Z359.14-2014.

Report Signatories and Approval			
Lab Quality Manager	<i>Jay Spornholz</i>	Date	4/4/2016
Witnessed by	<i>Robert Jartin</i>	Date	4/13/2016

FallTech Test Report

Test Report Number	PC-0967	Date	11/18/2016	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014; 4.2.1, 4.2.6				
Base Part #	7227C	Description	20' Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM		No	
Test Request #	PC-0967	Date Received	10/5/2016	Date Complete		11/4/2016	
Test Operator	Yesbet Sierra	Test Operator	Jay Sponholz				

Material/Sample Identification

Sample ID	Description
FT18022	20' Self-Retracting Device
FT17287	20' Self-Retracting Device
FT15313	20' Self-Retracting Device

Test Summary

Test Specification	Test Criteria	Test Result	Pass/Fail	
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	11.7"	Pass
	Max Arrest Force	≤ 1800 Lbf	1102.5 lbf	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	910.2 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	2.4 lbf	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	4.2 lbf	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	5.8 lbf	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.6 lbf	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	9.2 lbf	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	9.4 lbf	Pass
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	15.7"	Pass
	Max Arrest Force	≤ 1800 Lbf	1448.8 lbf	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	967.1 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.2 lbf	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	4.2 lbf	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.4 lbf	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	8.0 lbf	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	8.4 lbf	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	11.4 lbf	Pass

FallTech Test Report						
Test Report Number	PC-0967	Date	11/18/2016	Rev		Rev Date
Report Prepared For	FallTech					
Initiated By	Dan Redden	Test Specification	ANSI Z359.14-2014; 4.2.1, 4.2.6			
Base Part #	7227C	Description	20' Self Retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0967	Date Received	10/5/2016	Date Complete	11/4/2016	

Test Summary				
Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	15.2"	Pass
	Max Arrest Force	≤ 1800 Lbf	1169.6 lbF	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	990.4 lbF	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	4.2 lbF	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.2 lbF	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.6 lbF	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.6 lbF	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.2 lbF	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	10.8 lbF	Pass

Conclusion
FallTech P/N 7227C 20' Self-retracting Device meets the requirements of ANSI Z359.14-2014. (4.2.1, 4.2.6)

Report Signatories and Approval			
Lab Quality Manager		Date	11/18/2016
Witnessed by	Not Required	Date	N/A

FallTech Test Report

Test Report Number	PC-0989	Date	12/19/2016	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Warren Faber	Test Specification	ANSI Z359.14-2014; 4.2.1, 4.2.6				
Base Part #	7226C	Description	15' Aluminum DuraTech SRD				
Proposed Part #	7226C	Built By Whom	Production	BOM		No	
Test Request #	PC-0989	Date Received	11/28/2016	Date Complete		12/14/2016	
Test Operator	Yesbet Sierra	Test Operator	Jay Sponholz				

Material/Sample Identification

Sample ID	Description
FT17805	15' Aluminum DuraTech SRD
FT17846	15' Aluminum DuraTech SRD
FT17896	15' Aluminum DuraTech SRD

Test Summary

Test Specification	Test Criteria	Test Result	Pass/Fail	
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	15.2"	Pass
	Max Arrest Force	≤ 1800 Lbf	1593.7 lbf	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	1091.2 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.9 lbf	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.6 lbf	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	5.6 lbf	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.8 lbf	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	8.8 lbf	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	9.0 lbf	Pass
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	10.8"	Pass
	Max Arrest Force	≤ 1800 Lbf	1759.2 lbf	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	1274.7 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	2.8 lbf	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	5.0 lbf	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.2 lbf	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.4 lbf	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	8.4 lbf	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	9.2 lbf	Pass

FallTech Test Report						
Test Report Number	PC-0989	Date	12/19/2016	Rev		Rev Date
Report Prepared For	FallTech					
Initiated By	Warren Faber	Test Specification	ANSI Z359.14-2014; 4.2.1, 4.2.6			
Base Part #	7226C	Description	15' Aluminum DuraTech SRD			
Proposed Part #	7226C	Built By Whom	Production	BOM	No	
Test Request #	PC-0989	Date Received	11/28/2016	Date Complete	12/14/2016	

Test Summary				
Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	12.8"	Pass
	Max Arrest Force	≤ 1800 Lbf	1660.9 lbf	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	1179.3 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.8 lbf	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	4.8 lbf	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.2 lbf	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.0 lbf	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.8 lbf	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.4 lbf	Pass

Conclusion
FallTech P/N 7226C 15' Aluminum DuraTech SRD meets the requirements of ANSI Z359.14-2014. (4.2.1, 4.2.6)

Report Signatories and Approval			
Lab Quality Manager		Date	12/19/2016
Witnessed by	Not Required	Date	N/A

FallTech Test Report						
Test Report Number	PC-0989	Date	12/19/2016	Rev		Rev Date
Report Prepared For	FallTech					
Initiated By	Warren Faber	Test Specification	ANSI Z359.14-2014; 4.2.1, 4.2.6			
Base Part #	7226C	Description	15' Aluminum DuraTech SRD			
Proposed Part #	7226C	Built By Whom	Production	BOM	No	
Test Request #	PC-0989	Date Received	11/28/2016	Date Complete	12/14/2016	

Test Information			
Description of Test	Dynamic Performance and Retraction Tension Test, Self-retracting Device		
Test Method	ANSI Z359.14-2014 4.2.1, 4.2.6		
Acceptance Criteria	ANSI Z359.14-2014 3.1.9, 3.1.6		
Test Procedure	TI-001		
Conditioning Requirements	Not Applicable	Actual Conditions	Not Applicable
Time Removed from Conditioning	Not Applicable	Time Tested	Not Applicable
Test Environment	70.0°F / 59.6% RH		
Test By	Yesbet Sierra, Jay Sponholz	Test Date	12/14/2016

Equipment Used			
Equipment Used	Size/Type	Control Number	Calibration Date
Load Cell	10,000 Lbs	342183	5/2/2016
Test Weight	282 Lbs	TW282	4/16/2014
Altimeter	100 Ft	ALE-87283	6/7/2016
Force Gauge	30 Lbf x 0.2 Lbf	5675	6/1/2016

Test Results				
Sample ID	Characteristic	Criteria	Test Data	Pass/Fail
FT17805	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	15.2"	Pass
	Max Arrest Force	≤ 1800 Lbf	1593.7 lbF	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	1091.2 lbF	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	3.9 lbF	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	3.6 lbF	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.6 lbF	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.8 lbF	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.8 lbF	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.0 lbF	Pass

FallTech Test Report							
Test Report Number	PC-0989	Date	12/19/2016	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Warren Faber	Test Specification	ANSI Z359.14-2014; 4.2.1, 4.2.6				
Base Part #	7226C	Description	15' Aluminum DuraTech SRD				
Proposed Part #	7226C	Built By Whom	Production	BOM	No		
Test Request #	PC-0989	Date Received	11/28/2016	Date Complete	12/14/2016		
FT17846	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	10.8"			Pass	
	Max Arrest Force	≤ 1800 Lbf	1759.2 lbF			Pass	
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	1274.7 lbF			Pass	
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	2.8 lbF			Pass	
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	5.0 lbF			Pass	
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.2 lbF			Pass	
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.4 lbF			Pass	
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	8.4 lbF			Pass	
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	9.2 lbF			Pass	
FT17896	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	12.8"			Pass	
	Max Arrest Force	≤ 1800 Lbf	1660.9 lbF			Pass	
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	1179.3 lbF			Pass	
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	2.8 lbF			Pass	
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	4.8 lbF			Pass	
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.2 lbF			Pass	
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	8.0 lbF			Pass	
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	8.8 lbF			Pass	
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	9.4 lbF			Pass	

End of Report