

# Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014



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

Declaration #

D0416021b

Declaration Date

4.4.16

Tested Item #

7232C

30' DuraTech® Self-Retracting Lifeline Galvanized

Additional Items Conforming Under this Declaration:

7232B

7229C

7229B

7232CS

7232CSS

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-0827

PC-0968

Authorized Signature

Name

Mark Sasaki

Title

Director of Engineering

Date

8.30.18

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Anaheim  
California  
USA  
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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 # 360527-2**  
**FallTech P.O.: OPEN**  
**Report No.: PC-0827**  
**Base Part No. 7232B**  
**Description: 30' 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:
  - 23, 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-0827	4/4/2016	7232B	30' Cable, Self-Retracting Device	3146013	Pass
				3146025	
				3146022	
				3146026	
				3146030	
				3146018	
				3146017	
				3146011	
				3146021	
				3146026	
				3146030	
				3146018	
				3146014	
				3146015	
				3146019	
				3146028	
3146023					
3146012					
3146016					
3146024					
3146020					

<b>Test Witness Signature:</b> Robert Fortner Technician Mechanical Laboratory	<i>(Signed for and on behalf of Exova-OCM)</i> 	
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<b>Approval Signature:</b> Thomas J. (Tom) Parsons Manager Quality / Technical Services	<i>(Signed for and on behalf of Exova-OCM)</i> 	
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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							
<b>Test Report Number</b>	PC-0827	<b>Date</b>	4/4/2016	<b>Rev</b>		<b>Rev Date</b>	
<b>Report Prepared For</b>	FallTech						
<b>Initiated By</b>	Dan Redden	<b>Test Specification</b>	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				
<b>Base Part #</b>	7232B	<b>Description</b>	30' Cable, DuraTech Self Retracting Device				
<b>Proposed Part #</b>	N/A	<b>Built By Whom</b>	Production	<b>BOM</b> No			
<b>Test Request #</b>	PC-0827	<b>Date Received</b>	2/24/2016	<b>Date Complete</b>	3/30/2016		
<b>Test Operator</b>	Yesbet Sierra	<b>Test Operator</b>	Jay Sponholz				

Material/Sample Identification	
Sample ID	Description
3146013	30' Cable, Self-Retracting Device
3146025	30' Cable, Self-Retracting Device
3146022	30' Cable, Self-Retracting Device
3146026	30' Cable, Self-Retracting Device
3146030	30' Cable, Self-Retracting Device
3146018	30' Cable, Self-Retracting Device
3146017	30' Cable, Self-Retracting Device
3146011	30' Cable, Self-Retracting Device
3146021	30' Cable, Self-Retracting Device
3146026	30' Cable, Self-Retracting Device
3146030	30' Cable, Self-Retracting Device
3146018	30' Cable, Self-Retracting Device
3146014	30' Cable, Self-Retracting Device
3146015	30' Cable, Self-Retracting Device
3146019	30' Cable, Self-Retracting Device
3146028	30' Cable, Self-Retracting Device
3146023	30' Cable, Self-Retracting Device
3146012	30' Cable, Self-Retracting Device
3146016	30' Cable, Self-Retracting Device
3146024	30' Cable, Self-Retracting Device
3146020	30' Cable, Self-Retracting Device

FallTech Test Report						
Test Report Number	PC-0827	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 #	7232B	Description	30' Cable, DuraTech Self Retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM No		
Test Request #	PC-0827	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 $\leq 54"$	16.6"	Pass
	Max Arrest Force	$\leq 1800$ Lbf	1409.9 lbF	Pass
	Avg Arrest Force	Class A $\leq 1350$ Lbf Class B $\leq 900$ Lbf	1040.1 lbF	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.9 lbF	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	4.3 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	6.1 lbF	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.4 lbF	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.9 lbF	Pass
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	17.6"	Pass
	Max Arrest Force	$\leq 1800$ Lbf	1424.7 lbF	Pass
	Avg Arrest Force	Class A $\leq 1350$ Lbf Class B $\leq 900$ Lbf	1069.2 lbF	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.1 lbF	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	4.4 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	6.3 lbF	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.9 lbF	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.1 lbF	Pass

FallTech Test Report							
Test Report Number	PC-0827	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 #	7232B	Description	30' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM		No	
Test Request #	PC-0827	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 $\leq 54"$	17.4"	Pass			
	Max Arrest Force	$\leq 1800$ Lbf	1457.4 lbF	Pass			
	Avg Arrest Force	Class A $\leq 1350$ Lbf Class B $\leq 900$ Lbf	983.1 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	4.2 lbF	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.1 lbF	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.3 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	9.1 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	1037.0 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	1045.0 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	1036.6 lbF	Pass			

FallTech Test Report								
Test Report Number	PC-0827		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 #	7232B		Description	30' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A		Built By Whom	Production			BOM	No
Test Request #	PC-0827		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	3049.1 lbF			Pass	
ANSI Z359.14-2014 4.2.5	Static Strength		≥ 3,000 Lbf for ≥ 60 Seconds	3043.3 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 4.2.6	Retraction Tension 0% Extracted		1.25 Lbf - 25 Lbf ≤ 24" Extended	2.1 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	5.7 lbF			Pass	
	Retraction Tension 60% Extracted		1.25 Lbf - 25 Lbf ≤ 24" Extended	6.3 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	8.6 lbF			Pass	
ANSI Z359.14-2014 4.2.6	Retraction Tension 0% Extracted		1.25 Lbf - 25 Lbf ≤ 24" Extended	2.1 lbF			Pass	
	Retraction Tension 20% Extracted		1.25 Lbf - 25 Lbf ≤ 24" Extended	4.3 lbF			Pass	
	Retraction Tension 40% Extracted		1.25 Lbf - 25 Lbf ≤ 24" Extended	5.1 lbF			Pass	
	Retraction Tension 60% Extracted		1.25 Lbf - 25 Lbf ≤ 24" Extended	7.3 lbF			Pass	
	Retraction Tension 80% Extracted		1.25 Lbf - 25 Lbf ≤ 24" Extended	7.9 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	2.7 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	6.9 lbF			Pass	
	Retraction Tension 80% Extracted		1.25 Lbf - 25 Lbf ≤ 24" Extended	8.1 lbF			Pass	
	Retraction Tension 100% Extracted		1.25 Lbf - 25 Lbf ≤ 24" Extended	9.7 lbF			Pass	

FallTech Test Report							
Test Report Number	PC-0827	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 #	7232B	Description	30' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM No			
Test Request #	PC-0827	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 $\leq 54"$	18.8"	Pass			
	Max Arrest Force	$\leq 1800$ Lbf	1360.2 lbf	Pass			
	Avg Arrest Force	Class A $\leq 1575$ Lbf Class B $\leq 1125$ Lbf	815.7 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.4 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	4.4 lbf	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.5 lbf	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.3 lbf	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.1 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.9 lbf	Pass			
ANSI Z359.14-2014 4.2.8.1	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	15.0"	Pass			
	Max Arrest Force	$\leq 1800$ Lbf	1033.9 lbf	Pass			
	Avg Arrest Force	Class A $\leq 1575$ Lbf Class B $\leq 1125$ Lbf	819.0 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.5 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	4.3 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	6.1 lbf	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.9 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	10.8 lbf	Pass			



FallTech Test Report							
Test Report Number	PC-0827	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 #	7232B	Description	30' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM No			
Test Request #	PC-0827	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 $\leq 54''$	17.6"	Pass			
	Max Arrest Force	$\leq 1800$ Lbf	1064.0 lbF	Pass			
	Avg Arrest Force	Class A $\leq 1575$ Lbf Class B $\leq 1125$ Lbf	843.3 lbF	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24''$ Extended	2.7 lbF	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24''$ Extended	4.5 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	6.8 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	9.3 lbF	Pass			
ANSI Z359.14-2014 4.2.8.2	Arrest Distance	Class A $\leq 24''$ Class B $\leq 54''$	14.6"	Pass			
	Max Arrest Force	$\leq 1800$ Lbf	1844.4 lbF	Pass			
	Avg Arrest Force	Class A $\leq 1575$ Lbf Class B $\leq 1125$ Lbf	998.4 lbF	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24''$ Extended	2.1 lbF	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24''$ Extended	4.2 lbF	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24''$ Extended	5.1 lbF	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24''$ Extended	6.0 lbF	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24''$ Extended	7.1 lbF	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24''$ Extended	7.9 lbF	Pass			

FallTech Test Report							
Test Report Number	PC-0827	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 #	7232B	Description	30' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM No			
Test Request #	PC-0827	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 $\leq 54"$	18.6"	Pass			
	Max Arrest Force	$\leq 1800$ Lbf	1664.4 lbF	Pass			
	Avg Arrest Force	Class A $\leq 1575$ Lbf Class B $\leq 1125$ Lbf	1023.9 lbF	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.9 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	5.0 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	9.3 lbF	Pass			
ANSI Z359.14-2014 4.2.8.2	Arrest Distance	Class A $\leq 24"$ Class B $\leq 54"$	14.8"	Pass			
	Max Arrest Force	$\leq 1800$ Lbf	1737.7 lbF	Pass			
	Avg Arrest Force	Class A $\leq 1575$ Lbf Class B $\leq 1125$ Lbf	1104.5 lbF	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.4 lbF	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	4.9 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	6.3 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	10.2 lbF	Pass			

FallTech Test Report							
Test Report Number	PC-0827	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 #	7232B	Description	30' Cable, DuraTech Self Retracting Device				
Proposed Part #	N/A	Built By Whom	Production	BOM No			
Test Request #	PC-0827	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"	21.4"	Pass			
	Max Arrest Force	$\leq$ 1800 Lbf	1316.6 lbf	Pass			
	Avg Arrest Force	Class A $\leq$ 1575 Lbf Class B $\leq$ 1125 Lbf	815.3 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	2.9 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	5.2 lbf	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	5.9 lbf	Pass			
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	7.1 lbf	Pass			
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	8.1 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	10.3 lbf	Pass			
ANSI Z359.14-2014 4.2.8.3	Arrest Distance	Class A $\leq$ 24" Class B $\leq$ 54"	21.6"	Pass			
	Max Arrest Force	$\leq$ 1800 Lbf	1392.0 lbf	Pass			
	Avg Arrest Force	Class A $\leq$ 1575 Lbf Class B $\leq$ 1125 Lbf	946.6 lbf	Pass			
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	2.7 lbf	Pass			
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	4.4 lbf	Pass			
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	5.5 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	7.9 lbf	Pass			
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	8.9 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 #	7232B	Description	30' Cable, DuraTech Self Retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0827	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 $\leq 54"$	18.2"	Pass		
	Max Arrest Force	$\leq 1800$ Lbf	1307.6 lbf	Pass		
	Avg Arrest Force	Class A $\leq 1575$ Lbf Class B $\leq 1125$ Lbf	953.2 lbf	Pass		
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	2.3 lbf	Pass		
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.1 lbf	Pass		
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	5.9 lbf	Pass		
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	6.2 lbf	Pass		
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	8.1 lbf	Pass		
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	9.3 lbf	Pass		

Conclusion
FallTech P/N 7232B Self-retracting Device meets the requirements of ANSI Z359.14-2014.

Report Signatories and Approval			
Lab Quality Manager	<i>Jay Sponholz</i>	Date	4/4/2016
Witnessed by	<i>Robert Fortin</i>	Date	4/12/2016

FallTech Test Report						
Test Report Number	PC-0968	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 #	7232C	Description	30' Self Retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0968	Date Received	10/5/2016	Date Complete	11/4/2016	
Test Operator	Yesbet Sierra	Test Operator	Jay Sponholz			

Material/Sample Identification	
Sample ID	Description
D1	30' Self-Retracting Device
D2	30' Self-Retracting Device
D3	30' 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 $\leq$ 24" Class B $\leq$ 54"	15.8"	Pass
	Max Arrest Force	$\leq$ 1800 Lbf	1123.4 lbf	Pass
	Avg Arrest Force	Class A $\leq$ 1350 Lbf Class B $\leq$ 900 Lbf	855.1 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	3.6 lbf	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	5.6 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	5.8 lbf	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	7.4 lbf	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	9.4 lbf	Pass
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A $\leq$ 24" Class B $\leq$ 54"	19.0"	Pass
	Max Arrest Force	$\leq$ 1800 Lbf	937.5 lbf	Pass
	Avg Arrest Force	Class A $\leq$ 1350 Lbf Class B $\leq$ 900 Lbf	803.6 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	3.8 lbf	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	5.6 lbf	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	7.6 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	8.2 lbf	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf $\leq$ 24" Extended	10.2 lbf	Pass

FallTech Test Report						
Test Report Number	PC-0968	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 #	7232C	Description	30' Self Retracting Device			
Proposed Part #	N/A	Built By Whom	Production	BOM	No	
Test Request #	PC-0968	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 $\leq 54"$	16.8"	Pass
	Max Arrest Force	$\leq 1800$ Lbf	1270.4 lbF	Pass
	Avg Arrest Force	Class A $\leq 1350$ Lbf Class B $\leq 900$ Lbf	930.2 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	6.4 lbF	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf $\leq 24"$ Extended	7.4 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	8.8 lbF	Pass

Conclusion
FallTech P/N 7232C 30' 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-0990	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 #	7229C	Description	25' Aluminum DuraTech SRD			
Proposed Part #	7229C	Built By Whom	Production	BOM	No	
Test Request #	PC-0990	Date Received	11/28/2016	Date Complete	12/14/2016	
Test Operator	Yesbet Sierra	Test Operator	Jay Sponholz			

Material/Sample Identification	
Sample ID	Description
FT17423	25' Aluminum DuraTech SRD
FT17405	25' Aluminum DuraTech SRD
FT17407	25' 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"	15.0"	Pass
	Max Arrest Force	≤ 1800 Lbf	1346.6 lbf	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	972.5 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.0 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	5.0 lbf	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.0 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	8.0 lbf	Pass
ANSI Z359.14-2014 4.2.1, 4.2.6	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	17.0"	Pass
	Max Arrest Force	≤ 1800 Lbf	1285.3 lbf	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	913.4 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.0 lbf	Pass
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.8 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	6.0 lbf	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.0 lbf	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.6 lbf	Pass

FallTech Test Report						
Test Report Number	PC-0990	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 #	7229C	Description	25' Aluminum DuraTech SRD			
Proposed Part #	7229C	Built By Whom	Production	BOM	No	
Test Request #	PC-0990	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 ≤ 24" Class B ≤ 54"	14.6"	Pass
	Max Arrest Force	≤ 1800 Lbf	1607.0 lbf	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	1034.3 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	5.0 lbf	Pass
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.0 lbf	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.0 lbf	Pass
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.5 lbf	Pass
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.8 lbf	Pass

Conclusion
FallTech P/N 7229C 25' 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-0990	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 #	7229C	Description	25' Aluminum DuraTech SRD			
Proposed Part #	7229C	Built By Whom	Production	BOM	No	
Test Request #	PC-0990	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	70.3°F / 59.5% 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
FT17423	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	15.0"	Pass
	Max Arrest Force	≤ 1800 Lbf	1346.6 lbf	Pass
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	972.5 lbf	Pass
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.0 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	5.0 lbf	Pass
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.0 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	8.0 lbf	Pass

FallTech Test Report							
Test Report Number	PC-0990	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 #	7229C	Description	25' Aluminum DuraTech SRD				
Proposed Part #	7229C	Built By Whom	Production	BOM	No		
Test Request #	PC-0990	Date Received	11/28/2016	Date Complete	12/14/2016		
FT17405	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	17.0"		Pass		
	Max Arrest Force	≤ 1800 Lbf	1285.3 lbf		Pass		
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	913.4 lbf		Pass		
	Retraction Tension 0% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.0 lbf		Pass		
	Retraction Tension 20% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	3.8 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	6.0 lbf		Pass		
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.0 lbf		Pass		
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.6 lbf		Pass		
FT17407	Arrest Distance	Class A ≤ 24" Class B ≤ 54"	14.6"		Pass		
	Max Arrest Force	≤ 1800 Lbf	1607.0 lbf		Pass		
	Avg Arrest Force	Class A ≤ 1350 Lbf Class B ≤ 900 Lbf	1034.3 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	5.0 lbf		Pass		
	Retraction Tension 40% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	6.0 lbf		Pass		
	Retraction Tension 60% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.0 lbf		Pass		
	Retraction Tension 80% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.5 lbf		Pass		
	Retraction Tension 100% Extracted	1.25 Lbf - 25 Lbf ≤ 24" Extended	7.8 lbf		Pass		

**End of Report**