

Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014



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

Declaration #	S0917007b	Declaration Date	9.15.17
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Tested Item #	60260A	SteelGrip® 60' Temporary Cable HLL System
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Additional Items Conforming Under this Declaration:

60230A	60280A	602100A	60230AR	60260AR	602100AR
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Alexander Andrew, Inc. declares that the product(s) listed above is in conformity with the requirements of the following performance standard(s):

OSHA 1926.502

Conformity Assessment Method in accordance with ANSI/ISEA 125-2014		
Level 1 <input type="checkbox"/>	Level 2 <input checked="" type="checkbox"/>	Level 3 <input type="checkbox"/>

Level 1: FallTech Lab Outside the Scope of ISO/IEC Standard 17025:2005	Level 2: FallTech Lab Within the Scope of ISO/IEC Standard 17025:2005	Level 3: Independent 3rd Party Lab accredited to ISO/IEC Standard 17025:2005
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Supporting Documentation	DPT-000047	PC-0392	PC-2067
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Authorized Signature

Name	Zachary Winters	Title	Engineering Manager	Date	11.4.2020
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FallTech Test Report

Test Report No.	DTP-000047	Rpt. Date	9/15/2017	Rpt. Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Mark Sasaki	Test Specification(s)	OSHA 1926, No Applicable ANSI Standard				
Part No.	620030/620060/620100			Part No. Revision	A		
Part Description	30'/60'/100' SteelGrip Temporary Cable HLL System						
Test Request No.	DTP-000047		Date Complete	8/2/2017			
Test Operator(s)	Zack Winters, Tyler Wilson, Mark Sasaki						

Material/Sample Identification

Sample ID	Description
620030	30' SteelGrip Cable HLL Kit; See attached DTP-000047 Protocol for Details
620060	60' SteelGrip Cable HLL Kit; See attached DTP-000047 Protocol for Details
620100	100' SteelGrip Cable HLL Kit; See attached DTP-000047 Protocol for Details



Test Summary

Test Specification	Test Criteria	Test Result	Pass/Fail
See attached DTP-000047 Protocol	See attached DTP-000047 Protocol	See attached DTP-000047 Results	See attached DTP-000047 Results

Conclusion

FallTech P/N 620030/620060/620100 SteelGrip Temporary Cable HLL System meets the requirements of OSHA 1926, OSHA 1910, and FallTech's General Manufacturing Requirements.

Report Signatories and Approval

Lab Quality Manager		Date	9/15/2017
Director of Engineering		Date	9/15/2017
Witnessed by	Not Required	Date	N/A



FallTech Test Report

Test Report No.	DTP-000047	Rpt. Date	9/15/2017	Rpt. Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Mark Sasaki	Test Specification(s)	OSHA 1926, No Applicable ANSI Standard				
Part No.	620030/620060/620100			Part No. Revision	A		
Part Description	30'/60'/100' SteelGrip Temporary Cable HLL System						
Test Request No.	DTP-000047			Date Complete	8/2/2017		

Test Information

Description of Test	SteelGrip Temporary Cable HLL Full System Testing		
Test Method	See attached DTP-000047 Protocol		
Acceptance Criteria	See attached DTP-000047 Protocol		
Test Procedure	See attached DTP-000047 Protocol		
Conditioning Requirements	N/A	Actual Conditions	Ambient
Time Removed from Conditioning	N/A	Time Tested	N/A
Test Environment	Ambient Conditions, Outdoors		
Test By	Zack Winters	Test Date	7/28/17 - 8/2/17

Equipment Used

Equipment Used	Size/Type	Control Number	Calibration Date
10k Load Cell	10,000 Lbf Load Cell (+/- 0.5%)	342183	4/25/2018

Test Results

Sample ID	Characteristic	Criteria	Test Data	Pass/Fail
See attached DTP-000047 Protocol	See attached DTP-000047 Protocol	See attached DTP-000047 Protocol	See attached DTP-000047 Test Results	See attached DTP-000047 Test Results

End of Report

Testing Protocol

Project/Product:	00058 (3DH-040914B - Temporary Cable HLL System)
Part #:	620030/620060/620100
Maker/Vendor:	FallTech
Protocol Code	DTP-000047
Requested By	Tyler Wilson
Date	5/2/2017
# of Samples Required	20 Total

Section 1: Product Description

The FallTech SteelGrip[®] Temporary Cable HLL is a 2-person temporary horizontal lifeline with turnbuckle tensioner and coil energy absorber. The system also requires the use of personal energy absorbers connected between the user and the horizontal lifeline. The tension indicator may be used with this system to ensure proper horizontal lifeline pretension. The system will be offered in lengths from 20' to 300' and also full kits with anchors/stanchions. User instruction manual will include all information relating to single vs. multiple span configurations and span maximum length. The system can be attached directly to existing anchor points using the provided carabiners or used with web anchor slings or stanchions (concrete columns, I-beams, etc.).

Section 2: Attachment Method

The SteelGrip HLL will be connected to 7414 Weld-On anchors, attached directly to the test structure. The personal energy absorbers (PEAs) will be attached directly to the lifeline cable using the leg end snaphook connector and oriented with the shock pack closest to the test mass. The test mass will be dropped from the middle of the span.

Section 3: Testing Instructions

Special Instructions/Notes: For the multi-person dynamic drop tests, the lumped sum test mass methodology will be followed, using a single test mass with multiple PEAs attached to the HLL. The test mass will weigh 493.5lbs for the 2-person tests. The tolerance on the test mass is +/- 2lbs.

Testing Taw Data to be Collected:

- 1) Maximum & Average Forces to the Anchor Point (Load cell in-line with HLL system)
- 2) Forces to the "Body" [Load cell between test mass and personal energy absorber (PEA)]
- 3) Initial, Dynamic, and Final Sag distances of lifeline
- 4) Pretension force of lifeline after installation
- 5) Total fall clearance
- 6) HLL Energy Absorber deployment distance
- 7) Personal Energy Absorber deployment distance

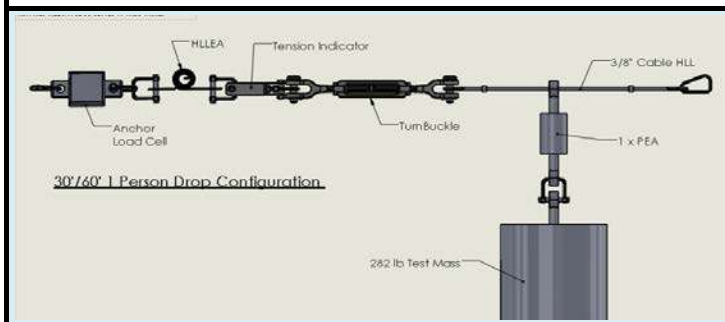


Figure 1: 1-Person Drop Test Configuration 30'/60'

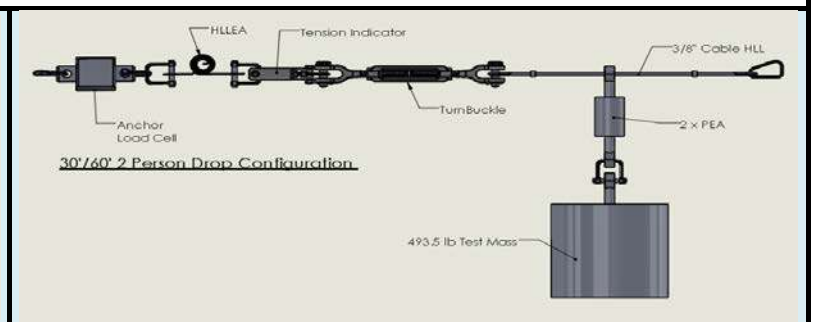


Figure 2: 2-Person Drop Test Configuration 30'/60'

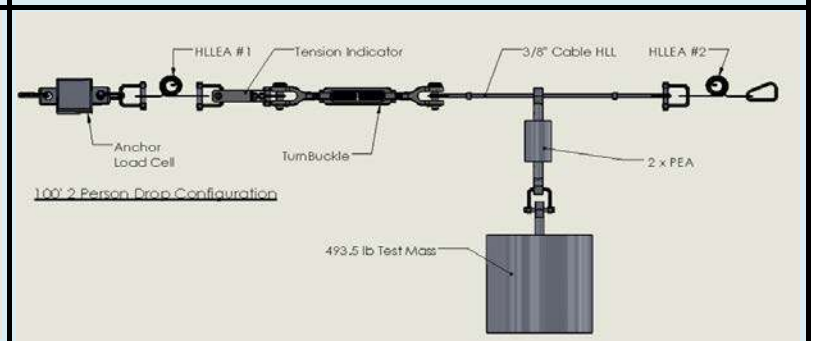
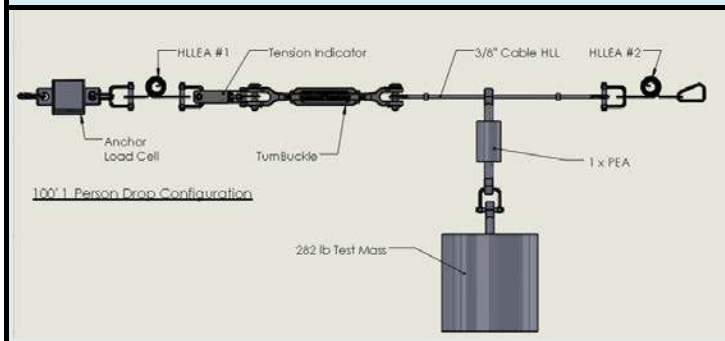


Figure 3: 1-Person Drop Test Configuration 100'

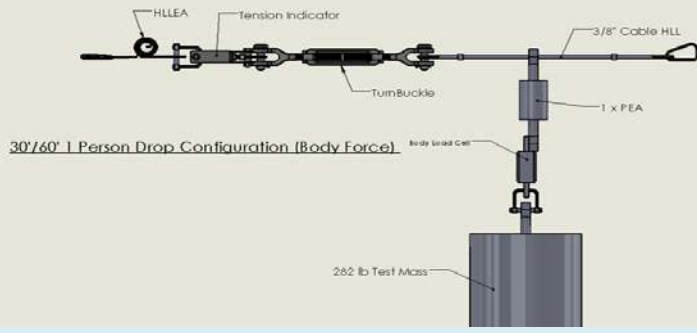


Figure 4: 2-Person Drop Test Configuration 100'

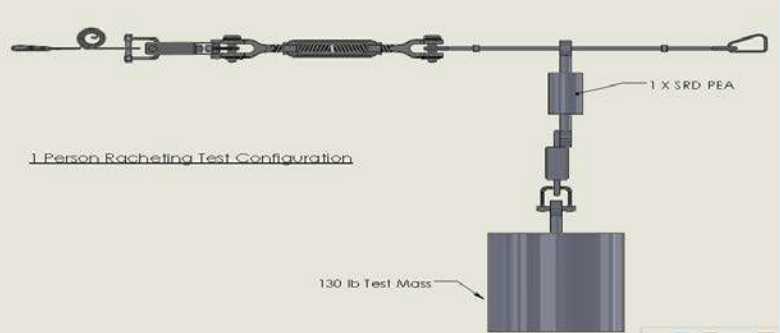


Figure 5: 1-Person Drop Test Configuration 30' (Body Force)

Figure 6: 1 Person Drop Ratchet Test Configuration 30'

Section 4: Dynamic Testing

Test	Standard	Section	Name	Requirement	Direction/ Loading	Equipment	Gauge	# of Samples	Comments
1	N/A	N/A	100' Span, 2-Person Drop [493.5 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 3' above HLL system line	See Special Instructions Above, Figure 4	Load Cell (In Line)	1	8253 [3' Lan]
2	N/A	N/A	100' Span, 2-Person Drop [493.5 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 3' above HLL system line	See Special Instructions Above, Figure 4	Load Cell (In Line)	1	8253 [3' Lan]
3	N/A	N/A	100' Span, 2-Person Drop [493.5 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 3' above HLL system line	See Special Instructions Above, Figure 4	Load Cell (In Line)	1	8253 [3' Lan]
4	N/A	N/A	100' Span, 1-Person Drop [282 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 3' above HLL system line	See Special Instructions Above, Figure 3	Load Cell (In Line)	1	8253 [3' Lan]
5	N/A	N/A	100' Span, 1-Person Drop [282 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 3' above HLL system line	See Special Instructions Above, Figure 3	Load Cell (In Line)	1	8253 [3' Lan]
6	N/A	N/A	100' Span, 1-Person Drop [282 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 3' above HLL system line	See Special Instructions Above, Figure 3	Load Cell (In Line)	1	8253 [3' Lan]
7	N/A	N/A	60' Span, 1-Person Drop [282 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 1	Load Cell (In Line)	1	8256 [6' Lan]
8	N/A	N/A	60' Span, 2-Person Drop [493.5 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 2	Load Cell (In Line)	1	8256 [6' Lan]

9	N/A	N/A	30' Span, 1-Person Drop [282 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 1	Load Cell (In Line)	1	8256 [6' Lan]
10	N/A	N/A	30' Span, 1-Person Drop [282 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 1	Load Cell (In Line)	1	8256 [6' Lan]
11	N/A	N/A	30' Span, 1-Person Drop [282 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 1	Load Cell (In Line)	1	8256 [6' Lan]
12	N/A	N/A	30' Span, 2-Person Drop [493.5 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 2	Load Cell (In Line)	1	8256 [6' Lan]
13	N/A	N/A	30' Span, 2-Person Drop [493.5 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 2	Load Cell (In Line)	1	8256 [6' Lan]
14	N/A	N/A	30' Span, 2-Person Drop [493.5 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 2	Load Cell (In Line)	1	8256 [6' Lan]
15	N/A	N/A	30' Span, 1-Person Drop [282 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 5	Load Cell (Body)	1	8256 [6' Lan]
16	N/A	N/A	30' Span, Ratchet Drop [130 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 6	Load Cell (In Line)	1	727630 [30' Con]
17	N/A	N/A	30' Span, Ratchet Drop [130 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 6	Load Cell (In Line)	1	727326 [30' Dur]
18	N/A	N/A	30' Span, Ratchet Drop [130 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 6	Load Cell (In Line)	1	82706SB1 [6' Dur Web]
19	N/A	N/A	30' Span, Ratchet Drop [130 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 6	Load Cell (In Line)	1	72706SB1 [6' Mini Web]

20	N/A	N/A	30' Span, 2-Person Drop [493.5 lbs]	Test mass does not hit ground, system remains intact, forces to anchor point must be below 5000 lbs.	Test mass should start drop from 1' above HLL system line	See Special Instructions Above, Figure 2	Load Cell (In Line)	1	8247 [12' Lan]
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Sign-Off Section

Electronic Signoff on Arena PLM	Electronic Signoff on Arena PLM	Electronic Signoff on Arena PLM
Director of Engineering Mark Sasaki	Production Manager Dan Redden	Sr. PLM Cory Schurian

FTE-08 Rev B	4/12/2017
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Testing Results Form

Project/Product:	00058 (3DH-040914B) Cable HLL System
Part #:	620030, 620060, & 620100
Maker/Vendor:	FallTech
Protocol Code:	DTP-000047
Date:	5/15/2017

Description: 100' Span - 2 Person Drop - 8253 SALs

Standard: N/A

TEST	RESULTS	COMMENTS
Test # 1	PASS	Max Force: 2385.8 lbs Avg Force: 1768.5 lbs Fall Clearance: 34.7 ft
Test #2	PASS	Max Force: 2353.1 lbs Avg Force: 1796.6 lbs Fall Clearance: 33.0 ft
Test #3	PASS	Max Force: 2416 lbs Avg Force: 1791.6 lbs Fall Clearance: 34.0 ft

Description: 100' Span - 1 Person Drop - 8253 SAL

Standard: N/A

TEST	RESULTS	COMMENTS
Test #4	PASS	Max Force: 2260.2 lbs Avg Force: 1690.1 lbs Fall Clearance: 26.9 ft
Test #5	PASS	Max Force: 2259.3 lbs Avg Force: 1715.1 lbs Fall Clearance: 27.5 ft
Test #6	PASS	Max Force: 2249.4 lbs Avg Force: 1680.7 lbs Fall Clearance: 27.3 ft

Description: 60' Span - 1 Person Drop - 8256 SAL

Standard: N/A

TEST	RESULTS	COMMENTS
Test #7	PASS	Max Force: 2263.4 lbs Avg Force: 1600.03 lbs Fall Clearance: 25.0 ft

Description: 60' Span - 2 Person Drop - 8256 SALs

Standard: N/A

TEST	RESULTS	COMMENTS
Test #8-1	PASS	Max Force: 3151.2 lbs Avg Force: 1854.9 lbs Fall Clearance: 27.5 ft
Test #8-2	PASS	Max Force: 3242.5 lbs Avg Force: 1970.8 lbs Fall Clearance: 27.8 ft
Test #8-3	PASS	Max Force: 3290.1 lbs Avg Force: 1627.2 lbs Fall Clearance: 26.7 ft

Description: 30' Span - 1 Person Drop - 8256 SAL

Standard: N/A

TEST	RESULTS	COMMENTS
Test #9	PASS	Max Force: 2639.5 lbs Avg Force: 1547.9 lbs Fall Clearance: 22.1 ft
Test #10	PASS	Max Force: 2403.3 lbs Avg Force: 1715.1 lbs Fall Clearance: 21.6 ft
Test # 11	PASS	Max Force: 2435.1 lbs Avg Force: 1570.4 lbs Fall Clearance: 22.0 ft

Description: 30' Span - 2 Person Drop - 8256 SALs

Standard: N/A

TEST	RESULTS	COMMENTS
Test #12	PASS	Max Force: 2440.9 lbs Avg Force: 1765.9 lbs Fall Clearance: 24.1 ft
Test #13	PASS	Max Force: 2623.2 lbs Avg Force: 1842.6 lbs Fall Clearance: 24.2 ft
Test #14	PASS	Max Force: 2489.2 lbs Avg Force: 1820.97 lbs Fall Clearance: 24.0 ft

Description: 30' Span - 1 Person Drop - 8256 SAL - Body Force Load Cell Position

Standard: N/A

TEST	RESULTS	COMMENTS
Test #15	PASS	Max Force: 1077.2 lbs Avg Force: 781.2 Fall Clearance: 22.2 ft

Description: 30' Span - Lightweight SRD Ratchet Drop - 727630 Contractor SRD

Standard: N/A

TEST	RESULTS	COMMENTS
Test #16	PASS	Max Force: 2086.7 lbs Avg Force: 1344.7 lbs Fall Clearance: N/A

Description: 30' Span - Lightweight SRD Ratchet Drop - 7232C DuraTech SRD

Standard: N/A

TEST	RESULTS	COMMENTS
Test #17	PASS	Max Force: 2424.8 lbs Avg Force: 1443.2 lbs Fall Clearance: N/A
<i>Description: 30' Span - Lightweight SRD Ratchet Drop - 82706SB1 DuraTech SRD</i>		
<i>Standard: N/A</i>		
TEST	RESULTS	COMMENTS
Test #18	PASS	Max Force: 2145 lbs Avg Force: 1347.3 lbs Fall Clearance: N/A
<i>Description: 30' Span - Lightweight SRD Ratchet Drop - 72706SB1 Mini SRD</i>		
<i>Standard: N/A</i>		
TEST	RESULTS	COMMENTS
Test #19	PASS	Max Force: 2300.9 lbs Avg Force: 1442.7 lbs Fall Clearance: N/A
<i>Description: 30' Span - 2 Person Drop - 8247 12'FF SALs</i>		
<i>Standard: N/A</i>		
TEST	RESULTS	COMMENTS
Test #20	PASS	Max Force: 3229.5 lbs Avg Force: 1957.4 lbs Fall Clearance: 23.5 ft
<i>Description: 100' Span - Lightweight SRD Ratchet Drop - 727630 Contractor SRD</i>		
<i>Standard: N/A</i>		
TEST	RESULTS	COMMENTS
Test #21	PASS	Max Force: 2422.6 lbs Avg Force: 1426.4 lbs Fall Clearance: N/A
Special Comments		
<p><i>Summary:</i> This test protocol, test execution, and test results serve as the certification testing for the Cable HLL system. Based on these results, I recommend the move to production on this product. These items have passed FallTech's internal testing requirements.</p> <p>Note: Red colored text of Maximum/Peak Force values denoted that the product used in this configuration will not meet a 2:1 safety factor when used with 5,000 lb. rated anchor points.</p>		
Form Completed by FallTech Engineer:		Date:
Tyler Wilson		8/2/2017
		FTE-10 Rev A
		7.1.13

FallTech Test Report

Test Report Number	PC-0392	Date	11/4/2014	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.1-2007 4.3.6				
Base Part #	7324	Description	Pass Through Anchor				
Proposed Part #	N/A	Build By Whom	Production	BOM	No		
Test Request #	PC-0392	Date Received	10/17/2014	Date Complete	10/31/2014		
Test Operator	Peter Mahbubani	Test Operator	Yesbet Sierra				

Material/Sample Identification

Sample ID	Description
2117115	Pass Through Anchor


Test Summary

Test Specification	Test Criteria		Test Result	Pass/Fail
ANSI Z359.1-2007 4.3.6	Static Strength	3,600 Lbf \geq 1 Minute	3681.8 Lbf	Pass
	Static Strength	Withstand 3,600 Lbf Load without Cracking, Breaking or Permanent Deformation	No Visible Cracking, Breaking or Permanent Deformation	Pass
	Static Strength	5,000 Lbf \geq 1 Minute	5038.4 Lbf	Pass

Conclusion

FallTech P/N 7324 Pass Through Anchor meets the requirements of ANSI Z359.1-2007.

Report Signatories and Approval

Lab Quality Manager Dan Redden		Date	11/4/2014
Witnessed by	Not Applicable	Date	Not Applicable

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 Communiqué dated January 2009).



FallTech Test Report

Test Report Number	PC-0392	Date	11/4/2014	Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification	ANSI Z359.1-2007 4.3.6				
Base Part #	7324	Description	Pass Through Anchor				
Proposed Part #	N/A	Build By Whom	Production	BOM	No		
Test Request #	PC-0392	Date Received	10/17/2014	Date Complete	10/31/2014		

Test Information

Description of Test	Static Strength Test, Anchorage Connector		
Test Method	ANSI Z359.1-2007 4.3.6		
Acceptance Criteria	ANSI Z359.1-2007 3.2.5.1		
Test Procedure	TI-085		
Conditioning Requirements	Not Applicable	Actual Conditions	Not Applicable
Time Removed from Conditioning	Not Applicable	Time Tested	Not Applicable
Test Environment	72.2°F / 59.6% RH		
Test By	Peter Mahbubani, Yesbet Sierra	Test Date	10/31/2014

Equipment Used

Equipment Used	Size/Type	Control Number	Calibration Date
Load Cell	20,000 Lbs	240878	10/28/2014
Stop Watch	0.001%	130700527	11/15/2013

Test Results

Sample ID	Characteristic	Criteria	Test Data	Pass/Fail
2117115	Static Strength	3,600 Lbf \geq 1 Minute	3681.8 Lbf	Pass
2117115	Static Strength	Withstand 3,600 Lbf Load without Cracking, Breaking or Permanent Deformation	No Visible Cracking, Breaking or Permanent Deformation	Pass
2117115	Static Strength	5,000 Lbf \geq 1 Minute	5038.4 Lbf	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 Communiqué dated January 2009).



FallTech Test Report

Test Report No.	PC-2067	Rpt. Date	11/3/2020	Rpt. Rev		Rev Date	
Report Prepared For	FallTech						
Initiated By	Dan Redden	Test Specification(s)	OSHA 1926.502: (d)(15), (d)(15)(i); (d)(16)(v)				
Part No.	62206R	Part No. Revision	A				
Part Description	Install Ratchet Strap Tensioner for Temp HLLs						
Test Request No.	PC-2067	Date Complete	11/3/2020				
Test Operator(s)	Yesbet Sierra / Jay Sponholz						

Material/Sample Identification

Sample ID	Description
SST1	Install Ratchet Strap Tensioner for Temp HLLs
SST2	Install Ratchet Strap Tensioner for Temp HLLs
SST3	Install Ratchet Strap Tensioner for Temp HLLs
DPT6	Install Ratchet Strap Tensioner for Temp HLLs

Test Summary

Test Specification	Test Criteria		Test Result	Pass/Fail
OSHA 1926.502 (d)(15)(i)	Static Strength	5000 Lbf. ≥ 1 Minute	5029.7 Lbf.	Pass
	Static Strength	Withstand 5000 lb Load without breaking	No Breaking	Pass
OSHA 1926.502 (d)(15)(i)	Static Strength	5000 Lbf. ≥ 1 Minute	5031.3	Pass
	Static Strength	Withstand 5000 lb Load without breaking	No Breaking	Pass
OSHA 1926.502 (d)(15)	Static Strength	5000 Lbf. ≥ 1 Minute	5028.0 Lbf.	Pass
	Static Strength	Withstand 5000 lb Load without breaking	No Breaking	Pass
OSHA 1926.502 (d)(16)(V)	Dynamic Strength	Minimum 5000 Lbf.	6085.5 Lbf.	Pass
	Dynamic Strength	Withstand Drop without releasing load	Did Not Release	Pass

Conclusion

Based upon the samples provided to the Lab: FallTech P/N 62206R Rev. A meets the requirements of OSHA 1926.502

Report Signatories and Approval

Lab Quality Manager		Date	11/3/2020
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Witnessed by	Not Required	Date	N/A
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