		Fall Protection. Prec drew, Inc. 1306 S. Alam	ision Engineered			
Declaration #	S0917005	5b	Declarati	on Date	9	.15.17
Tested Item # 6	20060	SteelGrip [®] 60)' Temporary	Cable H	ILL Asso	embly
	-	clares that the produ ents of the following OSHA 1926	performance s			ty with
t	he requireme	ents of the following	.502 dance with ANSI,	standard((s):	ty with
ti Confo	he requireme ormity Assessmel 1	ents of the following OSHA 1926 nent Method in accord	Lab Le of	standard(/ISEA 125 Level 3	/s): -2014	rd Party Lab o
Level 1: FallTec Outside the Scc	he requireme ormity Assessmel 1	ents of the following OSHA 1926 nent Method in accord Level 2 Level 2: FallTech Within the Scop ISO/IEC Standard 17	Lab Le of 025:2005	standard(/ISEA 125 Level 3	-2014 pendent 3 ccredited t	rd Party Lab
t Confo Level 1: FallTeo Outside the Sco ISO/IEC Standard 1 Supporting Documentation	he requirements formity Assessments el 1	ents of the following OSHA 1926 nent Method in accord Level 2 Level 2: FallTech Within the Scop ISO/IEC Standard 17 00047 PC-20	Lab Le of 025:2005	standard(/ISEA 125 Level 3 .vel 3: Indep ac ISO/IEC St	-2014 pendent 3 ccredited t	rd Party Lab

FallTech Testing Laboratory



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

FallTech Test Report								
Test Report No.	DTP-000047	DTP-000047 Rpt. Date 9/15/2017 Rpt. Rev Rev Date						
Report Prepared For	FallTech	FallTech						
Initiated By	Mark Sasaki	Test Speci	fication(s)	OSHA 1926	6, No Applica	able ANSI S	tandard	
Part No.	620030/620060/620	100		Part No. Re	evision	А		
Part Description	30'/60'/100' SteelGri	ip Temporar	y Cable HLL	System				
Test Request No.	DTP-000047			Date Comp	lete		8/2/2017	
Test Operator(s)	Zack Winters, Tyler	Wilson, Mai	rk 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	Jay Sponholz	Date	9/15/2017				
Director of Engineering	UNES-	Date	9/15/2017				
Witnessed by	Not Required	Date	N/A				



FallTech Testing Laboratory



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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 Speci	fication(s)	OSHA 1926	6, No Applica	able ANSI St	andard		
Part No.	620030/620060/620	100		Part No. Revision A					
Part Description	30'/60'/100' SteelGri	0'/60'/100' SteelGrip Temporary Cable HLL System							
Test Request No.	DTP-000047			Date Comp	lete		8/2/2017		

Test Information								
Description of Test	Steel	SteelGrip Temporary Cable HLL Full System Testing						
Test Method		See attached I	DTP-000047 F	rotocol				
Acceptance Criteria		See attached DTP-000047 Protocol						
Test Procedure		See attached DTP-000047 Protocol						
Conditioning Requirements	N/A	Actual Co	onditions	Ambient				
Time Removed from Conditioning	N/A	Time 1	rested	N/A				
Test Environment		Ambient Conditions, Outdoors						
Test By	Zack Winters		Test	Date	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





Testin - -.

Testing Protocol							
Project/Product:	00058 (3DH-040914B - Temporary Cable HLL Sy	rstem)					
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 Des	scription						
		horizontal lifeline with turnbuckle tensioner and coil energy absorber. The					
system also requires the used with this system to anchors/stanchions. Use	use of personal energy absorbers connected ensure proper horizontal lifeline pretension. er instruction manual will include all information be attached directly to existing anchor points ims, etc.).	between the user and the horizontal lifeline. The tension indicator may be The system will be offered in lengths from 20' to 300' and also full kits with ion relating to single vs. multiple span configurations and span maximum using the provided carabiners or used with web anchor slings or stanchions					
be attached directly to the		ed directly to the test structure. The personal energy absorbers (PEAs) will onnector and oriented with the shock pack closest to the test mass. The test					
Section 3: Testing Inst	ructions						
+/- 2lbs. Testing Taw Data to be C 1) Maximum & Average 2) Forces to the "Body" [3) Initial, Dynamic, and F 4) Pretension force of life 5) Total fall clearance 6) HLL Energy Absorber of	Collected: Forces to the Anchor Point (Load cell in-line w Load cell between test mass and personal en inal Sag distances of lifeline eline after installation						
Anchor Lood Cell	Tension Indicator	HLLEA Tension Indicator Anchor Load Cell 30'/60' 2 Person Drop Configuration. 493.5 lb Test Mass					
Figure 1: 1-Pers	son Drop Test Configuration 30'/60'	Figure 2: 2-Person Drop Test Configuration 30'/60'					
Anchor Load Cell Tu 100' 1 Person Drop Configuration	Tension Indicator	HLLEA #1 Tension Indicator Anchor Load Cell TumBuckle 493.5 lb Test Mas					

Figure 3: 1-Person Drop Test Configuration 100'			Figure 4: 2-Person Drop Test Configuration 100'						
3076	0' 1 Person Dro	<u>;</u>]• ⊭#	tion Indicator TurnBu Ition (Body Force).	to de la contra de	1. Person Racheling		est Mass		1 x SRD PEA
	-			uration 30' (Body Force)	Figure 6:	1 Person Drop R	achet Test C	Configuratio	n 30'
	on 4: Dyr Standard	amic Tes Section	ting 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	• •	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 Ibs.	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 Ibs.	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 Ibs.	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]

				Test mass does not hit	Test mass should				
9	N/A	N/A	30' Span, 1- Person Drop [282 lbs]	ground, system remains intact, forces to anchor point must be below 5000 lbs.	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 Ibs.	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, Rachet 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, Rachet 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, Rachet 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, Rachet 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		30' Span, 2- Person Drop [493.5 lbs]	ground, intact, fo	orces to anchor	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]
Sign-Off Section										
Electronic Signoff on Arena PLM Electro					onic Signoff on Arena P	Electronic Signoff on Arena PLM				
	Dir	ector of E Mark S	ngineering asaki		F	Production Manager Dan Redden	Sr. PLM Cory Schurian			
								FTE-08	Rev B	4/12/2017

	Fall Protection. Precision Engineered.							
		Testing Results Form						
Project/Product:								
Part #:	620030, 620060,							
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 an - 1 Person Drop - 8253 .	Max Force: 2416 lbs Avg Force: 1791.6 lbs Fall Clearance: 34.0 ft						
Standard: N/A	<u>an - 1 Person Drop - 8253</u>							
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' Spa	n - 1 Person Drop - 8256 S							
Standard: N/A								
TEST	RESULTS	COMMENTS						
Test #7	PASS	Max Force: 2263.4 lbs Avg Force: 1600.03 lbs Fall Clearance: 25.0 ft						
	n - 2 Person Drop - 8256 S	ALs						
Standard: N/A		1						
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 Test #8-3	PASS PASS	Max Force: 3242.5 lbs Avg Force: 1970.8 lbs Fall Clearance: 27.8 ft Max Force: 3290.1 lbs Avg Force: 1627.2 lbs Fall Clearance: 26.7 ft						
	n - 1 Person Drop - 8256 S							
Standard: N/A	11 - 1 1 CISON DIOP - 0230 SI							
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						
	n - 2 Person Drop - 8256 S.	ALs						
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						
	n - 1 Person Drop - 8256 Si	AL - 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						
		net 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' Spa	n - Lightweight SRD Ratch	et Drop - 7232C DuraTech SRD						
Standard: N/A								

TEST	RESULTS			COMMENTS				
Test #17	PASS	Max Force: 2	424.8 lbs	Avg Force: 1443.2	lbs Fall Clearance: N/A			
Description: 30' Span - Lightweight SRD Ratchet Drop - 82706SB1 DuraTech SRD								
Standard: N/A								
TEST	RESULTS	COMMENTS						
Test #18	PASS		Max Force: 2145 lbs Avg Force: 1347.3 lbs Fall Clearance: N/A					
	an - Lightweight SRD Ratche	et Drop - 72706SB1 Mir	ni SRD					
Standard: N/A								
TEST	RESULTS			COMMENTS				
Test #19	PASS		300.9 lbs	Avg Force: 1442.7	lbs Fall Clearance: N/A			
	an - 2 Person Drop - 8247 12	'FF SALs						
Standard: N/A								
TEST	RESULTS COMMENTS							
Test #20								
Description: 100' Span - Lightweight SRD Ratchet Drop - 727630 Contractor SRD								
	Standard: N/A							
	TEST RESULTS COMMENTS							
Test #21 PASS Max Force: 2422.6 lbs Avg Force: 1426.4 lbs Fall Clearance: N/A								
Special Comments								
Summary: This test	protocol, test execution, ar	d test results serve as	the certifi	cation testing for th	ne Cable HLL sytem. Based on			
these results, I reco	mmend the move to produc	tion on this product. T	hese item	ns have passed FallT	Tech's internal testing			
requirements.	these results, I recommend the move to production on this product. These items have passed FallTech's internal testing requirements.							
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.								
Form C	Form Completed by FallTech Engineer:				Date:			
Tyler Wilson				8/2/2017				
			<u> </u>	FTE-10 Rev A	7.1.13			
					•			

FallTech Testing Laboratory



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

FallTech Test Report							
est Report No.	PC-2067	Rpt. Date 11/3/2	020 Rpt. Rev	Rev Date			
Report Prepared For	FallTech						
nitiated By	Dan Redden	Test Specification(s		(d)(15), (d)(15)(i); (d)(16)(v)			
Part No.	62206R		Part No. Revision	ר A			
art Description	Install Ratchet Strap Tensioner for Temp HLLs						
est Request No.	PC-2067		Date Complete	11/3/2020			
est Operator(s)	Yesbet Sierra / Jay Spor	holz					
	Mat	erial/Sample Identif	ication				
Sample ID		De	scription				
SST1			p Tensioner for Temp HLLs				
SST2	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			
	Static Strength	5000 Lbf. ≥ 1 Minut	e 5029.7 Lbf.	Pass			
OSHA 1926.502 (d)(15)(i)	Static Strength	Withstand 5000 lb Lo without breaking	No Breaking	Pass			
	Static Strength	5000 Lbf. ≥ 1 Minut	ie 5031.3	Pass			
OSHA 1926.502 (d)(15)(i)	Static Strength	Withstand 5000 lb Lo without breaking	No Breaking	Pass			
	Static Strength	5000 Lbf. ≥ 1 Minut	e 5028.0 Lbf.	Pass			
OSHA 1926.502 (d)(15)	Static Strength	Withstand 5000 lb Lo without breaking	No Breaking	Pass			
OSHA 1926.502	Dynamic Strength	Minimum 5000 Lb	6085.5 Lbf.	Pass			
	Dynamic Strength	Withstand Drop with releasing load	Did Not Release	e Pass			
(d)(16)(V)	Dynamic Strength	Teleasing Ioau					
(d)(16)(V)		Conclusion					

Report Signatories and Approval							
Lab Quality Manager	Jay Sponkolz	Date	11/3/2020				
Witnessed by	Not Required	Date	N/A				



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

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