



INTERTEK TEST REPORT

Frontline Fall Protection Inc
6 Lee Blvd
Malvern, PA 19355
Phone: +1 305-721-4407
info@frontlinefall.com

Intertek Test Report Number: 106119125CRT-001
Original Intertek Test Report Number: G102785334CRT-001
Intertek Signed Quote Number (s): Qu-01510686
Product Type: PEA Y Lanyard
Product Model: LIS62RDL
Shared Model: LIS61SDL
Type of Testing Entity: Third Party Testing Laboratory
Test Standard: ANSI/ASSE Z359.13-2013
Evaluation/Testing Location: Intertek, 3933 US Rte 11, Cortland NY 13045 **
Date(s) of Testing: 12/5/16 – 12/7/16

Dear Mr. Betancourt,

Intertek has completed the evaluation of your LIS62RDL PEA Y 6' Lanyard, to the client specified requirements of American National Standard, Safety Requirements for Personal Energy Absorbers and Energy Absorbing Lanyards, ANSI/ASSE Z359.13. The test samples were received in pristine condition. The evaluation was performed at Intertek in Cortland, NY on the dates posted below. The results of these tests are as indicated below.

Table with 4 columns: Tests Completed, Test Date, ANSI/ASSE Z359.13-2013, Pass/Fail. Rows include Static Strength, Activation Force, Dynamic Performance (Y Lanyard), Dynamic Performance (Hip), General Requirements, and Markings and instructions.

Please see attached test data for details.

This test report concludes the work anticipated in the testing phase of your project. If there are any questions regarding this report please contact the undersigned at 607-753-6711.

Written by,

Reviewed by,

Alex Smith (signature)

Matthew Stevens (signature)

Alex Smith
Technician
Performance Group

Matthew Stevens
Team Leader
Performance Group

** Intertek Laboratory is ISO/IEC 17025:2005 (CAN-P-4E) accredited by Standards Council of Canada (SCC) with the scope available for review at the following location: http://www.scc.ca/en/palcan/38

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Intertek, Inc.

3933 US Route 11, Cortland, NY 13045 USA
Telephone: +1 607-753-6711 Fax: +1 607-756-9891 Web: www.intertek.com



INTERTEK TEST DATA SHEETS

Client/Ref #: <u>Frontline Fall Protection Inc</u>	Engineer: <u>Andrew Rulison</u>
Job No.: <u>G106119125</u>	Tested By: <u>Matthew Stevens</u> Date: <u>12/07/2016</u>
Product: <u>PEA 6' Y Lanyard</u>	Reviewed By: <u>Matthew Stevens</u> Date: <u>3/5/2025</u>
Model No.: <u>LIS62RDL</u>	Standard: <u>ANSI/ASSE Z359.13-2013</u>
Description: <u>See Above</u>	

Sample Control No : CRT1611301548 **TRANSCRIBED TEST DATA**

System Verification			
System Includes: Load Cell, NI Card, & Labview Program			
Pre-Calibration			
1. Zero program			Yes
2. Attach weight to load cell	Weight used (lbs): 282		
3. Activate Labview			Yes
4. Record Weight	Weight recorded (lbs): 282.4		
Post-Calibration			
1. Zero program			Yes
2. Attach weight to load cell	Weight used (lbs): 282		
3. Activate Labview			Yes
4. Record Weight	Weight recorded (lbs): 282.6		
5. Completed by and date	By: MS	Date: 12/5/16 – 12/7/16	

Section (Test)	Requirement	Results	Compliance	
3	Requirements			
3.1	Personal Energy Absorber (PEA) Component			
3.1.1	Classifications			
3.1.1.1	6 ft FF		YES	PASS
3.1.1.2	12 ft FF		NA	NA
3.1.2	Material	Virgin synthetic materials	YES	PASS
3.1.3	Terminations			
3.1.3.1	Spliced		NA	NA
3.1.3.2	Stitched		YES	PASS
3.1.3.3	Wire rope		NA	NA
3.1.3.4	Terminations (other)		NA	NA
3.1.4	Connectors	Meet Z359.1 or Z359.12	YES	PASS
3.1.5	Deployment indicator	Obvious it is activated, flag or label	YES	PASS

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3.2.9 (4.7)	<p>Static Strength Testing of Y-Lanyards</p> <p>Subject Y-lanyard to a force > 5,000 lbs-f for 1 minute. Time to reach load to be 3-minutes minimum.</p>	<table border="1"> <tr> <td colspan="5">Configuration #1 (section 4.7.1)</td> </tr> <tr> <td colspan="5">Connection – central connector/one EAL leg</td> </tr> <tr> <td>6 ft</td> <td>X</td> <td>Sample: 1</td> <td>Sample: 2</td> <td>Sample: 3</td> </tr> <tr> <td>12 ft</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Break</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> <tr> <td colspan="5">Configuration #2 (section 4.7.2)</td> </tr> <tr> <td colspan="5">Connection – central connector/alternate leg</td> </tr> <tr> <td>6 ft</td> <td>X</td> <td>Sample: 1</td> <td>Sample: 2</td> <td>Sample: 3</td> </tr> <tr> <td>12 ft</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Break</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> <tr> <td colspan="5">Configuration #3 (section 4.7.3)</td> </tr> <tr> <td colspan="5">Connection – between two EAL legs (Miss-use)</td> </tr> <tr> <td>6 ft</td> <td>X</td> <td>Sample: 1</td> <td>Sample: 2</td> <td>Sample: 3</td> </tr> <tr> <td>12 ft</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">Break</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> </table>	Configuration #1 (section 4.7.1)					Connection – central connector/one EAL leg					6 ft	X	Sample: 1	Sample: 2	Sample: 3	12 ft					Break		NO	NO	NO	Configuration #2 (section 4.7.2)					Connection – central connector/alternate leg					6 ft	X	Sample: 1	Sample: 2	Sample: 3	12 ft					Break		NO	NO	NO	Configuration #3 (section 4.7.3)					Connection – between two EAL legs (Miss-use)					6 ft	X	Sample: 1	Sample: 2	Sample: 3	12 ft					Break		NO	NO	NO	PASS
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3.2.10.1 3.2.10.2 (4.8 & 4.9)	AMBIENT DRY: Dynamic Performance Testing of EA Lanyards, Test within 5-min. of conditioning <table border="1" style="width:100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th colspan="3">Requirements</th> </tr> <tr> <th></th> <th>Avg. AF lbs-f</th> <th>Max. AF lbs-f</th> </tr> </thead> <tbody> <tr> <td colspan="3">Ambient Dry</td> </tr> <tr> <td>6ft FF</td> <td>< 900</td> <td>< 1,800</td> </tr> <tr> <td>12 ft FF</td> <td>< 1,350</td> <td>< 1,800</td> </tr> <tr> <td colspan="3">Max. Deployment Distance</td> </tr> <tr> <td>6ft FF</td> <td>48- inches</td> <td></td> </tr> <tr> <td>12 ft FF</td> <td>60-inches</td> <td></td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th colspan="2">Condition Samples 24 hrs</th> </tr> </thead> <tbody> <tr> <td>Temp: 21 C +/-3 (70 F +/- 5)</td> <td>69.8 F</td> </tr> <tr> <td>RH: 65 +/-5</td> <td>64.3 %</td> </tr> <tr> <td>Start Time:</td> <td>12/4/16</td> </tr> <tr> <td>Stop Time:</td> <td>12/5/16</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th colspan="6">Ambient Dry – Single Leg Connection</th> </tr> </thead> <tbody> <tr> <td>6 ft FF:</td> <td>X</td> <td>Sample: 1</td> <td>Sample: 2</td> <td>Sample: 3</td> <td></td> </tr> <tr> <td>12 ft FF:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>“Zero” force sensor:</td> <td></td> <td>YES</td> <td>YES</td> <td>YES</td> <td></td> </tr> <tr> <td>Time: chamber to drop:</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>Min</td> </tr> <tr> <td>Time: in chamber</td> <td></td> <td>>24h</td> <td>>24h</td> <td>>24h</td> <td>Hrs/min</td> </tr> <tr> <td>Elongation, initial:</td> <td></td> <td>108</td> <td>108</td> <td>108</td> <td>Inches</td> </tr> <tr> <td>Elongation, final:</td> <td></td> <td>149</td> <td>150</td> <td>151</td> <td>Inches</td> </tr> <tr> <td>Total Elongation (Ef-Ei):</td> <td></td> <td>41</td> <td>42</td> <td>43</td> <td>Inches</td> </tr> <tr> <td>AF avg. :</td> <td></td> <td>756</td> <td>754</td> <td>741</td> <td>Lbs-f</td> </tr> <tr> <td>AF max. :</td> <td></td> <td>1112</td> <td>1019</td> <td>996</td> <td>Lbs-f</td> </tr> </tbody> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6">Ambient Dry – Dual Leg Connection</th> </tr> </thead> <tbody> <tr> <td>6 ft FF:</td> <td>X</td> <td>Sample: 1</td> <td>Sample: 2</td> <td>Sample: 3</td> <td></td> </tr> <tr> <td>12 ft FF:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>“Zero” force sensor:</td> <td></td> <td>YES</td> <td>YES</td> <td>YES</td> <td></td> </tr> <tr> <td>AF avg. :</td> <td></td> <td>753</td> <td>748</td> <td>746</td> <td>Lbs-f</td> </tr> <tr> <td>AF max. :</td> <td></td> <td>1067</td> <td>977</td> <td>1010</td> <td>Lbs-f</td> </tr> </tbody> </table>	Requirements				Avg. AF lbs-f	Max. AF lbs-f	Ambient Dry			6ft FF	< 900	< 1,800	12 ft FF	< 1,350	< 1,800	Max. Deployment Distance			6ft FF	48- inches		12 ft FF	60-inches		Condition Samples 24 hrs		Temp: 21 C +/-3 (70 F +/- 5)	69.8 F	RH: 65 +/-5	64.3 %	Start Time:	12/4/16	Stop Time:	12/5/16	Ambient Dry – Single Leg Connection						6 ft FF:	X	Sample: 1	Sample: 2	Sample: 3		12 ft FF:						“Zero” force sensor:		YES	YES	YES		Time: chamber to drop:		1	1	1	Min	Time: in chamber		>24h	>24h	>24h	Hrs/min	Elongation, initial:		108	108	108	Inches	Elongation, final:		149	150	151	Inches	Total Elongation (Ef-Ei):		41	42	43	Inches	AF avg. :		756	754	741	Lbs-f	AF max. :		1112	1019	996	Lbs-f	Ambient Dry – Dual Leg Connection						6 ft FF:	X	Sample: 1	Sample: 2	Sample: 3		12 ft FF:						“Zero” force sensor:		YES	YES	YES		AF avg. :		753	748	746	Lbs-f	AF max. :		1067	977	1010	Lbs-f	<p>PASS</p>
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4.10	Dynamic Performance Testing of Y-Lanyards – Hip Test Ref: section 3.2.10	<table border="1" style="width:100%; border-collapse: collapse; margin-bottom: 10px;"> <thead> <tr> <th>Ambient Dry</th> <th>Sample 1</th> <th>Sample 2</th> <th>Sample 3</th> </tr> </thead> <tbody> <tr> <td>6 ft FF:</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>12 ft FF:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>“Zero” sensor:</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>AF avg. : Lbs</td> <td>725</td> <td>728</td> <td>754</td> </tr> <tr> <td>AF max. : Lbs</td> <td>1229</td> <td>1110</td> <td>1160</td> </tr> <tr> <td>Nylon keeper broke</td> <td>YES</td> <td>YES</td> <td>YES</td> </tr> </tbody> </table> <p>* IF keeper broke, the EAL must include a warning label on each leg (section 5.2.2)</p>	Ambient Dry	Sample 1	Sample 2	Sample 3	6 ft FF:	X	X	X	12 ft FF:				“Zero” sensor:	Yes	Yes	Yes	AF avg. : Lbs	725	728	754	AF max. : Lbs	1229	1110	1160	Nylon keeper broke	YES	YES	YES	<p>PASS</p>																																																																																																											
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4.2	<p>Activation Force Testing of PEA's</p> <p>Apply 10 lb load and measure bearing pt to bearing pt, apply static force of 450 lbs minimum, hold for no less than 1 minute, examine for activation, release load, allow sample to recover un-tensioned for 1 hour , then re-measure with 10-lb load, shall not activate or elongate > 2-inches.</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width:15%">6 ft FF:</td> <td style="width:10%; text-align:center">X</td> <td style="width:15%">Sample: 1</td> <td style="width:15%">Sample: 2</td> <td style="width:15%">Sample: 3</td> <td style="width:10%;"></td> </tr> <tr> <td>12 ft FF:</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Signs of Activation:</td> <td></td> <td align="center">NO</td> <td align="center">NO</td> <td align="center">NO</td> <td></td> </tr> <tr> <td>Length, initial:</td> <td></td> <td align="center">72</td> <td align="center">72</td> <td align="center">72</td> <td align="center">Inches</td> </tr> <tr> <td>Length, final:</td> <td></td> <td align="center">72 3/4</td> <td align="center">72 3/4</td> <td align="center">72 3/4</td> <td align="center">Inches</td> </tr> <tr> <td>Elongation (Lf-Li):</td> <td></td> <td align="center">3/4</td> <td align="center">3/4</td> <td align="center">3/4</td> <td align="center">Inches</td> </tr> </table>	6 ft FF:	X	Sample: 1	Sample: 2	Sample: 3		12 ft FF:						Signs of Activation:		NO	NO	NO		Length, initial:		72	72	72	Inches	Length, final:		72 3/4	72 3/4	72 3/4	Inches	Elongation (Lf-Li):		3/4	3/4	3/4	Inches		PASS				
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5	Marking and Reference Literature																																										
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5.1.1	Shall be in English		PASS																																								
5.1.2	Required markings shall endure the life of the component, when PSL's are used they shall comply with UL969-89		PASS																																								
5.1.3	<p>Equipment shall be marked with the following:</p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width:45%">Marking</th> <th style="width:25%">Comments</th> <th style="width:10%">YES</th> <th style="width:10%">NO</th> <th style="width:10%">NA</th> </tr> </thead> <tbody> <tr> <td>Part number and model designation</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>Year of manufacture</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>Manufacturer's name or logo</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>Capacity rating</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>Serial number</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>Standard number</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>Warning to follow the manufacturer's instructions included with the equipment at time of shipment from the manufacturer</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> </tbody> </table>	Marking	Comments	YES	NO	NA	Part number and model designation		X			Year of manufacture		X			Manufacturer's name or logo		X			Capacity rating		X			Serial number		X			Standard number		X			Warning to follow the manufacturer's instructions included with the equipment at time of shipment from the manufacturer		X				PASS
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5.2	Specific marking requirements																																										

INTERTEK TEST DATA SHEETS

Client/Ref #:	<u>Frontline Fall Protection Inc</u>	Engineer:	<u>Andrew Rulison</u>
Job No.:	<u>G106119125</u>	Tested By:	<u>Matthew Stevens</u> Date: <u>12/07/2016</u>
Product:	<u>PEA 6' Y Lanyard</u>	Reviewed By:	<u>Matthew Stevens</u> Date: <u>3/5/2025</u>
Model No.:	<u>LIS62RDL</u>	Standard:	<u>ANSI/ASSE Z359.13-2013</u>
Description:	<u>See Above</u>		

Sample Control No : CRT1611301548 **TRANSCRIBED TEST DATA**

Section (Test)	Requirement	Results	Compliance																																																																						
5.2.1	PEA's and EAL's shall be marked with the following:	<table border="1"> <thead> <tr> <th>Marking</th> <th>Comments</th> <th>YES</th> <th>NO</th> <th>NA</th> </tr> </thead> <tbody> <tr> <td>The fiber used in the material of construction</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>The length</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>The need to avoid contact with sharp edges and abrasive surfaces</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>The need to make only compatible connections</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>The maximum elongation</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>Restriction, if, any, on the types of components, with which the PEL is designed to be used</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>The Avg AF, Max FF distance , and capacity of the PEA on a separate label identical in size, color, and content as fig 17a and 17b</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> <tr> <td>6 ft FF PEA's shall be in black print on a contrasting white background, fig 17a</td> <td></td> <td></td> <td></td> <td align="center">X</td> </tr> <tr> <td>12 ft FF PEA's shall be in white print on a contrasting black background, fig 17b</td> <td></td> <td align="center">X</td> <td></td> <td></td> </tr> </tbody> </table>	Marking	Comments	YES	NO	NA	The fiber used in the material of construction		X			The length		X			The need to avoid contact with sharp edges and abrasive surfaces		X			The need to make only compatible connections		X			The maximum elongation		X			Restriction, if, any, on the types of components, with which the PEL is designed to be used		X			The Avg AF, Max FF distance , and capacity of the PEA on a separate label identical in size, color, and content as fig 17a and 17b		X			6 ft FF PEA's shall be in black print on a contrasting white background, fig 17a				X	12 ft FF PEA's shall be in white print on a contrasting black background, fig 17b		X			PASS																				
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5.2.2	Y-Lanyard Marking In addition to, Y-Lanyards that fail the Dynamic Hip Test in section 3.2.10 must include a warning on both connecting ends of the lanyard specifically directing users how to safely store the unused leg of the lanyard		PASS																																																																						
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Description:	<u>See Above</u>		

Sample Control No : CRT1611301548 **TRANSCRIBED TEST DATA**

Section (Test)	Requirement	Results	Compliance
5.3.3	Instructions shall require that only the equipment manufacturer , or persons or entities authorized in writing by the manufacturer, shall make repairs to the equipment		PASS
5.3.4	Instructions shall require the user to remove equipment from field service if it has been subjected to the forces of arresting a fall		PASS

SECTION 5
REVISION HISTORY

REPORT NUMBER	DATE OF REVISION	DESCRIPTION OF CHANGE:	PROJECT OWNER	REVIEWED BY
106119125CRT-001	3/5/2024	Report Extension	Alex Smith	Matthew Stevens