Jessica Halverson
Guardian Fall Protection Inc.
6305 S 231st St
Kent, WA 98032-1872

Intertek Test Report Number:	**G102531900CRT-016**
Intertek *Signed* Quote Number (s):	**Qu-00688791**
Client PO#:	**154263**
Product Type:	**Self-Retracting Lanyard**
Product Model:	**10915**
Type of Testing Entity:	**Third Party Testing Laboratory**
Test Standard:	**ANSI/ASSE Z359.14-2014**
Manufacturer's Name and Address:	**See Above**
Evaluation/Testing Location:	**Intertek, 3933 US Rte 11, Cortland NY 13045 ****
Date(s) of Testing:	**5/4/16-5/6/16**

Dear Jessica,

Intertek has completed the evaluation of the self-retracting Lanyard model 10915, to the client specified requirements of American National Standard, Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems, ANSI/ASSE Z359.14-2014. The test samples were received in pristine condition. The evaluation was performed at Guardian Fall Protection located in Kent, WA on the dates posted below. The results of these tests are as indicated below.

Tests Completed	Test Date	ANSI/ASSE Z359.14-2014, Clause	Pass/Fail
General Requirements	5/4/16	3	PASS
Static Strength	5/6/16	3.1.7 & 4.2.5	PASS
Dynamic Strength (ambient)	5/5/16	3.1.8 & 4.2.3	PASS
Dynamic Performance (ambient)	5/5/16	3.1.9 & 4.2.1	PASS
Dynamic Performance (hot)	5/5/16	3.1.9 & 4.2.8.1	PASS
Dynamic Performance (cold)	5/4/16	3.1.9 & 4.2.8.2	PASS
Dynamic Performance (wet)	5/4/16	3.1.9 & 4.2.8.3	PASS
Markings and instructions	5/4/16	5	PASS

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.

Tested by,

Andrew Rulison
Associate Engineer/Team Lead
Performance Group

Reviewed by,

Jason Allen
Technical Advisor
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."

Client: Guardian Fall Protection Engineer: Andrew Rulison
Job No.: G102531900 Tested By: Andrew Rulison Date: 5/4/16
Product: Self-Retracting Lanyard Reviewed By: Jason Allen Date: 5/6/16
Model No.: 10915 Standard: ANSI/ASSE Z359.14-2014
Sample C/N: See Table **TRANSCRIBED TEST DATA**

TEST EQUIPMENT							
Used for Test	**Description**	**Manufacturer**	**Control No.**	**Model No.**	**Serial No.**	**Cal. Date**	**Cal. Due**
X	Drop Test Structure	Guardian	NA	CAT. 3	-	N/A	N/A
X	Test Dead Weight	NA	15064	282 lbs	-	VBU	VBU
X	Test Dead Weight	NA	15065	300 lbs	-	VBU	VBU
X	Load Cell	NA	235107	-	-	4/9/16	4/9/17
X	Condition Chamber	Thermotron	25098	-	-	8/15/15	8/15/16

<table>
<tr><th>Section (Test)</th><th>Requirement</th><th>Results</th><th>Compliance</th></tr>
<tr><td>3.1.7
(4.2.5)</td><td><u>Static Strength:</u> (ambient) shall withstand 3,000 lbs. when tested to:
- apply a 3,000 lbs ,(+60/-0 lbs) load and maintain for 1-minute to the point of SRL line connection to the SRL drum (across the device)</td><td>
<table>
<tr><td></td><td>Sample: 1</td><td>Sample: 2</td><td>Sample: 3</td></tr>
<tr><td>Withstand the tensile load</td><td>YES</td><td>YES</td><td>YES</td></tr>
</table>
</td><td>PASS</td></tr>
<tr><td>3.1.8
(4.2.3)</td><td><u>Dynamic Strength</u>: (ambient) – shall lock and remained locked until released. The test weight shall not touch the ground. The line constituent shall retain tensile strength of 1,000 lbs. after the dynamic strength test.

1. Connect 300 lb. weight.
2. extract enough line for a 4-foot (48-inch) free fall
3. release the test weight
4. evaluate the line strength of the affected area

Perform Residual Tensile Strength following the Dynamic Strength Test, Section 7.1, 7.2, 7.3 or 7.5.
<table>
<tr><th>Sample:</th><td>Sample: 1</td><td>Sample: 2</td><td>Sample: 3</td></tr>
<tr><td>SN or ID:</td><td>#1</td><td>#2</td><td>#2</td></tr>
<tr><td>SRL Locked:</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>SRL Remained Locked until released</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>Test weight touch the ground</td><td>NO</td><td>NO</td><td>NO</td></tr>
<tr><td>Did SRL payload out to full extension</td><td>NO</td><td>NO</td><td>NO</td></tr>
<tr><td>Did load indictor engage</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>Retain a minimum of 1,000 lbs of residual tensile strength following the test</td><td>YES</td><td>YES</td><td>YES</td></tr>
<tr><td>MAF: (lbs) Ref only:</td><td>1691</td><td>1408</td><td>1219</td></tr>
</table>
</td><td>PASS</td></tr>
</table>

Client:	Guardian Fall Protection	Engineer:	Andrew Rulison		
Job No.:	G102531900	Tested By:	Andrew Rulison	Date:	5/4/16
Product:	Self-Retracting Lanyard	Reviewed By:	Jason Allen	Date:	5/6/16
Model No.:	10915	Standard:	ANSI/ASSE Z359.14-2014		
Sample C/N:	See Table	**TRANSCRIBED TEST DATA**			

Section (Test)	Requirement	Results	Compliance
3.1.9 (4.2.1)	**Dynamic Performance**: "**AMBIENT"**		**PASS**

1. connect 282 lb. weight
2. extract enough line for a 36-inch free fall per Fig 5 in Test Standard.
3. release the test weight

Sample:	Sample: 4	Sample: 5	Sample: 6
Conditioning in: (4 hrs min)	24 Hr.	24 Hr.	24 Hr.
Payout and retract the line per 3.1.6 following test	YES	YES	YES
Lock function shall operate per 3.1.2	YES	YES	YES
Visual indicator shall activate	YES	YES	YES
Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.	953	802	835
Avg Arrest Force (lbs.): Class A <1,350 lbs. Class B < 900 lbs.	638	628	621
Distance Initial (in): D1	36"	36"	36"
Distance Final (in): D2	66 ¼ "	80"	84 ½"
Arrest Distance (in): D2-D1 Class A < 24-inches Class B < 54-inches	30 ¼ "	44"	48 ½"

Section 3.1.6: Results of Retraction Testing following DP testing	Line Extension (in or cm)	Sample: 3.1.5 A (#1)	Sample: 3.1.5 A (#2)	Sample: 3.1.5 A (#3)
(1) Force (lbs) @ 1 ft	1'	2.4	2.2	2.7
Retracted length < 24-inches		N/A	N/A	N/A
(2) Force (lbs) @ 20%	2'	2.0	2.9	3.8
Retracted length < 24-inches		N/A	N/A	N/A
(3) Force (lbs) @ 40%	3'	4.1	4.2	6.5
Retracted length < 24-inches		N/A	N/A	N/A
(4) Force (lbs) @ 60%	4'	6.2	7.1	7.3
Retracted length < 24-inches		N/A	N/A	N/A
(5) Force (lbs) @ 80%	5'	8.8	8.2	9.2
Retracted length < 24-inches		N/A	N/A	N/A
(6) Force (lbs) @ 100%	6'	10.7	10.0	10.1
Retracted length < 24-inches		N/A	N/A	N/A

Client:	Guardian Fall Protection	Engineer:	Andrew Rulison		
Job No.:	G102531900	Tested By:	Andrew Rulison	Date:	5/4/16
Product:	Self-Retracting Lanyard	Reviewed By:	Jason Allen	Date:	5/6/16
Model No.:	10915	Standard:	ANSI/ASSE Z359.14-2014		
Sample C/N:	See Table	**TRANSCRIBED TEST DATA**			

Section (Test)	Requirement	Results	Compliance
3.1.9 (4.2.8.1)	**Dynamic Performance**: **"HEAT"**		**PASS**

1. connect 282 lb. weight
2. extract enough line for a 36-inch free fall per Fig 5 in Test Standard.
3. release the test weight
4. test within 90 seconds of removing from conditioning

54 C, 85% RH	Sample: 7	Sample: 8	Sample: 9
Conditioning in:	9:00 am	9:00 am	9:00 am
Conditioning out:	1:40 pm	1:45 pm	1:50 pm
Payout and retract the line per 3.1.6 following test	YES	YES	YES
Lock function shall operate per 3.1.2	YES	YES	YES
Visual indicator shall activate	YES	YES	YES
Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.	959	872	1043
Avg Arrest Force (lbs.): Class A < 1,575 lbs. Class B < 1,125 lbs.	700	624	777
Distance Initial (in): D1	36"	36"	36"
Distance Final (in): D2	76 ½ "	73"	66"
Arrest Distance (in): D2-D1 Class A < 24-inches Class B < 54-inches	40 ½"	37"	30"

Section 3.1.6: Results of Retraction Testing following DP testing	Line Extension (in or cm)	Sample: 3.1.5 A (#1)	Sample: 3.1.5 A (#2)	Sample: 3.1.5 A (#3)
(1) Force (lbs) @ 1 ft	1'	2.2	1.4	2.1
Retracted length < 24-inches		N/A	N/A	N/A
(2) Force (lbs) @ 20%	2'	2.6	4.1	3.7
Retracted length < 24-inches		N/A	N/A	N/A
(3) Force (lbs) @ 40%	3'	4.1	3.7	4.8
Retracted length < 24-inches		N/A	N/A	N/A
(4) Force (lbs) @ 60%	4'	8.0	7.5	6.7
Retracted length < 24-inches		N/A	N/A	N/A
(5) Force (lbs) @ 80%	5'	8.2	8.3	9.6
Retracted length < 24-inches		N/A	N/A	N/A
(6) Force (lbs) @ 100%	6'	12.0	8.9	11.1
Retracted length < 24-inches		N/A	N/A	N/A

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Product:	Self-Retracting Lanyard	Reviewed By:	Jason Allen	Date:	5/6/16
Model No.:	10915	Standard:	ANSI/ASSE Z359.14-2014		
Sample C/N:	See Table	**TRANSCRIBED TEST DATA**			

Section (Test)	Requirement	Results	Compliance
3.1.9 (4.2.8.2)	**Dynamic Performance**: **"COLD"** 1. connect 282 lb. weight 2. extract enough line for a 36-inch free fall per Fig 5 in Test Standard. 3. release the test weight 4. test within 90 seconds of removing from conditioning		**PASS**

-40 C	Sample: 10	Sample: 11	Sample: 12
Conditioning in: (2 hrs min)	10:45 am	10:45 am	10:45 am
Conditioning out:	3:10 pm	3:15 pm	3:25 pm
Payout and retract the line per 3.1.6 following test	YES	YES	YES
Lock function shall operate per 3.1.2	YES	YES	YES
Visual indicator shall activate	YES	YES	YES
Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.	1225	1152	893
Avg Arrest Force (lbs.): Class A < 1,575 lbs. Class B < 1,125 lbs.	740	857	714
Distance Initial (in): D1	36"	36"	36"
Distance Final (in): D2	69"	65 ½ "	61 ½ "
Arrest Distance (in): D2-D1 Class A < 24-inches Class B < 54-inches	33"	29 ½ "	25 ½ "

Section 3.1.6: Results of Retraction Testing following DP testing	Line Extension (in or cm)	Sample: 3.1.5 A (#1)	Sample: 3.1.5 A (#2)	Sample: 3.1.5 A (#3)
(1) Force (lbs) @ 1 ft	1'	2.4	2.5	2.5
Retracted length < 24-inches		N/A	N/A	N/A
(2) Force (lbs) @ 20%	2'	3.6	2.6	3.2
Retracted length < 24-inches		N/A	N/A	N/A
(3) Force (lbs) @ 40%	3'	4.0	5.0	5.1
Retracted length < 24-inches		N/A	N/A	N/A
(4) Force (lbs) @ 60%	4'	6.7	7.4	8.6
Retracted length < 24-inches		N/A	N/A	N/A
(5) Force (lbs) @ 80%	5'	9.4	10.2	9.8
Retracted length < 24-inches		N/A	N/A	N/A
(6) Force (lbs) @ 100%	6'	10.3	10.9	10.2
Retracted length < 24-inches		N/A	N/A	N/A

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Job No.:	G102531900	Tested By:	Andrew Rulison	Date:	5/4/16
Product:	Self-Retracting Lanyard	Reviewed By:	Jason Allen	Date:	5/6/16
Model No.:	10915	Standard:	ANSI/ASSE Z359.14-2014		
Sample C/N:	See Table	**TRANSCRIBED TEST DATA**			

Section (Test)	Requirement	Results	Compliance
3.1.9 (4.2.8.3)	**Dynamic Performance**: **"WET"**		**PASS**

1. connect 282 lb. weight
2. extract enough line for a 36-inch free fall per Fig 5 in Test Standard.
3. release the test weight
4. test within 90 seconds of removing from conditioning

Sample:	Sample: 13	Sample: 14	Sample: 15
Conditioning in: (2 hrs min)	12:30 pm	12:30 pm	12:30 pm
Conditioning out:	3:35 pm	3:41 pm	3:48pm
Payout and retract the line per 3.1.6 following test	YES	YES	YES
Lock function shall operate per 3.1.2	YES	YES	YES
Visual indicator shall activate	YES	YES	YES
Max. Arrest Force: (lbs.) Class A & B < 1,800 lbs.	765	1116	817
Avg Arrest Force (lbs.): Class A < 1,575 lbs. Class B < 1,125 lbs.	598	715	560
Distance Initial (in): D1	36"	36"	36"
Distance Final (in): D2	84 ½ "	65"	84"
Arrest Distance (in): D2-D1 Class A < 24-inches Class B < 54-inches	48 ½ "	29"	48"

	Line Extension (in or cm)	Sample: 3.1.5 A (#1)	Sample: 3.1.5 A (#2)	Sample: 3.1.5 A (#3)
(1) Force (lbs) @ 1 ft	1'	2.0	1.9	2.5
Retracted length < 24-inches		N/A	N/A	N/A
(2) Force (lbs) @ 20%	2'	3.0	3.7	2.8
Retracted length < 24-inches		N/A	N/A	N/A
(3) Force (lbs) @ 40%	3'	4.4	5.4	4.6
Retracted length < 24-inches		N/A	N/A	N/A
(4) Force (lbs) @ 60%	4'	7.3	6.7	7.2
Retracted length < 24-inches		N/A	N/A	N/A
(5) Force (lbs) @ 80%	5'	10.2	8.5	8.1
Retracted length < 24-inches		N/A	N/A	N/A
(6) Force (lbs) @ 100%	6'	11.1	10.0	9.9
Retracted length < 24-inches		N/A	N/A	N/A

Client: Guardian Fall Protection Engineer: Andrew Rulison
Job No.: G102531900 Tested By: Andrew Rulison Date: 5/4/16
Product: Self-Retracting Lanyard Reviewed By: Jason Allen Date: 5/6/16
Model No.: 10915 Standard: ANSI/ASSE Z359.14-2014
Sample C/N: See Table **TRANSCRIBED TEST DATA**

Section (Test)	Requirement	Results		Compliance
3	Requirements			
3.1	General Requirements			
3.1.1	Integral Connectors- shall meet the requirements of ANSI/ASSE Z359.12		YES	**PASS**
3.1.2	Locking Function- shall be automatic in there locking function. It shall not be possible to override the features.		YES	**PASS**
3.1.3	Energy Absorption-		NO	**NA**
3.1.4	Visual Indicator-	See section 3.1.9 for results		**PASS**
3.3.1	Synthetic Rope		NO	**NA**
5	"Marking and Instructions"			
5.1.1	Shall be in English			**PASS**
5.1.3	Self-Retracting Devices shall be marked with the following:			**PASS**

Marking	Comments	YES	NO	NA
Part number and model designation		X		
Year of manufacture		X		
Manufacturer's name or logo		X		
Capacity Range		X		
Unique ID Number		X		
Standard Number (Z359.14)		X		
How to inspect the visual indicator		X		
Warning to follow the manufacturer's instructions included with the equipment at time of shipment from the manufacturer		X		
Warning of the need for inspection in accordance with the manufacturer's instructions		X		
The fiber or other materials used in the lanyard construction		X		
The lanyard working length		X		
Average arresting force for the SRD class		X		
Arresting distance		X		
Proper installation means		X		
Warning on the need for testing the device for locking and retraction before each use		X		
SRD class and arrest distance		X		
Warning of the need to avoid lanyard contact with sharp edges and abrasive surfaces (not required for LE devices)		X		
Free fall limit		X		
Suitability for use with horizontal lifelines		X		
Suitability for horizontal use		X		

5.2.1	Instructions shall be in English, and affixed to the equipment at time of shipment from the manufacturer		**PASS**

Client: Guardian Fall Protection Engineer: Andrew Rulison
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Sample C/N: See Table **TRANSCRIBED TEST DATA**

<table>
<tr><th>Section (Test)</th><th>Requirement</th><th>Results</th><th>Compliance</th></tr>
<tr><td>5.2.2</td><td>Instructions shall contain the following information:
<table>
<tr><th>Instructions</th><th>Comments</th><th>YES</th><th>NO</th><th>NA</th></tr>
<tr><td>A statement that the manufacturer’s instructions shall be provided to the users</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Manufacturers name, address, and telephone number</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Manufacturer’s part number and model designation for the equipment</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Intended use and purpose of the equipment</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Proper method of use and limitations on use of the equipment</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Illustrations showing locations of markings on the equipment</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Reproduction of printed information on all markings</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Inspection procedures required to assure the equipment is in serviceable condition and operating correctly</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Anchorage requirements</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Criteria for discarding equipment which fails inspection</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Procedures for cleaning. maintenance, and storage</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Reference to Z359 standards</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Proper installation means and limitations on the type of anchorage connectors used</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>The fiber or other materials used in the lanyard construction</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>The lanyard length</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>The average arresting force when dynamically tested in accordance with the requirements of the standard</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>SRD class and arrest distance when dynamically tested in accordance with the requirements of the standard</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>How to determine fall clearance</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Testing the device for locking before each use</td><td></td><td>X</td><td></td><td></td></tr>
</table></td><td></td><td>PASS</td></tr>
<tr><td>5.2.3</td><td>Instructions shall require that only the equipment manufacturer , or persons or entities authorized in writing by the manufacturer, shall make repairs to the equipment</td><td></td><td>PASS</td></tr>
<tr><td>5.2.4</td><td>Instructions shall require the user to remove equipment from service if it has been subjected to the forces of arresting a fall or affecting a rescue</td><td></td><td>PASS</td></tr>
<tr><td>5.2.5</td><td>Instructions shall require the user to have a written rescue plan and the means at hand to implement it when using the equipment</td><td></td><td>PASS</td></tr>
</table>

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Job No.: G102531900 Tested By: Andrew Rulison Date: 5/4/16
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<table>
<tr><th>Section (Test)</th><th>Requirement</th><th>Results</th><th>Compliance</th></tr>
<tr><td>5.2.6</td><td>Instructions shall provide warnings regarding:
<table>
<tr><th>Warnings</th><th>Comments</th><th>YES</th><th>NO</th><th>NA</th></tr>
<tr><td>Altering the equipment</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Misusing the equipment</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Using combinations of components or sub-systems, or both, which may affect or interfere with the safe function of each other</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Exposing the equipment to chemicals, high heat, severe cold, or other harsh environments which may produce a harmful effect and to consult the manufacturer in case of doubt</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Using the equipment around moving machinery and electrical hazards</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Using the equipment near sharp edges or abrasive surfaces</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>Risk of striking an object or obstruction during a swing fall</td><td></td><td>X</td><td></td><td></td></tr>
<tr><td>That the consequences of improperly using the device, not following instructions or markings may cause serious injury or death</td><td></td><td>X</td><td></td><td></td></tr>
</table></td><td>PASS</td></tr>
</table>

Testing Pictures