

Test Report Number: 2019083011100
Job Number: Qualification 483
Product Type: SRL
Product Model: 11100 Dual 8' LE cable SRL w/steel snap
Dates of Manufacture: 08/14/2019, 08/29/2019
Date(s) of Testing: 08/28/2019, 08/29/2019, 08/30/2019, 9/03/2019

<u>Tests Completed</u>	<u>Test Date</u>	<u>Clause</u>	<u>Pass/Fail</u>
Dynamic Strength SRD (Amb)	8/29/2019	4.2.3 Dynamic Strength	PASS
Static Strength SRD, Residual (Amb)	8/29/2019	4.2.5 Static Strength	PASS
Dynamic Performance SRD (Amb)	8/29/2019	4.2.1 Dynamic Performance	PASS
Dynamic Performance SRD (Cold)	8/29/2019	4.2.1.8.2 Dynamic Performance	PASS
Dynamic Performance SRD (Wet)	8/29/2019	4.2.1.8.3 Dynamic Performance	PASS
Dynamic Performance SRD (Hot)	8/29/2019	4.2.1.8.1 Dynamic Performance	PASS
Static Strength SRD (Ambient)	8/29/2019	4.2.5 Static Strength	PASS
Dynamic Strength SRL-LE (Amb)	8/28/2019	4.2.2 Dynamic Performance (300lb)	PASS
Dynamic Strength SRL-LE (Cold)	8/29/2019	4.2.8.2 Dynamic Performance LE (300lb)	PASS
Dynamic Strength SRL-LE (Wet)	8/29/2019	4.2.8.3 Dynamic Performance LE (300lb)	PASS
Dynamic Strength SRL-LE (Hot)	8/29/2019	4.2.8.1 Dynamic Performance LE (300lb)	PASS
Dynamic Strength SRL-LE Offset (Amb)	8/30/2019	4.2.2 Dynamic Performance (300lb)	PASS
Dynamic Strength SRL-LE Offset (Cold)	8/30/2019	4.2.8.2 Dynamic Performance LE (300lb)	PASS
Dynamic Strength SRL-LE Offset (Wet)	9/03/2019	4.2.8.3 Dynamic Performance LE (300lb)	PASS
Dynamic Strength SRL-LE Offset (Hot)	8/30/2019	4.2.8.1 Dynamic Performance LE (300lb)	PASS
Retraction Tension	8/29/2019	4.2.6 Retraction Tension	PASS

<u>Requirement Verification</u>	<u>Pass/Fail</u>
General Requirements	PASS
Markings and Instructions	PASS

Please see attached test data for details

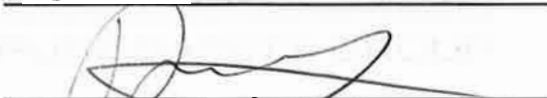
This report covers these additional products:

John Halas,
Engineer



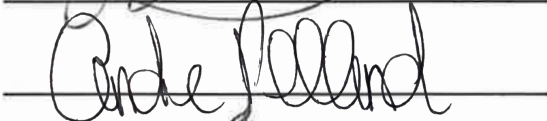
Date: 10/10/19

Doug Foa,
Test Technician



Date: 10/10/19

Andre Pelland,
Compliance & Quality Manager



Date: 20191028



Test Equipment

<u>Equipment</u>	<u>Model</u>	<u>Serial</u>	<u>Notes</u>
Load Cell		367976A	
Load Cell		470679A	

3.1	General Requirements	
3.1.1	Integral Connectors. Snaphooks or carabiners which are integral to self-retracting devices shall meet the requirements of ANSI/ASSE Z359.12. Integral rings or similar openings intended to accept a snaphook or carabiner shall be designed to minimize the possibility of rollout of a mating snaphook or carabiner.	PASS
3.1.2	Locking Function. Self-retracting devices shall be automatic in their locking (fall stopping) function. It shall not be possible to override the self-locking feature of the device when in use. The design of working parts, their location and the protection afforded to them shall be such as to prevent the possibility of performance being impaired by casual interference.	PASS
3.1.3	Energy Absorbtion. Self-retracting devices which perform an energy absorbtion function shall be designed such that the energy absorbtion function is available throughout the usable working range of the device. The working range or length is defined as the amount of travel allowed by the device starting from full retraction to full extension under normal working tension.	PASS
3.1.4	Visual Indicator. Self-retracting devices shall include a visual indicator that will activate in accordance with the requirements of Section 3.1.9.	PASS
3.1.5	Corrosion Protection. Corrosion protection shall be afforded to all elements (parts) of self-retracting devices. Protection shall, at a minimum, allow the device to operate as intended and show no signs of corrosion which, if left unchecked, could	PASS

Notes:

4.2.1 Dynamic Performance Testing of Self-Retracting Devices

- a) Attach SRL to load cell
- b) Connect 282lb weight to lifeline
- c) Raise weight so that 36ft of lifeline remains extended from SRL
- d) Ensure SRL is not locked
- e) Release test weight and evaluate in accordance with 3.1.9
- f) Record AAF, MAF, arrest distance, and retraction tension
- g) Check for visual indicator activation

Dynamic Performance - Ambient Requirements per 3.1.9

Sample #4 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activities		PASS
Max Arrest Force <1,800lb	999.71	lb
Average Arrest Force Class A <1,350lb Class B <900lb	791.41	lb
Initial height: D1	71	inches
Final height: D2	54	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	25	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Dynamic Performance - Ambient Requirements per 3.1.9

Sample #5 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activities		PASS
Max Arrest Force <1,800lb	946.67	lb
Average Arrest Force Class A <1,350lb Class B <900lb	785.51	lb
Initial height: D1	71	inches
Final height: D2	46	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	25	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Dynamic Performance - Ambient Requirements per 3.1.9

Sample #6 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activities		PASS
Max Arrest Force <1,800lb	1030.06	lb
Average Arrest Force Class A <1,350lb Class B <900lb	779.29	lb
Initial height: D1	70.75	inches
Final height: D2	44	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	26.75	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Retraction Tension	Sample #4 (lb)	Sample #5 (lb)	Sample #6 (lb)
Force @ 1'	3.2	3.5	2.8
Force @ 20%	4.2	3.7	3.1
Force @ 40%	4.8	5.0	4.1
Force @ 60%	6.1	6.2	5.4
Force @ 80%	6.2	6.9	5.7
Force @ 100%	6.5	7.2	6.3
Retracted length less than 24'?	Yes	Yes	Yes

4.2.1 Dynamic Performance Testing of Self-Retracting Devices

- a) Attach SRL per 4.2.8.1 - test within 90 sec.
- b) Attach SRL to load cell
- c) Connect 282lb weight to lifeline
- d) Raise weight so that 36' of lifeline remains extended from SRL
- e) Ensure SRL is not locked
- f) Release test weight and evaluate in accordance with 3.1.9
- g) Record AAF, MAF, arrest distance and retraction tension
- h) Check for visual indicator activation

Dynamic Performance - Cold - 4.2.8.2 requirements per 3.1.9

Sample #10 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activates		PASS
Max Arrest Force <1,800lb	1178.96	lb
Average Arrest Force Class A <1,350lb Class B <900lb	814.90	lb
Initial height: D1	70.75	inches
Final height: D2	51.25	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	19.5	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Dynamic Performance - Cold - 4.2.8.2 requirements per 3.1.9

Sample #11 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activates		PASS
Max Arrest Force <1,800lb	1179.54	lb
Average Arrest Force Class A <1,350lb Class B <900lb	886.73	lb
Initial height: D1	71.25	inches
Final height: D2	49	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	22.25	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Dynamic Performance - Cold - 4.2.8.2 requirements per 3.1.9

Sample #12 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activates		PASS
Max Arrest Force <1,800lb	1128.63	lb
Average Arrest Force Class A <1,350lb Class B <900lb	51.25	lb
Initial height: D1	71.5	inches
Final height: D2	51.25	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	20	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Retraction Tension	Sample #10 (lb)	Sample #11 (lb)	Sample #12 (lb)
Force @ 1'	3.2	3.2	3.3
Force @ 20%	4.3	4.4	4.3
Force @ 40%	5.2	4.9	5.7
Force @ 60%	6.3	6.0	6.3
Force @ 80%	6.6	6.6	6.9
Force @ 100%	6.7	6.9	6.10
Retracted length less than 24'?	Yes	Yes	Yes

4.2.1 Dynamic Performance Testing of Self-Retracting Devices

- a) Attach SRL per 4.2.8.2 - test within 90 sec.
- b) Attach SRL to load cell
- c) Connect 282lb weight to lifeline
- d) Raise weight so that 36' of lifeline remains extended from SRL
- e) Ensure SRL is not locked
- f) Release test weight and evaluate in accordance with 3.1.9
- g) Record AAF, MAF, arrest distance and retraction tension
- h) Check for visual indicator activation

Dynamic Performance - Hot - 4.2.8.1 requirements per 3.1.9

Sample #16 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activates		PASS
Max Arrest Force <1,800lb	913.75	lb
Average Arrest Force Class A <1,350lb Class B <900lb	700.80	lb
Initial height: D1	74	inches
Final height: D2	52	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	22	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Dynamic Performance - Hot - 4.2.8.1 requirements per 3.1.9

Sample #17 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activates		PASS
Max Arrest Force <1,800lb	931.34	lb
Average Arrest Force Class A <1,350lb Class B <900lb	699.40	lb
Initial height: D1	72.5	inches
Final height: D2	49	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	23.5	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Dynamic Performance - Hot - 4.2.8.1 requirements per 3.1.9

Sample #18 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activates		PASS
Max Arrest Force <1,800lb	961.39	lb
Average Arrest Force Class A <1,350lb Class B <900lb	698.87	lb
Initial height: D1	72	inches
Final height: D2	50.25	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	21.75	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Retraction Tension	Sample #16 (lb)	Sample #17 (lb)	Sample #18 (lb)
Force @ 1'	3.6	3.1	3.5
Force @ 20%	4.0	4.4	3.7
Force @ 40%	5.21	5.1	4.8
Force @ 60%	5.5	6.0	5.6
Force @ 80%	6.1	7.0	6.5
Force @ 100%	6.9	7.3	6.7
Retracted length less than 24'?	Yes	Yes	Yes

4.2.1 Dynamic Performance Testing of Self-Retracting Devices

- a) Attach SRL per 4.2.8.3 - test within 90 sec.
- b) Attach SRL to load cell
- c) Connect 282lb weight to lifeline
- d) Raise weight so that 36' of lifeline remains extended from SRL
- e) Ensure SRL is not locked
- f) Release test weight and evaluate in accordance with 3.1.9
- g) Record AAF, MAF, arrest distance and retraction tension
- h) Check for visual indicator activation

Dynamic Performance - Wet - 4.2.8.3 requirements per 3.1.9

Sample #13 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activates		PASS
Max Arrest Force <1,800lb	1101.21	lb
Average Arrest Force Class A <1,350lb Class B <900lb	784.23	lb
Initial height: D1	70.75	inches
Final height: D2	47.25	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	23.50	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Dynamic Performance - Wet - 4.2.8.3 requirements per 3.1.9

Sample #14 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activates		PASS
Max Arrest Force <1,800lb	1051.12	lb
Average Arrest Force Class A <1,350lb Class B <900lb	795.43	lb
Initial height: D1	70.75	inches
Final height: D2	46.50	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	24.24	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Dynamic Performance - Wet - 4.2.8.3 requirements per 3.1.9

Sample #15 SRL CLASS-B

Payout/Retraction Test per 3.1.6 (data below)		PASS
SRL Locks per 3.1.2		PASS
Visual Indicator Activates		PASS
Max Arrest Force <1,800lb	1019.96	lb
Average Arrest Force Class A <1,350lb Class B <900lb	771.32	lb
Initial height: D1	71.25	inches
Final height: D2	47.75	inches
Arrest Distance: D2-D1 Class A <= 24' Class B <= 54'	23.50	inches
Payout/Retraction Test per 3.1.6 (data below)		PASS
COMPLIANT	Yes	

Retraction Tension	Sample #13 (lb)	Sample #14 (lb)	Sample #15 (lb)
Force @ 1'	3.2	3.3	2.9
Force @ 20%	4.3	4.8	4.4
Force @ 40%	5.1	6.3	4.9
Force @ 60%	6.0	6.5	6.3
Force @ 80%	6.6	7.1	6.7
Force @ 100%	7.1	7.1	6.9
Retracted length less than 24'?	Yes	Yes	Yes

4.2.2 Dynamic Performance Testing of SRL-LE Edge Test

- a) Attach SRL to a rigid anchorage meeting elastic deformation requirements of 4.1.1.
- b) Attach SRL to load cell
- c) Connect 282lb weight to lifeline
- d) Raise weight to prescribed level and location relative to the edge and the SRL-LE
- e) Release test weight and evaluate in accordance with 3.1.9. Allow to swing for 10 seconds.
- f) Increase static load as required by 3.1.9 and maintain load for 1 minute
- g) Repeat test with a lateral offset of 5ft (New SRL may be used)
- h) Compare results to requirements in 3.1.9

Dynamic Strength - Ambient requirements per 3.1.8

Samples	Sample #22	Sample #23	Sample #24
Remained locked until Release	PASS	PASS	PASS
Test weight did not strike ground	PASS	PASS	PASS
Compliant	Yes	Yes	Yes

Dynamic Performance - Ambient requirements per 3.1.8

Samples	Sample #34	Sample #35	Sample #36
Remained locked until Release	PASS	PASS	PASS
Test weight did not strike ground	PASS	PASS	PASS
Compliant	Yes	Yes	Yes

Dynamic Performance - Wet 4.2.8.3, requirements per 3.1.8

Samples	Sample #40	Sample #41	Sample #42
Remained locked until Release	PASS	PASS	PASS
Test weight did not strike ground	PASS	PASS	PASS
Compliant	Yes	Yes	Yes

Dynamic Performance - Heat 4.2.8.1, requirements per 3.1.8

Samples	Sample #31	Sample #32	Sample #33
Remained locked until Release	PASS	PASS	PASS
Test weight did not strike ground	PASS	PASS	PASS
Compliant	Yes	Yes	Yes

Dynamic Performance - Cold 4.2.8.2, requirements per 3.1.8

Samples	Sample #25	Sample #26	Sample #27
Remained locked until Release	PASS	PASS	PASS
Test weight did not strike ground	PASS	PASS	PASS
Compliant	Yes	Yes	Yes

Dynamic Performance - Wet 4.2.8.3, requirements per 3.1.8

Samples	Sample #28	Sample #29	Sample #30
Remained locked until Release	PASS	PASS	PASS
Test weight did not strike ground	PASS	PASS	PASS
Compliant	Yes	Yes	Yes

Dynamic Performance - Cold 4.2.8.2, requirements per 3.1.8

Samples	Sample #37	Sample #38	Sample #39
Remained locked until Release	PASS	PASS	PASS
Test weight did not strike ground	PASS	PASS	PASS
Compliant	Yes	Yes	Yes

Dynamic Performance - Hot 4.2.8.1, requirements per 3.1.8

Samples	Sample #43	Sample #44	Sample #45
Remained locked until Release	PASS	PASS	PASS
Test weight did not strike ground	PASS	PASS	PASS
Compliant	Yes	Yes	Yes

Notes:

The 4.2.2 tests were performed using the weight and swing-time parameters for 4.2.4. The data above meets requirements for 3.1.9, forgoing 4.2.4 due to redundancy.

Weight: 300lb, Swing-Time: 2 Minutes

4.2.4 Dynamic Strength Testing of SRL-LE, Edge Test

- a) Attach SRL to a rigid anchorage meeting elastic deformation requirements of 4.1.1.
- b) Attach SRL to load cell
- c) Connect 300lb weight to lifeline
- d) Raise weight to prescribed level and location relative to the edge and the SRL-LE
- e) Release test weight and evaluate in accordance with 3.1.9. Allow to swing for 2 minutes.
- f) Repeat test with a lateral offset of 5ft (New SRL may be used)
- g) Compare results to requirements in 3.1.8

Dynamic Performance - Ambient requirements per 3.1.8			
Samples	Sample #	Sample #	Sample #
Remained locked until Release	-	-	-
Test weight did not strike ground	-	-	-
Compliant	-	-	-

Dynamic Performance - Heat 4.2.8.1, requirements per 3.1.8			
Samples	Sample #	Sample #	Sample #
Remained locked until Release	-	-	-
Test weight did not strike ground	-	-	-
Compliant	-	-	-

Dynamic Performance - Wet 4.2.8.3, requirements per 3.1.8			
Samples	Sample #	Sample #	Sample #
Remained locked until Release	-	-	-
Test weight did not strike ground	-	-	-
Compliant	-	-	-

Dynamic Performance - Cold 4.2.8.2, requirements per 3.1.8			
Samples	Sample #	Sample #	Sample #
Remained locked until Release	-	-	-
Test weight did not strike ground	-	-	-
Compliant	-	-	-

4.2.3 Dynamic Strength Testing of Self-Retracting Devices

- a) Connect 300lb test weight to SRL lifeline
- b) Extract line from SRL to allow 8' free fall
- c) Ensure SRL is not locked
- d) Raise weight to permit 48' free fall
- e) Release test weight and evaluate in accordance with 3.1.8

Dynamic Strength requirements per 3.1.8	
Sample #1	
SRL locks	PASS
SRL remains locked until released	PASS
Test weight shall not strike ground	PASS
COMPLIANT	Yes

Dynamic Strength requirements per 3.1.8	
Sample #2	
SRL locks	PASS
SRL remains locked until released	PASS
Test weight shall not strike ground	PASS
COMPLIANT	Yes

Dynamic Strength requirements per 3.1.8	
Sample #3	
SRL locks	PASS
SRL remains locked until released	PASS
Test weight shall not strike ground	PASS
COMPLIANT	Yes

4.2.5 Static Strength Testing of Self-Retracting Devices

- a) Shorten lifeline component to allow SRL to fit test equipment
- b) Apply 3,000lb load to fully-extended lifeline for one minute
- c) Evaluate in accordance with 3.1.7

Static Strength	Sample #19	Sample #20	Sample #21
Does SRL withstand load per 3.1.7?	PASS	PASS	PASS

Residual	Sample #7	Sample #8	Sample #9
Does SRL withstand load per 3.1.7?	PASS	PASS	PASS

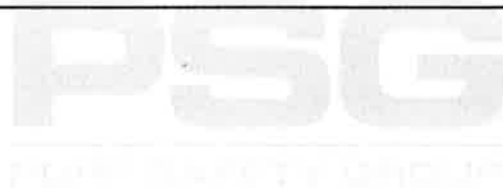
4.2.7 Horizontal Orientation Retraction Testing or SRL-LE Line

- a) Anchor SRL-LE to the anchorage according to manufacturer's instructions
- b) Extract the line fully from the device at a constant rate to avoid locking
- c) Allow device to retract by moving towards the device at a constant rate of 2ft - 5ft per second
- d) Repeat test for each anchoring method allowed by manufacturer
- e) Compare results to 3.1.6

Horizontal Orientation Retraction requirements per 3.1.6		
Sample #		
Line constituent extended after full retraction <60in.	-	in
Retract without stopping?		-
COMPLIANT		

Notes:

5	Instruction Requirements	
5.1	Marking Requirements	
5.1.1	Markings shall be in English	PASS
5.1.2	Markings shall remain legible and ensure for the life of the component, subsystem, or system being marked. Pressure-sensitive labels must conform to UL 969-2001, Marking and Labeling Systems	PASS
5.1.3	Self-Retracting Devices shall be marked with:	
	a) part number and model designation	PASS
	b) year of manufacture	PASS
	c) manufacturer's name or logo	PASS
	d) capacity range	PASS
	e) unique ID number	PASS
	f) standard number (Z359.14)	PASS
	g) how to inspect visual indicator	PASS
	h) warning to follow the manufacturer's instructions included with the equipment at the time of shipment from manufacturer	PASS
	i) warning of the need for inspection in accordance with the manufacturer's instructions	PASS
	j) the fiber or other materials used in the lanyard construction	PASS
	k) the lanyards working length	PASS
	l) average arresting force for the SRD class	PASS
	m) proper installation means	PASS
	n) warning of the need to avoid lanyard contact with sharp edges and abrasive surfaces	PASS
	o) SRD class and arrest distance	PASS
	p) warning of the need to avoid lanyard contact with sharp edges and abrasive surfaces	PASS
	q) free fall limit	PASS
	r) suitability for use with horizontal lifelines	PASS
	s) suitability for horizontal use	PASS



5.2	Instruction Requirements	
5.2.1	Instructions shall be provided to the user in English, and affixed to the equipment at the time of shipment from the manufacturer	PASS
5.2.2	Instructions shall contain the following information:	
	a) a statement that the manufacturer's instructions shall be provided to users	PASS
	b) manufacturer's name, address, and telephone number	PASS
	c) manufacturer's part number or model designation for the equipment	PASS
	d) intended use and purpose of the equipment	PASS
	e) proper method of use and limitations on use of the equipment	PASS
	f) illustrations showing locations of markings on the equipment	PASS
	g) reproduction of printed information on all markings	PASS
	h) inspection procedures required to assure the equipment is in serviceable condition and operating correctly	PASS
	i) anchorage requirements	PASS
	j) criteria for discarding equipment which fails inspection	PASS
	k) procedures for cleaning, maintenance, and storage	PASS
	l) reference to the Z359 standards and applicable regulations governing occupational safety	PASS
	m) proper installation means and limitations on the type of anchorage connectors used, if any	PASS
	n) the diameter of rope or wire rope, and width and thickness of webbing use in the lanyard	PASS
	o) the fiber or other materials used in the lanyard construction	PASS
	p) SRD class and arrest distance when dynamically tested in accordance with the requirements of this standard	PASS
	q) how to determine fall clearance	PASS
	r) testing of the device for locking before each use	PASS
5.2.3	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
5.2.4	Instructions shall require the user to remove equipment manufacturer, or persons or entities authorized in writing by the manufacturer shall make repairs to the equipment	PASS
5.2.5	Instructions shall require the user to have a written rescue plan and the means at hand to implement it when using the equipment	PASS



5.2.6	Instructions shall provide warnings regarding:	PASS
	a) altering the equipment	PASS
	b) misusing the equipment	PASS
	c) using combinations of components or subsystems, or both, which may affect or interfere with the safe function of each other	PASS
	d) exposing the equipment to chemicals, high heat, severe cold or other harsh environments which may prouce a harmful effect and to consult the manufacturer in cases of doubt	PASS
	e) using the equipment around moving machinery and electrical hazards	PASS
	f) using the equipment near sharp edges and abrasive surfaces	PASS
	g) risk of striking an object or obstruction during a swing fall	PASS
	h) that the consequences or improperly using the device, not following instructions or markings may cause serious injury or death	PASS

