

Test Report Number: 2022092242002

Job Number: 298329, 2023020342002

Product SKU#: 42002

Product Type: Self-Retracting Device

Product Description: Velocity Cable SRL 30 FT

Testing Standard: ANSI/ASSP Z359.14-2021 Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems

Dates of Manufacture: 8/01/2022

Date(s) of Testing: 1/24/2022, 8/22/2022, 8/30/2022, 9/09/2022

REQUIREMENT VERIFICATION

<u>Requirement Description</u>	<u>Clause/Section</u>	<u>Result</u>
General Requirements	3.1 General Requirements	Meets or Exceeds
Markings and Instructions	5. Markings and Instructions	Meets or Exceeds

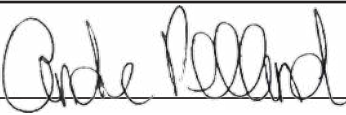
QUALIFICATION TESTING

<u>Test Description</u>	<u>Test Date</u>	<u>Clause/Section</u>	<u>Result</u>
Static Strength (SRD)	8/22/2022	4.2.1 Static Testing of Self-Retracting Devices	Pass
Dynamic Performance (SRD, Ambient)	8/22/2022	4.3.1 Dynamic Performance of Self-Retracting Devices (SRDs)	Pass
Dynamic Performance (SRD, Hot)	9/09/2022	4.3.1.7 Dynamic Performance of Self-Retracting Devices (SRDs, Hot)	Pass
Dynamic Performance (SRD, Cold)	8/30/2022	4.3.1.8 Dynamic Performance of Self-Retracting Devices (SRDs, Cold)	Pass
Dynamic Performance (SRD, Wet)	8/22/2022	4.3.1.9 Dynamic Performance of Self-Retracting Devices (SRDs, Wet)	Pass
Energy Capacity	8/22/2022	4.4 Energy Capacity Testing	Pass
Corrosion	1/24/2022	7.4 ASTM B117 Standard Practice for Operating Salt Spray (Fog) Apparatus	See Attached Corrosion Test Report

This test report covers these additional products:

42000, 42001

Andre Pelland,
Director, Quality Assurance
& Compliance



Date: 4/11/2023

Sutton Cameron
Testing Laboratory
Supervisor



Date: 4/12/2023

Test Equipment		
Equipment	Model	Serial
Load Cell	1210AF-10K-B	444522A
Load Cell	1220ACK-25K-B	347989A
Test Weight	18 lb	GFP002
Test Weight	10 lb	7HME
Test Weight	282 lb	GFP001
Measuring Tape	TX1-25	20243698
Conditioning Chamber	Thermotron	49357
Conditioning Chamber	Thermotron	46336

Notes

3.1	General Requirements	
3.1.1	Integral Connectors. Snaphooks or carabiners which are integral to self-retracting devices shall meet the requirements of the most recent version of ANSI/ASSP 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.	Meets or Exceeds
3.1.2	Locking Function. Self-retracting devices shall be automatic in their locking (fall arresting) 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.	Meets or Exceeds
3.1.3	Energy Absorption. Self-retracting devices which perform an energy absorption function shall be designed such that the energy absorption 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.	Meets or Exceeds
3.1.4	3.1.4 Visual Indicator. Self-retracting devices shall include a visual indicator that will activate in accordance with the requirements of 3.3.	Meets or Exceeds
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 result in corrosion-related failure of the device after being salt spray (fog) tested for 96 hours in accordance with the method described in the reference in 7.4. After the salt spray test, the line shall pay out, retract and lock. Retraction tension shall be as specified in 3.5.	Meets or Exceeds
3.1.6	Line Constituent of Self-Retracting Devices	
3.1.6.1	Webbing and Synthetic Rope. Webbing and synthetic rope used as a line constituent of the self-retracting device shall be made of pure or non-recycled synthetic materials having strength, aging and abrasion resistance characteristics equivalent or superior to polyamides. Other synthetic materials than those stated herein are permitted for the line constituent of SRDs only when it can be demonstrated that all requirements of this standard are met and, additionally, that the durability, reliability and other properties pertinent to the intended uses have been evaluated and determined suitable by the manufacturer. Any restrictions on the use of such SRDs shall be marked on the SRD. Webbing shall have a minimum breaking strength of 4,500 pounds (20kN) for Class 1 devices and 5,000 pounds (22.2kN) for Class 2 devices, when tested in accordance with references in 7.1, 7.2 or 7.3 as appropriate.	NA
3.1.6.2	Wire Rope. Wire rope used as a line constituent of a self-retracting device shall be constructed of stainless steel or galvanized steel strand. There is no required specification, provided that the SRD meets the minimum requirements of 3.2.1 and 3.3.	Meets or Exceeds
3.1.6.3	Terminations of the constituent line shall be designed so as to meet the requirements of 3.2.1.	Meets or Exceeds
3.1.7	Class 2 Energy Absorber. The line constituent of Class 2 devices shall include an integral energy absorber element adjacent to the end of the line which connects to the body support. The energy absorber shall meet the requirements of ANSI/ASSP Z359.13. Alternative energy absorber designs are allowed provided all performance requirements for Class 2 devices are satisfied including 3.2.1 with the alternative energy absorber included during the static test. If the Class 2 device housing(s) is intended to be connected to the full body harness and can only be used in this orientation, then an energy absorber is not required as part of the line constituent although an energy management system is still required.	NA

Notes

5	Instruction Requirements	
5.1	Marking Requirements	
5.1.1	Warnings shall be in English and shall meet the formatting requirements of the reference in 7.7. Non-warning markings shall be in English or pictorial format.	Meets or Exceeds
5.1.2	The legibility and attachment of required markings shall endure for the life of the component, subsystem or system being marked. When pressure-sensitive labels are used, they shall comply with the applicable provision of the reference in 7.6.	Meets or Exceeds
5.1.3	Self-Retracting Devices shall be marked with:	
	- part number and model designation	Meets or Exceeds
	- year of manufacture	Meets or Exceeds
	- manufacturer's name or logo	Meets or Exceeds
	- capacity range, including clothing, tools and equipment (130 lbs to 310 lbs);	Meets or Exceeds
	- unique ID number;	Meets or Exceeds
	- standard number (Z359.14-2021)	Meets or Exceeds
	- how to inspect visual indicator	Meets or Exceeds
	- warning to follow the manufacturer's instructions included with the equipment at time of shipment from the manufacturer	Meets or Exceeds
	- warning of the need for inspection in accordance with the manufacturer's instructions	Meets or Exceeds
	- the fiber or other materials used in the lanyard construction and any limitations of such materials	Meets or Exceeds
	- the lanyard working length	Meets or Exceeds
	- maximum arresting force	Meets or Exceeds
	- average arresting force	Meets or Exceeds
	- arrest distance	Meets or Exceeds
	- guidance with respect to clearance requirements	Meets or Exceeds
	- proper installation means	Meets or Exceeds
	- warning of the need for testing of the device for locking and retraction before each use	Meets or Exceeds
	- warning of the need to avoid lanyard contact with sharp edges and abrasive surfaces (not required for Class 2 SRDs)	Meets or Exceeds
	- suitability for use with horizontal lifelines	Meets or Exceeds
	- suitability for horizontal use	Meets or Exceeds
5.1.4	Class Designation Icon. In addition to the requirements of 5.1.3, the manufacturer shall include, in a conspicuous location on the device, the appropriate color-coded icon designating the class of the device. For SRLs and SRL-Rs, the icon shall be a minimum of 1-inch square (25mm). For SRL-Ps it shall be a minimum of .5-inch square (12.5mm).	Meets or Exceeds

5.1.5	Self-Retracting Lanyards with Integral Rescue Capability. In addition to the requirements in 5.1.3, self-retracting lanyards with integral rescue capability shall be marked to identify:	
	- direction to turn crank	NA
	- warning against allowing slack line while in rescue mode	NA
5.1.6	Class 2 Self-Retracting Devices. In addition to the requirements in 5.1.3, Class 2 self-retracting devices shall be marked to identify:	
	- minimum installation setback distance	NA
	- clearance required when falling over edge	NA
	- a warning that exposure to a sharp or serrated structural edge could damage the device and that anchorage should be elevated to the extent possible to limit the risk of damage or failure	NA
	- a warning to adhere to the hierarchy of controls as discussed in ANSI/ASSP Z359.2	NA
5.1.7	Class 2 SRLs. In addition to the requirements of 5.1.6, Class 2 SRLs shall include labels illustrating a fall clearance table and a diagram of the axes shown on the table. These labels shall be affixed to the product, preferably at or near the point of attachment to the full body harness.	NA
5.1.8	Class 2 SRL-Ps. In addition to the requirements of 5.1.6, Class 2 SRL-Ps shall include an illustration of clearance requirements on the label.	NA
5.1.9	Warnings for Dual SRL-Ps. SRL-Ps shall be marked to include a warning that dual-connections shall only be made for the purposes of 100% tie-off transitions.	NA

Notes

5.2	Instruction Requirements	
5.2.1	Instructions shall be provided to the user printed in English at the time of shipment from the manufacturer. Alternate media may be used for the dissemination of instructions, but only in addition to, not in lieu of printed instructions.	Meets or Exceeds
5.2.2	Instructions shall contain the following information:	
	- a statement that the manufacturer's instructions shall be provided to users	Meets or Exceeds
	- manufacturer's name, address and telephone number	Meets or Exceeds
	- manufacturer's part number or model designation for the equipment	Meets or Exceeds
	- intended use and purpose of the equipment	Meets or Exceeds
	- proper method of use and limitations on use of the equipment	Meets or Exceeds
	- illustrations showing locations of markings on the equipment	Meets or Exceeds
	- reproduction of printed information on all markings	Meets or Exceeds
	- inspection procedures required to assure the equipment is in serviceable condition and operating correctly	Meets or Exceeds
	- anchorage requirements	Meets or Exceeds
	- criteria for discarding equipment which fails inspection	Meets or Exceeds
	- procedures for cleaning, maintenance and storage	Meets or Exceeds
	- reference to the Z359 standards and applicable regulations governing occupational safety	Meets or Exceeds
	- proper installation means and limitations on the type of anchorage connectors used, if any	Meets or Exceeds
	- the diameter of rope or wire rope, and width and thickness of webbing used in the lanyard	Meets or Exceeds
	- the fiber or other materials used in the lanyard construction	Meets or Exceeds
	- the lanyard length	Meets or Exceeds
	- suitability for use with horizontal lifelines, deforming or flexible anchorages	Meets or Exceeds
	- the maximum and average arresting force when dynamically tested in ambient conditions, in accordance with the requirements of this standard	Meets or Exceeds
	- the arrest distance when dynamically tested in accordance with the requirements of this standard	Meets or Exceeds
	- how to determine fall clearance, which shall include a safety margin	Meets or Exceeds
	- testing of the device for locking before each use	Meets or Exceeds
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 equipment.	Meets or Exceeds
5.2.4	Instructions shall require the user to remove equipment from field service if it has been subjected to the forces of arresting a fall or effecting a rescue.	Meets or Exceeds
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.	Meets or Exceeds

5.2.6	Instructions shall provide warnings regarding:	
	- altering the equipment	Meets or Exceeds
	- misusing the equipment	Meets or Exceeds
	- using combinations of components or subsystems, or both, which may affect or interfere with the safe function of each other	Meets or Exceeds
	- 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 cases of doubt	Meets or Exceeds
	- using the equipment around moving machinery and electrical hazards	Meets or Exceeds
	- using the equipment near sharp edges and abrasive surfaces	Meets or Exceeds
	- risk of striking an object or obstruction during a swing fall	Meets or Exceeds
	- avoiding the use of SRDs in applications where engulfment hazards exist	Meets or Exceeds
	- that the consequences of improperly using the device, not following instructions or markings may cause serious injury or death	Meets or Exceeds
5.2.7	Self-Retracting Lanyards with Integral Rescue Capability. In addition to the requirements of 5.2.1 through 5.2.6, instructions for self-retracting lanyards with integral rescue capability shall include:	
	- capacity when used for rescue, one or two persons	Meets or Exceeds
	- force required to operate rescue features when device is loaded to capacity	Meets or Exceeds
	- appropriate methods to receive the individual when retrieved to upper elevation	Meets or Exceeds
	- warning to prevent slack line while in rescue mode	Meets or Exceeds
	- maximum input RPM if equipped for powered operation	Meets or Exceeds
	Class 2 Self-Retracting Devices. In addition to the requirements of 5.2.1 through 5.2.6, instructions for self-retracting lanyards with integral leading-edge capability shall include:	
	- advisory that the device was successfully tested for horizontal use and falls over a steel edge without burrs. As a result, the device may be used in situations where a fall may occur over similar edges, such as found on structural steel members or metal sheeting	NA
	- a warning identifying known prohibited edge substrates	NA
	- a warning that the allowable angle of redirection of the lanyard portion of the device at the edge over which a fall might occur (measured between the two sides formed by the redirected lanyard) shall be at least 90 degrees	NA
	- a warning that the anchor point may only be situated at the same height as the edge at which a fall might occur or above the edge	NA
	- any limitations to the allowable work area relative to the anchorage point, including factors such as swing fall and abrasion on the line at the edge, and the use of a single anchor point versus anchors that allow horizontal movement such as a horizontal lifeline or rail	NA
	- indication whether the device may be used in combination with a horizontal lifeline or rail	NA
	- a warning not to work on the far side of an opening, opposite the anchorage point	NA
	- advise that in the event of a fall over the edge, special rescue measures may be required	NA
	- a warning that use of this device in an orientation such that the constituent line may contact a sharp, jagged or abrasive structural edge is inherently dangerous, and such use should be a last resort	NA

5.2.8	Class 2 Self-Retracting Devices. In addition to the requirements of 5.2.1 through 5.2.6, instructions for self-retracting lanyards with integral leading-edge capability shall include:	
	- advisory that the device was successfully tested for horizontal use and falls over a steel edge without burrs. As a result, the device may be used in situations where a fall may occur over similar edges, such as found on structural steel members or metal sheeting	NA
	- a warning identifying known prohibited edge substrates	NA
	- a warning that the allowable angle of redirection of the lanyard portion of the device at the edge over which a fall might occur (measured between the two sides formed by the redirected lanyard) shall be at least 90 degrees	NA
	- a warning that the anchor point may only be situated at the same height as the edge at which a fall might occur or above the edge	NA
	- any limitations to the allowable work area relative to the anchorage point, including factors such as swing fall and abrasion on the line at the edge, and the use of a single anchor point versus anchors that allow horizontal movement such as a horizontal lifeline or rail	NA
	- indication whether the device may be used in combination with a horizontal lifeline or rail	NA
	- a warning not to work on the far side of an opening, opposite the anchorage point	NA
	- advise that in the event of a fall over the edge, special rescue measures may be required	NA
	- advise that in the event of a fall over the edge, special rescue measures may be required	NA
5.2.9	Warnings for Class 2 SRDs. A printed card, minimum size of 3 inches by 5 inches (76mm by 127mm), shall be included by the manufacturer with each Class 2 SRD. The card shall be white font (Arial, 16 pt.) on an orange background and shall state as follows:	
	WARNING: This Class 2 self-retracting device, when attached to a foot-level anchorage, poses significant risk of injury. The user, the competent person and/or qualified person should all acknowledge that normal use of this device MAY NOT PREVENT A SERIOUS INJURY. Failure to follow all manufacturer's instructions and warnings may result in serious injury or death.	NA
5.2.10	Warnings for Dual SRL-Ps. If the device produces a maximum arrest force greater than 1,800 pounds (8kN) when tested in accordance with 4.6.2, it shall be marked to include a warning that dual-connections shall only be made for the purposes of 100% tie-off transitions and that if a dual connection is made for any other purpose, anchorages of different elevations must be utilized.	NA

Notes

4.2.1 Static Testing of Self-Retracting Devices

Requirements per 3.2.1

- a) Shorten the constituent line, if necessary, to allow installation in the static tensile test equipment specified in 4.1.2. With the SRD constituent fully extracted, install the device in the tensile test equipment.
- b) Apply a minimum load of 3,600 pounds (16kN). Time to reach the load shall be no less than one minute to avoid dynamic effects. The load shall be maintained for a period of no less than one minute.
- c) Compare the results with the requirements of 3.2.1.

4.2.1 Static Testing of Self-Retracting Devices

Requirements per 3.2.1

Samples	Sample # 02	Sample # 03	Sample # 06
Actual load applied (>3,600 lb) (lb)	3637.49	3623.81	3637.74
SRL withstands tensile load?	Yes	Yes	Yes
Result/Assessment	Pass	Pass	Pass

Notes

4.3.1 Dynamic Performance of Self-Retracting Devices (SRDs, Ambient)

Requirements per 3.3.1

- Attach the load cell (transducer) to the drop test structure specified in 4.1. Anchor the SRD to the load cell according to manufacturer's instructions. Connect the 310-pound (140kg) test weight specified in 4.1.1 to the attachment-end connector on the constituent line.
- Attach the quick release mechanism specified in 4.1 to the test weight and attach the hoisting means to the quick release mechanism
- Hoist the test weight to the level at which 36 inches $\pm$ 1.0 inch (914mm $\pm$ 25mm) of the device line is extended from the nozzle. The horizontal distance of the quick release mechanism from the device nozzle shall not exceed 12 inches (305mm).
- Do not lock the device or inhibit retraction of the device.
- Release the test weight by activating the quick release mechanism.
- Measure and record the maximum arrest force, average arrest force and arrest distance.
- Compare the test results with the requirements of 3.3.1.

4.3.1 Dynamic Performance of Self-Retracting Devices (SRDs, Ambient)

Requirements per 3.3.1

Samples	Sample # 01	Sample # 04	Sample # 05
Locking function operates correctly?	Yes	Yes	Yes
Line pays out and retracts correctly?	Yes	Yes	Yes
Visual Indicator activated?	Yes	Yes	Yes
Max. Arrest Force (<1,800 lb) (lb)	894.42	811.90	794.72
Average Arrest Force (<1,350 lb) (lb)	669.39	659.05	677.87
Arrest Distance (<42 in.) (in.)	22.75	16.50	18.12
Result/Assessment	Pass	Pass	Pass

4.3.1 Dynamic Performance of Self-Retracting Devices (SRDs, Hot)

Requirements per 3.3.1

- Attach the load cell (transducer) to the drop test structure specified in 4.1. Anchor the SRD to the load cell according to manufacturer's instructions. Connect the 310-pound (140kg) test weight specified in 4.1.1 to the attachment-end connector on the constituent line.
- Attach the quick release mechanism specified in 4.1 to the test weight and attach the hoisting means to the quick release mechanism
- Hoist the test weight to the level at which 36 inches $\pm$ 1.0 inch (914mm $\pm$ 25mm) of the device line is extended from the nozzle. The horizontal distance of the quick release mechanism from the device nozzle shall not exceed 12 inches (305mm).
- Do not lock the device or inhibit retraction of the device.
- Release the test weight by activating the quick release mechanism.
- Measure and record the maximum arrest force, average arrest force and arrest distance.
- Compare the test results with the requirements of 3.3.1.

4.3.1 Dynamic Performance of Self-Retracting Devices (SRDs, Hot)

Requirements per 3.3.1

Samples	Sample # 16	Sample # 17	Sample # 18
Locking function operates correctly?	Yes	Yes	Yes
Line pays out and retracts correctly?	Yes	Yes	Yes
Visual Indicator activated?	Yes	Yes	Yes
Max. Arrest Force (<1,800 lb) (lb)	941.50	1169.30	817.91
Average Arrest Force (<1,575 lb) (lb)	677.60	740.60	620.32
Arrest Distance (<42 in.) (in.)	20.75	16.25	19.00
Result/Assessment	Pass	Pass	Pass

4.3.1 Dynamic Performance of Self-Retracting Devices (SRDs, Cold)

Requirements per 3.3.1

- Attach the load cell (transducer) to the drop test structure specified in 4.1. Anchor the SRD to the load cell according to manufacturer's instructions. Connect the 310-pound (140kg) test weight specified in 4.1.1 to the attachment-end connector on the constituent line.
- Attach the quick release mechanism specified in 4.1 to the test weight and attach the hoisting means to the quick release mechanism
- Hoist the test weight to the level at which 36 inches $\pm$ 1.0 inch (914mm $\pm$ 25mm) of the device line is extended from the nozzle. The horizontal distance of the quick release mechanism from the device nozzle shall not exceed 12 inches (305mm).
- Do not lock the device or inhibit retraction of the device.
- Release the test weight by activating the quick release mechanism.
- Measure and record the maximum arrest force, average arrest force and arrest distance.
- Compare the test results with the requirements of 3.3.1.

4.3.1 Dynamic Performance of Self-Retracting Devices (SRDs, Cold)

Requirements per 3.3.1

Samples	Sample # 13	Sample # 14	Sample # 15
Locking function operates correctly?	Yes	Yes	Yes
Line pays out and retracts correctly?	Yes	Yes	Yes
Visual Indicator activated?	Yes	Yes	Yes
Max. Arrest Force (<1,800 lb) (lb)	948.02	833.57	857.27
Average Arrest Force (<1,575 lb) (lb)	652.78	693.76	680.04
Arrest Distance (<42 in.) (in.)	18.25	21.5	25.75
Result/Assessment	Pass	Pass	Pass

4.3.1 Dynamic Performance of Self-Retracting Devices (SRDs, Wet)

Requirements per 3.3.1

- Attach the load cell (transducer) to the drop test structure specified in 4.1. Anchor the SRD to the load cell according to manufacturer's instructions. Connect the 310-pound (140kg) test weight specified in 4.1.1 to the attachment-end connector on the constituent line.
- Attach the quick release mechanism specified in 4.1 to the test weight and attach the hoisting means to the quick release mechanism
- Hoist the test weight to the level at which 36 inches $\pm$ 1.0 inch (914mm $\pm$ 25mm) of the device line is extended from the nozzle. The horizontal distance of the quick release mechanism from the device nozzle shall not exceed 12 inches (305mm).
- Do not lock the device or inhibit retraction of the device.
- Release the test weight by activating the quick release mechanism.
- Measure and record the maximum arrest force, average arrest force and arrest distance.
- Compare the test results with the requirements of 3.3.1.

4.3.1 Dynamic Performance of Self-Retracting Devices (SRDs, Wet)

Requirements per 3.3.1

Samples	Sample # 07	Sample # 08	Sample # 09
Locking function operates correctly?	Yes	Yes	Yes
Line pays out and retracts correctly?	Yes	Yes	Yes
Visual Indicator activated?	Yes	Yes	Yes
Max. Arrest Force (<1,800 lb) (lb)	866.43	822.77	842.34
Average Arrest Force (<1,575 lb) (lb)	669.37	688.72	633.73
Arrest Distance (<42 in.) (in.)	13	11.5	15.12
Result/Assessment	Pass	Pass	Pass

4.4 Energy Capacity Testing Requirements per 3.4

- a) Shorten the constituent line so that the retractable length is 42 inches (1,067mm) $\pm$ 1 inch (25mm).
- b) Attach the load cell (transducer) to the drop test structure specified in 4.1. Anchor the SRL or SRL-R to the load cell according to manufacturer's instructions. Connect the 310-pound (140kg) test weight specified in 4.1.1 to the attachment-end connector on the constituent line.
- c) Attach the quick release mechanism specified in 4.1 to the test weight and attach the hoisting means to the quick release mechanism.
- d) Hoist the test weight to the level at which 36 inches $\pm$ 1.0 inch (914mm $\pm$ 25mm) of the device line is extended from the nozzle. The horizontal distance of the quick release mechanism from the device nozzle shall not exceed 12 inches (305mm).
- e) Clamp the line so that it may not retract. Hoist the test weight an additional 24 inches (610mm) in elevation.
- f) Release the test weight and measure and record the maximum arrest force.
- g) Compare the test results to the requirements of 3.4.

4.4 Energy Capacity Testing Requirements per 3.4

Samples	Sample # 10	Sample # 11	Sample # 12
Max. Arrest Force (<1,800 lb) (lb)	1006.10	1231.35	983.11
SRL successfully arrests load?	Yes	Yes	Yes
Result/Assessment	Pass	Pass	Pass

Pictured: 42002 Represents all SKUs



Labels
Applicable to all SKUs



Notes

Labels
Applicable to all SKUs



GUARDIAN®

Part #	Date of Manufacture	Lot #	Serial #
42002	MM YY		

⚠ WARNING Read supplied instructions before using. Failure to follow instructions may result in serious injury or death. Never modify product. This product is not repairable.

USE This device is only for use by one person as a fall arrester. Only make connections directly to attachment point on safety harness. Guard against swing-fall by keeping lifeline vertically overhead. Ensure that connection to anchorage is secured properly before use. Avoid lifeline contact with sharp or abrasive edges and surfaces. May be used as a component of a PFAS in HLL applications. Design, installation, and utilization of HLLs must be supervised by a Qualified Person. Not suitable for horizontal use. Competent Person must calculate fall clearance prior to use; fall clearance calculations must include considerations for swing fall. Clearance numbers specified based on lifeline installed vertically overhead and in-line with worker.

INSPECTION Prior to each use, check locking (pull sharply to test) and retraction function. Inspect for signs of deployment, defects or damage to housing, lifeline (inspect full length), connectors, or missing parts. Refer to instruction manual for checking snap hook deployment. Ensure presence and legibility of all labels. Inspection by Competent Person required at least every 12 months. Immediately remove from service in event of failed inspection, or if unit is subjected to a fall.

Lifeline Material: Steel Cable | **Length:** 30'

User Weight Range (including tools and equipment):
ANSI: 130-310 lb | OSHA: 100-420 lb

Maximum Arresting Force: 1,800 lb
Average Arresting Force: 1,350 lb
Maximum Arresting Distance: 3' 6"

Free Fall: Not permitted
Minimum Required Fall Clearance: 7'
Permitted Service Temperature: -40° to 130° F



Date of First Use

Initials

Date

Type: SRL

DO NOT REMOVE LABELS

HEIGHT SAFETY. SIMPLIFIED.

guardianfall.com

Tested in USA.
Made in Taiwan.

9173-A

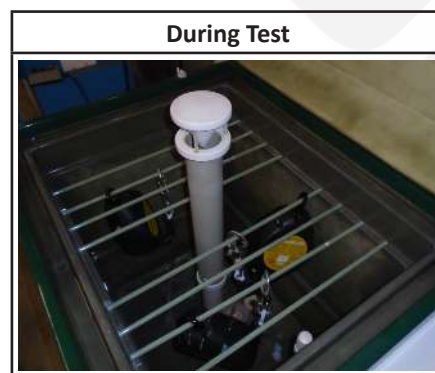
Notes

Test Type:	96 Hour Neutral Salt Spray Test (NSS)	Test Description:	96 Hour Neutral Salt spray Test
Lab Technician:	Craig Allen	ASTM B117-2019:	Neutral Salt Spray Test
Start of Test:	1/19/2022	End of Test:	1/24/2022
Part Number:	42002	Number of Samples:	3
Description:	Velocity Cable 30 ft	Water Type:	Type IV Deionized Water
Salt Purity (Percent):	>97.7%	Testing on Behalf of:	Guardian Fall

Solution
<i>per 8.2 Salt Solution</i>
The pH of the salt solution shall be such that when atomized at 35 °C (95 °F) the collected solution will be in the pH range from 6.5 to 7.2 (Note 4). Before the solution is atomized it shall be free of suspended solids (Note 5). The pH measurement shall be made at 23 °C ± 3 °C (73 °F ± 5 °F) using a suitable glass pH-sensing electrode, reference electrode, and pH meter system in accordance with Test Method E70. pH measurement shall be recorded once daily (except on weekends, or holidays when the salt spray test is not interrupted for exposing, rearing, or removing test specimens or to check and replenish the solution in the reservoir. The maximum interval between pH measurements shall not exceed 96 h). Only diluted, reagent grade hydrochloric acid (HCl) or reagent grade sodium hydroxide (NaOH) shall be used to adjust the pH.

Density	PH
Temp. 25°C ± 2°C (73°F ± 5°F)	Measurement 1.029 - 1.036 g/cm³
Within Tolerance	Within Tolerance

Interval				Quantity	Specific Gravity		PH
Exposure Time	Actual Time Log	Water Jacket Temperature	Bubble Tower Temperature	Measurement mL/h/80cm²	Collection Temperature	Density g/cm³	Measurement 6.5-7.2
Start	909.15	95°F	116.6°F	20ml	83.5°F	1.032	6.83
24 Hours	936.41	95°F	116.6°F	89ml	88.5°F	1.033	6.98
48 Hours	957.18	95°F	116.6°F	69ml	83°F	1.034	7.18
96 Hours	1029.15	95°F	116.6°F	207ml	84.5°F	1.033	6.85



Andre Pelland,
Director, Quality Assurance
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Craig Allen,
Laboratory Specialist




Date: 4/11/2023

Date: 4/12/2023

Test Equipment		
Equipment	Model	Serial
pH Meter	H18424	03370090101
Salinity Tester	HI998319	LA02500060
Salt Spray Chamber	SS600e	2018052202

ANSI Z359.14-2021, 4.5.1 Retraction Tension Testing of Self-Retracting Device Line <i>requirements per ANSI Z359.14-2021, 3.5.1</i>			
Retraction Tension	Sample# 01	Sample# 02	Sample# 03
Force @ 1' (lb)	1.7	1.5	1.5
Force @ 50% (lb)	1.9	2.0	1.7
Force @ 100% (lb)	2.2	2.3	2.0
Retracted length less than 60"?	Yes	Yes	Yes

Notes