ENGLISH

PEAKWORKS®

Self-Retracting Lifeline

Certified to:

CSA Z259.2.2-1998

ANSI Z359.14-2012

V845523006LE (SRL-50302-6LE)
V845533010LE (SRL-53302-10LE)
V845533020LE (SRL-53302-20LE)
V845533040LE (SRL-53302-40LE)
V845533060LE (SRL-53302-60LE)

READ CAREFULLY BEFORE USE

A / Une
SureWerx™
Brand / Marque

SureWerx, 49 Schooner St.,
Coquitlam, BC V3K 0B3
surewerx.com

Made in Germany
Fabriqué en Allemagne

M16-PW SRL (LE) Single Leg EN-FR
05-2016

Introduction

This manual contains the Manufacturer's Instructions as required by CSA Z259.2.2 and ANSI Z359.14. It should be used as part of the fall protection training program required by law. All PeakWorks' products are designed and engineered to meet or exceed applicable CSA and ANSI standards along with labour ministry requirements. ***WARNING: All persons using this equipment must read and understand all the instructions and warnings contained in this manual. Failure to do so may result in serious injury or death. Do not use this or any other fall protection equipment unless you have been properly trained.***

Fall Protection

It is the employer's responsibility to provide fall protection and training for any worker deemed to be working at height. In Canada, any worker that is more than 3 m (10 ft) from the ground or first obstruction must have fall protection. In the U.S.A., 6 ft (1.8 m).

System Compatibility

PeakWorks equipment has been designed and approved for use only with PeakWorks connectors. Any substitution of components may result in compatibility issues. Users should always ensure that the connectors are properly selected and connected so as not to allow a load to be applied to the gate of the connector. ***Failure to do so may result in serious injury or death. Do not use this or any other fall protection equipment unless you have***

Training

All workers and their employer must be trained in the correct use, care and maintenance of this and any other fall protection equipment used. It is the employer's responsibility to provide proper fall protection training for all workers using fall protection equipment. Both the worker and the employer must be aware of the correct and incorrect applications and use of this equipment. ***Failure to do so may result in serious injury or death. Do not use this or any other fall protection equipment unless you have been properly trained.***

Rescue Plan

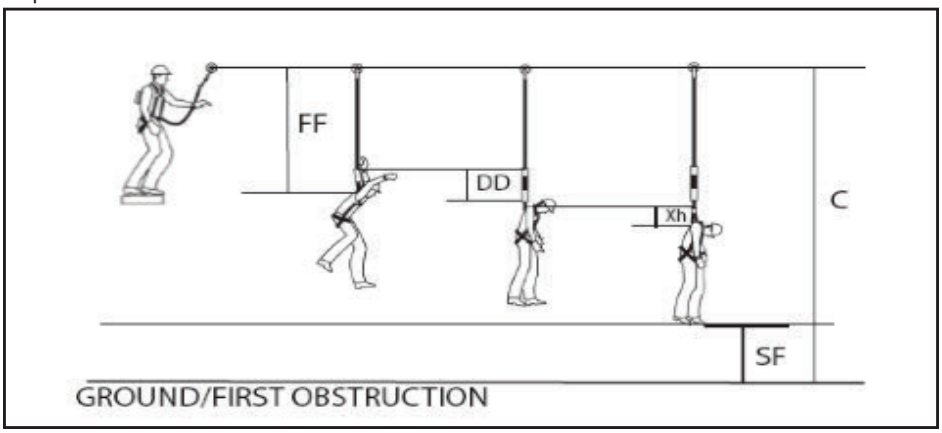
A rescue plan is an integral and critical part of any fall protection plan and system. It is the responsibility of the employer to have a rescue plan prepared by a competent person. All workers using any fall arrest system must have a rescue plan prior to using the system. Note that special measures may be necessary for rescue in the event of a fall over an edge.

Inspection

This equipment and any other fall protection equipment used in conjunction with it should be inspected by the worker every time it is used. This equipment must be inspected annually by a competent person. A competent person is defined by OSHA: "By way of training and/or experience, a competent person is knowledgeable of applicable standards, is capable of identifying workplace hazards relating to the specific operation and has the authority to correct them". Details of how to inspect this equipment is discussed later in the manual.

Fall Clearance

Fall Clearance is the distance required to safely arrest the user's fall. It is the distance from the anchorage to the ground. A Fall Clearance Calculation must be done anytime this or any other fall protection equipment is used.
Step 1: Calculate Free Fall (FF)
Step 2: Determine how much the connecting device deploys (DD)
Step 3: Determine the stretch of the harness (Xh)
Step 4: Add a safety factor (typically is 3 ft)
Step 5: Fall Clearance C= FF +DD + Xh + SF



Repair

Do not attempt to repair or alter this fall protection equipment. Repairs can only be performed by the manufacturer or its authorized agents.

SRL Overview

All PeakWorks' SRLs have been designed and engineered to meet or exceed all applicable standards and Ministry of Labour requirements. This PeakWorks Self-Retracting Lifeline is intended for use as a Fall Arrest Block or Fall Recovery Block. It is not intended for use with work positioning, man-riding, goods lifting or moving/lifting materials.

SRL Capacity

PeakWorks SRLs are designed for use by a single person with a combined weight (clothing, tools, etc.) of no more than 300 lb. Make sure all of the components in your system are rated to a capacity appropriate to your application.

SRL Classification

SRL Type	Definition	Inspection/Maintenance Requirements
Type 1	Less than 10 feet	• Inspect before each use • Annual inspection by competent user • Discard after fall incident
Type 2	10 feet or longer	• Inspect before each use • 2 yrs after DOM and yearly thereafter, & maintenance by manufacturer • Inspect & repair after fall incident
Type 3	10 feet or longer with retrieval capability	• Inspect before each use • 2 yrs after DOM and yearly thereafter, & maintenance by manufacturer • Inspect & repair after fall incident

PeakWorks' SRL part numbers indicate both the type of SRL and the length: SRL-xxxxY-Z
Y – indicates SRL Type: Value of 1 = Type 1, 2 = Type 2, 3 = Type 3
Z – indicates Length in feet: example 8 = 8 feet, 60 = 60 feet
LE – indicates Leading Edge

SRL Compatibility

All PeakWorks' SRLs come with a carabiner to connect to an anchor and a snap hook to connect to a full body harness. PeakWorks equipment has been designed and approved for use only with PeakWorks connectors. Any substitution of components may result in compatibility issues. If you have any questions about component compatibility, please contact PeakWorks.

Warning: Do not connect to this SRL with form hooks or any other large opening

SRL Performance Data

Average Arresting Force:	900 lb (4 kN)
Maximum Arresting Force:	1,800 lb (8 kN)
Maximum Stopping Distance:	54" (1.4 m)
Capacity:	300 lb (136 kg) including tools
Complies to:	CSA Z259.2.2-98, ANSI Z359.14-2014

Note: Galvanized cable 3/16" (4.8 mm), Dyneema webbing 1"x1/16" (2.5 mm x 1.3 mm)

SRL General Operation

The mechanism in this device is activated by centrifugal force acting on the brakes. This action is produced by the inertia of a fall rapidly spinning the internal drum which in turn causes the brakes to lock and arrest the fall. Slow reeling of the line will not activate the brake. If the brake locks – due to a fall – the mechanism will reset if the load is removed.

In a fall arrest situation the mechanism will limit the force acting on thebody to less than 6kN. This device is designed to function vertically or at an angle of no more than 30º (see Figure 2).

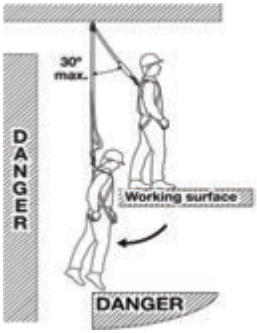
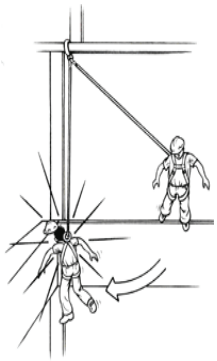


Figure 2



Electrical Hazard

Due to the highly conductive nature of the materials used in the construction of this SRL, use extreme caution when working near unprotected high voltage sources. If in doubt, ask!

Pre-Use Inspection

If the Self-Retracting Lifeline is known to have arrested a fall it must be removed from service immediately and returned for inspection and servicing.

Before each use check
(a) that the brake operates correctly
(b) that the SRL is securely anchored level with or above the user (NEVER below)
(c) that all components to be used in conjunction with this device are compatible and in good condition
(d) avoid anchoring the device in such a position that could result in a 'pendulum/swing fall' (this may occur if the device is positioned at > 30º from the vertical in relation to the end user).

Extend the wire rope/webbing fully (wearing suitable protective gloves) and inspect along its length for damage, such as:
(a) broken or frayed wires/webbing
(b) soiling and/or corrosion
(c) kinks and twists in the wire/webbing
(d) inspect the swage/stitching for damage
(e) check the connector(s) being used as per the User Instructions supplied with the connector
(f) check that the Overload/Fall Indicator is not exposed.

Check the device housing for signs of mechanical deformation, cracks, or chemical contamination and/or other defects.

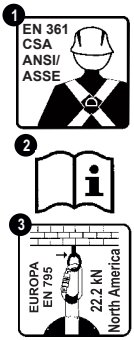
Retract the wire rope/webbing slowly; during retraction give the wire rope a sharp sudden tug in order to activate the braking mechanism. This check should be carried out along the full length of the rope at approximately 20% increments.

If any of the above criteria fail then the device must be removed from service. In the event of any doubt consult a trained and competent person.

Warning: If this SRL or any fall protection device is known to have arrest a fall, it must be removed from service immediately.

Instructions for Use - Safety Considerations

1. Fall arrestors in accordance with EN 360:2002, CSA Z259.2.2, ANSI/ASSE Z359.1-2007, Z359.14-2012 represent personal safety equipment serving to protect the user in conjunction with a safety harness EN 361:2002 / CSA Z259.10 / ANSI /ASSE Z359.1-2007 where falling hazards exist (e.g. on roofs, scaffolding, ladders and in shafts). The device must only be used corresponding to its intended purpose.
2. Failure to comply with the instructions for use will result in a danger to life.(Figure 2) In the event of a fall, the person must not be exposed to a prolonged state of hanging for longer than 20 minutes (danger of shock).
3. Safety harnesses according to EN 361:2002 / CSA Z259.10 / ANSI /ASSE Z359.1-2007 are permitted for use with the fall arrestor (other harnesses etc. are not permissible) (Figure 1).



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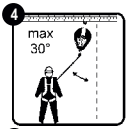
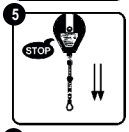
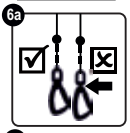
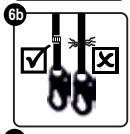
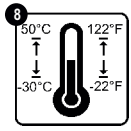
4. A device can only protect one person at a time during use. However, it may be used by several individuals one after the other. A rescue plan taking into account all possible rescue scenarios during the work must be drawn up.
5. A suitable fastening point with sufficient load bearing capacity must be selected for the device (e.g. anchorage point corresponding to EN 795 / North America 22.2 kN;). The device is fastened using carabiner hooks corresponding to (CSA Z259.12 carabiner hooks) or sling rope, the rope being pulled through the handle of the device and closed with a secured carabiner hook. (Picture 3) In case of devices with swivel suspension, the snap hook is connected to the attachment point of the swivel. When using the fall arrestor on a anchorage device of class C corresponding to EN 795 / North America 22.2 kN with a vertically moving guide, the deflection of the stopping device must also be taken into consideration when ascertaining the required clearance height below the user. The information in the instructions for use must be observed for this.
6. The device should be positioned as vertically as possible above the head of the person, so as to prevent the person from swinging to and fro in the event of a fall. After fastening the device to the anchorage point, the end of the retractable lanyard (lifeline) must be fastened directly to the harness attachment point (D-ring) by using the small connector (Figure 4).
7. The safety protection for the person working is established after fastening the fall arrestor to a suitable anchorage point (corresponding to EN 795 / North America 22.2 kN or min. 7.5 kN load bearing capacity on existing constructions; BGR 198) and connecting the joining element (hook) to a catching lug of the retaining belt worn (as per EN 361:2002 / CSA Z259.10 / ANSI /ASSE Z359.1-2007).
8. The legibility of the product labeling must be checked each time before use .
9. A functional test is to be carried out before each use by pulling out the rope/lifeline all of a sudden or by a weight test of at least 15 kg. The drum brake must catch here.(Figure 5).
10. Fall arrestors must not be used for the safety of persons above bulk materials or similar substances into which they can sink (Figure 6).
11. A damaged device (with triggered fall indicator! Fig. 6a+6a) which has been subject to strain (or if you have doubts concerning the safe state of the device) must be taken out of use immediately. It may only be reused after checking and written approval by an expert.
12. Depending on the strains to which they have been subjected, fall arrestors must be checked by authorized personnel trained by the manufacturer every twelve months. This must be documented in the accompanying test supplied. The effectiveness and durability of the height safety device depends on regular testing.
13. If a thread breaks, the cable is kinked, or the cable/webbing becomes roughened, worn or damaged in any way the fall arrestor must be returned to the repair workshop so that the damaged component can be replaced. (Figure 7)
14. The Professional Employee Liability Association Regulation BGR 198 (falling) and BGR 199 (rescuing) as well as BGI 870 must be observed.
15. In case of an attachment above the user, the clear height below the user must amount to 2.0m.
16. The PeakWorks fall arrestor can be used in the temperature range from -30° to +50° Celsius as per EN 360:2002, CSA Z259.2.2, ANSI/ASSE Z359.1-2007, Z359.14-2012. (Figure 8)
17. The working load limit is 136 kg (300 lbs). (Figure 9)
18. Fall arrestors must be protected against the effects of welding flames and sparks, fire, acids, caustic solutions and similar.
19 No changes or modifications should be made to the fall arrestor. Repairs may be performed by the manufacturer or persons trained and authorised by the manufacturer only. (Figure 10)
20. Note: fall arrestors may only be used by persons who have received corresponding training or who have gained expertise in another way. Their health or state of mind must not be impaired in any way (alcohol, drugs, medicines, heart or circulation problems).
21. The service life of the fall arrestor must be determined during the annual test. This is approx. 10 years, depending on the use to which it is subjected.
22. The SRL devices equipped with a pipe hook swivel suspension must be mounted to the attachment points in a way to avoid any exposure of the pipe hook swivel suspension to transversal or bending loads. This is of particular importance in case of a fall.
23. This SRL-LE has been tested and approved for use in horizontal applications and falls over edge with a radius of .005" (.13 mm) or greater (figure 12).
24. The anchor point may only be at the same height as the edge or higher.
25. Do not work on the far side of an opening when anchored horizontally as this will result in a significant swing fall and may cause injury or death.
26. The setback distance when used in a leading edge situation shall be 30 cm/12" (SRL-50302-6LE), 20 cm/16" (SRL-50302-20LE and SRL-53302-10LE), 50 cm/20" (SRL-53302-40LE and SRL-53302-60LE) (figure 15).
27. The minimum clearance required when used in a Leading Edge situation is 4 m (13 ft) (figure 13).

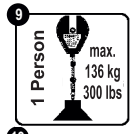


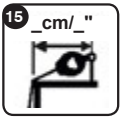










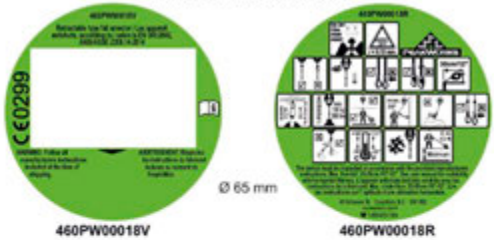


Care and Maintenance

1. The cable/webbing lifeline should only be recoiled under tension. On no account should you fully pull out and release the lifeline, as the jolting impact of the small connector on the device can cause the return spring to break (Figure 11).
2. For devices with a steel cable which are continuously exposed to the weather, we recommend lightly greasing the wire rope with acid-free oil or Vaseline at regular intervals.
3. The retractable belt strap lanyard is made of PES/Dyneema and must only be cleaned with soap sud and never with thinners or similar products.

Product Labels

SRL-50302-6LE



460PW00018V

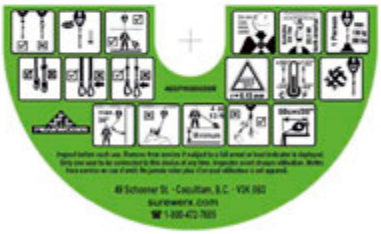
460PW00018R

460PW00609V

460PW00235V

460CSA0235R

SRL-53302-20LE
SRL-53302-10LE



460PW00609R

SRL-53302-40LE
SRL-53302-60LE

2 necessary colours for silk screen printing process

- Pantone green # 802
- Pantone process black C
- Background printed white and green, on transparently screen printing film

INSPECTION LOG

	Inspection Date	Results	Corrective Action	Maintenance Performed	Inspection Conducted By
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					