



**PEAKWORKS®**

# Self-Retracting Lifelines



Certified to:

CSA Z259.2.2-17

## Product Specific Name

SRL-75105-6LE / V845622006LE

SRL-70502-6LE / V845625006LE

SRL-70602-6LE / V845626006LE

SRL-74854-7.5LE / V8456277-5LE

SRL-80302-12LE / V845722012LE

SRL-75105-9TBLE / V845622009TBLE



**READ CAREFULLY  
BEFORE USE**



Brand

surewerx.com

### Canada:

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

Made in Germany

## INTRODUCTION

This manual contains the Manufacturer's Instructions as required by CSA Z259.2.2. 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 meters from the ground or first obstruction must have fall protection.

## 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 been properly trained.**

## TABLE OF FALL PROTECTION STANDARDS

Fall protection equipment is governed in Canada by the Canadian Standards Association (CSA).

### Canadian Standards Association Fall Protection Standards:

CSAZ259.1	Safety Belts and Saddles for Work Positioning and Travel Restraint
CSA Z259.2.2	Self-Retracting Devices for Personal Fall-Arrest Systems
CSA Z259.2.3	Descent Control Devices
CSA Z259.2.4	Fall Arrester and Fixed Rigid Rails
CSA Z259.2.5	Fall Arrester and Vertical Lifelines
CSA Z259.10	Full Body Harness
CSA Z259.11	Energy Absorbers and Lanyards
CSA Z259.12	Connecting Components for Personal Fall Arrest Systems
CSA Z259.13	Flexible Horizontal Lifelines
CSA Z259.14	Fall Restrict Equipment for Wood Pole Climbing
CSA Z259.15	Anchorage Connectors
CSA Z259.16	Design of Active Fall Protection Systems

## 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.

## **REPAIR**

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

## **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!

## **SHARP EDGES, ABRASION & CUTTING**

The wire rope or the webbing of the SRL should never be allowed to come in contact with sharp edges or abrasive surfaces. Such contact could prevent the SRL from arresting a fall.

## **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 SPECIFICATIONS**

### **Description**

Self-retracting devices (SRD) shall be classified as follows:

(a) Self-retracting lifeline (Class SRL):

A Class SRL device shall be suitable for applications where

- i) it is anchored at an elevation which limits the free fall to the activation distance of the device; and
- ii) the extracted lifeline cannot bear against an edge or surface during fall arrest.

(b) Self-retracting lifeline with leading-edge capability (Class SRL-LE):

In addition to applications for Class SRL devices, a Class SRL-LE device shall be suitable for applications where one or more of the following conditions are met:

- i) it is anchored lower than the elevation of the dorsal D-ring on the worker's full-body harness; and
- ii) the extracted lifeline can bear against an edge or surface during fall arrest.

### SRL-LE Performance Data

Average Arresting Force:	4.12 kN (926 lbF)
Maximum Arresting Force:	1,350 lbs (8 kN)
Capacity:	310 lbs (140 kg) including tools
Lifeline:	Dyneema® Webbing 0.8 in wide x 0.07 in thick Dyneema® Webbing 20 mm wide x 1.75 mm thick Dyneema® Webbing 1 in wide x 0.07 in thick Dyneema® Webbing 25 mm wide x 1.75 mm thick
Complies to:	CSA Z259.2.2-17

### SRL CAPACITY

PeakWorks SRLs are designed for use by a single person with a combined weight (clothing, tools, etc.) of no more than 310 lbs. Make sure all of the components in your system are rated to a capacity appropriate to your application.

### SRL COMPATIBILITY

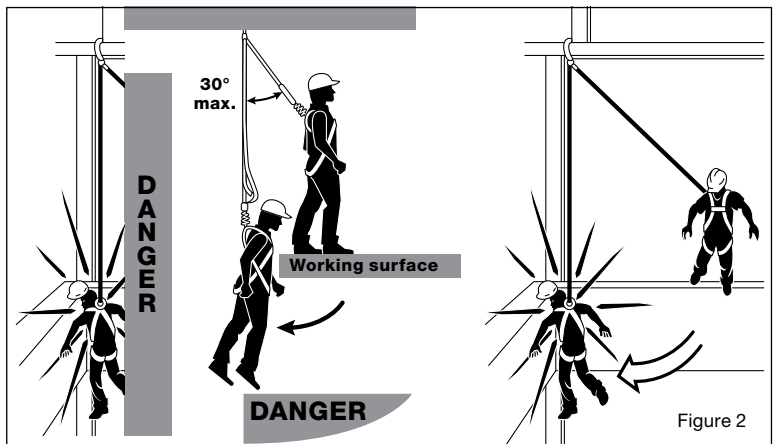
All PeakWorks' SRLs come with a carabiner to connect to an anchor and a snap hook to connect to a full-body harness. PeakWorks equipment has been designed and approved for use only with PeakWorks connectors. Any substitution of components may result in compatibility issues. If you have any questions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

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

### SRL 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 the body to less than 8 kN. This device is designed to function vertically, at an angle of no more than 30° (see Figure 2) and horizontally for a leading-edge application with a maximum allowed radius of 0.25 mm. SRL-LE type

SRL-75105-6LE,  
SRL-70502-6LE,  
SRL-70602-6LE,  
SRL-74854-75LE,  
SRL-80302-12LE are equipped with an energy-absorbing element at the end of the lifeline.



## 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)

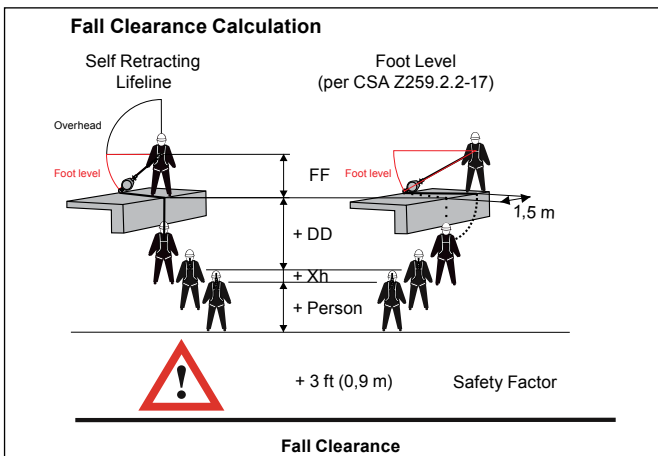
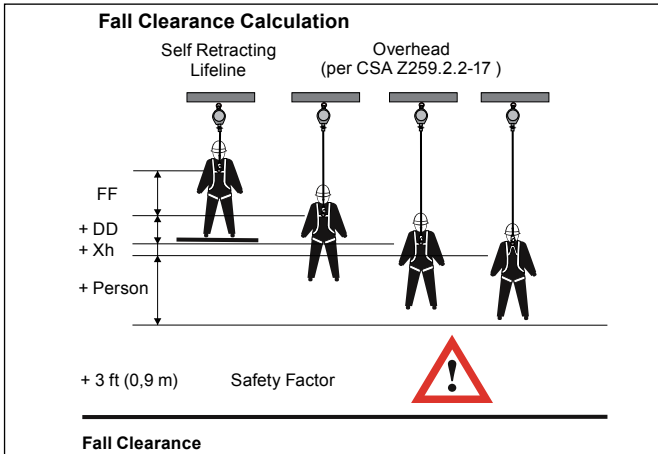
**Step 2:** Determine how much the connecting device deploys (DD)

**Step 3:** Determine the stretch of the harness (Xh)

**Step 4:** Determine person height from feet to harness connecting device

**Step 5:** Add a safety factor (typically is 3 ft)

**Step 6:** Fall Clearance C = FF + DD + Xh + Person + SF



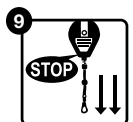
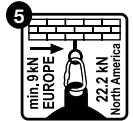
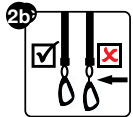
**CSA Z259.2.2-17 Deployment Calculation:**

Deployment is equal to [deployment factor,  $D_m$ ] times [free-fall distance,  $h$ ] for a maximum worker mass, kg, or deployment based on the results of the dynamic performance testing specified in Clause 7.2, whichever is greater.

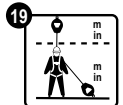
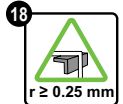
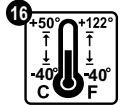
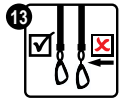
	Deployment Factor	Maximum deployment	
		Overhead	Foot Level
<b>SRL-75105-6LE</b>	$D_{140} = 0.5$	0.31 m / 12 in	1.20 m / 48 in
<b>SRL-70502-6LE</b>	$D_{140} = 0.5$	0.31 m / 12 in	1.20 m / 48 in
<b>SRL-70602-6LE</b>	$D_{140} = 0.5$	0.31 m / 12 in	1.20 m / 48 in
<b>SRL-74854-75LE</b>	$D_{140} = 0.5$	0.31 m / 12 in	1.20 m / 48 in
<b>SRL-80302-12LE</b>	$D_{140} = 0.6$	0.37 m / 15 in	1.44 m / 57 in

## INSTRUCTIONS FOR USE—HAZARD AREA

1. Fall arresters in accordance with CSA Z259.2.2-17 SRL-LE represent personal safety equipment serving to protect the user in conjunction with a safety harness CSA Z259.10-06 where falling hazards exist. The device must only be used corresponding to its intended purpose.
2. Failure to comply with the instructions (2) for use could result in a danger to life. In the event of an arrest fall, the user must be recovered from suspension as soon as possible. This device shall be removed from service when the visual load applicator and/or Energy Absorber is deployed. A rescue plan taking into account all possible rescue scenarios during the work must be drawn up.
3. This device can only protect one person at a time during use (3).
4. The device must be connected by the attachment point (1), to the dorsal fall arrest attachment point of the user's safety harness. The device should be connected to the harness using a suitable connector conforming to CSAZ259.12-01.
5. Suitable anchorage points with sufficient load-bearing capacity must be selected for the attachment of the working lifelines via the swivel connector (3), (e.g., anchorage point corresponding to EN 795 in Europe, North America the anchorage point or structure should be capable of withstanding a force of 22.2 kN (5,000 lbs) or twice a maximum of expected arrest force as certified by a qualified person.
6. This device offers protection to the user when climbing on structures, i.e., lattice steel towers. One lifeline should always be attached. The attachment point of the lifeline, wherever possible, should be above the height of the attachment point on the harness. This point should also be selected so as to minimize the effect of a pendulum swing in the event of a fall.
7. The device is attached to the rear attachment point of a fall arrest safety harness, the lifelines should come over, not under, the user's arms to the anchorage point during use (20).
8. The legibility of the product labelling must be checked each time before use (5).
9. A function test should be carried out before each use by pulling out each lifeline with a sharp pull. The device must lock. The load-indicating stitch pattern must also be checked. If the pattern is broken, the device should not be used (4).
10. This fall arrester should not be used above granulated materials or similar substances into which they can sink (10).
11. A damaged device or a device that has been subjected to an arrested fall must be taken out of use immediately. It may only be reused after inspection and re-certification by an approved service agent.
12. This device must be checked by an approved service agent every 12 months. The effectiveness and durability of the height safety device depends on regular inspection and maintenance by an approved service agent.
13. If there is any evidence of damage to the webbing lifeline (2b), i.e., cuts, tears, nicks, worn edge, etc., the device must be withdrawn from service and returned to an approved service agent for repair.
14. Guidance and legislation in the country of use must be followed.
15. The free clearance must be defined according to calculation on page 5.
16. This device can be used in the temperature range from -40 °F to + 122 °F (-40° C to +50° C) (16).



17. The working load limit is 140 kg (310 lbs) and 1 person (maximum) (17).
18. This device 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 this device.
20. Note: fall arresters 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 arrester must be determined during the annual test. This is approximately 10 years, depending on the use to which it is subjected.
22. This SRL-LE has been tested and approved for use in applications that may result in over-edge falls (18).
23. The maximum deployment when used in a leading-edge situation (19).

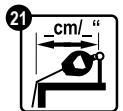


## HORIZONTAL USE

The fall arresting device has been successfully tested for horizontal application and a fall over the edge is an example of horizontal application. When using an SRL in a horizontal application the edge radius must be great than  $r = 0.25 \text{ mm}$  (0.010"). Based on this test, the fall arresting device is suitable for use over similar edges with a radius of  $r \geq 0.25 \text{ mm}$  (0.010") (18) as are typically present on rolled steel profiles, on wooden beams or on a panelled, rounded fascia. In addition, fall arresters with wire cable/webbing are also suitable to withstand wear by edges such as that of flexible (non-reinforced) trapezoidal sheet metal, pre-cast concrete elements or poured-in-place concrete edges.

The following recommendations must be followed at all times when the SRL will be used in a horizontal or inclined application and at risk of a falling over an edge:

1. A risk assessment must be carried out prior to starting work to determine if the edge meets the requirements above (ie is not "sharp" or outside the radius discussed above).
2. The working load limit is 140 kg (310 lbs) and 1 person (maximum) (17).
3. The SRL has not been exposed to a previous fall or the fall indicator has been deployed.
4. The anchor point of the fall arrester shall be equal to or above the surface (e.g., platform, flat roof) the person using the device is standing on.
5. The application does not exceed maximum deployment when used in a leading-edge situation (19).
6. To prevent a fall with a swinging fall the working area and the lateral movement from the centre line must be limited to max. 1.50 m on both sides. If this is not possible, then multiple anchor points shall be used.
7. If the SRL will be used on a horizontal lifeline (flexible anchor line), the user must also consider the deflection of the horizontal lifeline when calculating the fall clearances. Please refer to the manufacturer instruction manual for the horizontal lifeline for this information.
8. In case of a fall over an edge, there is a danger of injury during the process of arresting the fall due to the falling person hitting parts of the building or structure.
9. Special measures for rescue must be defined and trained for cases of falls over an edge.
10. Refer to the correct setback distances for each device (21).





**Falls over a sharp unprotected edge**

If the edge over which a fall may occur is unprotected and may contain a profile that sharp and / or is not free of burrs (e.g., uncovered parapet or sharp, reinforced sheet metal edge); an edge protector must be used ensure the SRL lifeline will not be cut or damaged in any way prior to starting work.

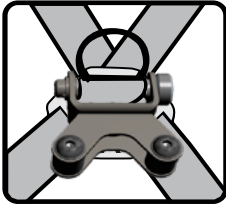
If not, serious injury or death could occur.

**SETBACK DISTANCE REQUIRED FOR HORIZONTAL USE**

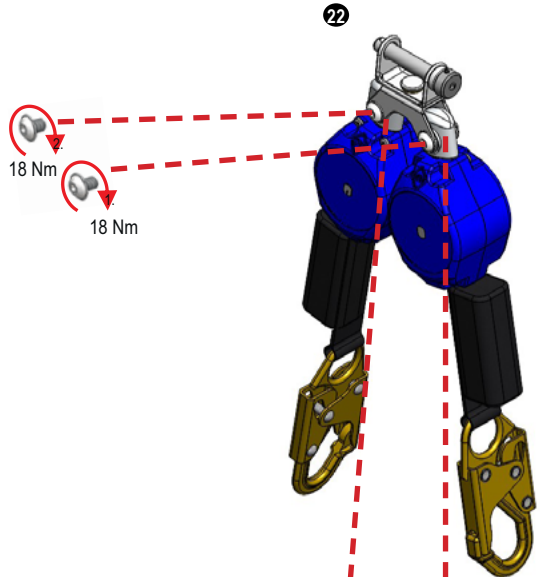
Type	Setback Distance
SRL-75105-6LE	30 cm / 12 in
SRL-70502-6LE	
SRL-70602-6LE	
SRL-74854-75LE	
SRL-80302-12LE	40 cm / 16 in
SRL-73302-10LE	
SRL-80302-18LE	
SRL-73302-20LE	50 cm / 20 in
SRL-73302-40LE	70 cm / 30 in
SRL-73302-60LE	

## FUNCTION DESCRIPTION

21

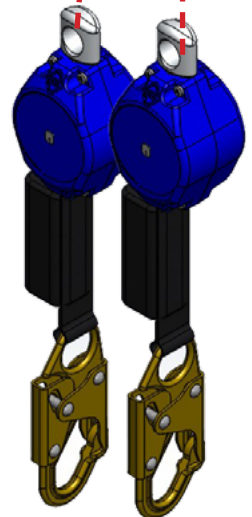
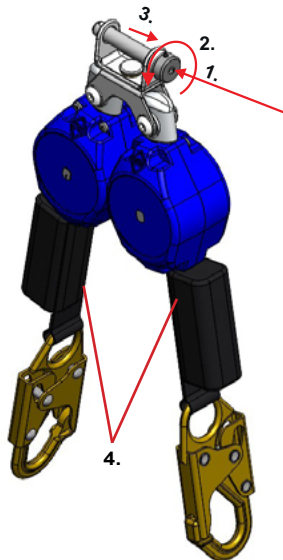


Mounting the swivel connector between webbing and back panel.



23

1. = Pit the locking contact
2. = Turn the bolt to the left
3. = Pull the bolt out
4. = External shock absorber



## LABELING OF THE FALL ARRESTER

- SRL-75105-6LE
- SRL-70502-6LE
- SRL-70602-6LE
- SRL-74854-75LE
- SRL-80302-12LE
- SRL-75105-9TBLE

**Label P/N 460JET0018V**  
Retractable type fall arrester / Les appareil antichute, according to / selon CSA Z259.2.2-17 Class **SRL-LE**

Part # / Réf de pièce: **SRL-75105-6LE**  
Lifeline length/longueur de cable: **1.8 m / 6 ft**  
Lifeline material/matériau de cable:  
**Dyneema® webbing 22 x 1.75 mm / 0.8" x 0.07"**  
Max. Arrest Force/arrêter de force: **8 kN / 1,350 lbF**  
Average Deployme Force / Force de déploiementmoyenne: **4.12 kN / 926 lbF**  
Deployment Factor / Facteur de déploiement: **0.5**  
Serial Number: **1234567**  
Manufactured: **10/2021**

**WARNING:** Follow all manufacturers instructions included at the time of shipping.  
**AVERTISSEMENT:** Suivre toutes les instructions du fabricant fournies avec le dispositif lors de sa livraison.

**2023**

**2202**

**Monitoring body**  
**Product type**  
**Webbing length**  
**Max. arrest force**  
**Average deployment force**  
**Deployment Factor**  
**Read the instruction manual**  
**Serial Number**  
**Date of manufacture**  
**Date of next inspection**

**Label P/N 460JET0018R**

EN 361  
CSA  
ANS  
ASSE

$r \geq 0.25 \text{ mm}$

**PEAKWORKS®**  
SureWex, 49 Schooner St.  
Pequottem, BC V8K 9S3  
Peakworks.com +1 800-472-7685

30 cm/12"

22 kN

0.31 m  
12"

max. 30"

1.50 m  
5'

1 PERSON

35 - 140 lb  
10 - 310 lb

**WARNING: LEADING EDGE DEVICE.** This device shall be removed from service when the visual lead indicator is deployed.  
**AVERTISSEMENT: DISPOSITIF CONÇU POUR LES BORDS COUPANTS.** Ce dispositif doit être retiré du service lorsque l'indicateur de chute du est activé.

## 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  $> 30^\circ$  from the vertical in relation to the end user).
  - (e) On Self-Retracting Lifeline with Leading Edge capability (SRL-LEs)
    - Verify that the integral Energy Absorber has not been activated.
    - Ensure the energy absorber has not been deployed
    - Ensure the webbing is not frayed
    - Ensure there is no ripped stitching
    - Ensure there are no frays, burns, or cutting in the energy packs
- Note:** For the SRL-LE, always check the fall indicator before use. It is possible that the device can arrest a fall; however, the energy absorber pack may not deploy. Therefore, you should always check the fall indicator before use.

### 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 fails, 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 arrested a fall, it must be removed from service immediately.**

## SERVICE AND MAINTENANCE

1. The 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.
2. The webbing lifeline of this device may only be cleaned with soap suds and a sponge; on no account use a solvent.
3. Fall arresters must be stored in a dry location free of dust and oil, if possible in the packaging supplied.

4. Textile elements which have become wet during cleaning or use may only be left to dry naturally, i.e., not in the vicinity of fire or heat sources.
5. This device must be checked by an approved service agent every 12 months. The effectiveness and durability of the height safety device depends on regular inspection and maintenance by an approved service agent.

## 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 are discussed later in the manual.

**Inspection Requirements for Self-Retracting Devices**

Type of use	Application examples	Example of conditions of use	Worker inspection frequency	Competent person inspection frequency	Product revalidation frequency
Infrequent to light	Rescue and confined space, factory maintenance	Good storage conditions, indoor or infrequent outdoor use, room temperature, clean environments	Before each use	Annually	At least every 5 years, but not more than intervals required by the manufacturer
Moderate to heavy	Transportation, residential construction, utilities, warehouse	Fair storage conditions, indoor and extended outdoor use, all temperatures, clean or dusty environments	Before each use	Semi-annually to annually	At least every 2 years but not more than intervals required by the manufacturer
Severe to continuous	Commercial construction, oil and gas, mining, foundry	Harsh storage conditions, prolonged or continuous outdoor use, all temperatures, dirty environments	Before each use	Quarterly to semi-annually	At least annually but not more than intervals required by the manufacturer

### Notes:

1. Failure of a worker to perform a “before each use” inspection or failure of an inspection by a worker shall initiate the requirements for inspection by a competent person.
2. Failure of a competent person to perform inspections as specified in this table, or failure of an inspection by the competent person shall initiate product revalidation or disposal.
3. Determination of the type of use category shall be determined by a competent person.
4. An SRD that is considered non-repairable, or not designed for disassembly such that internal inspection is not possible without rendering it unserviceable, is not subject to revalidation inspection. These SRDs shall have service life and other inspection requirements as provided by the manufacturer’s instructions.



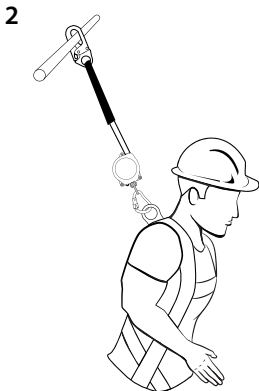
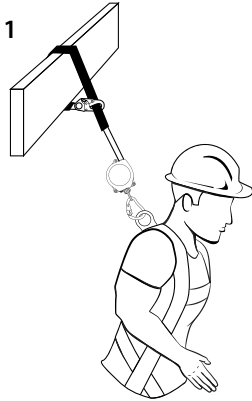
**INSPECTION LOG**

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

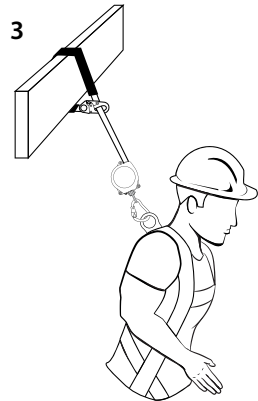
## **SRL Appendix: Single Leg or Twin Leg Tie-Back SRL-70502-9TBLE or SRL-75105-9TBLE**

The PeakWorks Single Leg or Twin Leg Tie-Back SRL-70502-9TBLE or SRL-75105-9TBLE is designed with snap hooks, with 5,000-lb gates, and a web lifeline with a protection sleeve to enable a safe and compatible connection. In addition to its tie-back and 100% tie-off abilities, this SRL also has the advantage of being a Leading Edge SRL.

### **Correct Orientations For Use:**



### **Incorrect Orientation For Use:**



**Warning: If you are unsure of the safe use of this product, do not use; contact the manufacturer. Incorrect use of this product may lead to injury or death.**



**PEAKWORKS®**

**NOTES**