



Super Anchor Safety

FALL PROTECTION EQUIPMENT

SRL-BLE Instruction/Specification Manual 2025

SIDE WINDER-LE
LEADING EDGE SELF RETRACTING LIFELINE

No.2901B-LE50
No.2903B-LE30



Toss'R-LE

No.2991-LE10



Class

2

Anchor above or
below dorsal D-ring

Leading Edge Self Retracting Lifeline



Class 2 Leading Edge Self-Retracting Lifeline Instruction/Specification Manual 2025

User Specifications

Class 2 SRL-LE's are designed to be anchored above or below a full body harness dorsal D-ring.

Do not attach to side D-rings.

Always attach to an anchorage that complies with OSHA 1926.502 for fall protection equipment.

Class

2

Anchor above or below dorsal D-ring

SRL-LE Models Specified in this Manual



Section A

2901B-LE50 50ft/2903B-LE30 30ft



Section B

2991-LE10 10ft



Qualified Person Definition:

OSHA 1910.140 (29 CFR 1926.32(m))

"one who by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated the ability to solve problems relating to the subject matter, work or project."

!WARNING TO USER!

You are required to read, understand and use the current Instruction manual for this device prior to use. Manuals are available by one of the following sources:

- Instructions supplied with the device or at the time of purchase.
- Downloaded from **SAS** website www.SuperAnchor.com
- Access VIA QR code on the device PID label or shipping box.
- Contact **SAS** sales personnel or sales office.

Users are required to receive training for the use of this equipment by "Qualified" or "Competent" person. See OSHA definition. Serious injury or death can result from improper use or using equipment that does not pass inspection/function tests as specified in this manual.

SAS used in this manual =
Super Anchor Safety

Fall Arrest Definition* OSHA 1910.140

- (d)(1)(i): Limit max. arresting force to 1,800lb.
- (d)(1)(iii): System of sufficient strength to withstand 2X the potential impact energy in a 6ft free fall, or the distance permitted by the system.
- (d)(1)(v): 310lb max. user wt. including tools.
- (d)(2)(ii): limits a free fall of no more than 6ft.

* SAS Abbreviated

Fall Restraint Definition OSHA 1926.751

"A means of fall protection that prevents the user from falling any distance."

Competent Person Definition OSHA 1910.140

"one who is capable of identifying existing and predictable hazards in any personal fall protection system or any component of it, as well as in their application and uses with related equipment, and who has authorization to take prompt corrective action to eliminate the identified hazards"

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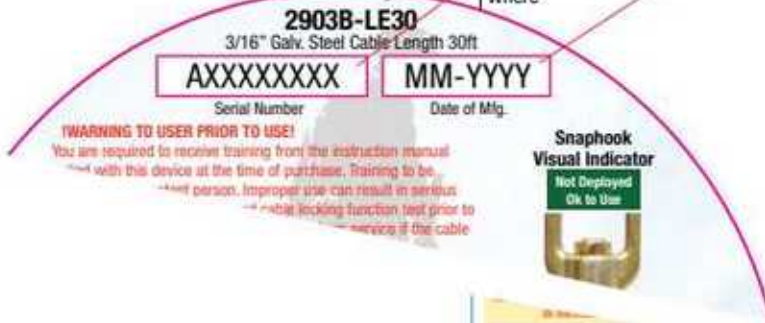
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Inspection Form A-1.0 Pg. A-17

Casing PID
Specification
Label**WARNING TO USER PRIOR TO USE!**

You are required to receive training from the instruction manual with this device at the time of purchase. Training to be performed by a competent person. Improper use can result in serious injury or death. Always perform a locking function test prior to service of the cable.

Snaphook
Visual IndicatorNot Deployed
OK to Use

SRL Specifications

Leading Edge Use:

Max. User wt.: 130-310lbs including tools and equipment.

Avg. Arresting Force: 1,350lbs

Max. Arresting Force: 1,800lbs

Min. Setback Distance: 2ft

Max. Free Fall: 5ft

Fall Clearance: 18.5ft

Overhead Use

Max. Deceleration Distance: 36"

Fall Clearance: 6.5ft

PPE/Anchorage Points

PPE: Users are required to wear a full body harness that is compliant with current OSHA 1926.502 fall protection standards. Do not connect SRL to side D-rings.

SRL Anchorage: Attach SRL carabiner to an anchorage that is capable of supporting 5,000lb or 2X the intended fall protection load. Min. anchorage strength 3,600lb for an engineered fall protection system.

Service Life and Inspection Requirements

Annual/6 Month: Competent or Qualified person.

Prior to Each Use: Competent person or end users trained to perform inspections by a competent person.

Service Exposure	Approx. Service Life	Min. 1 Year	Min. 6 Months	Before each use
Each Use	3-5 years	X	N/A	
Indoor/Heavy	2 years +			
Outdoor/Heavy	1-2 years		X	X
Salt Air Exposure	1 year			

Note: Exposure to salt air, water saturation, gypsum and dust reduces the SRL's service life.

Model: 2903B-LE30 ☒ 2901B-LE50 ☐ Enter Model not Listed:	
Serial No.	SAS Date of Mfg.
Owner Company:	Date of First Use:
Inspection By/ Agency:	Retu
Where	Date:
	Certificat

Note: Date of mfg. (DOM) is the date the SRL was shipped from SAS factory.

Instructions Prior to First Use

- Record the date of first use on the Aux. label.
- Create a service record on form A-1.0. Enter SRL part no., serial no., date of mfg. and date of first use.

Required Inspections

Prior to Each Use:

Pg.10 and inspection references.

Competent Person:

Pgs. 10,11,12,13,14,15, and 16.

PID (Product ID) Label

SRL Original
Shipping Box

Required to return SRL for service.



WARNING! Do not attempt to repair a SRL. Return to SAS factory.



Overhead Anchorage

Overhead anchorage limits free falls to approx. 2ft when travel on the work surface is within the X/Y dimensions specified in chart 1.0. Care must be taken to restrict offset distances in order to avoid increased free fall lengths and swing fall hazards.

Example: Overhead anchorage (X), is 10ft above the dorsal D-ring. Travel in any direction from vertical center is 6ft and requires lower level clearance (Z) of 8'-6" when leading edge fall hazards are present.

**Chart 1.0 30ft/50ft SRL-LE
Overhead Anchorage Class 2 Clearance**

		Lateral Offset Distance (Y)							
		0ft	2ft	4ft	6ft	8ft	10ft	15ft	20ft
SRL Anchorage Height Above Dorsal D-ring (X)	0ft	8'-6"	10'-6"	WARNING! DO NOT WORK IN RED ZONE					
	5ft	7'							
	10ft		7'-6"						
	15ft		7'						
	20ft	6'-6"		7'-6"	8'-6"	9'			
	25ft		6'-6"		8'	8'-6"			
	30ft								
	35ft			6'-6"			10'-6"		
	40ft			7'	7'-6"	8'	10'		
	45ft						9'-6"		
	50ft							12'-6"	
(Z) Ground Clearance* Includes 18" Safety Margin									

Note: Working in red zone may result in serious injury or death in the event of a fall.

*Or nearest lower level below work area.

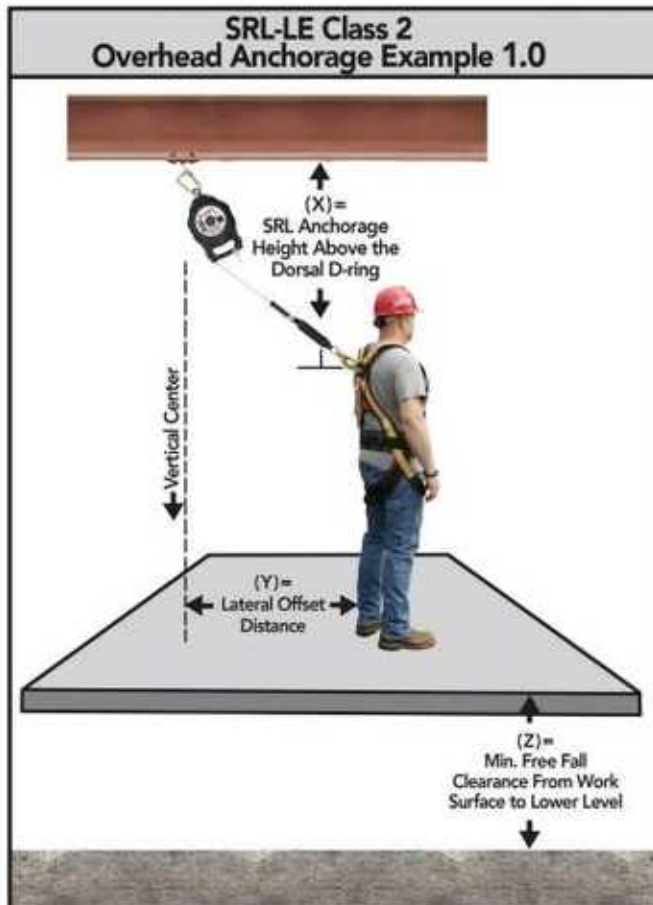


Chart 1.0 Example:

(Y) = 6'
(X) = 10'
Ground Clearance (Z) = 8'-6"
Max. Free Fall: =24"

Work Zone: White areas

Restricted Zone: Red areas.

Note: work in red zones is not allowed and may result in serious injury or death in the event of a fall.

Do Not Expose SRL Cable to the Following Hazards:

- Wrapping around obstacles.
- Contact with electrical sources or crossing over extension chords.
- Contact with HVAC, equipment or material stacks.
- Tools or equipment used for cutting or grinding.
- Sources of high heat such as welding or torch flames.

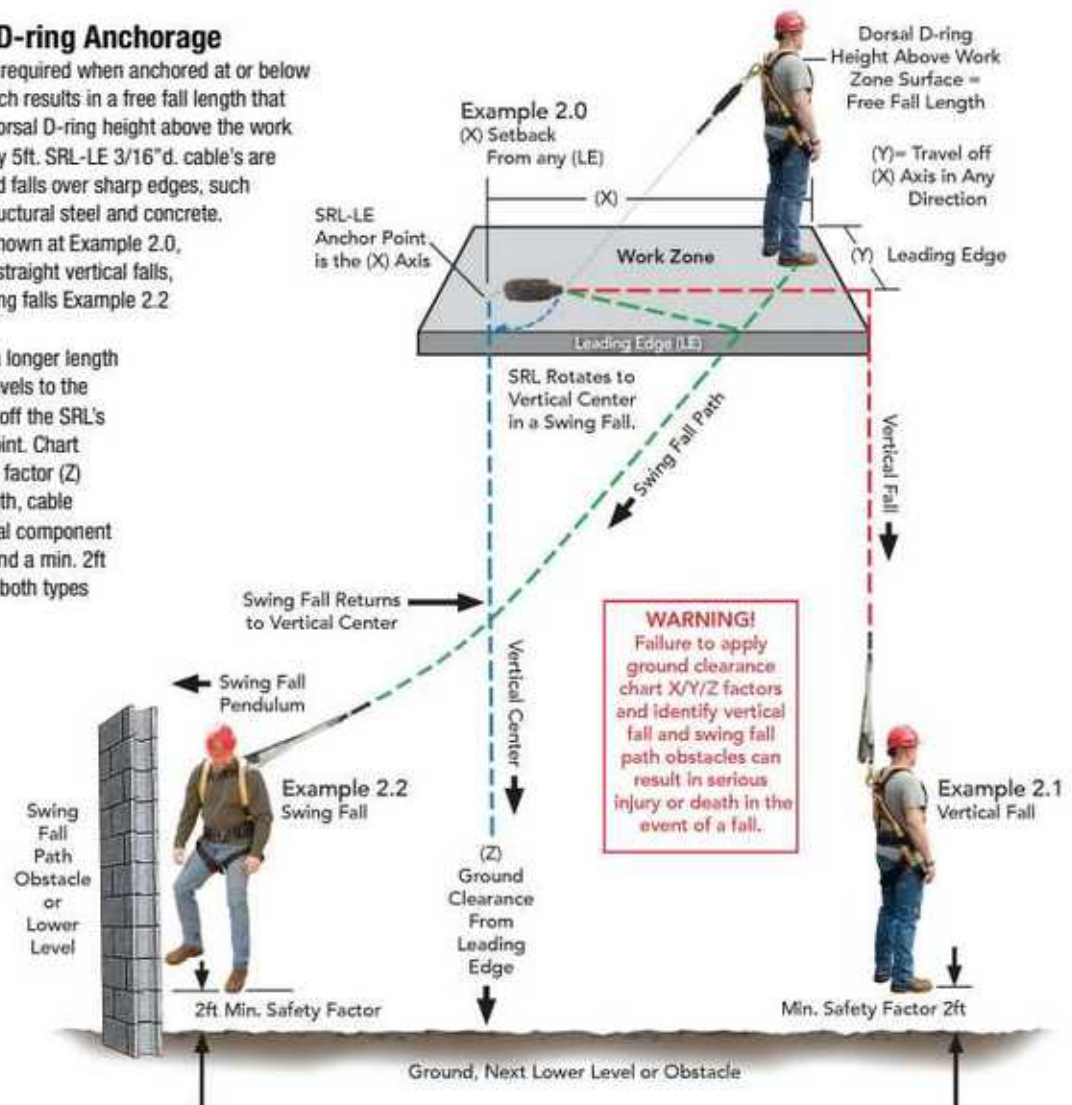


2903B-LE30
2901B-LE50

Below Dorsal D-ring Anchorage

Class 2 SRL-LE's are required when anchored at or below the dorsal D-ring which results in a free fall length that is = to the workers dorsal D-ring height above the work zone surface, typically 5ft. SRL-LE 3/16" d. cable's are designed to withstand falls over sharp edges, such as metal decking, structural steel and concrete. Leading edge work shown at Example 2.0, exposes a worker to straight vertical falls, Example 2.1 and swing falls Example 2.2

Swing falls result in a longer length of fall as a worker travels to the left or right (Y) factor off the SRL's (X) axis anchorage point. Chart 2.0 ground clearance factor (Z) includes free fall length, cable deployment, additional component deployment factors and a min. 2ft ground clearance for both types of falls.



Any travel away from the anchorage point will result in deployment of more cable. Exceeding the X/Y and Z factors in chart 2.0, will result in a longer length of fall that can exceed the SRL's ability to arrest a fall or prevent the worker from contacting an obstacle below.

Care must be taken to avoid contact with the next lower level and swing fall obstacles.

**Chart 2.0 30ft/50ft SRL-LE
Below Dorsal D-ring Class 2 Clearance**

		(Y) Distance off (X) Axis Anchorage Point					
		0ft	2ft	4ft	6ft	8ft	10ft
(X) Axis Set-Back Distance	2ft			21'	WARNING! DO NOT WORK IN RED ZONE		
	4ft			20'			
	6ft			19'-6"			
	8ft		19'	19'-6"	20'-6"	22'	
	10ft	18'-6"					
	12ft				20'	21'	22'
	14ft					20'-6"	21'-6"
	16ft		18'-6"	19'	19'-6"	20'	21'
	18ft						
	20ft				19'		
(Z) Ground Clearance* Includes 2ft Safety Margin							

Note: Working in red zone may result in serious injury or death in the event of a fall.

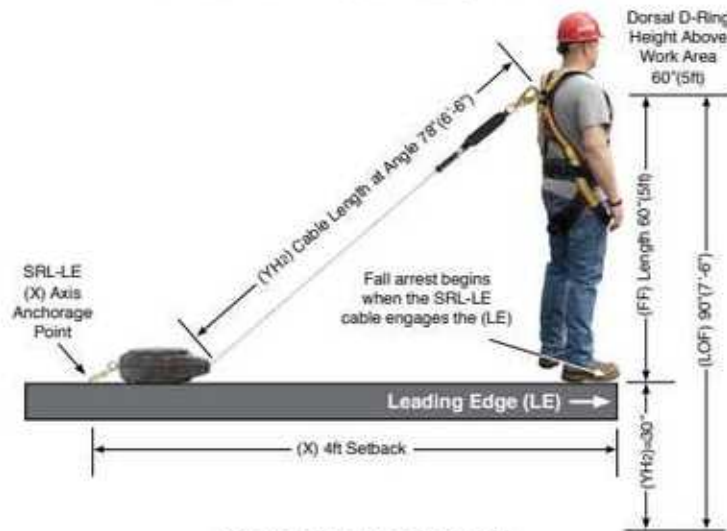
Leading Edge (LE) Free Fall

The following examples, 3.0 and 3.1, (YH₁) and (YH₂) illustrate how cable deployment lengths at angles off the (X) axis, affect the length of a vertical free fall and swing fall over the leading edge.

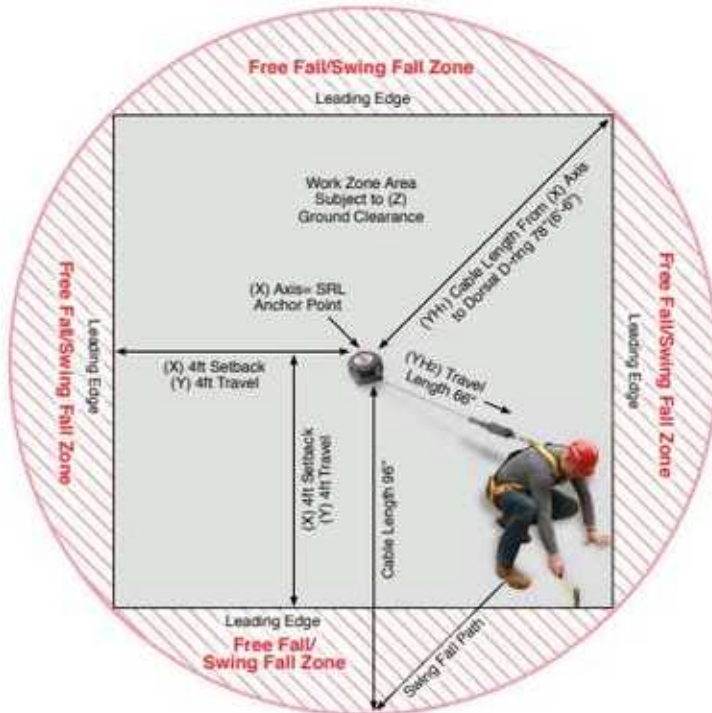
Note 1: Examples 3.0/3.1, the (LOF) applies only to the deployed cable cable length and max. free fall of 5ft over the (LE) and do not include all of the factors in a total length of fall from the leading edge to the to the nearest lower level below the (LE).

Note 2: (YH₁) and (YH₂) cable lengths are included in the (Z) ground clearance with a safety factor of 24" and are not required to be calculated separately.

Vertical Free Fall Example 3.0



Swing Fall Example 3.1



SAS Abbreviations Key For Examples

SRL-LE	Self retracting lifeline specified for leading edge work with anchorage attachment overhead or horizontal (at or below the dorsal D-ring)
Class 2	Anchor above or below dorsal D-ring
(FF)	Free fall (SF) Swing fall
(LOF)	Length of fall
(LE)	Leading edge fall hazard
(Y)	Worker travel in any direction off (the X) axis
(YH₁)	Cable length measured from (X) axis to the max. (Y) travel to the dorsal D-ring height of 60"
(YH₂)	Cable length measured from (X) axis to the leading edge based on the (Y) factor
(X)	SRL-LE anchorage setback from a leading edge
(Z)	SRL-LE ground clearance including 18" up to 24" safety factor
(H)	Dorsal D-ring full body harness stretch based on a 310lb worker subjected to a 5ft free fall
(E/A)	External energy absorber attached to the SRL-LE cable

Vertical Free Fall (FF) Over (LE)

A free fall with no (Y) travel to the left or right off the (X) axis adds (H₁) cable length as measured from the work surface zone to the dorsal D-ring.

Example 3.0

- (Y)=4ft / (X)=4ft (FF)=60"
- Dorsal D-ring ht. 60"
- Max. free fall (FF), 60"
- (YH₁) cable length=78"
- (LOF) 78"-48"=30"+(FF) 60"=90"

Swing Fall (SF) Over (LE)

The max. (Y) travel off (X) axis adds (YH₁)+(YH₂) cable lengths to the (LOF).

Example 3.1

- (Y)=4ft / (X)=4ft (FF)=60"
- Dorsal D-ring ht. 60"
- Max. free fall (FF), 60"
- (YH₁) cable length=78"
- YH₂ cable length=66"
- (LOF) 78"-48"=30" + 66"-48"=18" + (FF) 60"=108"

Comparison

Vertical fall=90" (LOF)

Swing fall=108" (LOF).

Travel at an angle off the (X) axis increases the (LOF) by 18". The (Z) ground clearance includes both (YH₁) and (YH₂) cable lengths.

Length of Fall (LOF)

Ground clearance charts included in this manual and inside the external (E/A) pack, specify setback and travel distance including other factors necessary to prevent contacting the ground or next lower level.

Fall Arrest

Fall arrest begins when the SRL-LE cable intersects the (LE) and the following components begin to deploy:

- SRL-LE internal brake 30" +/-
- External (E/A) tear webbing 66" +/-

(SW) Pendulum Effect

Inertia from a swing fall will cause a suspended worker to travel past the vertical center of the SRL-LE anchorage point, at some point stop and then swing back in the opposite direction. Eventually a suspended worker will come to rest at vertical center provided there are no obstacles in the swing fall path to prevent that.

Example 3.2

Ground Clearance Chart Factors

Chart 2.0 30ft/50ft SRL-LE Below Dorsal D-ring Class 2 Clearance

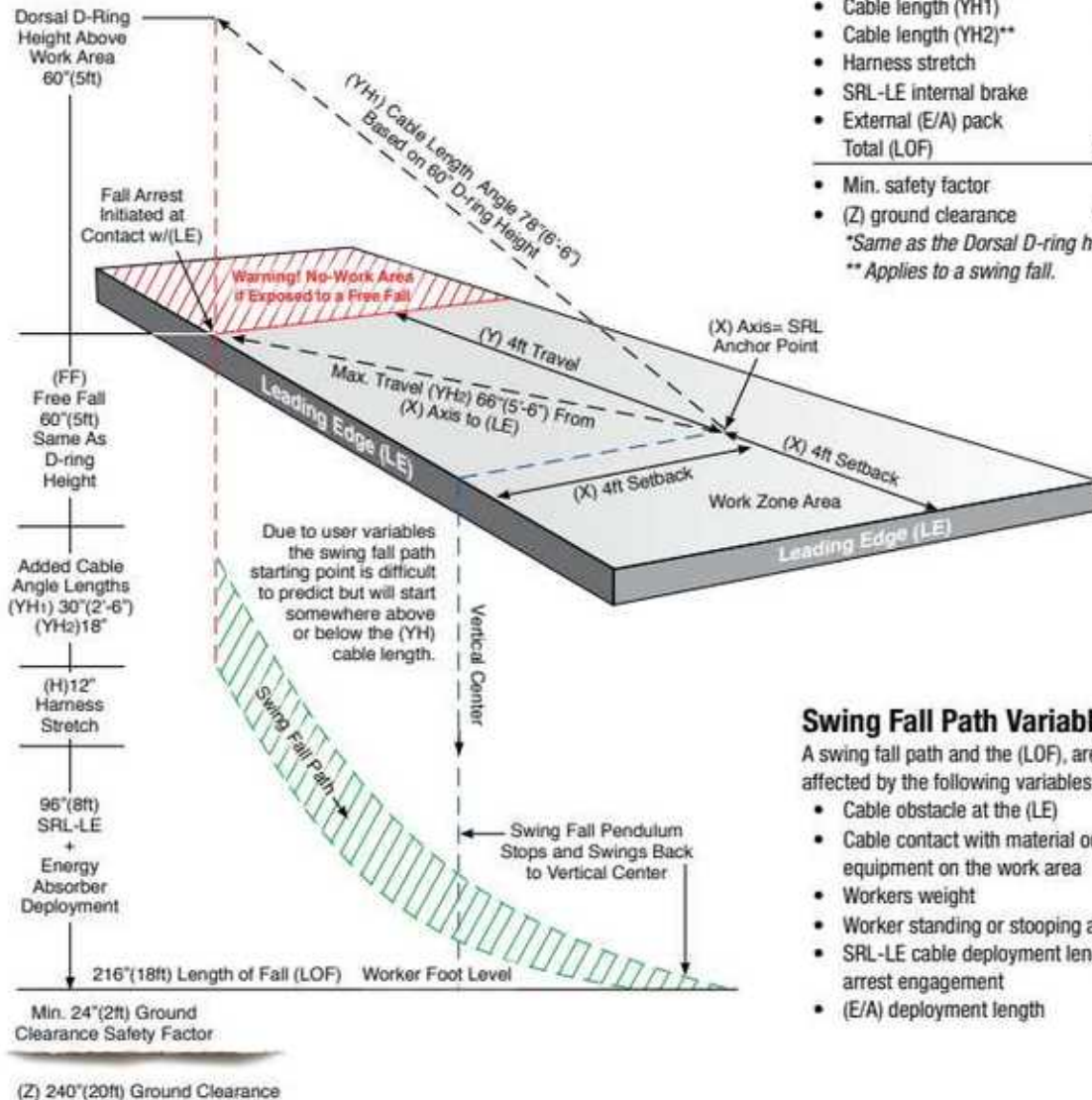
		(Y) Distance off (X) Axis Anchorage Point					
		0ft	2ft	4ft	6ft	8ft	
Set-Back Distance	2ft			21'	WARNING!		
	4ft			20'			
	6ft		19'		21'-6"		
	8ft			19'			
	10ft	19'					

Example 3.2 (LOF) Factors

- (X) Setback 4ft
- (Y) Travel off (X) axis 4ft
- Free fall over the (LE)* 60"
- Cable length (YH1) 30"
- Cable length (YH2)** 18"
- Harness stretch 12"
- SRL-LE internal brake 30"
- External (E/A) pack 66"
- Total (LOF) 216"

- Min. safety factor 24"
- (Z) ground clearance 240"

*Same as the Dorsal D-ring height.
**Applies to a swing fall.

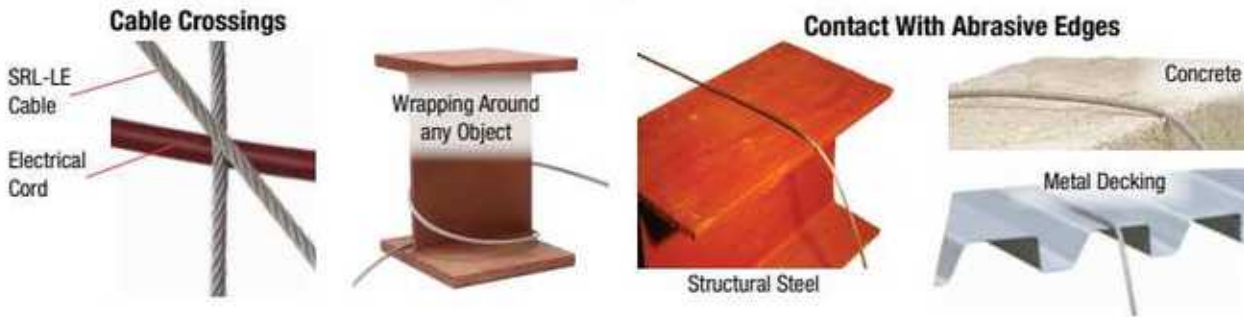


Swing Fall Path Variables

A swing fall path and the (LOF), are affected by the following variables:

- Cable obstacle at the (LE)
- Cable contact with material or equipment on the work area
- Workers weight
- Worker standing or stooping at the (LE)
- SRL-LE cable deployment length at fall arrest engagement
- (E/A) deployment length

Cable Hazards: Examples shown here will result in damage or severing of the cable.



Exceeding Ground Clearance Chart Specifications

(Y) travel outside ground clearance chart specifications for (X) axis, increases the deployment length of the SRL-LE brake system, the E/A deployment length and additional cable length to the length of fall (LOF). The fall arrest system may fail as a result of the increased fall arrest force resulting in serious injury or death.

Specifying Safe Work Zones

A competent person is required to specify safe work zones using the ground clearance charts in this manual and instruct workers how to comply with work zone boundaries and avoid travel into unsafe **NO WORK ZONES**. The use of SRL's are inherently dangerous because they cannot be set at a fixed length to limit (Y) travel, thus creating the potential for an extreme free fall event. For that reason a job specific plan (JSP) is required to designate safe and unsafe work zones.

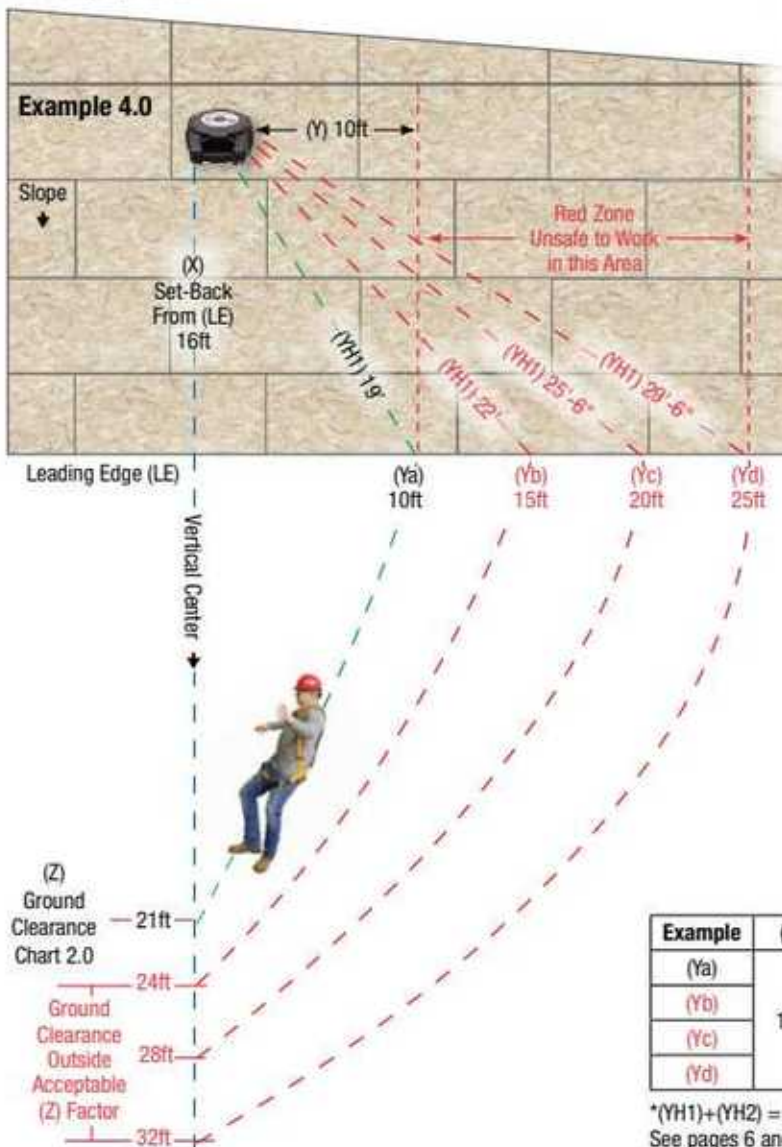


Chart 2.0 Below Dorsal D-ring Class 2 Clearance

		(Y) Distance off (X) Axis Anchorage Point				
		0ft	2ft	4ft	6ft	10ft
Set-Back Distance (X) Axis	2ft			21'	WARNING! DO NOT WORK IN RED ZONE	
	4ft			20'		
	6ft			19'-6"		
	8ft			20'-6"		
	10ft		18'-6"		21'	22'
	12ft			20'	20'-6"	21'-6"
	14ft				19'-6"	20'
	16ft		18'-6"	19'		(21')
	18ft				19'	
	20ft					

Clearance Required (Z) Includes 24" Safety Margin

Exceeding Chart (Y) Factors

Shown at example 4.0, (Y) travel off the (X) axis outside chart 2.0 specifications, increases the length of deployed cable*, adding to the (LOF) and the required ground clearance (Z). See length of fall (LOF) example 3.2.

Example	(X)	(Y)	Cable*	(Z)	Chart 2.0
(Ya)	16ft	10ft	4'-6"	21ft	Complies
(Yb)		15ft	8ft	24ft	Does not Comply
(Yc)		20ft	11ft	28ft	
(Yd)		24ft	15ft	32ft	

* (YH1)+(YH2) = cable length added to a 5ft free fall.
See pages 6 and 7 examples.

Ground Clearance Charts

Chart 1.0 30ft/50ft SRL-LE
Overhead Anchorage Class 2 Clearance

		Lateral Offset Distance (Y)								
		0ft	2ft	4ft	6ft	8ft	10ft	15ft	20ft	
SRL Anchorage Height Above Dorsal D-ring (X)	0ft	6'-6"	8'-6"	10'-6"	WARNING! DO NOT WORK IN RED ZONE					
	5ft		7'	7'-6"						
	10ft			7'-6"	8'-6"					
	15ft			7'	7'-6"	8'-6"	9'			
	20ft				7'-6"	8'-6"	8'-6"			
	25ft		6'-6"			8'	8'-6"			
	30ft				6'-6"			10'-6"		
	35ft					7'	7'-6"	8'	10'-6"	
	40ft							8'	10'	
	45ft								9'-6"	12'-6"
	50ft									
(Z) Ground Clearance* Includes 18" Safety Margin										

Chart 2.0 30ft/50ft SRL-LE
Below Dorsal D-ring Class 2 Clearance

		(Y) Distance off (X) Axis Anchorage Point						
		0ft	2ft	4ft	6ft	8ft	10ft	
(X) Axis Set-Back Distance	2ft	18'-6"	19'	21'	WARNING! DO NOT			
	4ft			20'	21'-6"	WORK IN RED		
	6ft			19'-6"	21'	22'-6"	ZONE	
	8ft				20'-6"	22'		
	10ft	18'-6"	19'					
	12ft			20'	21'	22'		
	14ft				20'-6"	21'-6"		
	16ft			19'-6"	20'	21'		
	18ft				19'			
20ft								
(Z) Ground Clearance* Includes 2ft Safety Margin								

Do Not use for 30ft SRL-LE

Chart 3.0 50ft SRL-LE* Below Dorsal D-ring Class 2 Clearance

(Y) Distance off (X) Axis Anchorage Point								
		0ft	2ft	4ft	6ft	8ft	10ft	15ft
(X) Axis Set-Back Distance	2ft	18'-6"	19'-6"	21'	WARNING! DO NOT WORK IN RED ZONE			
	4ft		20'	22'				
	6ft			21'				
	8ft		19'-6"	20'-6"				
	10ft			21'-6"				
	12ft			20'	21'	22'-6"		
	14ft		22'					
	16ft		21'-6"					
	18ft		19'-6"		21'			
	20ft			20'	20'-6"	22'		
30ft	20'	21'-6"						
40ft	19'							
(Z) Ground Clearance** Includes 2ft Safety Margin								

Overhead Anchorage
Chart 1.0 30ft/50ft SRL-LE

WARNING! Do Not Use for Below Dorsal D-ring



Below Dorsal D-ring Anchorage
Chart 2.0 30ft/50ft SRL-LE
Chart 3.0 50ft SRL-LE



Warning! Working in red zones may result in:

- Failure to arrest a fall.
- Striking the ground or lower level.
- Serious injury or death from a swing or free fall.

Inspection Guide

Training/Prior to Each Use Inspections: A competent person is required to train users in the operation of the SRL-LE, observing ground clearance chart specifications, how to perform "Prior to Each Use" inspections, demonstrate ability to inspect by example, and what to do if a test fails, or a defect is found during use.

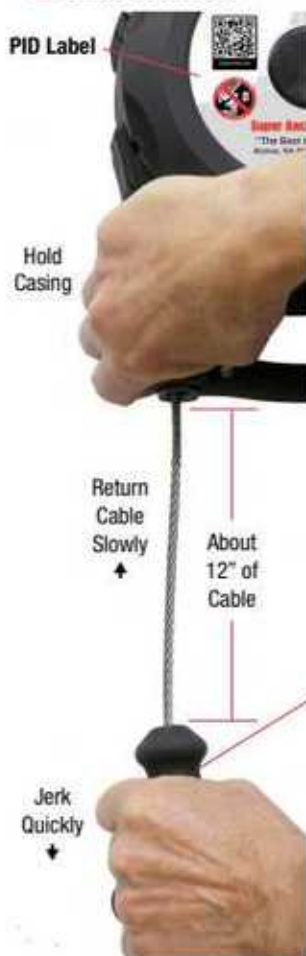
Required Inspections/Function Tests Prior to Each Use

- Cable Lock Test
- Visual Indicator
- Snaphook/Carabiner. Pg. A-14

- PID labels not readable or missing. Pgs. A-15/16. ☒

Additional inspection points see Pg. A-11

▲ Cable Lock Test



Instructions

Hold casing with one hand and cable grip with the other hand. Slowly deploy about 12" of cable and jerk quickly.

- Cable locks. ☑
- Cable does not lock. * ☒

**Note: The internal brake system may be oxidized due to salt air exposure, or debris inside the casing.*

Cable Retraction Test

Slowly deploy as much cable as you can, at least 2ft. then slowly return cable to casing.

- Cable returns smoothly. ☑
- Cable does not return smoothly. * ☒

**Note: This may indicate the recoil spring is faulty or debris inside the casing.*

- Cable Grip
- Damaged or missing. ☒

10 Visual Indicator



Warning!
During use or when performing locking test, DO NOT release cable. Damage to the recoil spring and internal brake system may occur.

☒ Failure to Pass Tests/Inspections
REMOVE FROM SERVICE IMMEDIATELY!

Return the SRL-LE to your employer or person authorized to maintain safety equipment.
Report the reason for test failure.

☑ Passes inspection/function tests.

Inspection During Use

Cable should deploy and retract smoothly. During use, inspect cable, if any damage is present. ☒

Cable Lock

Moving too fast will engage the locking function. If locking occurs with normal movement, slow your movement. If locking continues. ☒

Never allow the cable to retract without tension.

Cable Binding

Uneven winding of the cable can result in binding. Deploy a few feet of cable and resume retraction.

Failure of cable retraction. ☒

Connector Inspections

Perform inspection/function tests

See Pg. A-14



7 Cable Inspection



Remove From Service

SRL-BLE30/SRL-BLE50 Inspection Guide

A competent person is required to perform scheduled SRL-LE inspections once every 6 months or based on the frequency of use and environmental conditions. The person or agency performing inspections may add inspection points not included in this manual. Inspections can be recorded on the SAS inspection form A-1.0.

▲ Cable Lock Test

Pg. A-10 test fails. ☒

☒ Inspection fails remove from service. Return to SAS for service or dispose of in a way that will prevent further use.

☑ Pass inspection. Take corrective action as noted.

1 Auto-Lock Carabiner:

Pg. A-14 inspection/locking test fails. ☒
Replace carabiner. ☑

2 Swivel Connector:

Pgs. A-10/11
Does not rotate freely. ☒

3 Casing Inspection:

Pgs. A-11/12
Gouges, cuts or cracks. ☒
Casing sides separating. ☒
Handle cracked. ☒
Tar, caulking, concrete, dirt present, clean the casing. ☑

4 12 Casing Screws Required:

Pgs. A-11/12
Missing screws. ☒

5 Cable Guide:

Pgs. A-11/12
Deep gouges from cable abrasion. Missing guide. ☒
Remove any debris from guide. ☑

6 Cable Grip:

Pgs. A-11/12
Missing or severely damaged. ☒

7 Cable/Cable Termination:

Pgs. A-10/12
Eye thimble missing. ☒
Cable damaged/missing swages ☒

8 Wear Pads/E/A Loop End:

Pg. A-13
Wear pad missing. ☒
E/A webbing worn. ☒

9 Energy Absorber:

Pg. A-13
Cover missing. ☒
PVC cover missing. ☒
Aux labels missing. ☒
Tear webbing deployed. ☒

10 Visual Indicator:

Pgs. A-10/11
Red indicator visible. ☒

11 Swivel Snaphook:

Pg. A-14 inspection/locking tests fail. ☒
Pgs. A-10/11 swivel does not rotate freely. ☒



12 PID Front/Back Casing Labels

Pgs. A-11/15
Any part of the label is missing. ☒
Data not readable. ☒

13 Auxiliary Labels:

Pgs. A-13/16
Labels are missing. ☒
Data not readable. ☒

Inspection Form A-1.0

Pg. A-17

Casing Inspection Guide

3 Casing/Handle Inspection

- Fractures/cracks/gouges.
- Casing deformation or penetrations.
- Casing surface contamination.
- Casing sides/screws/cable guide.

Consult inspection numbers on pgs. A-10,11,12 and 13.

Fig.1

1
2

Cable Retraction
Secure the connector end.

3 Casing

5

Cable Clamp
Do not use vise grips or metal clamps.

Deploy
↓

Retract
↑

7 Cable Inspection Pg.A-10

- Deploy cable fully to a complete stop.
- Cable damage. ☒
- Does not deploy or retract smoothly. ☒
- Deploys and retracts smoothly w/o stops. ☑

6 Cable Grip

7 Cable Termination

9 Energy Absorber
See Pg.A-13

10 Snaphook

Anchor snaphook end or clamp at cable guide.

Fig.2

3 Swivel Casing Damage



- Casing fractures or cracks around the swivel attachment. ☒

Fig.4

5 Cable Guide



- Excessive wear from cable abrasion. ☒

Fig.5

4 12ea Casing Screws



- Screws missing. ☒
- 3 Casing Sides
- Voids, cracks or seam separation. ☒

7 See Pg.A-10



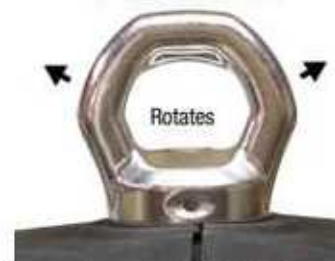
Remove From Service

Damage From Accident or Abuse

- Dropping onto a hard surface or storing materials on the casing.
- Cable to retraction without tension.
- Wrapping cable around an object, contact with a hard metal or concrete edge, exposure to cutting or welding.
- Exposure to cleaning chemicals.
- Exposure to high heat or open flame.
- Improper storage, or water submersion.

Fig.3

2 Swivel Connector



- Does not rotate freely. ☒
- Gouges, cuts, cracks or deformation. ☒

Fig.6

7 Cable Termination

Slide grip up to expose cable swages.



2 Swages

- Swage missing or damaged. ☒

Clear Swage Cover Missing is OK.

Eye Thimble

- Deformation or cable wear. ☒



Energy Absorber Inspection Guide

See Pgs. A-10, 11, 12 and 14 for additional inspection points. SRL-LE's are equipped with an external (E/A) that deploys when subjected to a force of approx. 650lb. Tear webbing reduces the max. arrest force slowing the free fall to full arrest.

☒ = Remove from service.



Wear Pad Inspection

The E/A backer webbing is visible from the outside. A second layer (wear pad) is under the backer webbing and provides abrasion protection from the connector attachments. Webbing worn thru. ☒

Clear PVC (E/A) Cover

Shrink wrap is required to keep the tear webbing tightly packed. Do not remove.



10 Snaphook

Visual indicator deployed. ☒



Tear Webbing Deployment Factors

The following variables determine how much tear webbing is deployed in a free fall:

- User weight.
- Swing fall cable angle.
- Free fall distance.



Visual indicator may not deploy with partial E/A deployment.

Snaphooks



Steel or Aluminum Rebarhooks



Steel or Aluminum Carabiners



Connector Inspection/Function Tests

Class 1 connector gates are designed to remain Closed during use. Two separate functions are required to unlock connector gates. Test and inspect connectors prior to each use and at least once a year by a competent person.

Captive connectors

Factory attached non-removeable connectors that do not pass inspection/function tests, require the entire equipment to be removed from service. Carabiners that are removeable can be replaced.

Gate Locks/Rivets

Gates and gate locks are spring loaded and will snap shut when no force is applied. If they fail to close when released, remove from service. All gate rivets must be intact to pass inspection. Inspect both sides of the rivets.

Oxidation/Rust

Coatings applied to connectors will deteriorate over time. Exposure to salt air, chemicals and abrasion are normal and do not require to remove connectors or equipment from service provided they pass the required inspections.

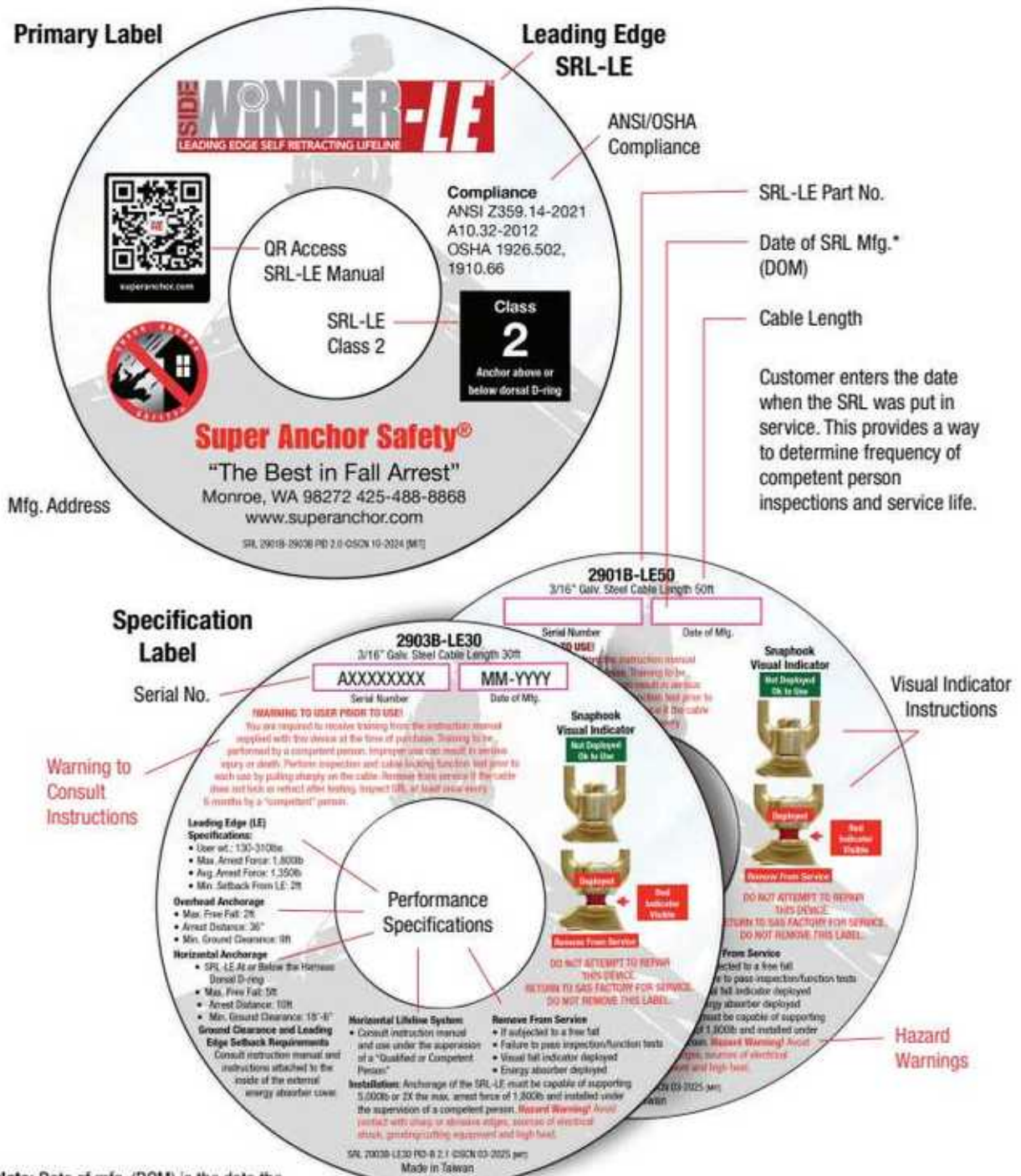
Table 1 Snaphooks/Rebarhooks

Fig.	Test	Function	Pass ☒	Fail ☐
1a/2a	Gate Lock	Pull Gate Only	Won't Open	Opens
1b/2b	Gate Open	Pull Gate and Push Gate Lock	Gate Opens	Won't Open
1c/2c	Gate Close	Release Gate and Gate Lock	Gate Snaps Shut	Won't Close

Table 2 Carabiners

Fig.	Test	Function	Pass ☒	Fail ☐
3a/4a	Gate Lock	Pull Gate Only	Won't Open	Opens
3b/4b	Gate Open	Rotate Twist Lock and Pull	Gate Opens	Won't Open
3c/4c	Gate Close	Release Gate and Twist Lock	Gate Snaps Shut	Won't Close

PID (Product ID) Labels



Note: Date of mfg. (DOM) is the date the SRL was shipped from SAS factory.

Aux. labels include ground clearance chart 2.0, Spanish instructions and inspection reports. SRL-LE casing labels, pg.15, may get damaged during use rendering critical information unreadable. Aux. labels are protected by the E/A cover.



Overhead Anchorage Chart 1.0

Chart 11.0
200 F008 SR - JE
On the Job Safety
Character Only
On the Job
Right to Work - On-Going



SAFETY RISKY SITUATION
WOMEN WORKING
475-1181

Chart 11.0
200 F008 SR - JE
On the Job Safety
Character Only
On the Job
Right to Work - On-Going



SAFETY RISKY SITUATION
WOMEN WORKING
475-1181

Chart 11.0
200 F008 SR - JE
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SAFETY RISKY SITUATION
WOMEN WORKING
475-1181

Chart 11.0
200 F008 SR - JE
On the Job Safety
Character Only
On the Job
Right to Work - On-Going



SAFETY RISKY SITUATION
WOMEN WORKING
475-1181

Below Dorsal D-ring Anchorage
Chart 2.0 Chart 3.0

Chart 2.0
30V/50A/1
SRL 1E



Below Normal
D-ring
Clearance
Use Tool
Overhead
Architects

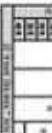
Chart 2.0
30V/50A/1
SRL 1E



Below Normal
D-ring
Clearance
Use Tool
Overhead
Architects

Chart 3.0

Chert 3.0
50T SRI-LE
 Do Not Use
 For 20T
 SRI-LE



Belley Dornal
Drying
Clearance
 10' Not
 Use For
 Overhead
 Anchorage



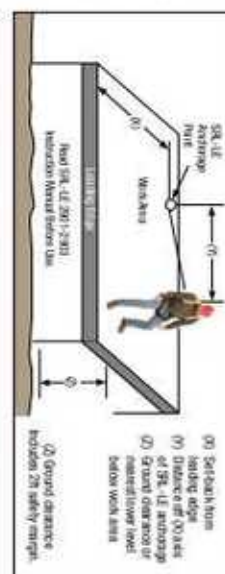
Chert 3.0
50T SRI-LE
 Do Not Use
 For 20T
 SRI-LE



Chert 3.0
50T SRI-LE
 Do Not Use
 For 20T
 SRI-LE



X/Y/Z Example



Warnings

Hazards

The image shows three safety labels. The top label is yellow with black text: "¡HAZARDS!" followed by "DO NOT allow cables to come in contact or wrap around objects or otherwise surfaces, equipment, tools or electrical sources." The middle label is yellow with black text: "¡PELIGROS!" followed by "NO permitir que el cable tenga contacto o se enrosque alrededor de superficies (utiles o estructuras), herramientas del equipo o fuentes de electricidad." The bottom label is black with white text: "Compliance: ANSI Z359-14-21". Below this is a large black box with white text: "Class 2". Underneath that is the text "Anchor above or below dorsal D-ring". At the bottom are four white rectangular boxes with black borders, each preceded by a label: "Date Mfg:", "Serial No.", "Date of Ret. Use:", and an empty box with a diagonal line through it.

Specifications

Overhead Anchorage

- Max. Free Fall: 2ft.
- Arrest Distance: 36"
- Min. Ground Clearance: 9ft

Horizontal Anchorage

- SRL LE at yr. Below the Harness
- Dorsal D-ring
- Max. Free Fall: 2ft.
- Full Arrest Distance: 10ft
- Min. Ground Clearance: 18"-6"

Loading Edge (S.E.) Specifications:

- User wt.: 130-310 lbs
- Max. Arrest Force: 1,800lb
- Avg. Arrest Force: 1,350lb
- Min. Setback From LE: 2ft

Compare with the normal:
ANSI Z359.14-21 Class 2 SRL-LE

Anchaje Aéreo

- Caida Libre Máx.: 2ft.
- Distancia de Detención: 36"
- Distancia Mín. al suelo: 9ft

Anchaje Horizontal

- Cuando uso retráctil LE ubicada sobre o debajo del arnés D dorsal del arnés.
- Caida Libre Máx.: 2ft.
- Distancia de Detención de Caida: 10ft.
- Distancia Mín. al suelo: 18"-6"

Especificaciones para el Frente de Trabajo (L.E.):

- Peso del Usuario: 130-310lbs
- Fuerza Máx. de Detención: 1,800lb
- Fuerza Promediada de Detención: 1,350lb
- Distancia Mín. al L.E.: 2ft

Visual indicator inspection

[illegible]Competent Person
Inspection Record[illegible]

Factory Service Record*
*Completed at SAS when SRL is
returned for service or repair.

Owner Information

Inspection Form A-1.0

This form to be completed by a Competent Person. It is recommended to include SRL-LE inspections as part of the owners safety program. For units that do not pass inspections, tag DO NOT USE, and take the following corrective action:



Corrective Action

☐ Returned to SAS factory for service.

Mark **RFS** box on this form.

- Complete RFS form C*.
- Required to be shipped in the original box.
- Factory service form E authorizing service will be sent by SAS for owners approval.

☐ SRL was tagged UNUSABLE by the person inspecting the SRL, an authorized person, or safety program administrator, and disposed of in a way that will prevent further use.

Date SRL was sent to
SAS factory for service: _____

Model: 2903B-LE30 ☐ 2901B-LE50 ☐ Enter Model not Listed: _____						
Serial No. _____		SAS Date of Mfg. _____		Date of First Use: _____		Returned to Service Date: _____
Owner Company: _____						
Inspection By/ Agency: _____					Date: _____	
Where Performed: _____					Certificate No.: _____	
Inspection Point	Part Name	Page A	Notes	Pass ☒	Fail ☐	RFS ☐
▲	Locking Test	10				
①	Auto-Lock Carabiner	14				
②	Swivel Connector	10-11-12				
③	Casing	11-12				
④	Casing Screws					
⑤	Cable Guide					
⑥	Cable Grip					
⑦	Cable	10-12				
⑦	Cable Termination					
⑧	E/A Wear Pads	13				
⑨	Energy Absorber					
⑩	Visual Indicator	10-11				
⑪	Snaphook	14				
⑫	PID Labels	11-15				
⑬	Aux. Labels	13-16				

WARNING! Do not disassemble or attempt to repair an SRL. The internal recoil spring can unwind when the casing is opened resulting in serious injury or death.

Return SRL in the original shipping box with proof of purchase.

Serial No. _____



Form C Example



Ship To: **Super Anchor Safety**
Attn: SRL Repair Service
17731-147th St SE
Monroe, WA 98272

Note: *Form C is included in this manual see pg A-26. A PDF/Live version is available on SAS website www.superanchor.com

SRL-LE Remove From Service/Return to SAS Factory for Service

SRL-LE'S removed from service and disposed of by the owner, ANSI Z359.14-21 requires it to be tagged "UNUSABLE" and disposed of in a way that will prevent further use. Unusable units can be returned to SAS for disposal by contacting the service dept.

Primary PID Label

Specification Label

2903B-LE30
3118" Cable Steel Cable Length 30ft

Aux. Labels

2901B-LE50 2903B-LE30

SAS supplied UNUSABLE tags order on request.

Form C: SRL-RFSA Return For Service Authorization Terms and Conditions, Version 2024

Customer: _____ Date of SRL: (Required) _____

Information: (Check all that apply)

Customer Name	Required units will be returned to customer mailing address ☐ Yes ☐ No
Mailing Address	
City	
State	
Zip Code	

Instructions:

SAS factory service will perform a free inspection and estimate of the work required costs. The customer will be responsible for shipping costs to and from the factory. Units returned without a completed authorization form will be held in warehouse until further notice.

Service/Repair Terms/Warnings:

SAS will not repair or replace any unit that is damaged by misuse or abuse. Units returned without a completed authorization form will be held in warehouse until further notice.

Service/Repair Terms/Warnings:

SAS will not repair or replace any unit that is damaged by misuse or abuse. Units returned without a completed authorization form will be held in warehouse until further notice.

Complete the Following Information:

Unit No. (1)	Unit No. (2)	Unit No. (3)	Unit No. (4)	Unit No. (5)
1				
2				
3				
4				
5				
6				
7				
8				

Factory Service Instructions

- Complete form C, e-mail to SAS.
- Enter SRL ID information from: Casing PID specification label or Aux. labels.
- Ship to SAS factory in original box with a copy of form C.

ANSI Z359.14-21 warning label included with manual in shipping box.

UNUSABLE REMOVE SRL FROM SERVICE

By: _____ Date: _____

☐ Removed from service and disposed of in a way that will prevent further use.

☐ Return for Service To: Super Anchor Safety, 17731-147th St SE, Monroe, WA 98272

Aux. Labels

2901B-LE50 2903B-LE30

WARNING TO USER!

Anchor above or below dorsal D-ring

Date Mfg: _____

Serial No: _____

Date of First Use: _____

Box Label Part No's.

Super Anchor Safety

No. 2903B-LE30
30ft Cable Length

Super Anchor Safety

No. 2901B-LE50
50ft Cable Length



SRL-LE Factory Box

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.

A circular red sign with a white border. Inside the circle, there is a black silhouette of a person smoking a cigarette. A large red diagonal line crosses out the entire circle, indicating that smoking is prohibited.[illegible]

Storage/Maintenance

SRL's are not waterproof and the internal braking system is subject to oxidation if moisture is allowed to accumulate inside the casing. The galvanized cable and connectors will oxidize when exposed to caustic chemicals and salt air environments, especially ocean islands and shorelines. Always store in a dry area hung from the swivel connector or carabiner to allow any moisture to drain.

Following these instructions will extend the service life:

- Never store outdoors, especially in areas exposed to high UV.
- If used in salt air environments, rinse the cable and connectors with fresh water once a week. Deploy cable 100%, rinse and dry.
- If exposed to moisture (rain, snow, high humidity) store in a dry area, preferably heated and not exposed to freezing temperatures.
- Units that have been exposed to moisture all day long, or left outdoors, should be stored in a heated area and allowed to dry.
- Remove from service and store each day the SRL is used.
Do not leave outdoors exposed to moisture, UV or salt air.
- Do not store in vehicles exposed to open air, such as pick up trucks w/canopy, truck back racks or under carriage storage boxes or metal storage boxes that are prone to condensation.
- Do not store in containers that will accumulate moisture.
- Keep away from high heat.
- Keep away from chemicals and acids that oxidize metal.
- Never store materials on top of the SRL casing.
- Never use a SRL for towing or suspended work.

Note: Storage means non-use and not transport.

Warnings!

- Accelerated oxidation from salt air, vog, gypsum dust sulfur, cleaning chemicals and acids.
- SRL's stored for long periods should have a competent person inspection prior to use.
- Do not apply lubricants to the SRL cable, internal casing or connectors.
- Do not clean the cable with chemicals or detergents.
- Do not blow heat into the casing for drying purposes.
- Do not introduce pressured air or water into the casing.
- Do not leave the cable deployed by clamping.
- Do not store flat.

Bucket Storage*

A primary cause of cable and internal brake system oxidation occurs from storing a SRL in a bucket that's allowed to accumulate water or snow.

Ok for transport but not for storage.

Vehicle Transport*

Wet roadways where salt or chemicals are used to remove snow and ice, expose SRL's to a higher degree of oxidation during transport if not protected from thawed moisture. To prevent this type of exposure, store in a sealed container or inside the vehicle during transport.

**Note: These recommendations are based on storage and transport exposures of SRL's that have been returned to our factory for service.*

Hang From
SRL Casing
Swivel Connector



Hazards/Non-Specified Use/Rescue

Rescue

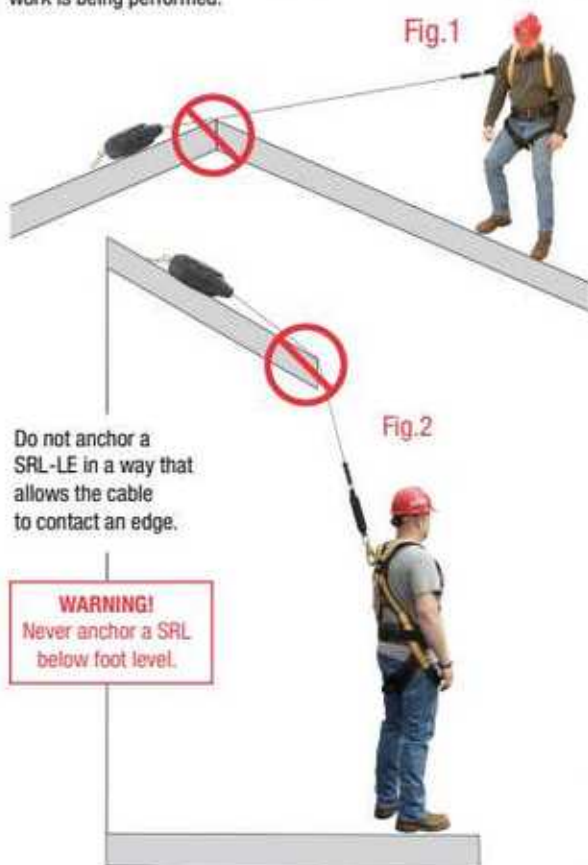
OSHA 1910.140(c)(21)/1926.502(d)(20), requires employers to provide a rescue program, prompt rescue for workers who fall and self rescue training.

Recommended Rescue Plan: (See OSHA Website)

- A procedure for safely retrieving a fallen worker.
- Methods for assisted rescue.
Examples: Bucket or scissor lift, ladder, SRL retrievable.
- Self rescue training requires to suspend a worker and confirm they are able to deploy the equipment successfully.

Cable Wear/Damage

Do not allow the SRL-LE cable to contact a sharp or abrasive edge. To prevent cable damage as shown at Fig.1, anchor the SRL-LE only on the side where work is being performed.



Work Surface Opening

Do not anchor a SRL-LE on the opposite side of an opening or cross the cable over an open stairwell, skylight or access hole.



Suspension Trauma

Self rescue involves deployment of a suspension system that temporarily relieves suspension trauma until the worker can be evacuated to safety.



No.6059 Trauma Suspension Strap Requires 2

Suspension ladder or trauma strap, attaches to the harness shoulder or leg strap webbing. Position feet and relieve pressure by lifting body weight with legs.

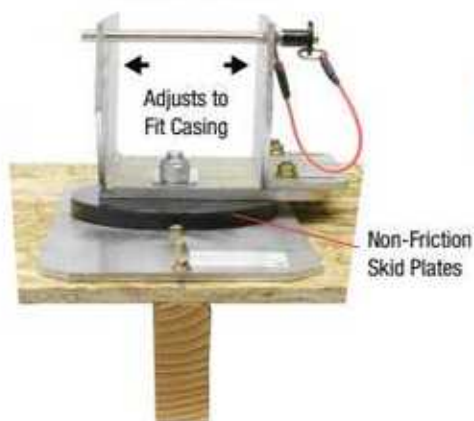


No.1215-CH is a SRL holder and anchorage device fitted with ABS skid plates for 360° non-friction rotation. Holders reduce wear on the SRL casing, cable, cable guide and PID labels by eliminating surface abrasion caused by direct mounting onto construction materials such as asphalt roofing and roof sheathing. Ideal for metal panel roofing that is easily damaged by direct contact with SRL casings. Adjusts to fit most SRL's. Contact SAS sales for unit pricing.

8 Position Adjustable
Holder w/SST Detent
Locking Pin



Wood Top Chord Installs
w/5 WS Screws

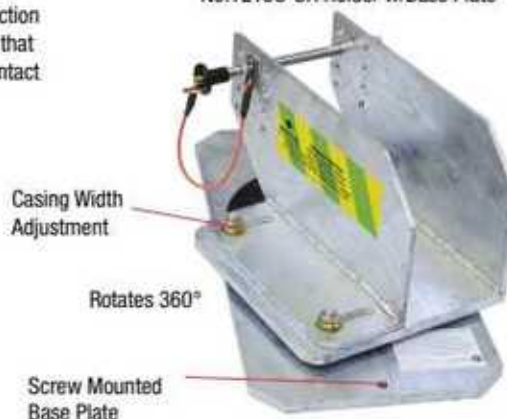


Standing Seam Metal Roofing



SRL Holder

No.1215C-UH Holder w/Base Plate



Sloped Surfaces



Flat Surfaces



SAS Anchorage for SRL-LE's

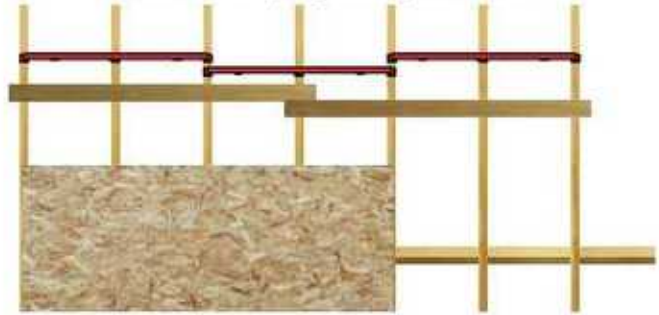
Anchors on pages A-23/24/25, are specified for use with SRL-LE's. Consult **SAS** commercial anchor catalog for additional anchor types. Contact **SAS** sales for unit pricing. Website: www.superanchor.com



Top Chord Safety Bars™
No.1010/1011/1012



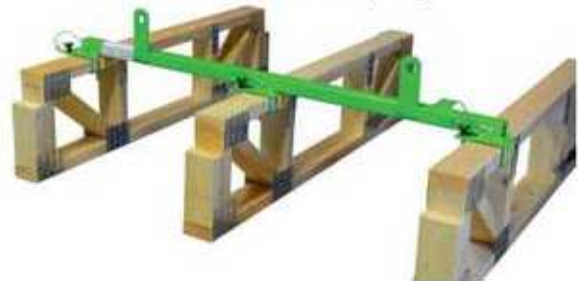
Perfect 24" o.c. spacing. Use single or in series.



Web Joist Safety Bars™
No.1017A/1017B/1017C



Perfect 12"/16"/24" o.c. spacing.



Truss Bars™
No.2833-DP/2833



Perfect 24" spacing.



Hinge-2™
No.3013-D



WARNING !

The following types of anchors will deform when subjected to a service load or when tension is applied during use and are not recommended for SRL/SRL-LE anchorage.

Formit, Apex, ARS, D-Minus, Retro-Fit and RS series anchors. Check with anchor instruction manuals for specified use.

Wood Top Chord



Attaches
w/duplex
nails or
WS screws.

Metal Decking



Attaches
w/Blazer
metal
screws.

SAS Anchorage for SRL-LE's

Tie-off straps are ideal for overhead and below dorsal D-ring anchorage. Cinch type are best for overhead anchorage.

Contact SAS sales for unit pricing.

Website: www.superanchor.com



Value™ Tie-Off Straps

D-ring + Loop End + Sleeve

Part No.	Length
6055-D	36"
6056-D	48"
6057-D	60"
6058-D	72"



Cinch Type w/Sleeve
Recommended for attachment to steel.



Cinch Type

Value™ Tie-Off Straps

D-ring + Loop End

Part No.	Length
6050-D	36"
6051-D	48"
6052-D	60"
6053-D	72"



Cinch Type



Ideal for temporary use
on sheathed framing.
Evacuate by cutting off.

Tie-Off Strap

Heavy Duty

D-ring + Loop End

Part No.	Length
3005-C	48"



Cinch Type

SAS Anchorage for SRL-LE's

Permanent and temporary anchors for wood and steel structures. Overhead or below dorsal D-ring installation.

Contact SAS sales for unit pricing.

Website: www.superanchor.com

**Swivel D™ No.1028****D-ShakL™ No.1029****WS TrussBar™ No.2835**

Attic wood top chord installation.
Adjusts 12"/16" and 24" o.c. spacing.

**Flex™ No.2100**

Must be installed with WS screws
for use with SRL's. Ridge mounted
allows the SRL to be used on
both sides of the ridge.

Overhead or below dorsal D-ring
Bolt Attached

Concrete Expansion Bolt

Overhead or below dorsal D-ring.
Bolt Attached**D-Plate™ No.1037**

Overhead or below dorsal D-ring.

Bolt attach to structural steel
or concrete expansion bolt.





SRL-RFSA Return For Service Authorization

Terms and Conditions. Version 2024



Customer Date of SRL/s Returned: _____

Information: Contact person: _____

Customer/ Agent Name:	Repaired units will be returned to customer mailing address: ☐ Yes ☐ No
Mailing Address:	Contact Phone:
City:	Contact Person:
State Province:	E-mail:
Zip Code:	Fax:

Instructions:

SAS factory service will perform a free inspection and estimate of the service/repair costs. The customer will be required to authorize repairs or decline repairs by signing and returning service **Form E**. Repair/Service authorizations require a customer purchase order specifying billing and return shipping address. Customer pays shipping of SRL's to SAS Monroe, WA 98272 factory. Units returned without a completed authorization form will be held in quarantine until **Form C** is received.

Service/Repair Terms/Warranty

SAS will e-mail Form E to customer by e-mail. SRL's declined by customer for repair will not be returned. SAS factory will dispose of units at no charge. SAS warrants all new and repaired units for 6 months from the date of purchase or when last service was performed.

Warranty Exclusions

- Visual indicator deployed
- Missing labels
- Casing/Handle damage
- Cable damage
- Recoil spring broken
- External energy absorber deployed

Inspection Service Charge:

125.00 per unit. Return shipping to customer by UPS standard ground is included or VIA customer pick up at **SAS** factory.

Includes the Following:

- Inspection wo/repairs.
- SAS factory inspection form.
- Replacement PID labels.
- External and internal cleaning.

Complete the Following Information:

Customer Requests the Following

- ☐ Factory Inspection and Repair estimate.
☐ Warranty = Requires original purchase or service invoice.

Unit No. (1)	Lot Mfg Date (2)	SRL Model (3)	▲ Serial No. (SN) (4)
1			
2			
3			
4			
5			
6			
7			
8			

▲ The SRL (SN) is required to perform service or repair along with a copy of the original invoice. If the PID (SN) is not readable or the PID label is missing enter the (SN) from the original sales invoice, or a copy of a SAS factory service or repair, Form E, with SRL (SN).

Payment for Service:

Payment by credit card or customer SAS credit account is required prior to return of repaired units.

SAS Factory Ship to Address

Super Anchor Safety
17731-147th St SE
Monroe, WA 98272 USA

Contact Information

Send all completed forms to:
SAS Service Dept. Attn: Enrique Covelli
e-mail to: enrique@superanchor.com
Ph: 425-488-8868 Fax: 360-668-1717

Access PDF and live version forms VIA the QR code below or copy from this manual

SRL Checkout Log A-1.1

[illegible]

SRL-LE Class 2 Instruction Manual

or.com

Super Anchor Safety
FALL PROTECTION EQUIPMENT

SRI-OLE Instruction/Specification Manual 2025

WINDER-LE Toss-R-LE

No. 20010-1250
SRI-OLE

No. 20011-010
Toss-R-LE

Page 2
Safety Manual for Super Anchor Safety

Leading Edge Self-Rescuing Ladder

SAS Accessory Parts

Contact SAS sales team for ordering information.

shelley@superanchor.com

nicole@superanchor.com

todd@superanchor.com

jay@superanchor.com

cassie@superanchor.com



Auto-Lock Carabiners

No.5001-Z

Zinc plated steel



No.5006-Z

Anodized Aluminum



Retail Package



Twin SLR Bracket

No.2996



Cargo Bags

No.6420 Large



No.6420U Large Ultra-Viz™



**Remove From
Service Labels**
No.2997 10 pack



Spiral Bound SRL-BLE Manual



SAS Key Fobs/Ink Pens



No charge on request

Super Anchor Safety

17731-147th St SE Monroe, WA 98272 1-855-301-4575 www.superanchor.com

SRL-LE Twin No.2991-LE10

Instruction/Specification Manual

SRL Specifications

Leading Edge/Overhead Use:

Max. User wt.: 130-310lbs including tools and equipment.

Cable: 3/16" x 10ft length galvanized steel.

Avg. Arrest Force: 1,350lbs

Max. Arrest Force: 1,800lbs

Max. Deceleration Distance: 30"

Min. Setback From Leading Edge: 1ft

Non-Serviceable SRL-LE: Do not return to SAS factory for repair.

Weight: 11lb

PPE/Anchorage Points

PPE: Users are required to wear a full body harness that is compliant with current OSHA 1926.502 fall protection standards. Attach SRL to dorsal D-ring only.

Compliance: ANSI Z359.14-21
Rebarhooks: Z359.12-2019

Leading Edge Use

Max. Free Fall: 5ft

Min. Fall Clearance: 16'-6"

Arrest Distance: 8'-6"

Overhead Use

Max. Free Fall: 2ft

Min. Fall Clearance: 6.5ft

SRL Anchorage: Attach SRL rebarhook/s to an anchorage that is capable of supporting 5,000lb or 2X the intended fall protection load. Min. anchorage strength 3,600lb for an engineered fall protection system.

Toss'R-LE™



Service Life and Inspection Requirements

Annual/6 Month: Competent or Qualified person.

Prior to Each Use: Competent person or end users trained to perform inspections by a competent person.

Service Exposure	Approx. Service Life	Min. 1 Year	Min. 6 Months	Before Each Use
Indoor/Light	3-5 years	X	N/A	X
Indoor/Heavy	2 years +			
Outdoor/Heavy	1-2 years		X	
Salt Air Exposure	1 year			

Note: Exposure to salt air, water saturation, gypsum and dust reduces the SRL's service life.

PID Product ID Specification Label



Aux. PID Labels
See Pg. B-38

Anchor Above or below dorsal D-ring

Date Mfg.

Serial No.

Date of First Use

SAS Factory Entered
Mfg. Date
Serial No.

Owner Entered
Date of First Use

Instructions Prior to First Use

- Record the date of first use on the Aux. label.
- Create a service record on form B-2.0. Enter SRL part no., serial no., date of mfg. and date of first use.

Required Inspections

Prior to Each Use:

Pg. B-32 and inspection references.

Competent Person:

Pgs. B-33/34/35/36/37

Inspection Form B-2.0 Pg. B-39

Model: 2991-LE10 ☐ Enter Model not Listed:	Res Date:
Serial No.	SAS Date of Mfg.
Owner Company:	Date of First Use:
Inspection By/ Agency:	Date:
Where Performed:	Certif No.:

Note: Date of mfg. (DOM) is the date the SRL was shipped from SAS factory.

Overhead Anchorage

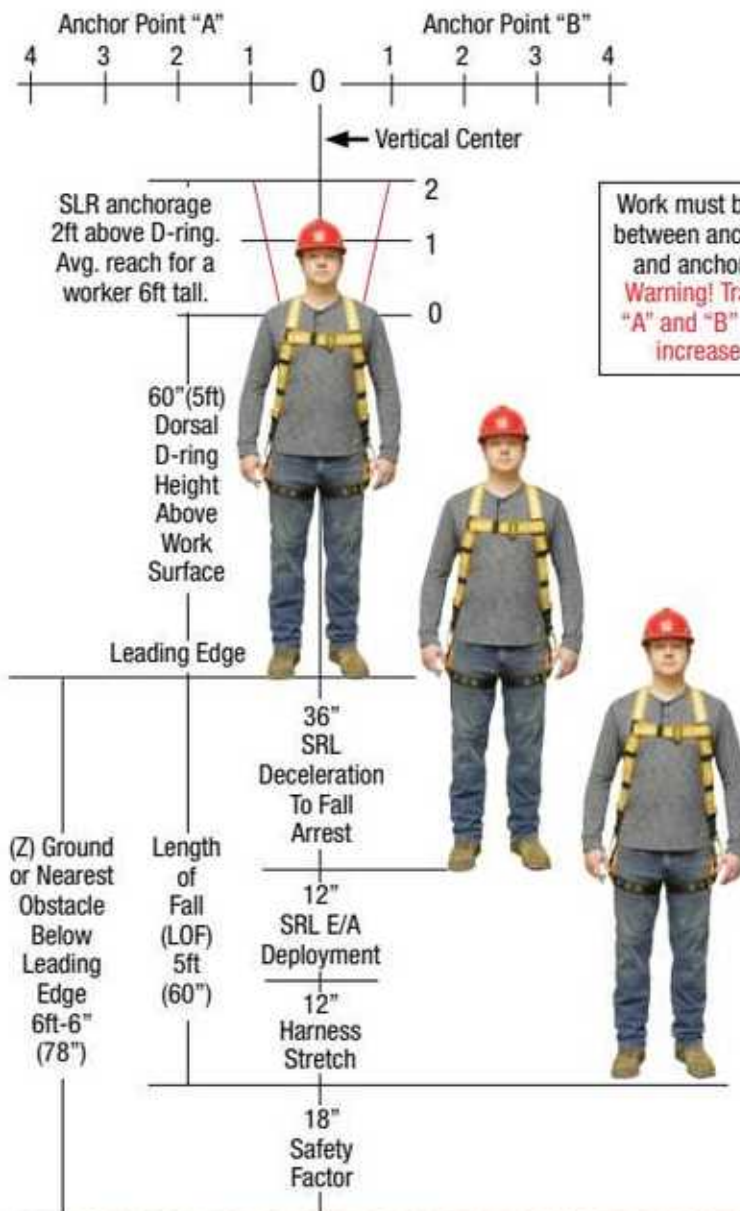
Class 2 Twin SLR's are specified for anchorage attachment above, at or below a full body harness dorsal D-ring. Overhead attachment requires anchorage at or above the dorsal D-ring and requires to use Overhead Chart 1.0. Attachment below the dorsal D-ring requires to use chart 2.0. The SRL cable length determines the distance a worker can move to the left or right off vertical center. For that reason overhead anchorage requires the worker to remain within the spacing of the anchorage points in order to reduce the length of fall (LOF) as shown at example 2.0. Travel outside the spacing distance will increase the LOF.

Twin SRL-LE10 Overhead Anchorage Example 1.0

Max. (Y) Spacing Between Anchors 8ft

Setback From Leading Edge 0ft

Dimensions shown in ft.



Work must be performed between anchor point "A" and anchor point "B".
Warning! Travel outside "A" and "B" spacing will increase the LOF.

Energy Absorber Back Pack



Aux. Label

2991-LE10 Chart 1.0 01-2025 (OSCN 3MT)

Consult Instruction Manual for Complete Details

(Z) Min. Ground Clearance w/18" Safety Factor	Anchor Point Above Dorsal D-Ring					(Y) Distance Between "A"/"B" Anchors
	0ft	1ft	2ft	4ft	6ft	
2	6ft-6"					No Work Zone
1	Warning! Do Not Use for Below Dorsal D-Ring Anchorage					

Max. 8ft Min. 2ft

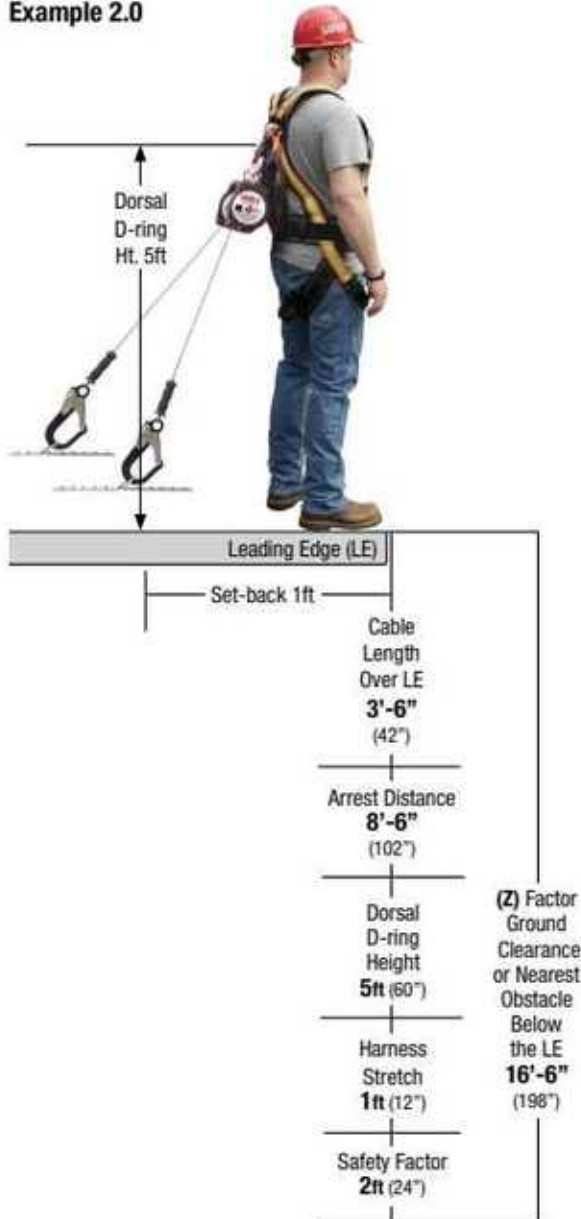
2991-LE10 Chart 1.0 Overhead Anchor Spacing

Dorsal D-Ring Height Above 5ft

Safety Factor Safety Manual WA 98272 425-425-8808

Below Dorsal D-ring Anchorage

Example 2.0



Class 2 SRL-LE's are required when anchored at or below the dorsal D-ring which results in a free fall length that is = to the workers dorsal D-ring height above the work zone surface, typically 5ft. SRL-LE 3/16" d. cable's are designed to withstand falls over sharp edges, such as metal decking, structural steel and concrete.

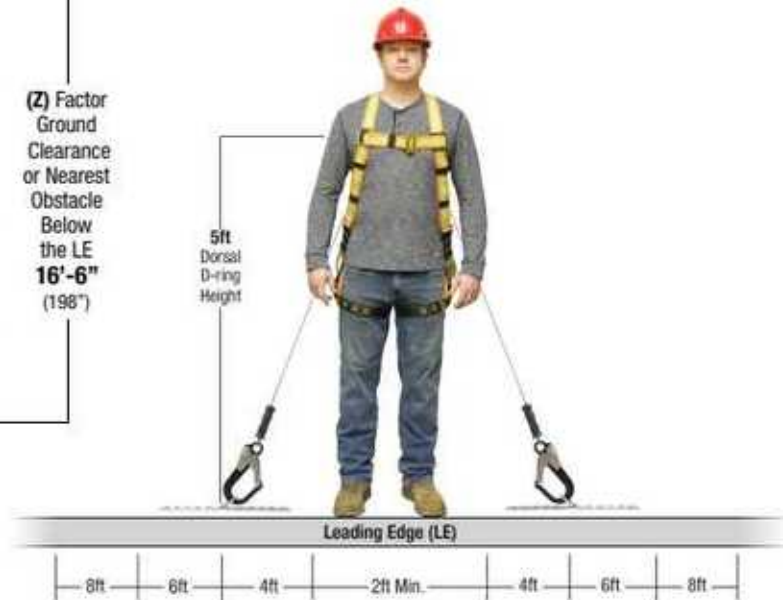
Example 2.0, a worker is exposed to a straight vertical fall over the LE. This is typical for twin SLR applications that reduce swing falls to a minimum when both cables are attached to separate anchor points evenly spaced apart as shown at Example 2.1

(X) Travel away from the LE, reduces the length of fall (LOF) when the setback is 6ft or more from the LE. 10ft length cables restrict travel when setbacks are greater than 8ft or 9ft from the LE. For that reason there is little difference in the LOF when setbacks are at 1ft up to 6ft and the dorsal D-ring height is 5ft. above the work zone surface. Using 15'-6" ground clearance for all setbacks simplifies the (Z) factor to one length.

Care must be taken to avoid contact with the ground or next lower level to avoid serious injury or death in the event of a fall. Strictly adhere the groundclearance chart for below the dorsal D-ring anchorage.

Chart 2.0 2991-LE10 Below Dorsal D-ring

(X) Set-back From Leading Edge	Spacing Between Anchors "A"/"B"					
	2ft	4ft	6ft	8ft	10ft	
	1ft	16'-6"				NO WORK ZONE
	2ft					
	3ft					
	4ft					
	5ft					
	6ft					
	7ft					
	8ft					
(Z) Ground Clearance +2ft Safety Margin						



WARNING!

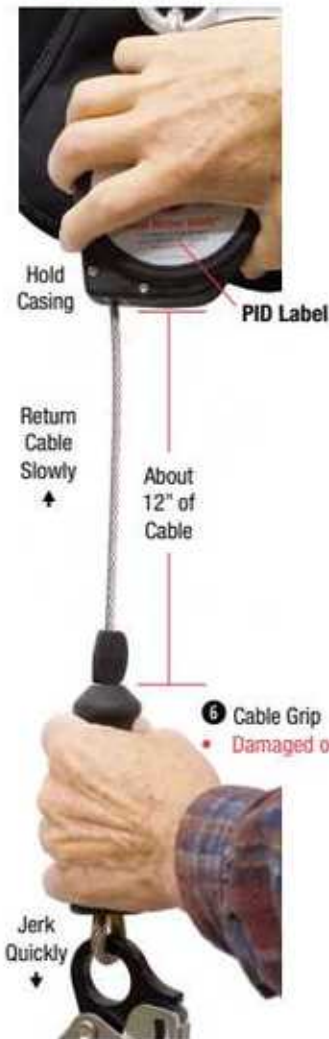
Both SRL cables must be connected to separate anchorage points spaced a min. of 2ft apart as shown on chart 2.0

Note: Single line SRL's are better suited for below dorsal D-ring when a single anchor point is available.

Inspection Guide

Training/Prior to Each Use Inspections: A competent person is required to train users in the operation of the SRL-LE, observing ground clearance chart specifications, how to perform "Prior to Each Use" inspections, demonstrate ability to inspect by example, and what to do if a test fails, or a defect is found during use.

▲ Cable Lock Test



Warning!
During use or when performing locking test, DO NOT release cable. Damage to the recoil spring and internal brake system may occur.

- ❌ **Failure to Pass Tests/Inspections REMOVE FROM SERVICE IMMEDIATELY!**
Return the SRL-LE to your employer or person authorized to maintain safety equipment. Report the reason for test failure.
- ✅ Passes inspection/function tests.

Instructions

Hold casing with one hand and cable grip with the other hand. Slowly deploy about 12" of cable and jerk quickly.

- Cable locks. ✅
- Cable does not lock. * ❌
**Note: The internal brake system may be oxidized due to salt air exposure, or debris inside the casing.*

Cable Retraction Test

Slowly deploy as much cable as you can, at least 2ft. then slowly return cable to casing.

- Cable returns smoothly. ✅
- Cable does not return smoothly. * ❌
**Note: This may indicate the recoil spring is faulty or debris inside the casing.*

7 Cable Inspection



Remove From Service

Required Inspection/Function Tests Prior to Each Use

- Cable Lock Test.
- Visual Indicator. Pg. B-34
- Rebarhook. Pg. B-37
- SRL Bracket. Pg. B-36
- PID labels not readable or missing. Pgs. B-38 ❌

Inspection During Use

Cable should deploy and retract smoothly. During use, inspect cable, if any damage is present. ❌

Cable Lock

Moving too fast will engage the locking function. If locking occurs with normal movement, slow your movement. If locking continues. ❌
Never allow the cable to retract without tension.

Cable Binding

Uneven winding of the cable can result in binding. Deploy a few feet of cable and resume retraction. Failure of cable retraction. ❌

Connector Inspections

Perform inspection/function tests:

Dual Lock SRL Bracket



- Does not pass lock test. ❌
Pg. B-36

Rebarhook



- Does not pass lock test. ❌
Pg. B-37

SRL-LE10 Inspection Guide Section B-2

A competent person is required to perform scheduled SRL-LE inspections once every 6 months or based on the frequency of use and environmental conditions. The person or agency performing inspections may add inspection points not included in this manual. Inspections can be recorded on the SAS inspection form B-2.0.

▲ Cable Lock Test

Pg. B-32 test fails. ☒

☒ Inspection fails remove from service and dispose of in a way that will prevent further use or return to SAS for disposal. Non-serviceable.

☑ Pass inspection. Take corrective action as noted.

1 SRL Bracket:

Pg. B-36 inspection/locking test fails. ☒

Replace bracket. ☑

2 Shackle Swivel Connector:

Pg. B-35

Does not rotate freely. ☒

3 Casing Inspection:

Pg. B-35

Gouges, cuts or cracks. ☒

Casing sides separating. ☒

Tar, caulking, concrete, dirt present, clean the casing. ☑

4 Casing Screws Required:

Pg. B-35

Missing screws. ☒

5 Cable Guide:

Pg. B-35

Deep gouges from cable abrasion. Missing guide. ☒

Remove any debris from guide. ☑

6 Cable Grip:

Pg. B-35

Missing or severely damaged. ☒

7 Cable/Cable Termination:

Pg. B-35

Eye thimble missing. ☒

Cable damaged/missing swages ☒

8 Bracket and E/A Webbing

Pg. B-34

Webbing damaged. ☒

9 Energy Absorber:

Pg. B-34

Tear webbing deployed. ☒

10 Visual Indicator:

Pg. B-34

Indicator label visible. ☒

11 Rebarhook:

Pg. B-37 inspection/locking tests fail. ☒

12 PID Front/Back Casing Labels

Pg. B-38

Any part of the label is missing. ☒

Data not readable. ☒

13 Auxiliary Labels:

Pg. B-38

Labels are missing. ☒

Data not readable. ☒

14 Shackle Yoke

Pg. B-35

Cuts, gouges, cracks. ☒



Inspection
Form B-2.0
Pg. B-39

Energy Absorber Inspection

The TossR-LE twin yoke is attached to a backpack type energy absorber(E/A). The internal white tear webbing will deploy when subjected to a free fall or a force of approx. 450-650lb exposing a visual indicator.

Fig.1

Service Position

The E/A backpack is attached to the harness webbing where it passes thru the D-plate webbing.



Fig.2

Interior Inspection



Warning! Do not remove or disturb the E/A webbing from their elastic keepers during inspection or when accessing aux. PID labels.

Inspection Procedure

E/A inspection to be performed by a competent person. Note that opening the backpack will expose the E/A webbing and it must not be disturbed. Consult referenced inspection pages for additional information.

☒=Remove from service. ☒=Passes Inspection

Warning! Do not salvage parts subjected to a free fall.

- Remove SRL from harness.
- SRL bracket must pass function test. See page B-36
- Rebarhooks must pass function test. See page B-37

Fig.3

E/A Webbing Inspection

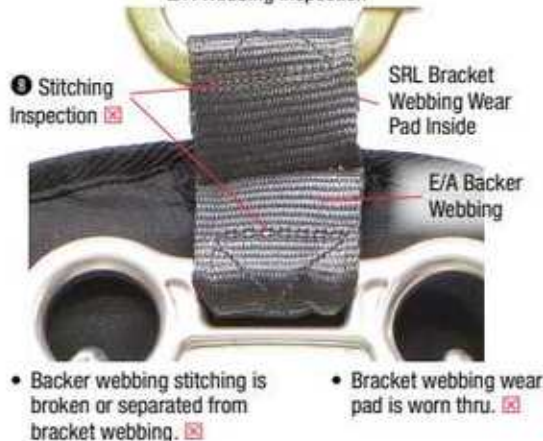
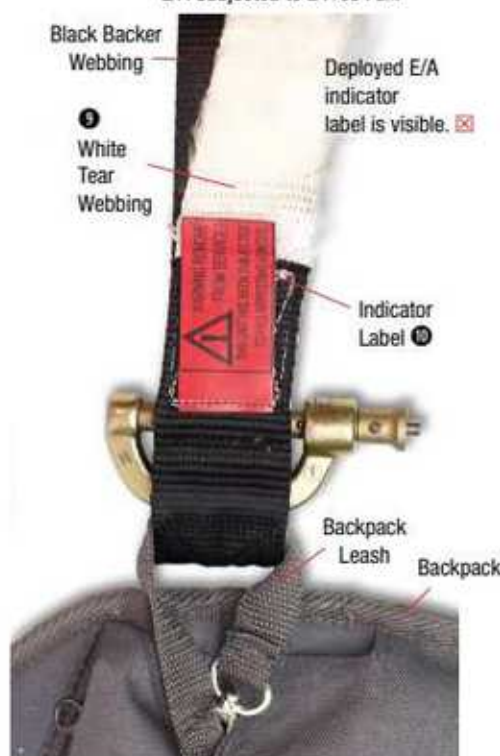


Fig.4

Visual Indicator Label E/A Subjected to a Free Fall.



Casing/Yoke Bracket/Cable Inspection

Cable Guide Inspection:



Casing Screws



Shackle Yoke/Swivel

- Yoke cracks or deep gouges. [X]



Swivel Connector

- Does not rotate freely. [X]
- Rivet pins not intact or loose. [X]

Casing



- Gouges, cuts or cracks. [X]
- Casing sides separating. [X]
- Casing screws missing. [X]

⑦ Cable Inspection.



Remove From Service

Cable/Grips/Eye Thimble

- ① SRL Bracket
see pg. B-36



- ⑦ Cable deployed fully for inspection.

⑤ Cable Grip

- Missing or severely damaged. [X]

⑦ Cable Termination

- Eye thimbles missing or cable damage. [X]

Rebarhooks

- ⑪ See pg. B-37

Cable Deployment

Use a soft surface wood clamp or other means to hold cable position.

Do Not use vise-grips or metal clamps that may damage the cable.

Dual Lock SRL Bracket

Perform lock test prior to use. If lock test fails remove from service and replace.

- 1) Fig.1, pull ball lock grip. Pin won't open pass ☒ Pin opens fail ☐.
- 2) Fig.2,3, depress lock button and pin lock together and pull to unlock. Pin opens pass ☒ Pin won't open fail ☐.

Fig.1 Locked Position



Fig.2



Fig.3 Unlocking SRL Bracket



Fig.4 Unlocked Position



Fig.5 Bracket Locking



Harness Attachment

Harnesses with a D-ring roller Fig.6, or D-plate webbing sewn to the harness frame, Fig.11, may require to rotate the D-ring and roller out from the D-pad webbing, Figs.7,8. Harness with adjustable D-pads, Fig.10, feed webbing thru D-pad slots to provide room for the SRL bracket pin.

Fig.6 Bracket Won't Fit



Fig.7



Rotate D-ring and roller from normal service position.

Fig.8



SRL bracket ready to insert.

Return D-ring and roller to normal service position when SRL is not attached

Fig.9

SRL bracket attached. Must insert under both webbing layers.



Fig.10



Adjustable D-pad.

Insert SRL bracket under both webbing layers.

D-ring normal service position.

Fig.11

Twin SRL attached thru D-pad webbing



Rebarhook Function Tests

Class 1 rebarhook gates are designed to remain closed during use. Two separate functions are required to unlock rebarhook gates. Perform function tests and inspections prior to each use and at least once a year by a competent person.

Gate Locks/Rivets/Deformation

Gates and gate locks are spring loaded and will snap shut when no force is applied. If they fail to close when released, remove from service. All gate rivets must be intact to pass inspection. Inspect both sides of the rivets. Visually inspect the rebarhook hook for perfect alignment with the hook lock.

Oxidation/Rust

Anodized coatings will deteriorate due to UV exposure and abrasion. Zinc plating will rust due to salt air and chemical exposure. Wear of the surface coatings do not require to remove from service, provided inspection and function tests pass and no visible damage is present.

Hook and Gate Lock Alignment



Aluminum Rebarhooks

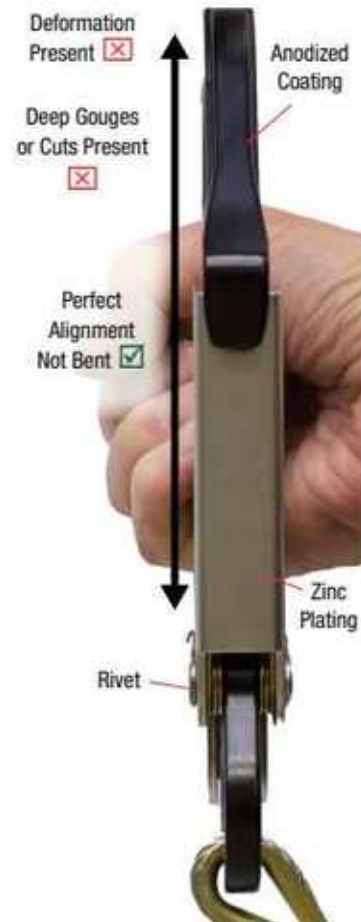


Table 1 Rebarhooks

Fig.	Test	Function	Pass ☒	Fail ☐
1a	Gate Lock	Pull Gate Only	Won't Open	Opens
1b	Gate Unlock	Pull Gate Push Gate Lock	Gate Opens	Won't Open
1c	Gate Lock	Release Gate and Gate Lock	Gate Snaps Shut	Won't Close

Inspection Form B-2.0

This form to be completed by a Competent Person. It is recommended to include SRL-LE inspections as part of the owners safety program.



No.2991-LE10 SRL's are not serviceable. If one or both SRL's fail any test or subjected to a fall, both units must be removed from service and tagged "Unusable". **WARNING! DO NOT use if only one SRL passes inspection.**

- ☐ SRL was tagged UNUSABLE by the person inspecting the SRL, an authorized person, or safety program administrator.
- ☐ RL was returned to SAS for disposal.

Model: 2991-LE10 ☐ Enter Model not Listed:		Removed from Service	
Serial No.	SAS Date of Mfg.	Date of First Use:	Date:
Owner Company:			
Inspection By/ Agency:			Date:
Where Performed:			Certificate No.:

Inspection Point	Part Name	Page B	Notes	Pass ☒	Fail ☐
▲	Locking Test	32			
①	SRL Bracket	36			
②	Shackle Swivel	35			
③	Casing				
④	Casing Screws				
⑤	Cable Guide				
⑥	Cable Grip				
⑦	Cable				
⑦	Cable Termination				
⑧	Bracket Webbing	34			
⑨	Energy Absorber				
⑩	Visual Indicator				
⑪	Rebardhook	37			
⑫	PID Labels	38			
⑬	Aux. Labels				
⑭	Shackle Yoke	35			

WARNING! Do not disassemble or attempt to repair an SRL. The internal recoil spring can unwind when the casing is opened resulting in serious injury or death.

"Unusable" Tag

UNUSABLE
REMOVE SRL FROM SERVICE

By: _____ Date: _____

Use the original shipping box for units returned to SAS for disposal.

Serial No. _____

Consult the following pages for 2991-LE10 additional instructions:

A-21 Hazards
Non-Specified Use/Rescue

Deck Preparation

Flashing Installation

Waterproofing

Insulation

Vapor Barrier

Roofing

Step 1

Step 2

Step 3

Step 4

Step 5

Step 6

Deck Edge

Deck Surface

Flashing

Waterproofing Membrane

Insulation

Vapor Barrier

Roofing

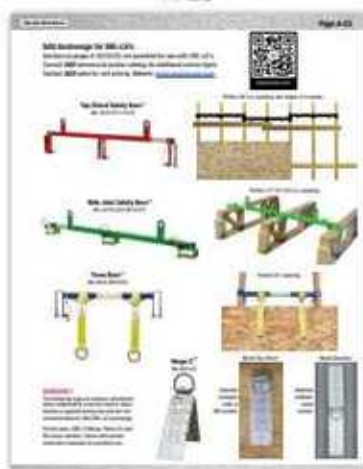
Figure 3-4



A-23

A-24

A-25



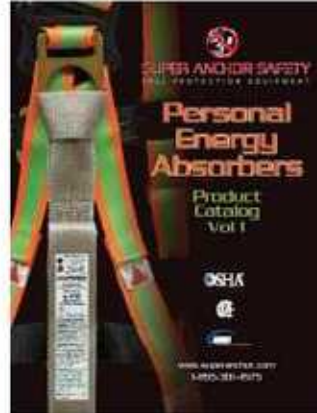
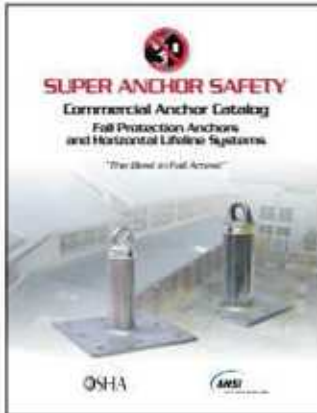
A-28 Accessories



Catalogs and Instruction Manuals

Fall Protection Equipment Catalogs

Check on line for other product catalogs and updates. Request hard copies by e-mail or download from our website: www.superanchor.com.



Harness Instruction Manuals

Request hard copies by e-mail or download from our website: www.superanchor.com.

5pt Harnesses



3 D-Ring Tongue Buckle Harnesses



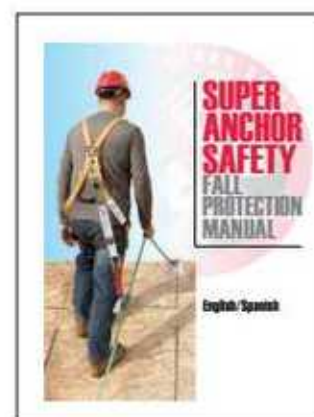
Deluxe Harness



Deluxe Harness Inspection Manual



Check For Updates



Fall Protection Manual



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