

Leading Edge Self-Retracting Lanyard Use Guidelines

This Technical Bulletin affects the following Reliance products:

- 4010020 Skyloc II Leading Edge SRL, 20'
- 4010040 Skyloc II Leading Edge SRL, 40'
- 4010050 Skyloc II Leading Edge SRL, 50'
- 4010065 Skyloc II Leading Edge SRL, 65'

SELF-RETRACTING LANYARDS WITH LEADING EDGE (SRL-LE): The SRD's covered by this technical Bulletin and instructional supplement, are Self-Retracting Lanyards with Leading Edge capabilities. SRL-LE's were tested for horizontal use with falls over a steel edge without burrs. SRL-LE's can be used in applications where a fall may occur over steel edges, such as structural steel shapes or metal sheeting. SRL-LE's shall not be used in applications where the wire rope may come in contact with a rough, or serrated steel edge, nor may they be used in applications where they may come in contact with a concrete edge.

Leading Edge Precautions:

- **Minimum Setback** from edge at which fall can occur from: 5 feet (1.5m)
- **Maximum Allowable Free Fall:** 5 feet (1.5m)
- The anchor point of the SRL must be even with or higher than the edge at which fall can occur from.
- Workplace geometry must be assessed to ensure swing fall and line abrasion limitations and hazards as described in the SRL user instructions are not exceeded.
- SRL-LE's may be used with a Horizontal Lifeline only as instructed in the product instructions for the Horizontal Lifeline.
- In the event of a fall over an edge, special rescue procedures and equipment may be required.
- When planning for use in the Leading Edge application, ensure work area parameters are within the Minimum Setback distance, Maximum Free Fall Distance, and the Minimum Fall Clearance Required when Falling Over an Edge as described in this technical bulletin.

Leading Edge Fall Clearance Calculation: The Minimum Fall Clearance Required when Falling Over an Edge can be calculated based on the Setback Distance and Distance off Axis of the Anchorage. To calculate Fall Distance Clearance use the table in figure 1. See figure 2 for Setback Distance (X), Distance off Axis of the Anchorage (Y) & Clearance Required (Z) orientations.

1. Select the value closest to your Setback Distance (X) in the left side row headings.
2. Select the value closest to your Distance off Axis of the Anchorage (Y) from the top column headings. Areas with no values indicate the Distance off Axis of the Anchorage is outside the safe Work Zone for your selected Setback Distance. Increase Setback distance to increase Distance off Axis of the Anchorage.
3. The Clearance Required when Falling Over an Edge (Z) will be the value listed at the intersection of the row selected in Step 1 and the column selected in Step 2

Repeat the previous steps for every edge that the worker could potentially fall over to determine the safe placement of the anchorage and establish the allowable work zone.

Leading Edge Clearance Chart - Read Instructions for Complete Details

		Distance off Axis of Anchorage (Y)										
		0 Feet	3 Feet	6 Feet	9 Feet	12 Feet	15 Feet	17 Feet	20 Feet	23 Feet		
Set-Back Distance (X)	5 Feet	14.1	14.7	WARNING! DO NOT RIG YOUR DEVICE IN THIS ZONE. MAY RESULT IN SERIOUS INJURY OR DEATH.								
	10 Feet	13.2	13.6								14.7	
	15 Feet	12.9	13.1								14.0	15.2
	20 Feet	12.7	12.9								13.5	14.5
	25 Feet	12.5	12.7	13.2	14.1	15.2	16.6					
	30 Feet	12.5	12.6	13.0	13.8	14.7	16.0	16.9				
	35 Feet	12.4	12.5	12.9	13.5	14.4	15.5	16.3	17.7			
	40 Feet	12.4	12.5	12.8	13.3	14.1	15.1	15.8	17	18.5		

Clearance Required (Z) - Includes 2' Safety Factor

Figure 1

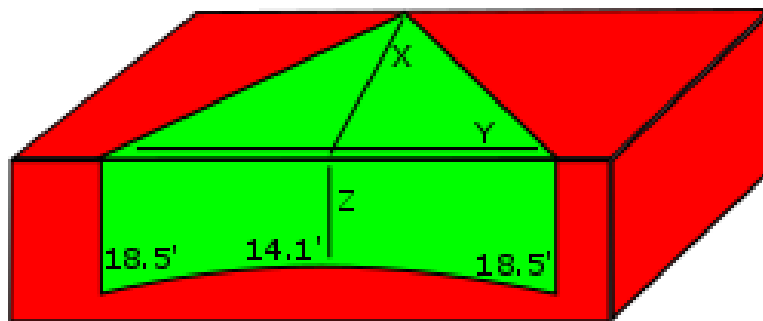


Figure 2

