

New ANSI/ASSP Z359.14-2021 Standard Revision:

Self-Retracting Lifelines

Jobs change. Technology improves. Equipment evolves. All of these developments lead to changes in standards.

Whether you manufacture, distribute, purchase, design, install or use these systems, this new standard probably affects you. Here are some key changes that you need to be aware of. See our [Technical Bulletin](#) or contact customer service for more information.

How will the upcoming changes to ANSI/ASSP Z359.14-2021 affect you and your workers?

New Definitions & Classes

Effective August 01, 2023 – Class A & B devices have been redefined as Class 1 and Class 2.

Class 1

Anchor at or above dorsal D-ring

Class 2

Anchor above or below dorsal D-ring

▶ **Class 1:**

- For use on overhead anchorages AT or ABOVE the dorsal D-ring.
- Subject to a maximum free fall of 2 feet

▶ **Class 2:**

- For use when overhead anchorages are not feasible and anchorages are ABOVE or BELOW the dorsal D-ring
- Subject to a maximum free fall of 6 feet.
- Must be edge rated.

Additionally, Self-Retracting Devices (SRDs) have been designated into updated categories.

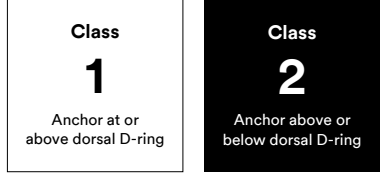
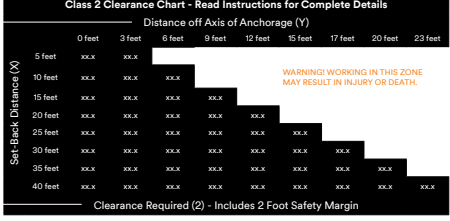
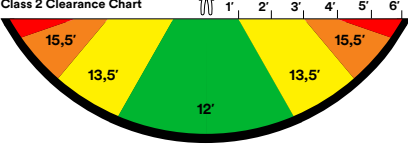
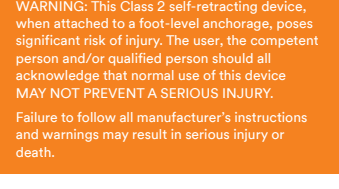
SRL	Self-Retracting Lanyard (or Lifeline)
SRL-P	Self-Retracting Lanyard, personal (New): A single or twin model designed to be worn on the user's full body harness or alternatively mounted to an anchorage
SRL-R	Self-Retracting Lanyard with integral rescue capability: A SRL with integral means for assisted rescue via raising or lowering the rescue subject

Note: the previous designation of SRL-LE is now redesignated as Class 2 SRD

What does this mean to me?
Based on the class of self-retracting device, products manufactured after August 01, 2023 will have clear designation labels with Class 1 or Class 2 indicating the location of the anchor point relative to the dorsal D-ring.





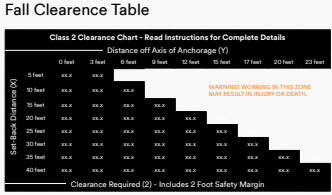

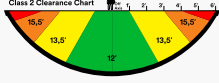
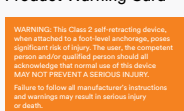
New Product Labeling

This standard revision requires several visual changes to the product labeling including:




Class Designation Icons:	Illustrated Fall Clearance Tables:	Clearance Requirement Labels:	Product Warning Card:
			
Based on the class of SRL, products manufactured after August 01, 2023, will have clear designation labels with Class 1 or Class 2 indicating the location of the anchor point.	Class 2 devices will include labels illustrating a fall clearance table and a diagram of the axis shown in the table. These labels will be on the product near the point of attachment to the body harness.	Class 2 SRDs will include a fall clearance requirement label.	For Class 2 SRDs (Leading Edge SRLs), a new orange warning card must be provided. This card acknowledges that there are risks with leading edge applications and users should follow all manufacturer's instructions and warnings.

- ▶ SRL Devices manufactured prior to August 01, 2023 can remain in service. All devices must meet the manufacturers' inspection requirements and be inspected by a competent person.
- ▶ SRL Devices manufactured prior to August 01, 2023 do not require labeling updates.

What does this mean to me?
There are now visual indicators to help users to more easily select the appropriate fall protection equipment to safely do their jobs. Users of self-retracting devices are now able to reference fall clearance calculations by referencing labeling on the product housing.

Testing and Performance	Classes	Labels and Instructions												
<p>Revised requirements apply to all SRDs where personal Fall Protection equipment is required.</p> <p>This standard's change requires 3M to comply with increased testing procedures and requirements.</p> <p>New testing methods and increased requirements help improve the robustness of our products.</p>	<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;">    </div> <div> <p>Former Class A and Class B devices have been redesignated as Class 1 and Class 2. This change requires labeling on the product to indicate the required anchor point.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="background-color: #f0f0f0;">Class 1</th> <th style="background-color: #f0f0f0;">Class 2</th> </tr> </thead> <tbody> <tr> <td>Anchor Point (to d-Ring)</td> <td>AT or ABOVE</td> <td>ABOVE or BELOW</td> </tr> <tr> <td>Max Free Fall Distance</td> <td>2 ft.</td> <td>6 ft.</td> </tr> <tr> <td>Edge Rated:</td> <td>No</td> <td>Yes</td> </tr> </tbody> </table> <p>Self-Retracting Devices have been designated into categories:</p> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> SRL SRL-P SRL-R </div> <p>The previous SRL-LE classification has been removed and will now be designated as a Class 2 device.</p> </div> </div>		Class 1	Class 2	Anchor Point (to d-Ring)	AT or ABOVE	ABOVE or BELOW	Max Free Fall Distance	2 ft.	6 ft.	Edge Rated:	No	Yes	<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;">  </div> <div> <p>Required visual changes to product labeling to allow users to more easily select the appropriate piece of Fall Protection Equipment.</p> <p>What to look for after August 01, 2023</p> <div style="margin-top: 10px;">  <p style="font-size: 8px;">Class 2 Clearance Chart - Read Instructions for Complete Details</p> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="text-align: center;"> <p>Class designation</p>  </div> <div style="text-align: center;"> <p>Clearance Requirement Label</p>  </div> </div> <div style="margin-top: 5px;"> <p>Product Warning Card</p>  </div> </div> </div>
	Class 1	Class 2												
Anchor Point (to d-Ring)	AT or ABOVE	ABOVE or BELOW												
Max Free Fall Distance	2 ft.	6 ft.												
Edge Rated:	No	Yes												

Key Performance Changes

 <p>Weight</p> <p>Dynamic Performance Test Changes: <i>Test weight increased from 282 lbs. to 310 lbs.</i></p> <p>Average Arresting Force: <i>Increased from 900 lbs. to 1,350 lbs. (ambient) and 1,575 lbs. (in conditions)</i></p>	 <p>Arrest Distance</p> <p>Maximum Arrest Distance: <i>Reduced from 54 in. to 42 in.</i></p> <p>Maximum Free Fall: Class 1: 2 ft. Class 2: 6 ft.</p> <p>Integral Energy Absorber Requirement: <i>Required for Class 2 devices.</i></p>	 <p>Strength & Force</p> <p>Lifeline Webbing Strength Requirement: <i>Increased from 4,500 lbs. to 5,000 lbs.</i></p> <p>Ambient Static Strength Requirements: <i>Increased from 3,000 lbs. to 3,600 lbs.</i></p> <p>Minimum Tensile Breaking Strength: <i>For Class 2 webbing & synthetic rope devices: 5,000 lbs.</i></p>
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What are some considerations for Safety Managers?

- ▶ If you are planning to anchor below the Dorsal D-ring of your full body harnesses, a Class 2 device is now required.
- ▶ Re-evaluate work procedures and SRL use in your applications
 - Review potential clearance differences
 - Review anchorage strength requirements, as the average arresting force increased from 900 lbs. to 1,575 lbs.
 - Leading and sharp edge applications can shift from former SRL-LE to Class 2 rated products

What devices will be required for use in Mobile Elevated Work Platforms (MEWP's)?

- ▶ Based on the design of MEWP platforms, SRDs have to be anchored below D-ring height. Therefore, this application will require a Class 2 rated device for compliance. Additionally, the use of a work restraint system to support the MEWP personal fall arrest system is considered a best practice.

For more information see our [Technical Bulletin](#).