



## **MILLER SELF-RETRACTING LIFELINES**

### **WEIGHT CAPACITY**

Miller Fall Protection has a maximum rating on all self-retracting lifelines as defined by the guidelines set forth in OSHA, ANSI, CSA, and CE standards. The current capacity rating on our self-retracting states 310 lbs. (140 kg). This weight capacity is taken directly from OSHA CFR 1910.66, Appendix C, and 1926.502 subpart M standards and is used as a guideline for testing fall arrest equipment. It should be noted that this weight capacity includes the users weight, clothing, tools, and any other user borne objects that the worker would use.

### **Deviation for 310 pound weight capacity**

OSHA addresses fall arrest equipment requirements for workers in excess of 310 pounds as follows:

“when used by employees having a combined tool and body weight of 310 lbs. (140 kg) or more, personal fall arrest systems which meet the criteria and protocol contained in paragraphs b, c and d in Section 2 may be considered as complying with the provision of the above paragraphs provided that the criteria and protocols are modified appropriately to provide proper protection for such heavy weights.”

In order to comply with this protocol, we have tested our Miller® MightyLite self-retracting lifelines, MiniLites Fall Limiters and 8327/6902 web retractable lanyards to a weight capacity up to 400 lbs. (181 kg). The units will not pass the OSHA requirements unless used with an in-line shock-absorber pack, (Miller SofStop® shock absorber model #928LS). The 928LS SoftStop shock-absorber pack will reduce the fall arrest forces on the worker below 1,800 lbs. force in the onset of a fall. In addition, OSHA also requires that the retractable lifeline not extend more than 66” (24” of lockup and 42” of deceleration). With the use of a 928LS shock-absorber pack, the total maximum fall arrest distance recorded during testing was equal to 64”. Therefore, proper fall clearance should be calculated prior to use in order to be sure that the user does not strike any lower obstructions or working surfaces.

In conclusion, we can condone the use of Miller MightyLites, MiniLites, and 8327/6902 web retractable lifelines with a 928LS inline shock-absorber pack and Miller full body harness for workers up to a maximum of up to 400 lbs. (181 kg). When use of a six foot shock absorbing lanyard is desired, we recommend the use of a Miller model # 940WLS SofStop shock absorbing lanyard in conjunction with a Miller full body harness. The 940WLS SofStop shock absorbing lanyard is designed specifically for workers with weight capacity between 310 lbs and 400 lbs. It is designed to keep fall arrest forces below 1,800 pounds in the onset of a fall. We also recommend that the anchorage connector should carry a rating up to a 400-lbs. working capacity.