



TECHNICAL BULLETIN

TriRex™ Mobile Fall Protection ANSI & OSHA Standards

The TRIREX™, manufactured by Leading Edge Safety LLC, is a dynamic anchor designed to dissipate the energy generated from a fall event into the surrounding substrate and arrest a fall. The TRIREX™ is capable of supporting a Maximum Arresting Force (MAF) of 1,800lbs for up to (3) workers on approved substrates. Therefore, the TRIREX™ is an acceptable component of a complete active fall arrest system and satisfies those requirements specified in: ANSI/ASSE Z359.6-2009 “Specifications and Design Requirements for Active Fall Protection Systems.”

Let it be noted that this mobile fall protection anchorage unit shall only be used as part of a complete active fall protection system. Therefore, the following criteria must be met to satisfy ANSI/ASSE Z359.6-2009:

- Use of full body harness(s) in compliance with Z359.1-2007 “Safety Requirements for Personal Fall Arrest Systems, subsystems, and Components”
- Use of Lanyard(s) In compliance with Z359.13-2009 “Personal Energy Absorbers and Energy Absorbing Lanyards”
- Use of Connection(s) In compliance with Z359.12-2009 “Connecting Components for Personal Fall Arrest Systems”
- Use of Manufacturer’s Recommendations; the TRIREX™ shall not be installed/positioned/utlized in a manner that violates the literature, instructions, technical bulletins or any other documentation produced by Leading Edge Safety LLC.
- Calculations by an authorized user (qualified person) to verify that the substrate, edge distance, free fall distance, and the number of workers attached to cart satisfies those requirements of ANSI Z359.6.
- The use of component(s) used in combination with the TRIREX™ that are not covered by ANSI/ASSE Z359 will not result in an acceptable Active Fall Protection System.

In addition to satisfying Z359.6, the TRIREX™ is also in compliance with OSHA’s “Fall protection systems criteria and practices” (CFR › Title 29 › Subtitle B › Chapter XVII › Part 1926 › Subpart M › Section 1926.502). Section 1926.502(d)(15) requires that an anchor either support 5,000 pounds per employee attached or is used as part of a complete personal fall arrest system. Note that this anchorage unit is never intended to withstand a force of 5,000 lbs per user, but rather to be used as part of a complete personal fall arrest system. Determining if this complete personal fall arrest system can maintain a safety factor of at least (2) will require an authorized user to verify the above criteria.

For additional information on proper set up and use of Mobile Fall Carts, please refer to the instruction manual included with your cart.