

Appendix B - FPE Types and Selection for Use

When selecting new FPE, SRM is available for the following:

- Consultation with the Owner Department to determine proper FPE selection, use, stocking, and safe-work practices unique to the Owner Department's work activities
- Performs and documents annual inspections of FPE
- Maintains campus inventory data base of FPE and inspection records

Harnesses

Vest Harness

A harness is built into the vest to create a no-tangle body wear system.

The leg straps of the Vest Harness zip into the back of the harness for easy storage when not in use.

Used the same as any other fall protection harness, but offers pockets and can be visibility vests for use on construction sites.



Retrieval harness

This harness has spring loaded "stand-up" dorsal retrieval D-rings for quick rescue in the event of a fall or retraction (retrieval) from a confined space

Can be used as a fall arrest harness in man-holes and other confined spaces.



Welding Harness

Edge Flame Resistant Harness is designed with welding applications in mind and features a replaceable outer shell to prolong the life of the harness by shielding the webbing from high intensity ultraviolet light, slag, and sparks produced by welding. Used as a fall protection harness on steel structures such as bridges where the person wearing the harness is welding.



Tower Harness

Tower Harness for climbing, work positioning, and suspension has an extra comfortable saddle and a body belt for positioning.

Typically used on broadcast towers and theater/concert production in instances where lifelines and positioning/restraint systems are used.



Body Belt

Body belts can only be used for fall restraint or positioning systems, not for fall arrest.

Body belts (single or double D-ring) are designed to restrain a person in a hazardous work location and to reduce their inadvertent access to a fall hazard.



Lineman Harness

The extra wide cradle seat adds comfort to the lineman harness and includes four attached side positioning D-rings and a permanently attached tool belt.

These are mostly used for work from poles or in trees.



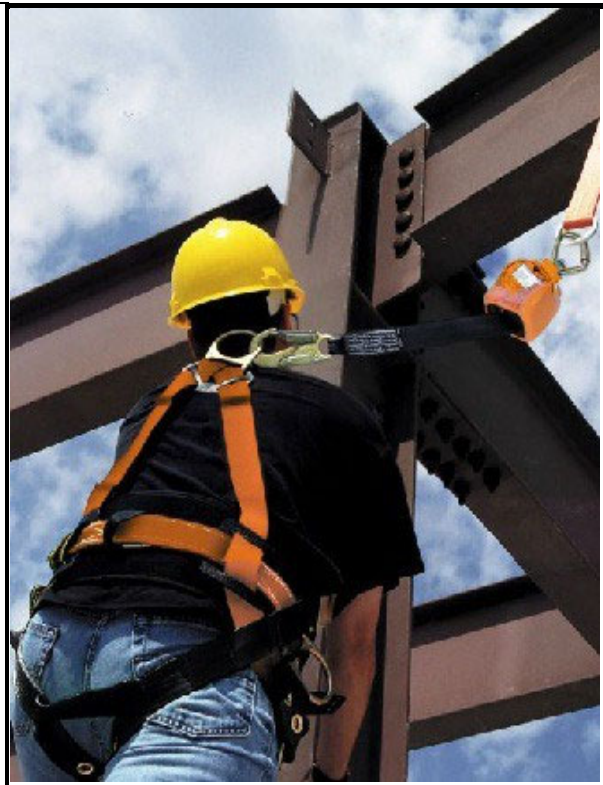
Connectors

Fall limiter

A short version of a self-retracting lanyard. The one shown here is attached to an elbow strap around the beam.

These are used in lieu of shock absorbing lanyards. They are designed to lock quicker (within two inches) than self-retracting lanyards.

<http://www.youtube.com/watch?v=c-IPMQ4YZEA>



Rope Grab Lanyard

A deceleration device which travels on a lifeline used to safely ascend or descend ladders or sloped surfaces and automatically, by friction, engage the lifeline and lock so as to arrest the fall of an employee.

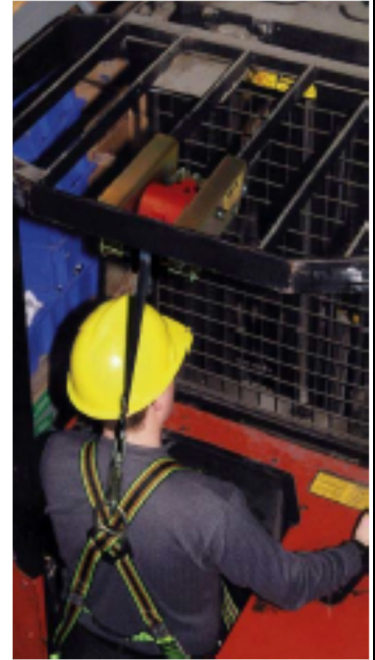
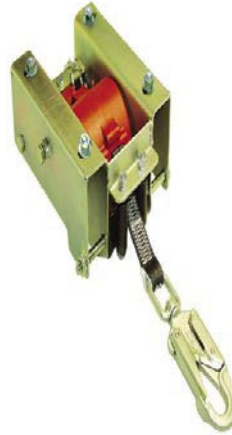
These are used for fixed ladders.



Cab Mount Lanyard

Designed to secure an operator into a cab of a forklift as shown in the picture.

It is a version of a fall-limiter. They are designed to lock quicker (within two inches) than self-retracting lanyards



Self-Retracting Lanyard

A Retractable Lifeline System that gives fall protection and mobility to the user when working at height or in areas where there is a danger of falling.



Positioning Lanyard

These clip to both sides of waist D rings so the center clip can attach to ladder rungs or rebar. A person can be positioned so they can work with both hands free while secured to a vertical surface.

These are used for tying rebar or working off towers and allow hands free work.



Double legged Shock Absorbing Lanyard

Are attached to a dorsal D ring and used to alternate attachment when necessary.

Most often used for horizontal lifelines and having to detach from one line to reach around something like a vertical beam to attach to another line.



StopFall

A lanyard that cinches a pole while attached to the belt rings of a climbing belt or harness.

A positioning system lanyard used for "hitchhiking" trees and poles



Vertical Lifeline

These attach to an anchor point on a roof, a beam, or something similar. A rope grab and/or a descender operates on the rope.

These are used as lifelines for temporary means of access such as suspended scaffolding and extension ladders.



Shock Absorbing lanyard

This type of connector, or alternatives such as fall limiters or self-retracting lanyards, is required for all fall arrest systems. The shock absorber is sewn layers of fabric in the black part of this lanyard. The snaphook at the opposite end is engineered to attach to webbing or anchor points.



Self-Locking Carabineers

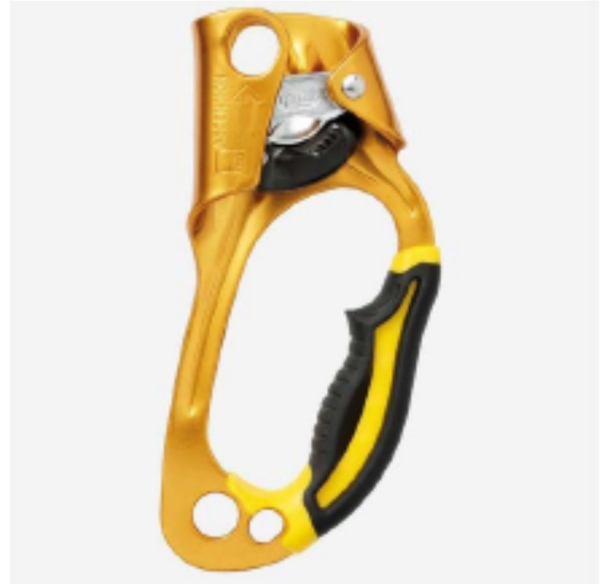
This is a prime connecting device and may be used to connect harnesses to lanyards, lanyards to anchors or decent devices.



Rescue Devices

Handled Ascender

Designed for ascending or descending along a rope or lifeline and, occasionally, for hauling (progress capture).



ASAP

Mobile fall arrest device for rope used as a lifeline. Stops a fall, a slide or uncontrolled descent. It locks even if the device is grabbed during a fall.

Works on vertical or angled rope. Moves up and down along the rope without manual intervention. Easy to install and remove at any point on the rope. Can be used with an energy absorbing lanyard.

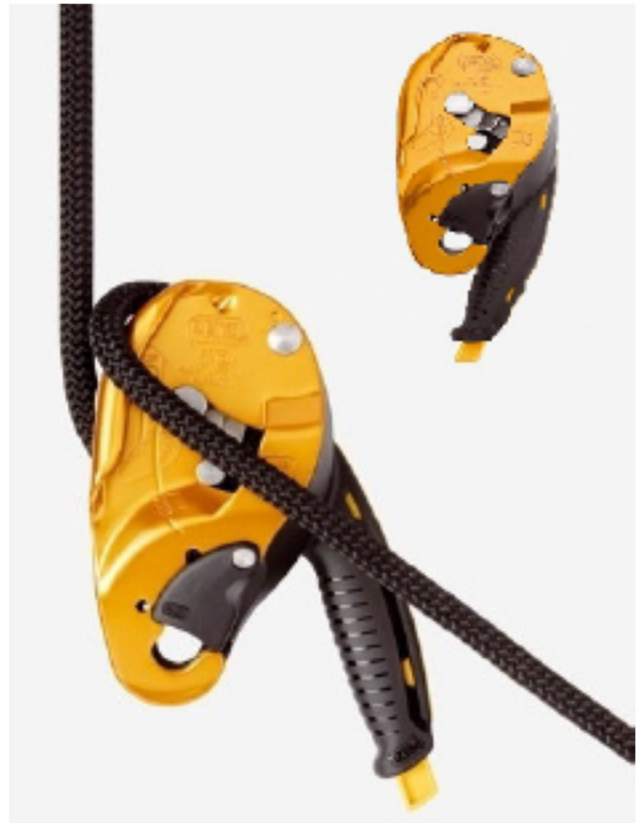


Self-braking Descender

Self-braking Descender with anti-panic function for working on fixed ropes. Designed for work on a rope, the gate on the swinging side plate helps prevent dropping the device.

Multi-functional handle allows the user to:

- Unblock the rope and control the descent with the hand on the braking side of the rope
- Move more easily on horizontal or low-angle terrain thanks to the button on the handle
- Position themselves while on the rope



Self-Rescue Device

This attaches to a harness and provides a means of self-rescue controlled descent as well as a means of rescue if the person using it is unconscious.

This may be used in any situation where a harness is used in addition to the harness itself.

<http://www.pksafety.com/latchways-rescue-harness-rh3-68203.html>



Self-Rescue Emergency Controlled Decent Device

Designed for smooth, automatic vertical and angular controlled descent from overhead cranes, towers, aerial lifts, oil derricks, platforms or other elevated work areas.

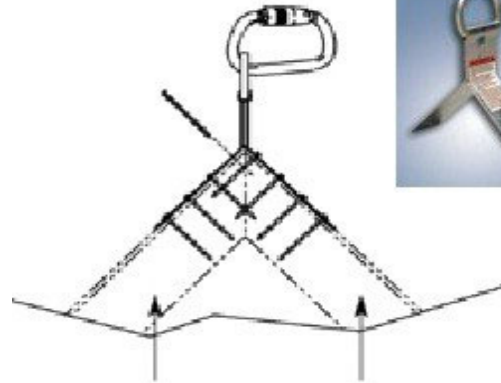
This is specialized equipment for emergency use only.



Anchors

Temporary Roof Anchor

Attached to the crest of a roof by nails or screws and provides an anchor point while working on a roof.



Reusable Temporary Roof Anchor, Steep Pitched Roof



Permanent Roof Crest Double D



Tie-Back, or Elbow Strap Lanyards

These are designed to serve as an anchorage connector and wrap around beams or pipe that can support the 5,000 or 3,000 pound load depending on the fall protection system being used.



Permanent Anchorage Connectors

There are many designs for retrofit D rings. These two are designed to be secured through a hole in a steel structural member.



Fixed Beam, adjustable Anchors

These are attached to I beams and are load rated to 5,000 lbs. so they can be used in a fall arrest system



Snap-hook for choking

This shows a type of snap-hook that is flattened on one end to be used for choking webbing lanyards



Accessories and Their Uses

Relief Step Strap

The strap is a webbing loop that unfurls from the harness and provides a means for the person suspended after a fall to reduce/avoid suspension trauma.



Tool Lanyards

Used to prevent tools from falling and possibly injuring others below.



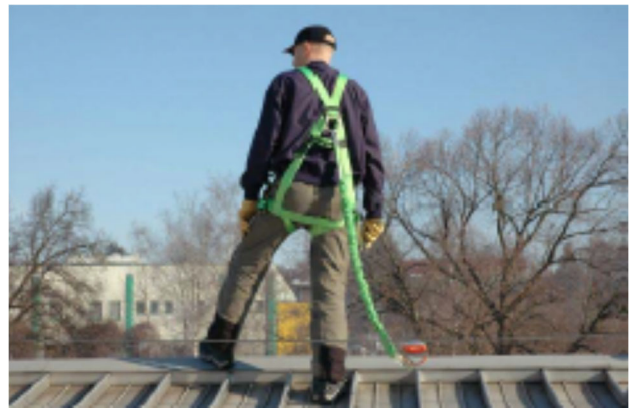
Fixed Ladder Climbing System

When climbing a ladder, rail systems can be used on any fixed ladder as well as curved surfaces as a reliable method of fall prevention.



Horizontal Lifeline System

Temporary or permanent. A horizontal rope mounted to anchor points and allows movement all along its line while attached to the line.



Continuous Pass-Through for Horizontal Lifelines

This allows movement along a horizontal lifeline without detaching or using a double legged lanyard to alternate attachments.



Temporary Horizontal Lifeline

A horizontal rope mounted to anchor points and allows movement all along its line while attached to the line. It's also known as a Catenary lifeline.



Trolley

Attachment point for a horizontal lifeline that allows continuous attachment.

