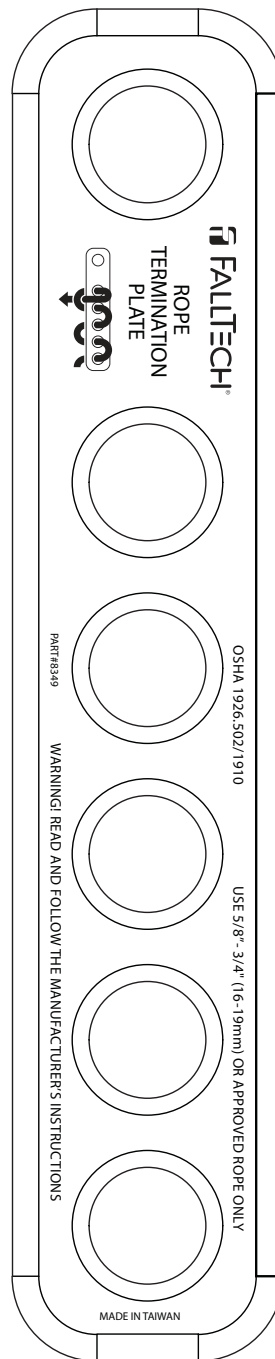


Rope Termination Plate

User Instruction Manual



This manual is intended to meet the Manufacturer's Instructions as required by the Occupational Safety and Health Administration (OSHA) and should be used as part of an employee training program.

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For purposes of this manual, the FallTech® Rope Termination Plate may be referred to as the Rope Termination Plate, the equipment, or the unit. Throughout this manual, ANSI Z359.0-2012 fall protection words, phrases and terms are used. These terms are all formally defined in Section 9 of this manual.

1.0 Warnings and Important Information

WARNING

- Avoid moving machinery, thermal, electrical, and/or chemical hazards as contact may cause serious injury or death.
- Avoid swing falls.
- Follow the weight restrictions and recommendations in this manual.
- Remove from service any equipment subjected to fall arrest forces.
- Remove from service any equipment that fails inspection.
- Do not alter or intentionally misuse this equipment.
- Consult FallTech when using this equipment in combination with components or subsystems other than those described in this manual.
- Do not connect rebar hooks, large carabiners, or large snap hooks to the FBH dorsal D-rings as this may cause a roll-out condition and/or unintentional disengagement.
- Avoid sharp and/or abrasive surfaces and edges.
- Use caution when performing arc welding. Arc flash from arc welding operations, including accidental arcs from electrical equipment, can damage equipment and are potentially fatal.
- Examine the work area. Be aware of the surroundings and workplace hazards that may impact safety, security, and the functioning of fall arrest systems and components.
- Hazards may include, but are not limited to, cable or debris tripping hazards, equipment failures, personnel mistakes, or moving equipment such as carts, barrows, fork lifts, cranes, or dollies. Do not allow materials, tools, or equipment in transit to contact any part of the fall arrest system.
- Do not work under suspended loads.

IMPORTANT

This product is part of a personal fall arrest, restraint, work positioning, suspension, or rescue system. A Personal Fall Arrest System (PFAS) is typically composed of an anchorage and a Full Body Harness (FBH), with a connecting device, i.e., a Shock Absorbing Lanyard (SAL), or a Self-Retracting Lanyard (SRL), attached to the dorsal D-ring of the FBH.

These instructions must be provided to the worker using this equipment. The worker must read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the worker's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

A Fall Protection Plan must be on file and available for review by all workers. It is the responsibility of the worker and the purchaser of this equipment to assure that users of this equipment are properly trained in its use, maintenance, and storage. Training must be repeated at regular intervals. Training must not subject the trainee to fall hazards.

Consult a doctor if there is reason to doubt your fitness to safely absorb the shock of a fall event. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use this equipment.

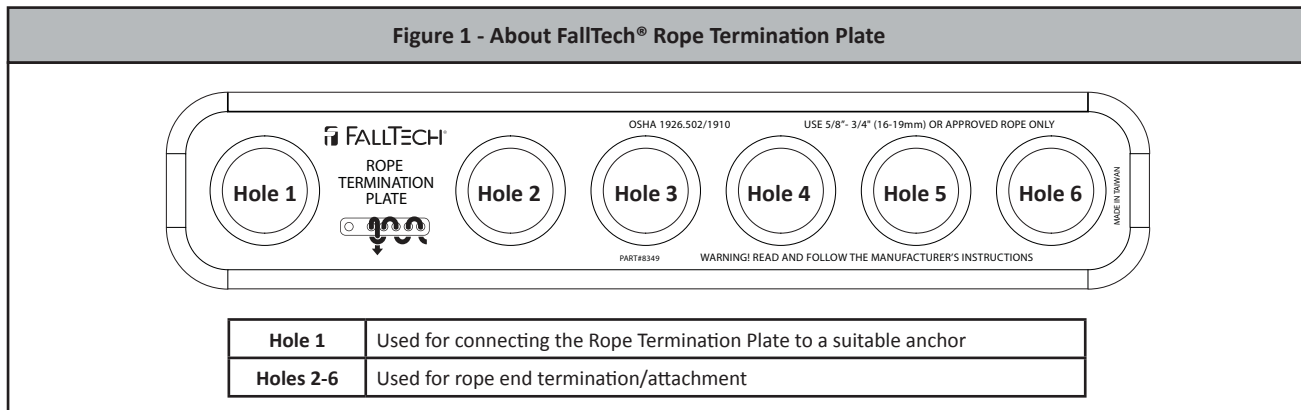
ANSI limits the weight of fall protection equipment users to a maximum of 310 lbs. Products in this manual may have a rated capacity exceeding ANSI capacity limits. Heavy users experience more risk of serious injury or death due to falls because of increased fall arrest forces placed on the user's body. In addition, the onset of suspension trauma after a fall event may be accelerated for heavy users.

The user of the equipment discussed in this manual must read and understand the entire manual before beginning work.

NOTE: For more information consult the ANSI Z359 body of standards.

2.0 Description

The FallTech® Rope Termination Plate is a machined plate of 6061-T6 aluminum that is anodized for wear and corrosion resistance. Five holes are used to create a rope end termination to secure the rope without the use of rope knots, which can drastically weaken the rope. Another hole is used for connecting to an anchor point; see Figure 1 for hole descriptions.



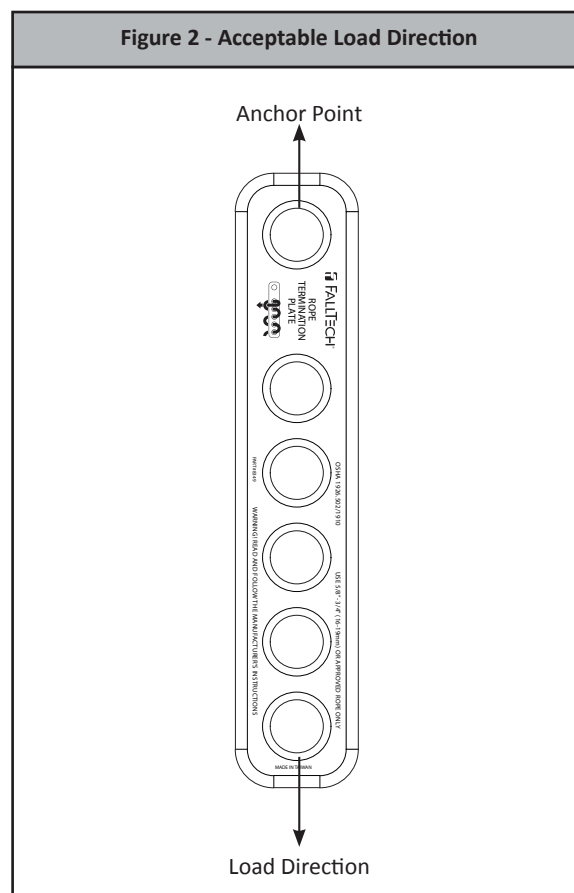
3.0 Application

3.1 Purpose: The FallTech® Rope Termination Plate is designed to work with 5/8" (16mm) to 3/4" (19 mm) diameter Kermantle rope and 5/8" (16mm) to 3/4" (19 mm) diameter three strand rope to provide a secure rope termination and eliminate the use of knots when a factory termination is not available.

3.2 Application Limits: Hole 1 on the FallTech® Rope Termination Plate shall only to be used only with a properly rated self-locking, self-closing carabiner. The rope being used shall have a minimum breaking strength not less than 5,000 lbs. (22 kN). Holes 2 through 6 are only to be used with 5/8" (16 mm) to 3/4" (19 mm) diameter Kermantle rope or 5/8" (16mm) to 3/4" (19 mm) diameter three strand rope. The Rope Termination Plate shall be loaded in tension only, see Figure 2.

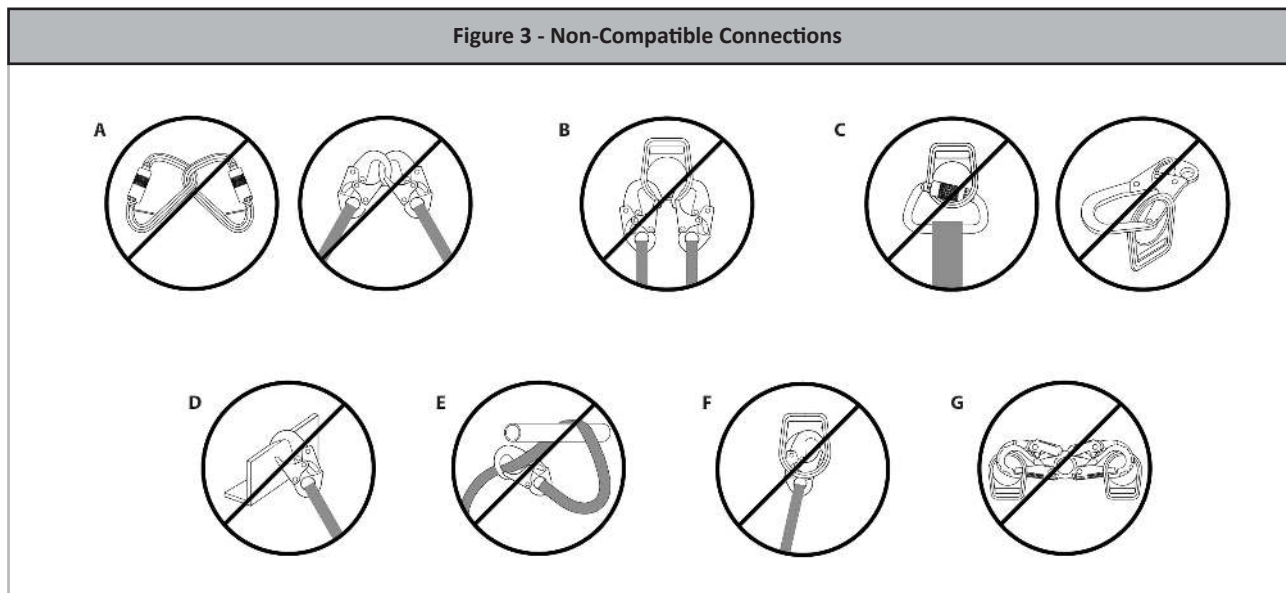
Note: Do not load in any other direction than as shown in Figure 2, failure to follow instructions may result in serious injury or death.

3.3 System Capacity: The maximum capacity of the FallTech® Rope Termination Plate is one worker weighing no more than 425 lbs. (193 kg) including clothing, tools, etc. For users weighing 310-425 lbs. ensure that a properly rated Energy Absorbing Lanyard (EAL) is used.



4.0 System Requirements

- 4.1 Compatibility of Connectors:** Connectors are considered to be compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Contact FallTech if you have any questions about compatibility. Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage. Connectors must be compatible in size, shape, and strength. Self-closing, self-locking snap hooks and carabiners are specified by OSHA and ANSI Z359.12.
- 4.2 Compatibility of Components:** Equipment is designed for use with approved components and subsystems only. Substitutions or replacements made with non-ANSI Z359 compliant components or subsystems may jeopardize compatibility of equipment and may affect the safety and reliability of the complete system, see Figure 3. Ensure compatibility between the connectors if non-FallTech components are used for fall protection.
- 4.3 Connectors:** Only use self-locking snap hooks, rebar hooks, and carabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Visually ensure all connectors close and lock completely. Connectors (snap hooks, rebar hooks, and carabiners) are designed for use only as specified in this manual.



- 4.4 Personal Fall Arrest System:** PFAS used with this equipment must meet ANSI Z359 requirements and applicable OSHA regulations. An FBH must be worn when this equipment is used as a component of a PFAS. OSHA regulations require the PFAS to arrest the user's fall with a maximum arresting force of 1,800 lbs. (8 kN) and limit the free fall to 6 feet or less. If the maximum free fall distance must be exceeded, the employer must document, based on test data, that the maximum arresting force will not be exceeded, and the PFAS will function properly.

4.5.1 PFAS Anchorage Strength: An anchorage selected for PFAS must have a strength able to sustain a static load applied in the direction permitted by the PFAS of at least:

- Two times the maximum arrest force permitted when certification exists, or
- 5,000 lbs. (22.2 kN) in the absence of certification.

5.0 Installation and Use

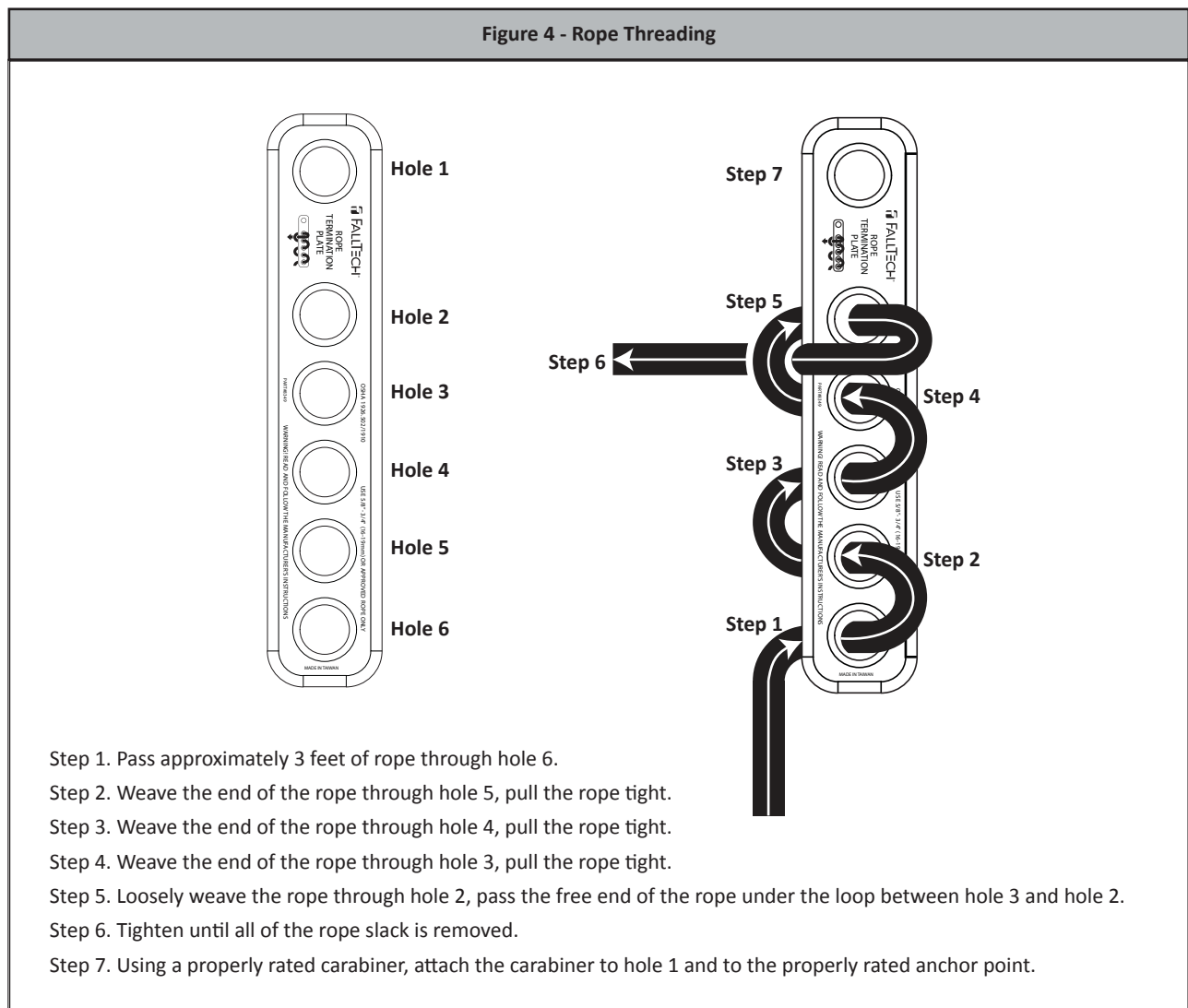
Installation of the Rope Termination Plate must be under the supervision of a Competent Person trained in their design and use.

NOTE: Approved fall protection may be required during installation of the Rope Termination Plate discussed in this manual.

DO NOT use the Rope Termination Plate in this manual until the system has been completely installed, inspected, and approved for use by a Competent Person.

- 5.1 **Pre-Use Inspection:** Inspect the Rope Termination Plate for dents, bends, cracks, deformation, sharp edges, or other signs of damage. If any of these inspection points are found, remove from service.
- 5.2 **Anchorage Location:** Select a suitable anchorage point that will support the strength requirement of Section 4.5.1 and minimize free fall and swing hazards. See Section 4.4 of this manual for anchorage strength requirements.

DO NOT allow free fall to exceed six feet.
- 5.2 **Fall Clearance Distance:** Take action to reduce the danger of falls. Ensure sufficient clearance in the fall area to arrest the fall before contact with the ground or other obstructions. The actual clearance required is dependent upon the type of connecting subsystem used.
- 5.3 **Rope Threading (Reeving):** See Figure 4 for threading instructions.



6.0 Maintenance, Service, and Storage

- Maintenance:** No scheduled maintenance is required, other than the replacement of items that failed inspection.
- Service:** There are no specific service requirements for this system component.
- Storage:** If the unit is removed from its installation location, it should be stored in a dry area free of corrosive elements that may harm or cause the product not to function.

7.0 Inspection

7.1 Pre-Use Inspection:

- 7.1.1 Inspect the additional equipment used on the Rope Termination Plate per the user instruction manual for the specific equipment. Do not use if the equipment fails inspection.
- 7.1.2 Inspect the Rope Termination Plate thoroughly for damage. Inspection should include checking the structure for dents, cracks, deformed, corrosion, or bending of the Rope Termination Plate.
- 7.1.3 Inspect all hardware for damage, wear, or missing parts.

Do not use the FallTech Rope Termination Plate or additional equipment if it fails any part of this inspection.

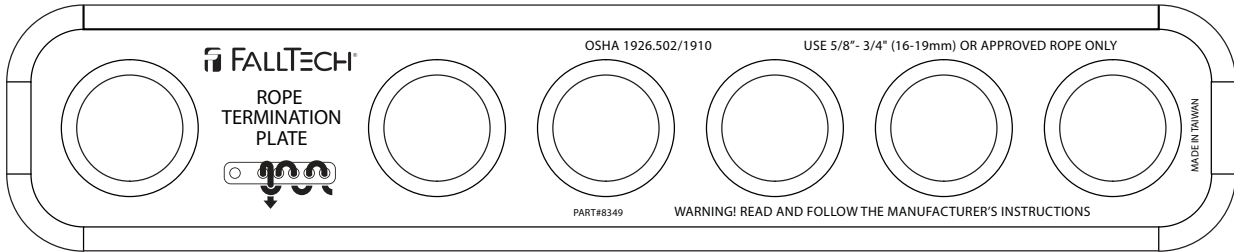
7.2 Inspection Frequency:

Pre-Use: Inspect the Rope Termination Plate and additional equipment before each use as outlined in section 7.1. All installations must be approved to local standards by a Competent Person.

Annually: The Rope Termination Plate and additional equipment must be inspected by a Competent Person annually and recorded on the Inspection Record provided or equivalent document.

7.0 Labels

The labels must be present and legible.



8.0 Definitions

The following are general definitions of fall protection terms as defined by ANSI Z359.0-2012.

Anchorage - A secure connecting point or a terminating component of a fall protection system or rescue system capable of safely supporting the impact forces applied by a fall protection system or anchorage subsystem.

Anchorage Connector - A component or subsystem that functions as an interface between the anchorage and a fall protection, work positioning, rope access or rescue system for the purpose of coupling the system to the anchorage.

Arrest Distance - The total vertical distance required to arrest a fall. The arrest distance includes the deceleration distance and activation distance.

Authorized Person - A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard.

Available Clearance - The distance from a reference point, such as the working platform, to the nearest obstruction that an authorized person might contact during a fall which, if struck, could cause injury.

Capacity - The maximum weight that a component, system or subsystem is designed to hold.

Certification - The act of attesting in writing that the criteria established by these standards or some other designated standard have been met.

Certified Anchorage - An anchorage for fall arrest, positioning, restraint or rescue systems that a qualified person certifies to be capable of supporting the potential fall forces that could be encountered during a fall.

Clearance - The distance from a specified reference point, such as the working platform or anchorage of a fall arrest system, to the lower level that a worker might encounter during a fall.

Clearance Requirement - The distance below an authorized person that must remain clear of obstructions in order to ensure that the authorized person does not make contact with any objects that would cause injury in the event of a fall.

Competent Person - An individual designated by the employer to be responsible for the immediate supervision, implementation and monitoring of the employer's managed fall protection program who, through training and knowledge, is capable of identifying, evaluating and addressing existing and potential fall hazards, and who has the employer's authority to take prompt corrective action with regard to such hazards.

Component - An element or integral assembly of interconnected elements intended to perform one function in the system.

Connecting Subsystem - An assembly, including the necessary connectors, comprised of all components, subsystems, or both, between the anchorage or anchorage connector and the harness attachment point.

Connector - A component or element that is used to couple parts of the system together.

Deceleration Distance - The vertical distance between the user's fall arrest attachment at the onset of fall arrest forces during a fall, and after the fall arrest attachment comes to a complete stop.

Energy (Shock) Absorber - A component whose primary function is to dissipate energy and limit deceleration forces which the system imposes on the body during fall arrest.

Fall Arrest - The action or event of stopping a free fall or the instant where the downward free fall has been stopped.

Fall Hazard - Any location where a person is exposed to a potential free fall.

Free Fall - The act of falling before a fall protection system begins to apply forces to arrest the fall.

Free Fall Distance - The vertical distance traveled during a fall, measured from the onset of a fall from a walking working surface to the point at which the fall protection system begins to arrest the fall.

Harness, Full Body - A body support designed to contain the torso and distribute the fall arrest forces over at least the upper thighs, pelvis, chest and shoulders.

Horizontal Lifeline - A component of a horizontal lifeline subsystem, consisting of a flexible line with connectors or other coupling means at both ends for securing it horizontally between two anchorages or anchorage connectors.

Horizontal Lifeline Subsystem - An assembly, including the necessary connectors, comprised of a horizontal lifeline component and, optionally, of:
a) An energy absorbing component or, b) A lifeline tensioner component, or both. This subsystem is normally attached at each end to an anchorage or anchorage connector. The end anchorages have the same elevation.

Horizontal Lifeline – A component of a horizontal lifeline subsystem, consisting of a flexible line with connectors or other coupling means at both ends for securing it horizontally between two anchorages or anchorage connectors.

Horizontal Lifeline Subsystem – An assembly, including the necessary connectors, comprised of a horizontal lifeline component and, optionally, of:
a) An energy absorbing component or, b) A lifeline tensioner component, or both. This subsystem is normally attached at each end to an anchorage or anchorage connector. The end anchorages have the same elevation.

Lanyard - A component consisting of a flexible rope, wire rope or strap, which typically has a connector at each end for connecting to the body support and to a fall arrester, energy absorber, anchorage connector or anchorage.

Lanyard Connecting Subsystem - An assembly, including the necessary connectors, comprised of a lanyard only, or a lanyard and energy absorber.

Personal Fall Arrest System (PFAS) - An assembly of components and subsystems used to arrest a person in a free fall.

Positioning - The act of supporting the body with a positioning system for the purpose of working with hands free.

Positioning Lanyard - A lanyard used to transfer forces from a body support to an anchorage or anchorage connector in a positioning system.

Qualified Person - A person with a recognized degree or professional certificate and with extensive knowledge, training and experience in the fall protection and rescue field who is capable of designing, analyzing, evaluating and specifying fall protection and rescue systems.

Self-Retracting Device (SRD) - A device that contains a drum wound line that automatically locks at the onset of a fall to arrest the user, but that pays out from and automatically retracts onto the drum during normal movement of the person to whom the line is attached.

After onset of a fall, the device automatically locks the drum and arrests the fall. Self-retracting devices include self-retracting lanyards (SRLs), self-retracting lanyards with integral rescue capability (SRL-Rs), and self-retracting lanyards with leading edge capability (SRL-LEs) and, hybrid combinations of these.

Snaphook - A connector comprised of a hook-shaped body with a normally closed gate or similar arrangement that may be opened to permit the hook to receive an object and, when released, automatically closes to retain the object.

Swing Fall - A pendulum-like motion that occurs during and/or after a vertical fall. A swing fall results when an authorized person begins a fall from a position that is located horizontally away from a fixed anchorage.

Appendix A

Table 1: Specifications for Rope Termination Plate				
Part Numbers	Minimum Tensile Strength and Material	Maximum User Capacity	Standards & Regulations	Image
8349	<p>6061-T6 Aluminum Blue Anodized Finish</p> <p>Minimum 5,000 lbs. (22.2 kN)</p>	<p>Single User Capacity: 130 to 425 lbs. (59 to 193 kg)</p>	OSHA 1926.502	