

GUARDIAN[®] FALL PROTECTION PERFORMANCE SAFETY GEAR

Guardian Fall Protection Kent, WA
800-466-6385 www.guardianfall.com

GENERAL SYSTEM SELECTION CRITERIA: Selection of fall protection shall be made by a Competent Person. All fall protection equipment shall be purchased new and unused.

The equipment is designed for use as a part of a personal fall protection system. Components shall not be used for any other operation other than that which it has been designed and approved.

Fall Arrest Systems shall be designed to comply with OSHA or applicable state regulatory limitations. Systems must be used in a compliant manner.

Fall Restraint systems shall be designed by a Qualified Person, and must be installed and used under the supervision of a competent person.

Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces. Age, fitness, and health conditions can seriously affect the worker should a fall occur. Pregnant women and minors should not use this equipment.



Bucket of Safety User Instruction Manual

**DO NOT THROW AWAY THESE INSTRUCTIONS!
READ AND UNDERSTAND BEFORE USING EQUIPMENT!**

This manual should be read and understood in its entirety, and used as part of a training program as required by OSHA or any applicable state regulatory agency.

This and any other included instructions must be provided to the users of the equipment. The user must understand the proper equipment use and limitations.

This product meets all applicable OSHA and ANSI standards for fall protection.

WARNING!

DO NOT:

- Do not alter or misuse this equipment.
- Do not use combinations of components or subsystems that may affect or interfere with the safe, compatible function of each other.
- Do not expose the equipment to chemicals which may produce a harmful effect or degrade the equipment. Consult manufacturer in cases where doubt exists.
- Do not use the equipment around moving machinery or electrical hazards unless specifically designed for such use.
- Do not use the equipment around sharp edges or abrasive surfaces unless intended for such use.

TRAINING REQUIREMENTS: The employer shall provide a training program for each employee who might be exposed to fall hazards. The program shall enable each employee to recognize the hazards of falling and shall train each employee in the procedures to be followed in order to minimize these hazards. Relevant Federal, State, and local regulatory requirements, procedures, and standards shall also be a part of training.

The employer shall ensure that each employee has been trained, as necessary, by a Competent or Qualified Person in the nature of fall hazards in the work area, the correct erecting, maintaining, disassembling, and inspection of the fall protection systems being used, and the use of personal fall arrest systems.

RESCUE PLAN: The user is required to have a rescue plan and the means at hand to implement it when using the equipment. The plan shall be project specific. Employees shall be trained in self-rescue or alternate means shall be provided for prompt rescue in the event of a fall.

IF EQUIPMENT IS SUBJECTED TO A FALL: Remove the equipment from service immediately if it has been subjected to the forces of a fall arrest. Contact your distributor or Guardian about policies regarding replacement of Guardian components involved in a fall.

INSPECTION:

- Only the manufacturer of this equipment or persons or entities authorized in writing by the manufacturer shall make repairs to fall protection equipment.
- The date of first inspection should be recorded by the employer on the equipment, and any serial numbers shall be recorded on the Inspection Log.
- Formal inspections shall be made by either a Competent or Qualified Person on at least a semi-annual basis.

PRIOR TO EACH USE:

- Fall protection equipment shall be inspected by the user for defects, damage, or deterioration.
- Any suspected defective equipment shall be removed from service.
- If the manufacturer's label is not legible or is missing, the equipment shall be removed from service. Fall protection equipment shall be removed from service upon evidence of defects, damage, or deterioration, or upon expiration of the manufacturer's specified service limits, whichever comes first.

WARNING!

Consult with your doctor if there is reason to doubt your fitness to safely absorb the shock from a fall arrest. Age, fitness, and health conditions can seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use any Guardian Fall Protection equipment.

MAINTENANCE, CLEANING, AND STORAGE: Repairs to equipment can be made only by a Guardian representative or person or entity authorized by Guardian. Contact Guardian for maintenance and repair. Cleaning after use is important for maintaining the safety and life of the equipment. Cleanse the equipment of all dirt, corrosives, and contaminants. If the equipment cannot simply be wiped clean use a mild soap and water. Rinse, wipe, and hang to dry. Store equipment where it cannot be affected by heat, light, excessive moisture, oil, chemicals, or other degrading elements

DESCRIPTION OF PRODUCT:

The Bucket of Safe-Tie is designed to provide fall arrest, fall restraint, or positioning capabilities for one user each. Combined components provide an anchorage connector, connecting lifeline, and full body harness. Product can be used anywhere that a compatible structure or system can be attached.

PRODUCT APPLICATION INFORMATION:

The Bucket of Safe-Tie is designed for use as an attachment for personal fall arrest, restraint, and work positioning.

- **PERSONAL FALL ARREST:** Means the product is used as a component of a personal fall arrest system to protect the user in the event of a fall. PFAS typically include a full body harness and a connecting component (energy absorbing lanyard). Maximum permissible free fall is six feet.
- **RESTRAINT:** Means the product is used as a component of a restraint system to prevent the user from reaching a fall hazard. Restraint systems typically include a full body harness and a lanyard or restraint line. **NO VERTICAL FREE FALL IS PERMITTED**
- **WORK POSITIONING:** Means the product is used as a component of a work positioning system to support the user at a work position. Work positioning systems typically include a full body harness, positioning lanyard, and a back-up personal fall arrest system. Maximum permissible free fall is two feet.
- **RESCUE:** This product IS NOT RATED for use as a component of a rescue system.

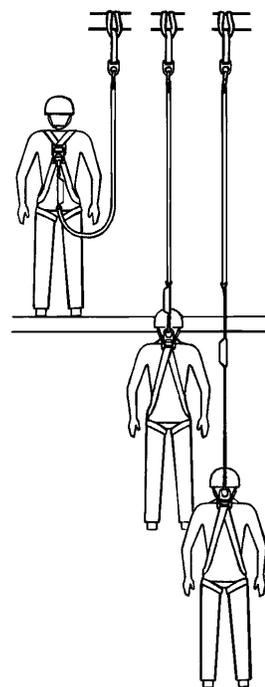
LIMITATIONS:

Consider the following application limitations before using this equipment.

- **Capacity:** The BOS kit is designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 310lbs. No more than one personal protective system may be connected at one time.
- **Free Fall:** Personal fall arrest systems (PFAS) used with this equipment must be rigged to limit the free fall to six feet as called out in ANSI Z359.1. Only qualified and trained personnel, on the proper use of fall protection such as this anchor, are allowed to use this product. **Restraint systems** must be rigged that no vertical free fall is possible. **Work positioning systems** must be rigged so that free fall is limited to two feet or less. **Rescue systems** must be rigged so that no vertical free fall is possible.
- **Fall Clearance:** There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or other obstruction. The clearance required is dependent on some or all of the following factors. A hazard assessment by a trained and competent person is recommended before any work is started that would include the use of fall protection.

Consider When Calculating Distance:

- Deceleration Distance
- Movement of harness attachment element (D-ring)
- Free Fall Distance
- Worker Height (how tall the worker is could affect the free fall distance)
- Elevation of Anchorage Connector
- Connecting Subsystems Length

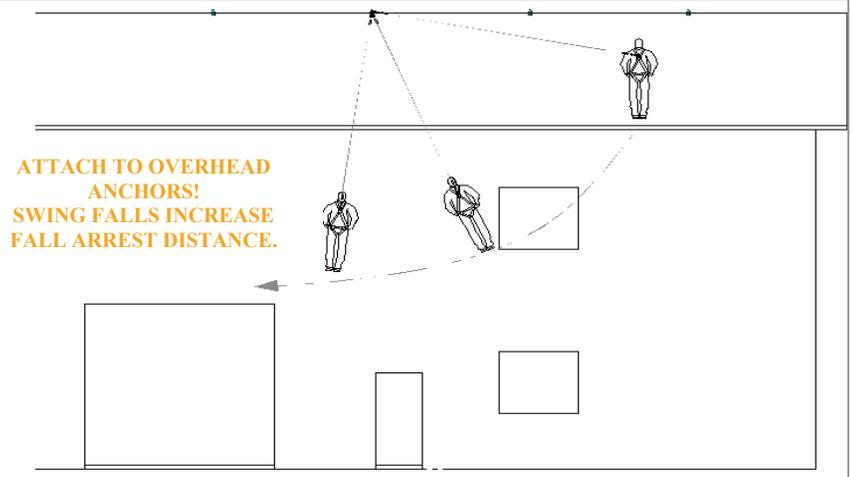


APPLICABLE STANDARDS:

Refer to potential applicable standards. Standards might include OSHA regulations depending on the type of work, and also might include state regulations if applicable. Consult regulatory agencies for more information on personal fall arrest systems and associated components. This product is designed to comply with OSHA and ANSI Z359.1 standards when used properly, and in accordance with manufacturer's instructions.

LIMITATIONS CONTINUED:

- **Swing Falls:** Swing falls occur when the anchorage point is not directly above the point where a fall occurs. The force of striking an object in a swing fall may cause serious injury or death. Minimize the risk of swing falls by working as close to the anchorage point as possible. Do not permit a swing fall if injury could occur. **Swing falls will significantly increase the clearance required when a self retracting lifeline or other variable length connecting system is used.**
- **Potential Environmental Hazards:** Use of fall protection equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include but are not limited to: chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.



SYSTEM REQUIREMENTS:

- **Compatibility of Components:** Guardian Fall Protection equipment is designed to be used with Guardian approved components. Please contact Guardian if you have a question regarding compatibility. Making substitutions without approval from Guardian Fall Protection may lead to injuries and or death by compromising the safety and reliability of the complete system. A Qualified person can make a determination on compatibility of equipment from different manufacturers. If in doubt, please contact Guardian Fall Protection for clarification.
- **Compatibility of Connectors:** Connectors (D-rings, hooks, carabiners) must be capable of supporting at least 5,000 lbs. (22kN). Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage. Self locking snap hooks and carabiners are required by ANSI and OSHA. Connectors must be compatible in size, shape, and strength.
- **Making Connections:** Only use self-locking snap hooks and carabiners with any Guardian Fall Protection equipment. Do not use equipment that is not compatible. If you have any questions on compatibility, please call Guardian Fall Protection at 800.466.6385.

WARNING!

Large throat opening snap hooks should not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates. Large throat snap hooks are designed for use on fixed structural elements such as rebar or cross members that are not shaped in a way that can capture the gate of the hook.

PERSONAL FALL ARREST INFORMATION:

- **Personal Fall Arrest System (PFAS):** Personal fall arrest systems used with this equipment must meet applicable state, federal, OSHA, and ANSI requirements. A full body harness must be worn when this equipment is used as a component of a personal fall arrest system. As required by OSHA, the personal fall arrest system must be capable of arresting the user's fall with a maximum arresting force of 1,800 lbs., and limit the free fall to six feet or less.

WARNING!

If overhead tie off is not feasible, and an approved system has the potential for a free fall greater than six feet, and up to a maximum of ten feet, Guardian Fall Protection recommends using a personal fall arrest system incorporating a Guardian Fall Protection Heavy Duty Shock Absorbing Lanyard. The Heavy Duty Lanyard is designed to keep fall arresting forces below the required standard of 1,800 lbs. Standard type lanyards will generate impact fall forces in excess of the legal requirement.

ANCHORAGE STRENGTH REQUIREMENT:

The anchorage strength required is dependent on the application. Following are anchorage strength requirements for specific applications. Ensure that any anchorage point used in a personal fall protection system meet the following requirements.

- **Fall Arrest:** The structure to which the anchorage connector is attached must sustain static loads applied in the directions permitted by the fall arrest system of at least 3,600 lbs. with certification of a qualified person, or 5,000 lbs. without certification. Refer to OSHA and ANSI for specific definition. This anchor is to be used by one worker only. Do not tie off equipment. Anchorages used for attachment of a personal fall arrest system shall be independent of any anchorage being used to support or suspend platforms.
- **Restraint:** The structure to which the anchor point is attached must sustain static loads applied in the directions permitted by the restraint system of at least 3,000 lbs. When more than one restraint system is attached to an anchorage, the strengths stated above must be multiplied by the number of restraint system attached to the anchorage.
- **Work Positioning:** The structure to which the anchor point is attached must sustain static loads applied in the directions permitted by the work positioning system of at least 3,000 lbs., or twice the potential impact load, whichever is greater. When more than one work positioning system is attached to an anchorage, the strengths stated above must be multiplied by the number of work positioning systems attached to the anchorage.

INSPECTION OF BUCKET OF SAFE-TIE:

WARNING!

If inspection reveals an unsafe or defective condition, remove the product from service and destroy it immediately.

- **Before each use of this equipment inspect it according to the following guidelines:**
A formal inspection of fall protection products/components must be performed at least every six months by a competent person other than the user. The frequency of formal inspections should be based on conditions of use or exposure. Record the inspection results in the inspection and maintenance log at the end of this manual.
- **Inspecting the Anchor Point:**
Step 1: Inspect the anchor points for distortion and structural damage, such as excessive bending, rust, or elongation.
Step 2: Inspect the anchor points for damage or corrosion. Inspect for cracks or wear that may affect strength and operation.
Step 3: Inspect the attaching fasteners. Fasteners must hold the Anchorage Plate securely to the anchorage. Inspect for damage or corrosion.
Step 4: Inspect the system components according to the manufacturer's instructions.
Step 5: Record the inspection results in the inspection log at the end of this manual.
- **Inspecting the Harness and Body Wear:**
Step 1: Inspect harness components for damage, distortion, cracks, worn parts, corrosion, or wear that might affect integrity.
Step 2: Inspect webbing components for cuts, broken fibers, tears, abrasions, mold, burns, or discoloration. Inspect stitching for possible breaks and identify any load indicators that might have deployed to indicate a fall.
Step 3: Inspect labels for legibility. If there is no label attached, contact manufacturer.
Step 4: Inspect the system components according to the manufacturer's instructions.
Step 5: Record the inspection results in the inspection log at the end of this manual.
- **Inspecting the Vertical Lifeline:**
Step 1: Inspect Lifeline hardware, such as thimbles, protective covers, snaphooks, etc, for damage, deterioration, or any wear that might affect strength and operation.
Step 2: Inspect rope for excessive and concentrated wear. Rope must be free of cuts, abrasions, broken yarns, frayed strands, burns, and discoloration. The rope must not show excessive soiling, paint build-up, or any other wear that might affect strength and operation. Knots in ropes should only appear at the end of the ropes as limiter knots.
Step 3: Inspect labels for legibility. If there is no label attached, contact manufacturer.
Step 4: Inspect the system components according to the manufacturer's instructions. Snaphooks and grabs should function smoothly and lock up in the event of a fall. Snaphooks should open and close freely and properly.
Step 5: Record the inspection results in the inspection log at the end of this manual.

WARNING!

PLAN THE FALL PROTECTION SYSTEM:

Before installation plan your system. Consider all factors that will affect your safety during use of this equipment. The following list gives important points to consider when planning your system:

- Anchorage: Select a rigid anchorage capable of supporting the loads no less than 5,000 lbs. per worker attached.
- Sharp Edges: Avoid working where system components may be in contact with, or abrade against, unprotected sharp edges.
- After a Fall: Components which have been subjected to the forces of arresting a fall must be removed from service and destroyed.
- Rescue: The employer must have a rescue plan when using this equipment. The employer must have the ability to perform a rescue quickly and safely.

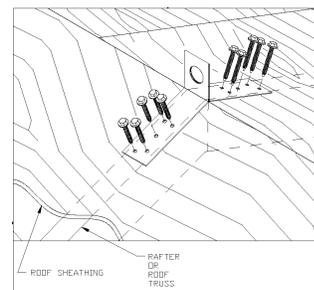
USING THE ANCHOR POINTS:

The Guardian anchor points provided with the kits all have the same requirements for installation. Each anchor is designed for:

- Installation into a sheathed wood roof structure capable of withstanding 5,000lbs.
- Each anchor must be installed over and into a truss or equivalent structural member with ALL fasteners penetrating the truss.
- Each anchor is designed for use as a component of a personal fall protection system, for use with ONE person.
- DO NOT use the anchors for HORIZONTAL LIFELINE attachment points.
- Work as directly underneath the anchors as possible to avoid a swing fall (pendulum fall).
- Inspect tie off anchor placement structure for integrity and 5,000lbs. load capability in the direction of a fall before installation.
- Make only stable and compatible interfaces and connections.
- Avoid physical and chemical hazards that will deteriorate the equipment.
- MAXIMUM user weight capacity (including tools) is 310lbs. for safe use of PFAS.

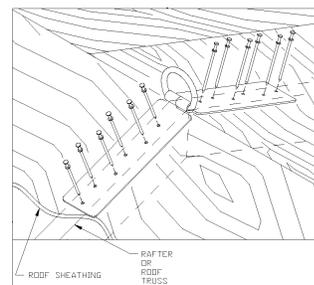
Reusable Anchor (Designed for installation and removal for temporary, reusable application):

- Attach the Reusable Anchor to qualified sheathed truss structures using the provided #12x14 2" screws.
- DO NOT USE NAILS!
- Reusable anchor is made of type 304 Stainless Steel.
- Reusable anchors are rated as 5,000lb. anchors at any pitch.
- Anchor can be removed and reused for multiple installations.
- Do not reuse fasteners.



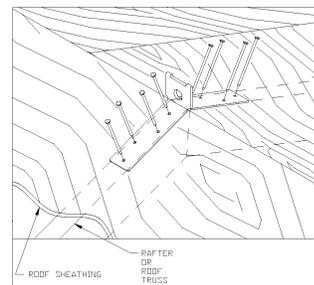
Temper Anchor: (Designed for installation and removal for temporary, reusable application):

- Attach the Temper Anchor to qualified sheathed truss structures using the provided #12x14 2" screws or 16d galvanized or duplex (double headed nails)
- WHEN USING SCREWS PROVIDED SCREWS:
 - ANY PITCH 5,000lb. rated anchor for FALL ARREST
- WHEN USING NAILS:
 - 5/12 pitch through 12/12 pitch: 5,000lb. rated anchor for FALL ARREST
 - 4/12 pitch or less: 3,000lb. rated anchor for FALL RESTRAINT or POSITIONING.
- Temper anchor is made of zinc chromate plated steel.
- Anchor can be removed and reused for multiple installations.
- Do not reuse fasteners.



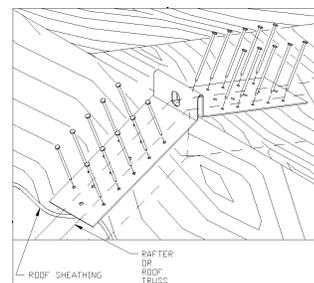
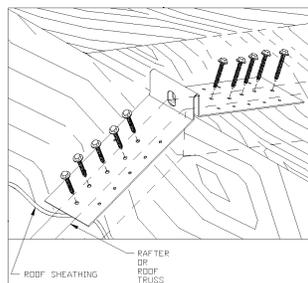
Snappy Anchor (Designed for temporary, ONE TIME USE):

- Attach the Snappy anchor to qualified sheathed truss structures using the provided 16d galvanized nails or equivalent.
- Snappy anchor is made of steel (unfinished).
- Snappy anchors are rated as 5,000lb. anchors for use on any pitch EXCEPT FLAT.
- Anchor is DISPOSABLE and CANNOT be used for more than one installation. Destroy anchor by hammering tab flat after 1st installation.
- Do not reuse fasteners.



SP-Anchor (Designed for installation and removal for temporary, reusable application):

- Attach the Reusable Anchor to qualified sheathed truss structures using the provided #14 screws.
- Also attachment can be made using qty. 20 16d galvanized nails (regular or duplex) (not provided)
- SP-Anchor is made of galvanized steel.
- SP-Anchors are rated as 5,000lb. anchors at any pitch.
- Anchor can be removed and reused for multiple installations.
- Do not reuse fasteners.



USING THE HARNESS:

The Guardian Harnesses provided in this kit are to be used as a component of a personal fall protection system. Inspect the harnesses before each use. Harnesses must be used with compatible equipment. Make only compatible connections to harnesses. For fall arrest, attach only to the D-ring located between the shoulder blades. Avoid exposure to physical and chemical hazards that might degrade the harness or impair its structural integrity.

Maximum allowable free fall is 6ft. unless lanyard system is specially designed for extended free falls (See OSHA for information on allowances for free falls in excess of 6ft.). Maximum allowable worker weight, including tools, is 310lbs. One person per harness.

Donning the Harness:

- Locate the back D-ring and lift up the harness. Make sure the straps are not twisted and that all buckles are undone.
- Slip the harness over your shoulders like a vest. The dorsal D-ring (with the plastic placard) should be between your shoulder blades.
- Buckle and adjust the chest strap. Chest strap should be located approx. 6" from the top of the shoulders at the lower chest level.
- Buckle the legs straps hanging behind you into their front connector on the same side. Adjust to a tight, but comfortable fit around the thigh.
- Adjust the shoulder straps to a comfortable fit. The sub-pelvic strap should be located comfortably below the buttocks to properly distribute the force of a fall.
- For models with a waist belt, fasten the belt so that it fits comfortably around the waist.



All buckles must be properly engaged and all straps must be properly adjusted before work takes place. Disengaged buckles, or improperly adjusted harnesses can cause severe damage in arresting a fall. Harness must not be worn excessively loose or the user risks significant injury even if the fall is arrested.

USING THE VERTICAL LIFELINE:

Guardian Vertical Lifeline Assemblies, and Guardian Rope Assemblies with fall arrest components such as rope grabs and positioning devices, are designed for use as a personal fall protection system (PFAS). The equipment must be inspected before each use. Attach only to approved anchorages suited for the applications and meeting OSHA and applicable standards.

The maximum free fall distance allowed with this system is 6ft. unless components are designed for extended free falls. The system is rated for 5,000lbs., although if a shock absorber pack is incorporated in the system, the arrest forces on the body are limited to under 1000lbs. when properly used. The maximum worker weight, including tools, for use with this lifeline is 310lbs.

The Positioning Device is locked until the cam lever is depressed, which allows the unit to slide along the rope. Once the worker is at their location, they can release the Positioning Device so that it locks onto the rope. DO NOT grab the Positioning Device in the event of a fall, accidentally depressing the cam lock can open up the unit and cause it to slide on the rope. In order to work properly, the lanyard attached to the Positioning Device or Rope Grab must allow the device to engage on the rope in its intended locking method. Users should familiarize themselves with the Positioning Device before using.



The shock absorber pack on the lifeline system, if your system has a shock absorber permanently attached to the end of the rope, is designed for attachment at the anchor point. If the shock absorber is built into the leg of the rope grab, positioning device, or fall arrester, that portion must be attached to the user's approved body harness.

Do not tie knots in rope lifelines. Knots in rope significantly reduce the rope's strength properties. Limiter knots are permitted at the end of the system to limit the amount of Positioning Device travel.

Avoid exposure to physical and chemical hazards that will degraded the rope or any attached lanyards.

Proper use constitutes:

- The Positioning Device or Rope Grab fall arrester components must be adjusted during use to limit free fall potential. Slack in the system can allow momentum to build that could generate a free fall greater than 6ft. Always adjust the Positioning Device to minimize potential slack (free fall) in the system.
- Do not work above the Positioning Device unless free fall is limited to 6ft. or less.
- Do not remove components from lifeline assemblies.
- The system is designed so that there is adequate fall distance, and a lower level cannot be contacted.
- System and application is designed to prohibit the potential for a swing fall if injury can occur.
- One person per vertical lifeline system.

TRAINING:

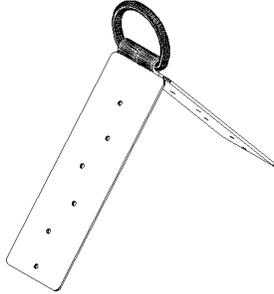
It is the responsibility of the user and the purchaser of this equipment to assure that they are familiar with these instructions, trained in the correct care and use of, and are aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

WARNING!

Training should be conducted without exposure anyone to a fall hazard. Training should be repeated on a periodic basis in accordance with your organizations policy and compliance with OSHA regulations.

SPECIFICATIONS:

TEMPER ANCHOR



Materials:
Zinc chromate finished steel

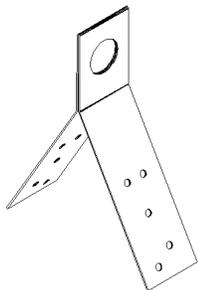
Guardian Fall Protection

TEMPER anchors meet OSHA and ANSI standards. Inspect before each use. Max. worker weight is 310lbs. 5000 lb. load rating with provided screws. Use only with compatible connectors and use caution when working around electrical or chemical sources.

Warning: All holes must be used by attaching into the truss.

Follow instructions included with product in shipment from manufacturer For Pitches steeper than 4/12, 16d galvanized or duplex nails may be used instead of screws for fall arrest. Always install fasteners into a truss. Supplied #12x2" fasteners can be used in fall arrest for any pitch. With 16d galv./duplex nails on 4/12 pitch or less set up in Fall Restraint **ONLY**.

REUSABLE ANCHOR



Materials:
304 Stainless Steel

REUSABLE ANCHOR
Guardian Fall Protection
800-466-6385

WARNING!!

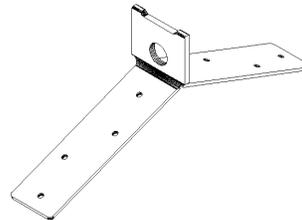
Failure to read and follow instructions included at time of shipment can result in serious personal injury!

Installer must use 10 #12 x 2" fasteners provided. Replacement screws must be ordered for each installation.

All fasteners must attach to rafter. Use only with compatible equipment.

5,000lb. anchor. Max. capacity 1 person at 310lbs.

SNAPPY ANCHOR



Materials:
Steel (unfinished)

SNAPPY

Warning!

Read instructions before use. Failure to read and follow instructions included at time of shipment can result in serious personal injury.

Installer must use eight (8) 16d 3 1/2" nails (incl.) to attach this anchor through the roof sheathing into a truss or structural member capable of holding a 5,000 lb. load.



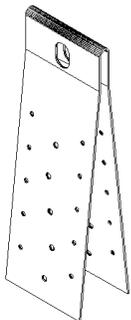
This product is designed for use only at the ridge on any pitched roof. If bracket is deformed due to impact or wear it must be destroyed or bent over and covered by roofing. This is not a permanent or reusable anchor. It must be bent over and destroyed after use.

This product meets ANSI Z359.1 and OSHA requirements for a fall arrest device.

Use of full body harness and deceleration device is recommended. For more information please call:

1-800-466-6385

SPANKER ANCHOR



Materials:
Galvanized Steel



HARNESSES

Materials:

- Polyester Webbing Material
- Steel Components and hardware



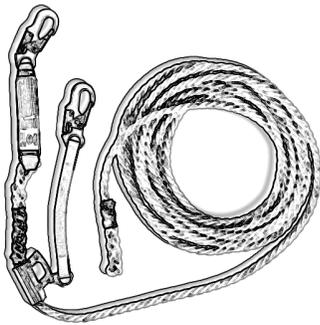
WARNING: FAILURE TO FOLLOW INSTRUCTIONS INCLUDED AT TIME OF SHIPMENT CAN RESULT IN SERIOUS INJURY OR DEATH.

Man. Model. Serial:

Make only compatible connections. Max. worker weight: 310 lbs. Attach to dorsal D-rings or side positioning rings only. See instructions for proper attachment methods. Before use inspect equipment for rips, tears, fraying, or any possible structural incapacity that might compromise the equipment in a fall. See instruction manual for installation procedures. Harnesses are nylon or polyester. Avoid contact with sharp and abrasive edges. Meets OSHA ANSI Z359.1 standards. Have product inspected at least annually by a competent person.

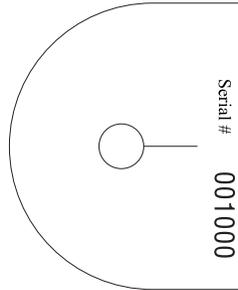
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VERTICAL LIFELINE ASSEMBLY



Materials:

- 5/8" polyolefin line
- Steel components and hardware
- Nylon webbing



Model _____ Length _____ DOM _____

WARNING! FAILURE TO FOLLOW INSTRUCTIONS INCLUDED AT TIME OF SHIPMENT CAN RESULT IN SERIOUS INJURY OR DEATH.

Make only compatible connections. Max. worker weight is 310lbs. See instructions for proper attachment methods and installation.

Before use inspect for rips, tears, fraying, or any possible structural incapacity that might compromise the equipment in a fall. Avoid contact with sharp and abrasive edges. Lifelines are constructed of 5/8" poly blend rope. Complies with OSHA/ANSI Z359.1 standards. **DO NOT REMOVE THIS TAG!**

Serial #
001000

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