



Product Name: Screw-Down Metal Roof Anchor

Part #: 00255

Instruction Manual

Do not throw away these instructions! Read and understand these instructions before using equipment!

Introduction	1
Applicable Safety Standards	1
Worker Classifications	1
Product Specific Applications	1-2
Limitations	2-3
Components and Specifications	3
Installation and Use	4-5
Maintenance, Cleaning, and Storage	5
Inspection	5
Inspection Log	6
Safety Information	6-7
Labels	7



Introduction

Thank you for purchasing a Guardian Fall Protection Screw-Down Metal Roof Anchor. This manual must be read and understood in its entirety, and used as part of an employee training program as required by OSHA or any applicable state agency.

This and any other included instructions must be made available to the user of the equipment. The user must understand how to safely and effectively use the Screw-Down Metal Roof Anchor, and all fall safety equipment used in combination with the Screw-Down Metal Roof Anchor.

ι	Jser Information
Date of First Use:	
Serial #:	
Trainer:	
User:	

Applicable Safety Standards

When used according to instruction specifications, this product meets or exceeds all applicable OSHA 1926 Subpart M and OSHA 1910 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state-specific regulations. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

Worker Classifications



Understand the following definitions of those who work near or who may be exposed to fall hazards.

Qualified Person: A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning and reviewing the conformity of fall protection and rescue systems.

Competent Person: A highly trained and experienced person who is ASSIGNED BY THE EMPLOYER to be responsible for all elements of a fall safety program, including, but not limited to, its regulation, management, and application. A person who is proficient in identifying existing and predictable fall hazards, and who has the authority to stop work in order to eliminate hazards.

Authorized Person: A person who is assigned by their employer to work around or be subject to potential or existing fall hazards.

It is the responsibility of a Qualified or Competent person to supervise the job site and ensure all applicable safety regulations are complied with.

Product Specific Applications



Use of equipment in unintended applications may result in serious injury or death. Maximum 1 attachment per connection point.



Personal Fall Arrest: Screw-Down Metal Roof Anchor may be used to support a MAXIMUM 1 PFAS for use in Fall Arrest applications. Structure must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. Maximum permitted free fall is 6'. Applicable D-ring: Dorsal.





Restraint: Screw-Down Metal Roof Anchor may be used in Restraint applications. Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for fully deployed length of lanyard/SRL. Structure must withstand loads applied in the directions permitted by the system of at least 1,000 lbs. No free fall is permitted. Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal). Applicable D-rings: Dorsal, Chest. Side. Shoulder.

For all applications: worker weight capacity range (including all clothing, tools, and equipment) is 130-310 lbs.

Limitations

Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 3' safety factor, deceleration distance, user height, length of lanyard/SRL, harness stretch and all other applicable factors.

Diagram shown is an example fall clearance calculation ONLY.

Swing Falls: Prior to installation or use, make considerations for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall.

Compatibility: When making connections with Screw-Down Metal Roof Anchor, eliminate all possibility of roll-out. Roll-out occurs when interference between a hook and the attachment point causes the hook gate to unintentionally open and release. All connections must be selected and deemed compatible with Screw-Down Metal Roof Anchor by a Competent Person. All connector gates must be self-closing and self-locking, and withstand minimum loads of 3,600 lbs. See the following for examples of compatible/incompatible connections:

Connector closed and

locked to

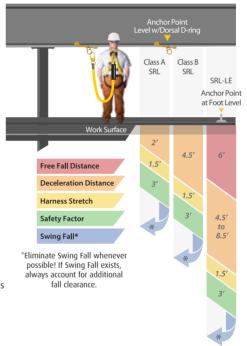
D-ring. OK.

Two connectors to same D-ring. **NO.**





Fall clearance calculation shown based on standing worker falling directly in-line with anchor point. Always consider potential swing fall and other hazards when calculating fall clearance.





Connector to integral lanyard. NO.



Connector directly to webbing.



Incompatible or irregular application, which may increase risk of roll-out, NO.







Connector directly to horizontal lifeline. No.







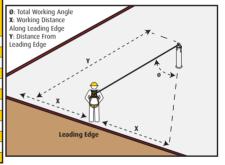


Correct Anchorage Positioning:

This chart details allowable working zones required to reduce risk of swing falls and improper side loading.

ALWAYS adhere to information specified by chart.

Anchor Distance From Leading Edge (Y)	Working Distance Along Roof Edge (Either Direction) (X)	Working Angle From Perpendicular (Ø)
6'	8'	53°
10′	9' - 9"	45°
15'	11' - 7"	38°
20'	13' - 3"	33°
25'	14' - 6"	30°
30'	16′	28°
35'	17' - 2"	26°
40'	18' - 3"	24°
45'	19' - 4"	23°
50'	19' - 10"	21°
55′	21' - 4"	21°
60′	22' - 3"	21°



For example, if the anchorage connector is 6' from the leading edge (Y), the working distance (X) is 8' in each direction from the perpendicular, which translates to a 53° working angle.

Components and Specifications

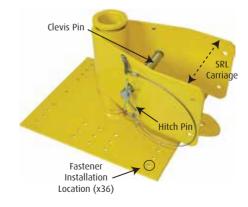
Materials: Powder-coated steel and galvanized steel.

#10975: Retractable Swivel Adapter (not included)



SRL extension adapter for 50'-65' SRLs ONLY.

#00255: Screw-Down Metal Roof Anchor





Installation and Use

Prior to installation, plan your system:

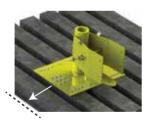
- 1. Fully inspect selected installation location and applicable work area as specified by this instruction manual. Eliminate all existing and potential hazards. Ensure selected installation location meets minimum strength requirements as specified by this instruction manual.
- 2. Ensure that all PFAS equipment to be used in combination with Screw-Down Metal Roof Anchor is selected and deemed compatible by a Competent Person.
- * SRL-LE required when working in Leading Edge (LE) applications.
- 3. Make considerations for eliminating or minimizing swing fall hazards.
- 4. Not for use in combination with horizontal lifeline (HLL) systems.

Minimum substrate requirements:

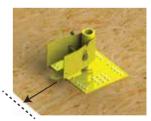
Wood: 3/4" CDX. Metal: 24 gauge.

Installation:

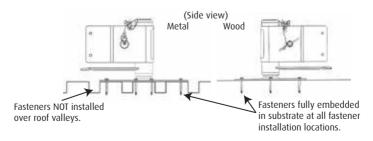
- 1. At selected installation location, place Screw-Down Metal Roof Anchor with edge of baseplate perpendicular to applicable fall hazard. Baseplate must lie flush with roof surface.
- 2. At all (36) fastener installation locations, install fasteners applicable to substrate type. All fasteners must be selected and deemed compatible by a Competent Person. Guardian recommends #14x10 2" steel hex head screws. All fasteners MUST be used. All fasteners MUST be fully embedded in substrate. In metal installation applications, NEVER install fasteners over roof valley.



Baseplate installed perpendicular to applicable fall hazard.



3. Screw-Down Metal Roof Anchor for temporary installation applications ONLY. Always use new fasteners for each new installation application.





4. Install SRL into Screw-Down Metal Roof Anchor. If using 50'-65' SRL, install Retractable Swivel Adapter (#10975) according to manufacturer's instructions, prior to installation of SRL: 1) Remove Hitch Pin from Clevis Pin and remove Clevis Pin from Carriage; 2) Insert SRL into Carriage; 3) Insert Clevis Pin through Carriage and through SRL connection point; 4) Insert Hitch Pin through Clevis Pin; 5) Ensure Hitch Pin, Clevis Pin, and SRL are fully secured, and no risk exists for accidental detachment.



5. It is permitted to use the Screw-Down Metal Roof Anchor in combination with connecting equipment other than an SRL. The snap hook or carabiner of equipment such as a lanyard or vertical lifeline may be connected directly to the Screw-Down Metal Roof Anchor clevis pin, provided the connection is deemed compatible by the jobsite Competent Person. Always ensure the clevis pin is fully locked and secure prior to making any connections.

Maintenance, Cleaning, and Storage

If Screw-Down Metal Roof Anchor fails inspection in any way, immediately remove it from service, and contact Guardian to inquire about its return or repair.

Cleaning after use is important for maintaining the safety and longevity of Screw-Down Metal Roof Anchor. Remove all dirt, corrosives, and contaminants from Screw-Down Metal Roof Anchor before and after each use. If Screw-Down Metal Roof Anchor cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Screw-Down Metal Roof Anchor with corrosive substances.

When not in use, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

Inspection

Prior to EACH use, inspect Screw-Down Metal Roof Anchor for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, and missing or illegible labels. IMMEDIATELY remove Screw-Down Metal Roof Anchor from service if defects or damage are found, or if exposed to forces of fall arrest.

Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials. Ensure that selected work area will support the application-specific minimum loads set forth in this instruction manual. Work area MUST be stable.

At least every 6 months, a Competent Person other than the user must inspect Screw-Down Metal Roof Anchor. Competent Person inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label. The Competent Person must sign their initials in the box corresponding to the month and year the inspection took place.

During inspection, consider all applications and hazards Screw-Down Metal Roof Anchor have been subjected to.



Inspection Log

Date	of	First	Use:					

Product lifetime is indefinite as long as it passes pre-use and Competent Person inspections. User must inspect prior to EACH use. Competent Person other than user must complete formal inspection at least every 6 months. Competent Person to inspect and initial.

This inspection log must be specific to one Screw-Down Metal Roof Anchor. Separate inspection logs must be used for each Screw-Down Metal Roof Anchor. All inspection records must be made visible and available to all users at all times.

	J	F	M	A	M	J	J	A	S	O	N	D
YR												
YR												
YR												
YR												
YR												

If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE.

Safety Information



Failure to understand and comply with safety regulations may result in serious injury or death. Regulations included herein are not all-inclusive, are for reference only, and are not intended to replace a Competent Person's judgment or knowledge of federal or state standards.

Do not alter equipment. Do not misuse equipment.

Workplace conditions, including, but not limited to, flame, corrosive chemicals, electrical shock, sharp objects, machinery, abrasive substances, weather conditions, and uneven surfaces, must be assessed by a Competent Person before fall protection equipment is selected.

The analysis of the workplace must anticipate where workers will be performing their duties, the routes they will take to reach their work, and the potential and existing fall hazards they may be exposed to. Fall protection equipment must be chosen by a Competent Person. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased new and in an unused condition.

Fall protection systems must be selected and installed under the supervision of a Competent Person, and used in a compliant manner. Fall protection systems must be designed in a manner compliant with all federal, state, and safety regulations. Forces applied to anchors must be calculated by a Competent Person.

Unless explicitly stated otherwise, the maximum allowable free fall distance for lanyards must not exceed 6'. No free fall allowed for non-LE SRLs. Class A SRLs must arrest falls within 24"; Class B SRLs must arrest falls within 54".



Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration. Snap hooks, carabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and carabiners must be self-locking and self-closing, and must never be connected to each other.

A pre-planned rescue procedure in the case of a fall is required. The rescue plan must be project-specific. The rescue plan must allow for employees to rescue themselves, or provide an alternative means for their prompt rescue. Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons to correctly erect, disassemble, inspect, maintain, store, and use equipment must be provided by a Competent Person. Training must include the ability to recognize fall hazards, minimize the likelihood of fall hazards, and the correct use of personal fall arrest systems.

NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

Equipment subjected to forces of fall arrest must immediately be removed from use.

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

Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the effects of suspension trauma.

Labels



				IN	ISPE	CTIO	N GF	RID					
User must inspect prior to EACH use. Competent Person must complete formal inspection every 6 months. Competent Person to inspect and initial.												LABELS	
					First Use				-:				AB
					ne is inc e and C								
	passes pre-use and Competent Person inspections. If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE												REMOVE
YR MO	J	F	M	А	М	J	J	Α	S	0	N	D	SEM ≤
20													
20													NOT
20													2
20													ă
20													