



# **Product Name: Halo Anchor**

Part #: 00482

# **Instruction Manual**

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

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## Introduction

Thank you for purchasing a Guardian Fall Protection Halo 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 Halo Anchor, and all fall safety equipment used in combination with the Halo Anchor.

User 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, OSHA 1910, ANSI Z359.18-2017, and ANSI A10.32-2012 standards for fall protection, depending on application (see below). This product has been tested in compliance with the requirements of ANSI/ASSE Z359.7. Testing only covers hardware and does not extend to the anchorage or substrate to which this product is attached. 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.

PRODUCT COMPLIANCE	OSHA 1910 & OSHA 1926 Subpart M	ANSI Z359.18 & ANSI A10.32
Wood Installations (Except Screws in Truss)	YES	NO
Wood Installations, Screws In Truss	YES	YES
Metal Installations	YES	NO



# **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:** Halo 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 free fall is 6', or up to 12' if used in combination with equipment explicitly certified for such use. Applicable D-ring: Dorsal.



**Restraint:** Halo 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.



**Work Positioning:** Halo Anchor may be used in Work Positioning applications. Work Positioning systems allow a worker to be supported while in suspension and work freely with both hands. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. Maximum allowable free fall is 2'. Applicable D-rings: Side, Shoulder.

For all applications: worker weight capacity range (including all clothing, tools, and equipment) is 130-420 lbs.

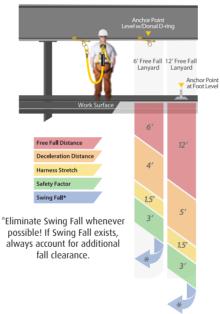


# **Limitations**

**Fall Clearance:** There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or any obstruction. When calculating fall clearance, account for a MINIMUM 3' safety factor, free fall, deceleration distance, harness stretch, swing fall, and all other applicable factors.

Diagram shown is an example fall clearance calculation ONLY.

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.



**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 Halo 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 Halo 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.





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.





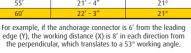


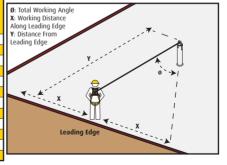


#### **Correct Anchorage Positioning:**

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°







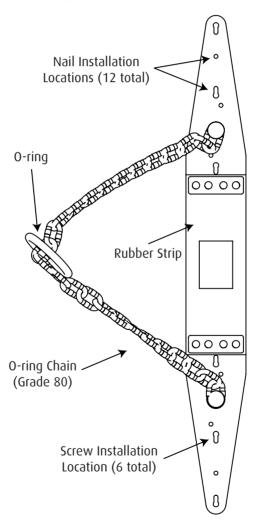
# **Components and Specifications**

Type A anchorage connector.

Minimum permitted service temperature: -30° F.

5,000 lb. MBS (minimum breaking strength).

Materials: zinc-plated steel and rubber.





## Installation and Use

#### Prior to installation, plan your system:

#### MINIMUM substrate thickness requirements:

- Wood, in field: 3/4" CDX or better.
- Wood, in truss: 31/2 combined thickness or better.
- Metal: 20g or better.

#### Fasteners for Wood Substrates (Provided):

- 3" 16d nails. OSHA compliant installation only.
- 1/4" x 3" lag screws. OSHA compliant installation in field, ANSI compliant installation in truss.

#### Fasteners for Metal Substrates (Not Provided):

• 1/4" x 3" metal deck screws. OSHA compliant installation only.

Compatible roof pitches: flat - sheer. Never install past sheer (such as on the underside of a beam).

Halo Anchor MUST install flush against substrate. All installation must be done under the supervision of a Competent Person.

- 1. Ensure all PFAS equipment is selected and deemed compatible with Halo Anchor by a Competent Person.
- 2. Select mounting location for Halo Anchor. Selected mounting location must withstand minimum application loads as specified by this instruction manual.
- 3. Make considerations for eliminating or minimizing swing fall hazards.





#### Installation:

- 1. Place Halo Anchor at selected installation location.
- 2. Install Halo Anchor in accordance with applicable substrate and fasteners. Screws must be installed in bottom, middle, and top fastener installation holes on each side of Halo Anchor. Nails must be installed in all fastener installation holes. All fasteners must be fully embedded in substrate.
- For installation into wood in the field, use (6)  $1/4'' \times 3''$  lag screws OR (12) 16d nails in applicable fastener installation holes.
- For installation into wood in the truss, use (6) 1/4'' x 3" lag screws OR (12) 16d nails in applicable fastener installation holes. All fastener installation holes must be positioned over truss. Screws must be used for ANSI 7359.18 compliant installation.
- For installation into metal, use (6) 1/4" x 3" metal deck screws in applicable fastener installation holes.
- 3. Halo Anchor may be removed and reinstalled in multiple installation locations. ALWAYS inspect Halo Anchor prior to each installation. ALWAYS use new fasteners for each new installation.
- 4. Attach complete and compatible PFAS to Halo Anchor O-ring. NEVER make attachments to any other part of Halo Anchor.
- \* Halo Anchor may be used in combination with a Horizontal Lifeline (HLL). HLL must be installed perpendicular to anchor plate. All set-up, installation, and use of HLLs must be done under the supervision of a Qualified Person.





# Maintenance, Cleaning, and Storage

If Halo Anchor fails inspection in any way, immediately remove it from service, and contact Guardian to inquire about its return or repair. Field serviceability testing is not required, and should not be done by the end user.

Cleaning after use is important for maintaining the safety and longevity of Halo Anchor. Remove all dirt, corrosives, and contaminants from Halo Anchor before and after each use. If Halo Anchor cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Halo 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 Halo 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 Halo 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 12 months, a Competent Person other than the user must inspect Halo 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 Halo Anchor has been subjected to.

# **Inspection Log**

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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 12 months. Competent Person to inspect and initial.

This inspection log must be specific to one Halo Anchor. Separate inspection logs must be used for each Halo 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												
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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



1-800-466-6385 • www.guardianfall.com Halo Anchor

Part #: 00482

Prior to use, read and understand all manufacturer's instructions provided with equipment at time of shipment.

Serial #:

Compliant with OSHA 1926 Subpart M Materials: zinc-plated steel and rubber OSHA 1910, ANSI A10.32-2012, and "Depending on application. Refer ANSI Z359.18-2017\* regulations. to instructions for more details

> 5,000 lb. MBS (minimum breaking strength). (including all equipment): 130-420 lbs Worker weight capacity range Type A anchorage connector.

Only make compatible connections. Refer to Minimum service temperature: -30° F. instructions for proper installation

done under the supervision of a Qualified Person All set-up, installation, and use of HLLs must be May be used in combination with HLLs. and connection methods.

# WARNING

Keep away from all potential hazards, including but not limited to, heat, electricity, chemicals, and sharp or abrasive edges and surfaces. MAXIMUM 1 attachment per Halo Anchor. 90137 (Rev. G) Made in China

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# **INSPECTION GRID**

Date of First Use: Competent Person to inspect and initial formal inspection every 12 months. User must inspect prior to EACH use Competent Person must complete

Product lifetime is indefinite as long as equipment passes pre-use and If equipment fails inspection Competent Person inspections

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