

GUARDIAN

FALL PROTECTION



Product Name: Skyhook Anchor

Part #: 00300; 00310; 00320; 00330; 00340

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 Skyhook 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 Skyhook Anchor, and all fall safety equipment used in combination with the Skyhook 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. 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.

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: Skyhook 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: Skyhook 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: Skyhook 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

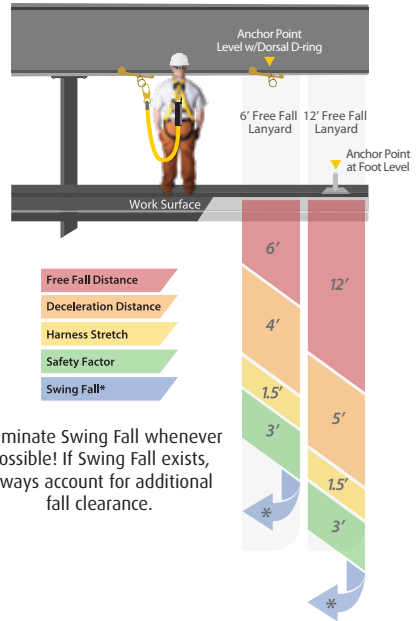
Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 3' safety factor, deceleration distance, user height, length of lanyard/SRL, harness stretch,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

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 closed and locked to D-ring. **OK.**



Two or more snap hooks or carabiners connected to each other. **NO.**



Connector to integral lanyard. **NO.**



Connector directly to webbing. **NO.**

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



Application that places load on gate. **NO.**

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

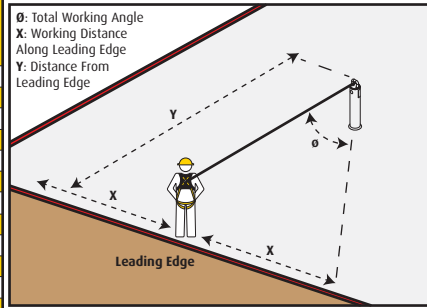


Connector directly to horizontal lifeline. **NO.**

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 (θ) |
|---------------------------------------|---|---|
| 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.

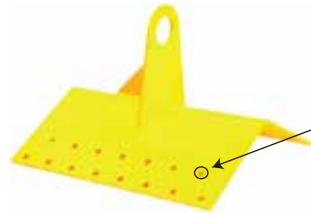
Components and Specifications

Type A anchorage connector.

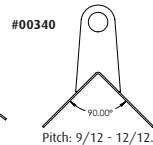
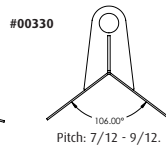
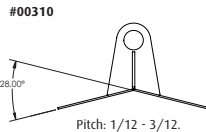
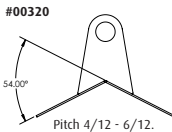
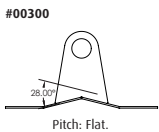
Minimum permitted service temperature: -30° F.

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

Materials: powder-coated steel.



Fastener Installation Holes (30 total, 15 per side)



Installation and Use

MINIMUM substrate requirements:

- Wood: 3/4" CDX plywood.
- Metal: 20 gauge.
- Concrete: 6" (must be 2,000 psi or greater).

Substrate fastener requirements:

- Wood: #14 x 10, 2" wood deck screws.
- Metal: #14 x 10, 2" metal deck screws.
- Concrete: 3½" concrete bolts.

Skyhook Anchor **MUST** install flush against substrate.

1. Determine desired location for anchor; ensure location is free of debris, rot, decay, cracking, and hazardous materials. NEVER install on gable ends, fascias, rake ends, overhangs, bottom cords, collar boards, spliced sections, or substrate incapable of withstanding application minimum loads. If unable to determine suitable installation location, consult jobsite Qualified Person.

2. Make considerations for eliminating or minimizing swing fall hazards.

3. ALWAYS measure roof pitch prior to installation. NEVER use Skyhook Anchor incompatible with roof pitch.

4. Skyhook Anchors **MUST** be placed a **MINIMUM 10'** from all leading edges of fall hazards.

5. Ensure all fasteners are those supplied by Guardian Fall Protection, or are deemed compatible by a Competent Person. All fastener installation holes **MUST** be filled. Installations must be done directly on substrate, and never through any intermediary substrates.

- If removing and reinstalling a Skyhook Anchor, fully inspect the anchor according to instruction inspection specifications. **DO NOT** reuse if any signs of damage or defects are found. **ALWAYS** use new fasteners for each new installation application.

6. Connect to Skyhook Anchor with complete and compatible PFAS.

7. Skyhook Anchor is rated for loading in any direction provided it is installed as prescribed. Suitable for use in HLL applications; see HLL installation instructions on pg. 5.

Skyhook Anchors must be properly flashed when used in permanent applications. It is the responsibility of the installer/roofer to properly flash this anchor.

Use Guardian Fall Protection flashing kit (#00352) with Skyhook Anchor:

1. Place large neoprene gasket at installation location.
2. Place Skyhook over large gasket.
3. Place small gasket over skyhook.
4. Install aluminum flashing over small gasket.



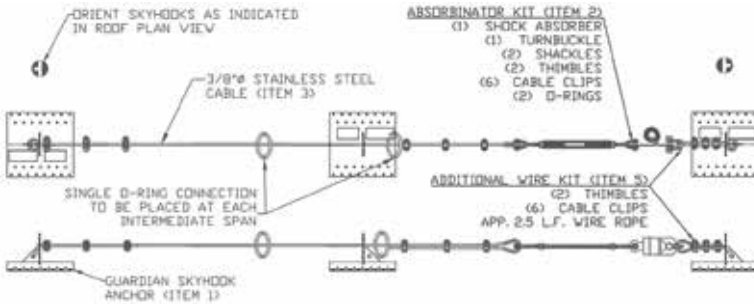
Skyhook Anchor Horizontal Lifeline (HLL) Systems:

1. Skyhook Anchors may be used in HLL applications.

2. For cable HLL systems, such as Guardian's Absorbator system, run cable through Connection Point of Skyhook Anchor, then run through gusset hole on back of the anchor and bring back through the Connection Point. See example Absorbator system below.



3. Run cable through series of Skyhook Anchor Connection Points, and terminate at Skyhook Anchor at end of desired run length. Secure cable by looping cable directly through Skyhook Anchor gusset hole and securing it itself with 3 compatible cable clamps; this will require Skyhook Anchor at end of span to be rotated 180° in relation to Skyhook Anchor at beginning of system. **ALL Connection Points of Skyhook Anchors in HLL system MUST be directly in line.**



Maintenance, Cleaning, and Storage

If Skyhook 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 Skyhook Anchor. Remove all dirt, corrosives, and contaminants from Skyhook Anchor before and after each use. If Skyhook Anchor cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Skyhook 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 Skyhook 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 Skyhook 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 Skyhook 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 Skyhook 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.

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| YR | | | | | | | | | | | | |
| YR | | | | | | | | | | | | |

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

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

| | |
|--|--|
|  <p>Part #: ██████████</p> <p>DOM: ██████████</p> <p>Serial #: ██████████</p> <p>Compatible roof pitch: ██████████</p> <p>Materials: Powder-coated steel. 90718 (Rev. B)</p> | <p>Prior to use, read and understand all instructions provided with equipment.</p> <p>Compliant with all OSHA 1910, OSHA 1926 Subpart M, ANSI Z359.18-2017, and ANSI A10.32-2012 regulations. Type A anchorage connector. 5,000 lb. MBS (minimum breaking strength). Capacity range: 130-420 lbs. (including all equipment) Only make compatible connections. Refer to instructions.</p> <p>All fasteners, equipment, and connections must be selected and deemed compatible with the Skyhook Anchor by a Competent Person. All fastener holes MUST be filled. Minimum substrate thickness requirements: Wood: 3/4" CDX plywood. Metal: 20 gauge. Concrete: 6" (2,000 psi or greater).</p> |
| | <div style="background-color: black; color: white; padding: 5px; display: inline-block;">WARNING</div> <p>Avoid contact with sharp and abrasive edges and surfaces. Avoid contact with all hazards, including, but not limited to, electrical shock, corrosive substances, and excessive heat.</p> |
| <p>www.guardianfall.com 6305 St. 231st St., Kent, WA 98032 1-800-466-6385</p> | |

| | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INSPECTION GRID | <p>User must inspect prior to EACH use. Competent Person must complete formal inspection every 6 months. Competent Person to inspect and initial.</p> <p>Date of First Use: _____ Product lifetime is indefinite as long as equipment passes pre-use and Competent Person inspections.</p> | | | | | | | | | | | | |
| | YR | J | F | M | A | M | J | J | A | S | O | N | D |
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If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE

DO NOT REMOVE LABELS