GUARDIAN
FALL PROTECTION



Product Name: Truss Boss Anchor

Part #: 00432; 00420; 00422; 00440; 00441; 00442

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 Truss Boss 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 Truss Boss Anchor, and all fall safety equipment used in combination with the Truss Boss 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 Z359.1-2007, and ANSI A10.32-2012 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state regulations if applicable. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

Worker Classifications

CAUTION 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.

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Product Specific Applications

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

Personal Fall Arrest: Truss Boss Anchor may be used to support a MAXIMUM 1 Personal Fall Arrest System (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: Truss Boss 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: Truss Boss 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.

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

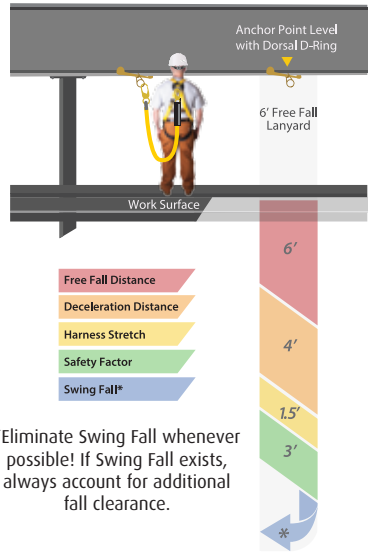
Limitations

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.

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.



*Eliminate Swing Fall whenever possible! If Swing Fall exists, always account for additional fall clearance.

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Compatibility: When making connections with Truss Boss 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 Truss Boss 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.**





Connector to integral lanyard. **NO.**

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





Connector directly to webbing. **NO.**

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







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

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



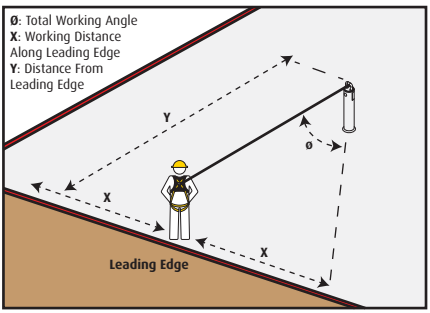




Correct Anchorage Positioning:

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.

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Components and Specifications

Materials:

Truss Boss Anchor: Zinc-plated steel.
Flashing: PVC or steel.
Cap: PVC.
Fasteners (12): Galvanized steel.

Anchor Cap



Flashing





Part #	Description
00432	Truss Boss Anchor
00420	Truss Boss Anchor Kit (Includes Weather Proof Cap & Flashing)
00422	Truss Boss Anchor Cap
00440	Tile Truss Boss Anchor Kit - Gray
00441	Tile Truss Boss Anchor Kit - Terracotta
00442	Tile Truss Boss Anchor Kit - Black

Installation and Use

Prior to installation, plan your system:

1. Ensure all PFAS equipment is selected and deemed compatible with Truss Boss Anchor by a Competent Person.

2. Select mounting location for Truss Boss Anchor. Selected mounting location must be compatible roof truss, rafter, or other structural member, and must withstand minimum loads as specified by this instruction manual.

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

4. Not for use in combination with horizontal lifelines (HLLs).

5. Truss Boss Anchor may be installed in either upright or inverted orientations.

WARNING Prior to installation, refer to anchorage positioning chart (pg. 3) to ensure installation location will satisfy intended work applications.

Installation:

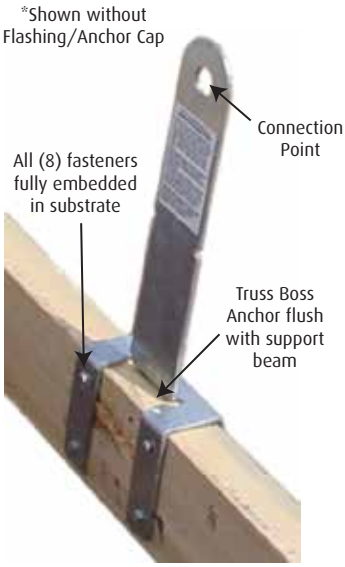
1. Place Truss Boss Anchor over selected installation application. Truss Boss Anchor must lie flush with substrate.

2. Install (8) provided nails in fastener installation locations on Truss Boss Anchor. All (8) nails must be fully embedded in substrate and sit flush against anchor.

3. If applicable, install Flashing. Place Flashing fully over Truss Boss Anchor Connection Point and push down until Flashing lies flush with substrate. At EACH corner of Flashing, 1" in from each side, install (1) nail through Flashing and fully embed into substrate.

4. If applicable, when Truss Boss Anchor is not in use, snap Truss Boss Anchor Cap in place over Connection Point. Prior to use, remove Anchor Cap.

5. Connect complete and compatible PFAS to Truss Boss Anchor Connection Point.



Maintenance, Cleaning, and Storage

If Truss Boss 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 Truss Boss Anchor. Remove all dirt, corrosives, and contaminants from Truss Boss Anchor before and after each use. If Truss Boss Anchor cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Truss Boss 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 Truss Boss Anchor for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, broken stitching, fraying, and missing or illegible labels. IMMEDIATELY remove Truss Boss 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 Truss Boss 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 Truss Boss Anchor have been subjected to.

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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 Truss Boss Anchor. Separate inspection logs must be used for each Truss Boss Anchor. All inspection records must be made visible and available to all users at all times.

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If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE.

Safety Information

WARNING

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

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1-800-466-6385

www.guardianfall.com

Truss Boss Anchor

Part #: 00432

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

Compliant with OSHA 1910, OSHA 1926 Subpart M, ANSI Z359.1-2007, and ANSI A10.32-2012 regulations.

Date of Manufacture:

Materials:
Zinc-plated steel.

Capacity Range:
130-420 lbs. (including all equipment).

All PFAS equipment must be selected and deemed compatible with Truss Boss Anchor by Competent Person.

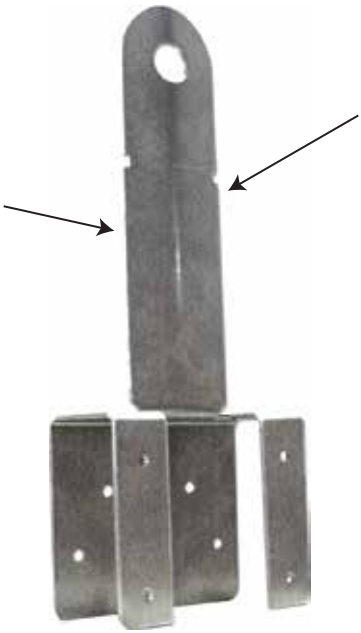
Only make compatible connections. Refer to instructions for proper connection methods.

WARNING

MAXIMUM 1 connection per anchor.

Avoid contact with hazards, including, but not limited to, heat, chemicals, electricity, and sharp or abrasive edges and surfaces.

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INSPECTION GRID

User must inspect prior to EACH use. Competent Person must complete formal inspection every 6 months. Competent Person to inspect and initial.

Date of First Use:

_____

Product lifetime is indefinite as long as equipment passes pre-use and Competent Person inspections.

	20__	20__	20__	20__	20__
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If equipment fails inspection, IMMEDIATELY REMOVE FROM SERVICE

DO NOT REMOVE LABELS

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