

GUARDIAN

FALL PROTECTION



Product Name: Parapet Anchor

Part #: 15171

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 Parapet 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 Parapet Anchor, and all fall safety equipment used in combination with the Parapet 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-specific regulations. Consult regulatory agencies for more information on fall protection 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



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



Personal Fall Arrest: Parapet Anchors 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: Parapet Anchors 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.



WARNING Use of equipment in unintended applications may result in serious injury or death. NEVER make any connections to guardrail systems.



Fall Prevention: Parapet Anchor Systems may be used in Fall Prevention applications. Fall Prevention Systems are placed around the leading edges of any and all fall hazards to prevent a worker from going over an edge, and may be used in substitute of Fall Protection or safety netting systems. Installation requirements for Parapet Anchor Systems set forth in this manual MUST be adhered to. Personal Fall Arrest, Work Positioning, Climbing, Rescue, and any other systems must NEVER be connected to Fall Prevention Systems.



WARNING DO NOT use simultaneously as Fall Arrest anchor and Fall Prevention system.



WARNING NEVER lean or climb on guardrail systems.

Surfaces more than 6' above lower levels require the use of a Fall Prevention or Fall Protection system.

Limitations

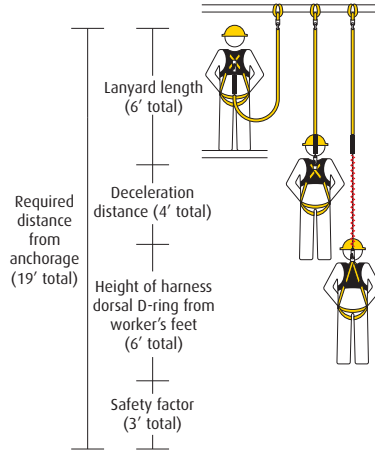
Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a **MINIMUM 3'** safety factor, deceleration distance, user height, length of lanyard/SRL, and all other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



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



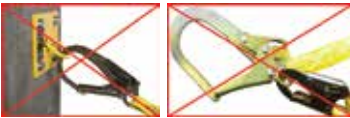
Connector to integral lanyard. **NO.**

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.**

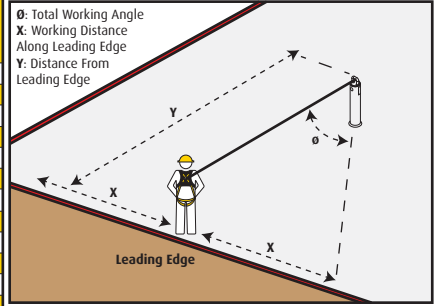
Two or more snap hooks or carabiners connected to each other. **NO.**



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.

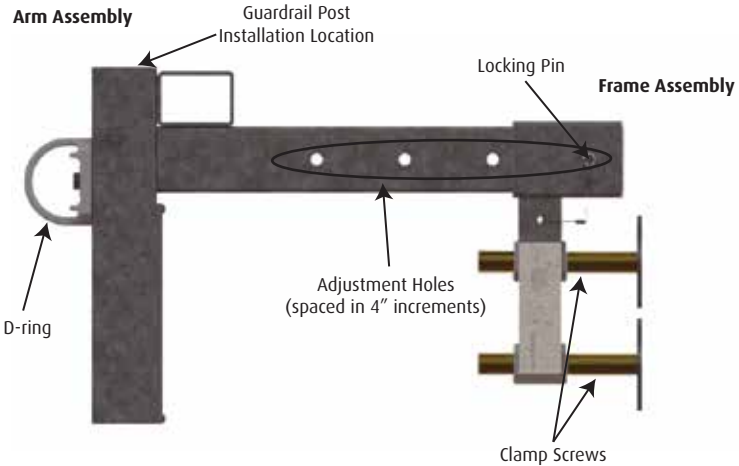
Anchor Distance From Leading Edge (Y)	Working Distance Along Roof Edge (Either Direction) (X)	Working Angle From Perpendicular (θ)
6'	8'	53°
10'	9' - 9"	45°
15'	11' - 7"	38°
20'	13' - 3"	33°
25'	14' - 6"	30°
30'	16'	28°
35'	17' - 2"	26°
40'	18' - 3"	24°
45'	19' - 4"	23°
50'	19' - 10"	21°
55'	21' - 4"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

Materials: zinc-plated steel, stainless steel, and rubber.



Installation and Use

Compatible parapet width: 4" - 20".

Minimum parapet wall height: 12".

MAXIMUM spacing between Parapet Anchors: 8'.

Prior to use, plan your system:

In Fall Prevention applications, all leading edges of fall hazards must be blocked, or a supplemental Fall Arrest system **MUST** be used in combination with, but never connected to, the applicable Fall Prevention system. **NEVER** use Parapet Anchors simultaneously in Fall Prevention and Fall Arrest applications.

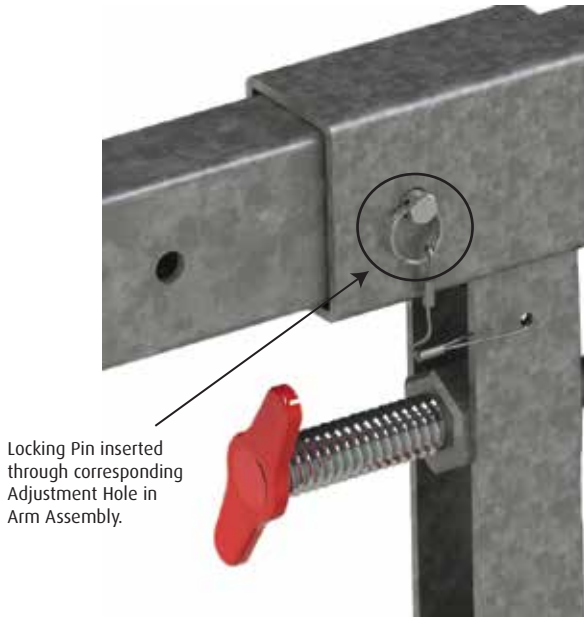
1. Selected work area must be free of all hazards, including, but not limited to, debris, rot, decay, cracking, and hazardous materials. **NEVER** install Parapet Anchors over gravel or other loose or slippery surfaces. Guardrail systems must be installed a **MINIMUM 10'** from power lines and all other electrical hazards.
2. All guardrail posts, guardrails, and all other equipment must be selected and deemed compatible by the jobsite Competent Person. All guardrails **MUST** be compatible 2" x 4" or 2" x 6" construction grade lumber, or compatible snap-on metal rails. Lumber guardrails **MUST** overlap at least 12" at each end.
3. Toprails must be 42" (+/- 3") above the work surface (not the parapet) or, if used in stilt work applications, 42" plus height of stilts.
4. Midrails must be halfway between the top edge of the guardrail system and the work surface (not the toeboard).
5. All intermediary rails (not the top rail or the midrail) must not allow for gaps greater than 19".
6. Toeboards are **REQUIRED** on surfaces with slopes more than 4/12 (vertical/horizontal).
7. Toeboards are **REQUIRED** if a risk exists for tools, equipment, materials, or other substances to fall down to a lower level.
8. Toeboards must be a minimum 3½" from their top edge to the work surface, and must not have greater than ¼" clearance between their bottom edge and the work surface. A parapet wall may function as a toeboard if deemed permissible by a Competent Person.
9. Lay out the job by measuring and spacing the location of Parapet Anchors on the work surface. Failure to properly measure and plan ahead may result in having to move and reinstall system components.

Installation:

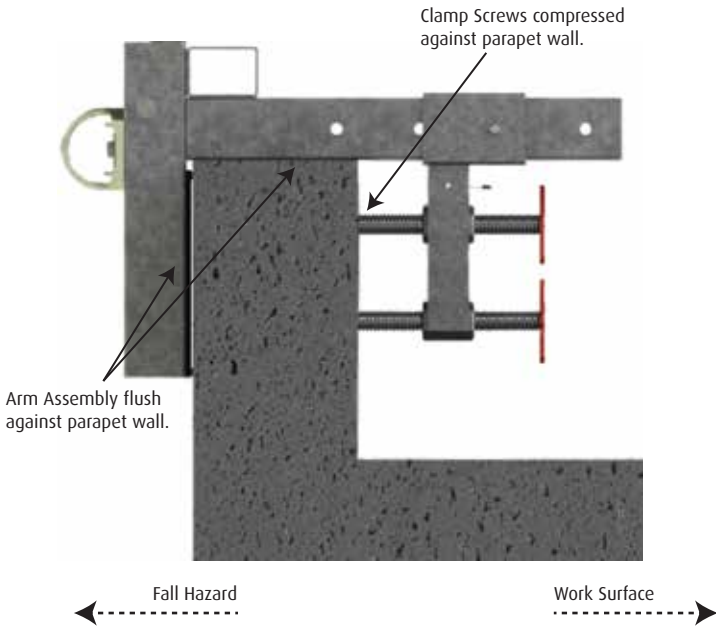
Parapet Anchors MUST be installed flush against parapet, and must allow guardrail posts to be positioned perpendicular to work surface.

Parapet wall MUST be deemed compatible with Parapet Anchor by a Competent Person.

1. Insert Parapet Anchor Arm Assembly through Frame Assembly, and adjust to closest possible width of corresponding parapet wall. Insert Locking Pin through corresponding Adjustment Hole in Arm Assembly.

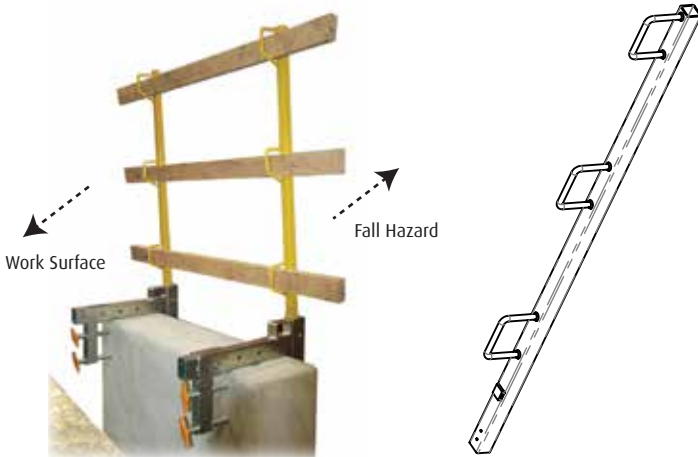


2. Place Parapet Anchor over parapet wall so D-ring faces out toward fall hazard, and Clamp Screws face in toward work surface.
3. Ensure Arm Assembly is flush against top and outside of parapet wall, then tighten both Clamp Screws until snug. Clamp Screws must compress against parapet wall until snug.
4. Repeat steps 1-3 for all Parapet Anchors.
5. Parapet Anchor is now suitable for use in Fall Arrest Applications. Attach complete and compatible PFAS to Parapet Anchor D-ring ONLY.

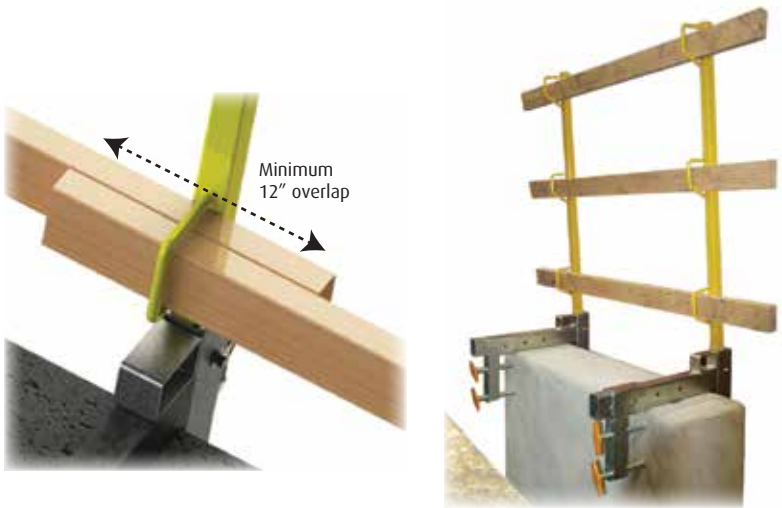
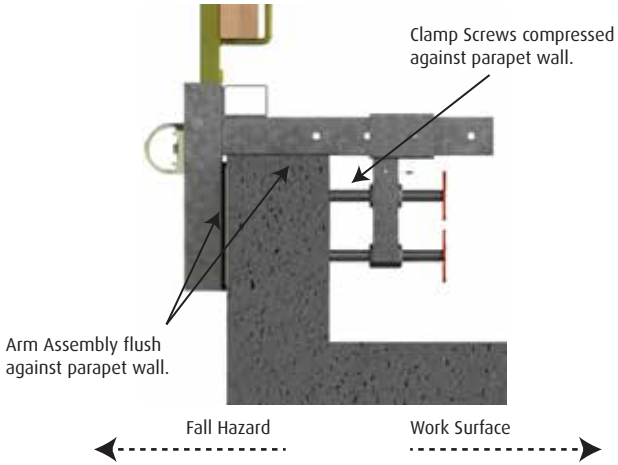


If Parapet Anchors are to be used in Fall Prevention applications, continue with the following guardrail installation instructions:

1. Install all guardrail posts in Parapet Anchor Guardrail Post Installation Locations. Guardrail post rungs **MUST** face in toward work surface.



2. Install all guardrails. Guardrails may be 2" x 4" or 2" x 6" construction grade lumber, or compatible snap-on metal rails. If using lumber guardrails, lap guardrails in a continuous direction. Lumber guardrails must overlap a minimum of 12" at each end between consecutive guardrail posts.



Maintenance, Cleaning, and Storage

If Parapet 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 Parapet Anchor. Remove all dirt, corrosives, and contaminants from Parapet Anchor before and after each use. If Parapet Anchor cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Parapet 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 Parapet 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 Parapet 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 Parapet 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 Parapet Anchor has 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 Parapet Anchor. Separate inspection logs must be used for each Parapet 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



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

<small>980274 Rev. 08 Made in China</small> GUARDIAN <small>FALL PROTECTION</small> Parapet Anchor Part #: 15171 Date of First Use/ Fecha del Primer Uso: <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																																																												1-800-466-6385 www.guardianfall.com 6305 S. 231st St. Kent, WA 98032	Capacity Range/Amplia Capacidad: 130-310 lbs. (59-140 kg). Materials: Zinc-coated steel. Forged steel alloy D-ring. Materiales: Acero-zincado. Aleación de acero forjado D-ring. WARNING Prior to use, read and understand all instructions provided at time of shipment from manufacturer. ADVERTENCIA Antes de su uso, lea y comprenda todas las instrucciones que al momento del envío del fabricante.	Inspection: Inspect prior to each use. This product must be inspected at least monthly by a Competent Person, as defined by instruction manual. Remove product from service if inspection reveals product to be defective or unsafe. Not user repairable. Inspección: Inspección antes de cada uso. Este producto debe ser inspeccionado al menos una vez al mes por una persona competente, según se define en el manual de instrucciones. Retirar el producto de servicio si la inspección revela producto resulta defectuoso o inseguro. El usuario no puede reparar. Proper Use: Refer to instruction manual regarding making proper connections. Keep lifeline away from all sharp or abrasive edges and surfaces. Do not use product near chemical, electrical, or thermal hazards. See instruction manual for additional information. El Uso Correcto: Consulte el manual de instrucciones en cuanto a hacer las conexiones correctas. Manténgase lejos línea de vida de todos los bordes afilados o abrasivos y superficies. No utilice el producto cerca de los peligros químicos, eléctricos o térmicos. Consulte las instrucciones del manual para obtener información adicional.

