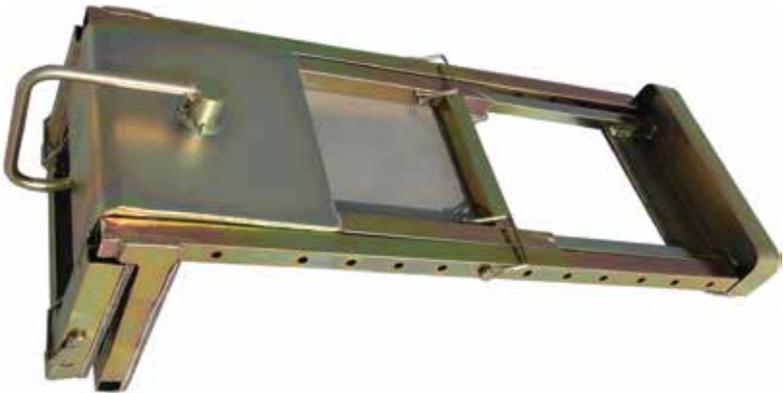


GUARDIAN

FALL PROTECTION

PERFORMANCE SAFETY GEAR



Product Name: The Rack

Part #: 15169

Instruction Manual

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

Table of Contents

Introduction	1-2
Worker Classifications	2
Safety Information	3-4
Maintenance, Cleaning, and Storage	5
Inspection	5
Product Specific Applications	6
Limitations	7-9
Components and Specifications	10
Installation and Use	11-12
Labels	13
Inspection Log	14
Notes	14

Introduction

Thank you for purchasing a Guardian Fall Protection The Rack. 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 Rack, and all fall safety equipment used in combination with The Rack.

User Information	
Date of First Use:	_____
Serial #:	_____
Trainer:	_____
User:	_____

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.

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.

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

Forces applied to anchors must be calculated by a Competent Person.

Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration.

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.

Maintenance of equipment must be done according to manufacturer's instructions. Equipment instructions must be retained for reference.

Prior to EACH use, all equipment in a fall protection system must be inspected for any potential or existing deficiencies that may result in its failure or reduced functionality. IMMEDIATELY remove equipment from service if any deficiencies are found.

Equipment must be inspected by a Competent Person at least every six months. These inspections must be documented in equipment instruction manual and on equipment inspection grid label.

Equipment must be inspected for defects, including, but not limited to, the absence of required labels or markings, improper form/fit/function, evidence of cracks, sharp edges, deformation, corrosion, excessive heating, alteration, excessive wear, fraying, knotting, abrasion, and absence of parts.

Equipment that fails inspection in any way must immediately be removed from use, or repaired by an entity approved by the manufacturer.

No on-site repair of equipment unless explicitly permitted by Guardian Fall Protection.

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

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.

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.

Allowable individual worker weight limit (including all equipment), unless explicitly stated otherwise, is 130-310 lbs.

Maintenance, Cleaning, and Storage

Repairs to The Rack can only be made by a Guardian Fall Protection representative or an entity authorized by Guardian. Contact Guardian for all maintenance and repair needs at: 1-800-466-6385. If The Rack 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 The Rack. Remove all dirt, corrosives, and contaminants from The Rack before and after each use. If The Rack cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean The Rack 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

KEEP INSTRUCTIONS AVAILABLE FOR REFERENCE. Record Date of First Use.

Prior to EACH use, inspect The Rack 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 The Rack from service if defects or damage are found. Prior to EACH use, inspect all rope to be used in combination with The Rack.

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 The Rack. **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 The Rack has been subjected to.

Product Specific Applications



The Rack is not a component of a PFAS, and **MUST ALWAYS** be used in combination with a complete and compatible PFAS. **NEVER** make attachments to Suspension Bar other than those specified by this instruction manual.

The Rack is intended to be installed over a compatible parapet wall to assist in window washing applications, and prevent fraying or breaking of suspension and tie-back ropes.

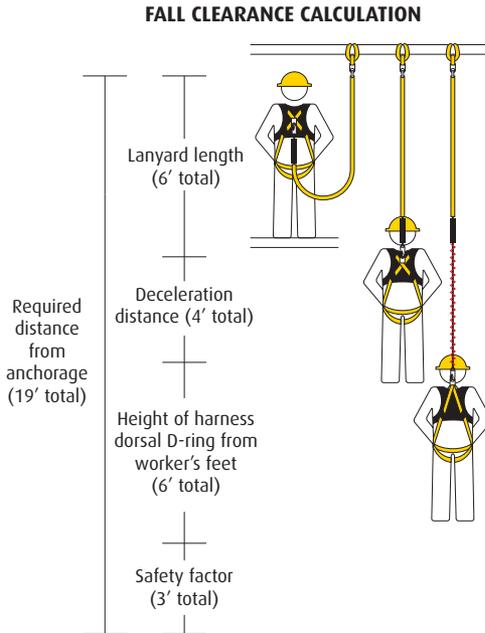
PFAS must function to allow worker to operate in Work Positioning applications. PFAS must limit maximum free fall to 2', average arrest forces to 900 lbs., and maximum arrest forces to 1,800 lbs. **MAXIMUM** PFAS lanyard length is 2'.

**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, 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 PFAS connections, 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 The Rack 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 or more snap hooks or carabiners connected to each other. **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.**



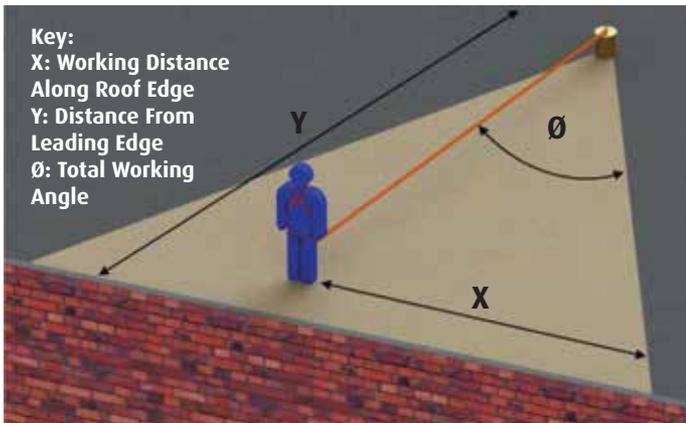
Connector directly to horizontal lifeline. **NO.**

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°

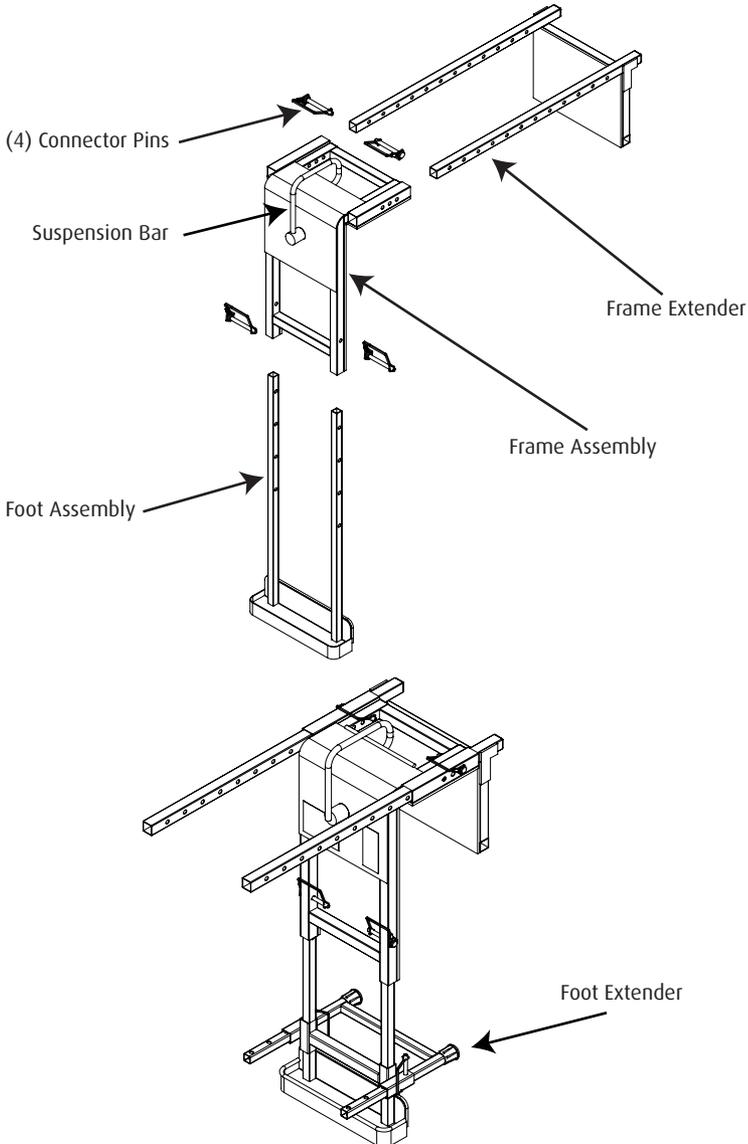
For example, if the anchorage connector is 6' from the leading edge (Y), the working distance (X) is 8' in each direction from the perpendicular, which translates to a 53° working angle.



Components and Specifications

Materials: galvanized steel.

Weight: 35 lbs.



Installation and Use

The Rack is a welded steel frame for placement on a building's parapet, and functions to assist in window washing applications. Parapet must withstand loads of at least 5,000 lbs., as determined by a Qualified Person.

Prior to Installation:

1. Optional foot extender is for use on parapets with an overhang of 12" or less.
2. Make considerations for eliminating or minimizing swing fall hazards.
3. Extreme care must be taken when using descent equipment near electrical sources, heat, and turbulent or unstable areas, such as air vents.
4. All PFAS equipment must be deemed compatible by a Competent Person. Always read and understand all PFAS equipment instructions.
5. Compatible with parapets between 10" - 24" wide. NEVER attempt to attach to parapets wider than 24". Parapet must be at least 10" in height. After installation, The Rack must be fully flush and fully set on parapet.
6. Window washing ropes must not be used longer than 2 years from Date of First Use, or 3 years from Date of Manufacture. On descents exceeding 130', provisions must be made for continuous suspension, intermittent suspension, or for a work station. Descents must never exceed 300'.

Installation:

1. Remove (4) Connector Pins and set Frame Assembly aside.
2. Extend Foot Assembly to desired length. Suggested distance is 4' below top of parapet.
3. If parapet has overhang, remove Foot Assembly from Frame Assembly and slide optional Foot Extender onto Foot Assembly, adjusting its length to accommodate the overhang. Then, re-insert Foot Assembly into Frame Assembly.
4. Install (2) Connector Pins to connect Foot Assembly to Frame Assembly.
5. Slide Frame Extender into Frame Assembly to location where The Rack will fit snugly onto the parapet, then connect them with (2) remaining Connector Pins.
6. Attach safety line to certified anchor point with minimum breaking strength 5,000 lbs. **THIS ANCHOR POINT MUST BE SEPARATE FROM THE ANCHOR POINT THE TIE-BACK ROPE WILL BE ATTACHED TO.** Safety line must be directly in line with anchor point.
7. If parapet is 42" or lower, attach to safety line before coming within 6' of fall hazard. ALWAYS use complete and compatible PFAS.



8. Attach compatible tie-back rope to Suspension Bar on The Rack. Then, attach tie-back rope to certified anchor point with minimum breaking strength 5,000 lbs. **THIS ANCHOR POINT MUST BE DIFFERENT THAN THE ANCHOR POINT THE SAFETY LINE IS ATTACHED TO.**

9. **Ensure all Connector Pins of The Rack are fully secured. Pay special attention to the secure attachment of the Foot Assembly.**

10. Place The Rack onto parapet, adjust Frame Extender if needed, and ensure The Rack fits snugly on parapet. To do so, remove Connector Pins, adjust Frame Extender, and re-insert Connector Pins.

• Attach tie-back rope to Suspension Bar with one of the following options:
a) doubled bowline knot, b) figure-eight knot, or c) carabiner with minimum breaking strength of 5,000 lbs.

• Knot must not reduce minimum breaking strength of tie-back rope to below 5,000 lbs.

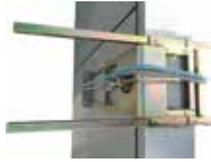
11. Let down tail of tie-back rope to ground.

12. Let down tail of safety line to ground.

13. Attach compatible descent control device and bosun chair to tie-back rope as close to Suspension Bar as possible.

14. With harness attached to safety line and bosun chair attached to tie-back rope, step over parapet, and stand on Foot Assembly while holding onto Frame and/or Frame Extender.

15. Before releasing grip on The Rack, slowly sink down until firmly seated on bosun chair. Pay special attention to use of descent control device and rope grab.



Labels

GUARDIAN
FALL PROTECTION
PERFORMANCE SAFETY GEAR

1-800-466-6385
6305 S. 231st St., Kent, WA 98032
www.guardianfall.com

The Rack

Part #: 15169

Date of Manufacture:

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

Materials: galvanized steel.

Capacity Range: 130-310 lbs.
(including all equipment).

Refer to instructions for proper installation and use.

WARNING

Eliminate all risk of roll-out in PFAS. NEVER use incompatible connectors.

NEVER connect PFAS to The Rack. For window washing line protection ONLY.

NEVER allow lifeline contact with sharp or abrasive surfaces or edges.

NEVER allow contact with hazards, including, but not limited to, heat, electric shock, or corrosive chemicals.

ALWAYS maintain 100% tie-off.

90148 (Rev. B)

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.

YR MO	20__	20__	20__	20__	20__
J					
F					
M					
A					
M					
J					
J					
A					
S					
O					
N					
D					

If equipment fails inspection
IMMEDIATELY REMOVE FROM SERVICE

DO NOT REMOVE LABELS

Inspection Log

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.

Date of First Use: _____. Product lifetime is indefinite as long as it passes pre-use and Competent Person inspections.

This inspection log must be specific to one The Rack. Separate inspection logs must be used for each The Rack. 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.

Notes
