

# GUARDIAN

## FALL PROTECTION



## Product Name: Guardrail Receiver

Part #: 15158; 15159; 15188; 61027; 61029; 61140; 61141

## 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 Guardrail Receiver. 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 Guardrail Receiver, and all fall safety equipment used in combination with the Guardrail Receiver.

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 and OSHA 1910 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 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



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



**Fall Prevention:** Guardrail Receiver may be used in Fall Prevention applications ONLY. 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 Guardrail Receiver 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** 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.**

## Components and Specifications

Made from some or all of the following materials: powder-coated steel, galvanized steel, and high strength plastic.

Part #	Materials	Description
15158	Powder Coated Steel	Guardrail Receiver for use with Guardrail Posts
15159	Stainless Steel	Guardrail Standard Gusset Mount
15188	High Strength Plastic	Guardrail Angel Boot
61027	Stainless Steel	Extended Guardrail Gusset Mount
61029	Powder Coated Steel	Guardrail Receiver for use with 2" x 4" Boards
61140	Powder Coated Steel	Stair Mount for use with Guardrail Posts
61141	Powder Coated Steel	Stair Mount for use with 2" x 4" Boards



#15158



#15159



#15188



#61027



#61029



#61140



#61141

## Installation and Use

Prior to use, plan the entire Fall Prevention system. All leading edges of fall hazards must be blocked, or a supplemental Fall Protection system **MUST** be used in combination with, but never connected to, the applicable Fall Prevention system.

1. Selected work area must be free of all hazards, including, but not limited to, debris, rot, decay, cracking, and hazardous materials. **NEVER** install Guardrail Receiver on top of gravel or other loose or slippery surfaces. Guardrail systems must be installed a **MINIMUM** 10' from power lines and all other electrical hazards.
2. Lay out the job by measuring and spacing the location of Guardrail Receiver on the work surface. Failure to properly measure and plan ahead may result in having to move and reinstall system components.
3. Guardrail Receivers may be spaced a **MAXIMUM** of 8' apart.
4. All guardrail posts, guardrails, and all other equipment must be selected and deemed compatible by a Competent Person. All guardrails **MUST** be compatible 2" x 4" or 2" x 6" construction grade lumber, or compatible snap-on metal rails.
5. Top-rails must be 42" (+/- 3") above the work surface or, if used in stilt work applications, 42" plus height of stilts.
6. Mid-rails must be halfway between the top edge of the guardrail system and the working level (not the toeboard).
7. All intermediary rails (not the top-rail or the mid-rail) must not allow for gaps greater than 19".
8. Toeboards are **REQUIRED** on surfaces with slopes more than 4/12 (vertical/horizontal).
9. Toeboards are **REQUIRED** if a risk exists for tools, equipment, materials, or other substances to fall down to a lower level.
10. 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.



For all Guardrail Receiver, fasteners **MUST** be completely embedded in substrate, and **MUST** be those provided by Guardian Fall Protection, or be deemed compatible with applicable Guardrail Receiver by a Competent Person.

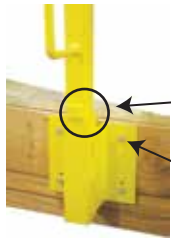
Guardrail Receiver **MUST** be installed flush against substrate, and must allow guardrail posts to be positioned perpendicular to work surface.

Competent Person must ensure substrate is of sufficient strength and is compatible with applicable Guardrail Receiver.

See the following for model-specific instruction examples and requirements:



#15158



Guardrail post perpendicular to work surface.

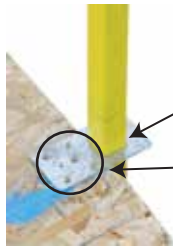
(4) Fasteners must be fully embedded into side wall.

- Fasteners for wood:  $\frac{1}{4}$ " x 2" lag bolts.
- Fasteners for metal:  $\frac{1}{4}$ " x 2" lag bolts.
- Fasteners for concrete:  $\frac{1}{4}$ " x  $1\frac{3}{4}$ " Hex Head Tapcon screws.



#15159

#61027



Guardrail post rests flush against side wall when inserted through Guardrail Receiver.

(5) Fasteners must be fully embedded into substrate.

- Fasteners for wood: 16d nails or #10 2" screws.
- Fasteners for metal: #10 2" metal deck screws.
- Fasteners for concrete:  $\frac{3}{16}$ " x  $1\frac{3}{4}$ " Hex Head Tapcon screws.



#15188



Top-rail installed 42" (+/- 3") above work surface.

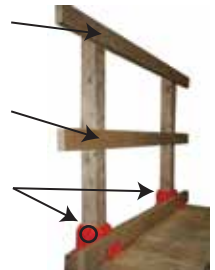
Mid-rail installed level across posts, and halfway between top edge of guardrail system and work surface.

(2) 2" x 4" boards inserted vertically in each Guardrail Receiver, and secured on each side with compatible fastener.

Toeboard installed in applicable location of Guardrail Receiver.

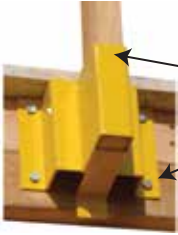
(6) Fasteners must be fully embedded into substrate.

- Fasteners for wood:  $\frac{1}{4}$ " x 2" lag bolts.
- Fasteners for metal:  $\frac{1}{4}$ " x 2" lag bolts.
- Fasteners for concrete:  $\frac{1}{4}$ " x  $1\frac{3}{4}$ " Hex Head Tapcon screws.





#61029



2" x 4" board perpendicular to work surface.

(4) Fasteners must be fully embedded into side wall.

- Fasteners for wood: 1/4" x 2" lag bolts.
- Fasteners for metal: 1/4" x 2" lag bolts.
- Fasteners for concrete: 5/16" x 2" Hex Head Tapcon screws.



#61140



Guardrail posts and rails installed in a manner compliant with requirements specified by this manual.



(4) Fasteners must be fully embedded substrate.

- Fasteners for wood: 1/4" x 2" lag bolts.
- Fasteners for metal: 1/4" x 2" lag bolts.
- Fasteners for concrete: 5/16" x 2" Hex Head Tapcon screws.



#61141



2" x 4" board inserted vertically in each Guardrail Receiver, and secured on each side with compatible fastener.

(4) Fasteners must be fully embedded substrate.

- Fasteners for wood: 1/4" x 2" lag bolts.
- Fasteners for metal: 1/4" x 2" lag bolts.
- 3/16" x 1 3/4" Hex Head Tapcon screws.

Toeboard installed in applicable location of Guardrail Receiver. Use compatible fastener to hold in place.

## Maintenance, Cleaning, and Storage

If Guardrail Receiver 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 Guardrail Receiver. Remove all dirt, corrosives, and contaminants from Guardrail Receiver before and after each use. If Guardrail Receiver cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Guardrail Receiver 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 Guardrail Receiver 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 Guardrail Receiver from service if defects or damage are found.

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 Guardrail Receiver. **Competent Person inspections MUST be recorded in inspection log in instruction manual. 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 Guardrail Receiver 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.**

**This inspection log must be specific to one Guardrail Receiver. Separate inspection logs must be used for each Guardrail Receiver. 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.**

## 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.