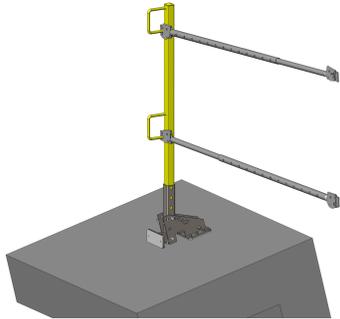


GUARDIAN

FALL PROTECTION

PERFORMANCE SAFETY GEAR



Guardian Fall Protection Kent, WA
800-466-6385 www.guardianfall.com

GENERAL SYSTEM SELECTION CRITERIA: Selection of fall protection shall be made by a Competent Person. All fall protection equipment shall be purchased new and unused.

The equipment is designed for use as a part of a personal fall protection system. Components shall not be used for any other operation other than that which it has been designed and approved.

Fall Protection Systems shall be designed to comply with OSHA or applicable state regulatory limitations. Systems must be used in a compliant manner.

This is not a fall arrest or fall restraint system and is not designed for use as an attachment point for a personal fall arrest system.

Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform setup of equipment. Age, fitness, and health conditions can seriously affect the worker should a fall occur. Pregnant women and minors should not use this equipment.

GUARDIAN ALLIGATOR GUARDRAIL SYSTEM

Part Numbers:

15167	15163
61075	61074

READ AND UNDERSTAND BEFORE USING EQUIPMENT!

This manual should be read and understood in its entirety, and used as part of a training program as required by OSHA or any applicable state regulatory agency.

This and any other included instructions must be provided to the users of the equipment. The user must understand the proper equipment use and limitations.

This product meets all applicable OSHA standards for guardrail systems.

WARNING!

DO NOT:

- Do not alter or misuse this equipment unless approved by manufacturer.
- Do not use combinations of components or subsystems that may affect or interfere with the safe, compatible function of each other.
- Do not expose the equipment to chemicals which may produce a harmful effect or degrade the equipment. Consult manufacturer in cases where doubt exists.
- Do not use the equipment around moving machinery or electrical hazards unless specifically designed for such use.
- Do not use the equipment around sharp edges or abrasive surfaces unless intended for such use.

TRAINING REQUIREMENTS: The employer shall provide a training program for each employee who might be exposed to fall hazards. The program shall enable each employee to recognize the hazards of falling and shall train each employee in the procedures to be followed in order to minimize these hazards. Relevant Federal, State, and local regulatory requirements, procedures, and standards shall also be a part of training.

The employer shall ensure that each employee has been trained, as necessary, by a Competent or Qualified Person in the nature of fall hazards in the work area, the correct erecting, maintaining, disassembling, and inspection of the fall protection systems being used, and the use of personal fall arrest systems.

RESCUE PLAN: The user is required to have a rescue plan and the means at hand to implement it when using the equipment. The plan shall be project specific. Employees shall be trained in self-rescue or alternate means shall be provided for prompt rescue in the event of a fall.

IF EQUIPMENT IS SUBJECTED TO A FALL: Remove the equipment from service immediately if it has been subjected to the forces of a fall. Contact your distributor or Guardian about policies regarding replacement of Guardian components involved in a fall.

INSPECTION:

- Only the manufacturer of this equipment or persons or entities authorized in writing by the manufacturer shall make repairs to fall protection equipment.
- The date of first inspection should be recorded by the employer on the equipment, and any serial numbers shall be recorded on the Inspection Log.
- Formal inspections shall be made by either a Competent or Qualified Person on at least a semi-annual basis.

PRIOR TO EACH USE:

- Fall protection passive and active equipment shall be inspected by the user for defects, damage, or deterioration.
- Any suspected defective equipment shall be removed from service.
- If the manufacturer's label is not legible or is missing, the equipment shall be removed from service. Fall protection equipment shall be removed from service upon evidence of defects, damage, or deterioration, or upon expiration of the manufacturer's specified service limits, whichever comes first.

WARNING!

Consult with your doctor if there is reason to doubt your fitness to safely install and maintain this system or cause it to engage. Age, fitness, and health conditions can seriously affect a worker's ability to withstand injury. Pregnant women or minors must not use any Guardian Fall Protection equipment.

MAINTENANCE, CLEANING, AND STORAGE: Repairs to equipment can be made only by a Guardian representative or person authorized by Guardian. Contact Guardian for maintenance and repair. Cleaning after use is important for maintaining the safety and life of the equipment. Cleanse the equipment of all dirt, corrosives, and contaminants. If the equipment cannot simply be wiped clean use a mild soap and rinse, wipe to dry. Store equipment where it cannot be affected by heat, light, excessive moisture, oil, chemicals, or other degrading elements.

DESCRIPTION OF PRODUCT:

The Guardian Alligator Guardrail System provides fall protection in the forms of a guardrail for use in lieu of or in conjunction with safety netting and/or personal fall arrest systems. Components are zinc plated steel or powder coated steel.

PRODUCT APPLICATION INFORMATION:

The G-Rail Guardrail system is designed to be used as a fall protection system to protect workers from leading edge work, unprotected side hazards, holes, and any applicable other fall through or fall hazard where a passive guardrail system can perform properly. Do not hang, lift or support tools or equipment from any G-Rail Guardrail System components.

- **GUARDRAIL SYSTEMS:** Provide protection and limited access to fall hazards by creating a barrier that must be negotiated before accessing the hazard.
- **PERSONAL FALL ARREST:** Means the product is used as a component of a personal fall arrest system to protect the user in the event of a fall. PFAS typically include a full body harness and a connecting component (energy absorbing lanyard) Maximum permissible free fall is six feet. **ALLIGATOR SYSTEMS ARE NOT RATED FOR FALL ARREST!**
- **RESTRAINT:** Means the product is used as a component of a restraint system to prevent the user from reaching a fall hazard. Restraint systems typically include a full body harness and a lanyard or restraint line. No vertical free fall is permitted. **ALLIGATOR SYSTEMS ARE NOT RATED FOR FALL RESTRAINT!**
- **WORK POSITIONING:** Means the product is used as a component of a work positioning system to support the user at work position. Work positioning systems typically include a full body harness, positioning lanyard, and a back-up personal fall arrest system. Maximum permissible free fall is two feet. **ALLIGATOR SYSTEMS ARE NOT RATED FOR WORK POSITIONING!**
- **RESCUE:** This product **IS NOT RATED for use as a component of a rescue system.**

APPLICABLE STANDARDS:

Refer to potential applicable standards. Standards might include OSHA regulations depending on the type of work, and also might include state regulations if applicable. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

- **Alligator Guardrail Systems, when installed properly, meet OSHA 29 CFR-1910.23 & 1926.502 requirements for guardrail systems.**
 - Exceeds top rail loading of 200 lbs in any downward or outward direction.
 - Exceeds mid rail loading of 150 lbs in any downward or outward direction.

SYSTEM REQUIREMENTS:

- **Compatibility of Components:** Guardian Fall Protection equipment is designed to be used with Guardian approved components. Please contact Guardian if you have a question regarding compatibility. Making substitutions without approval from Guardian Fall Protection may lead to injuries and or death by compromising the safety and reliability of the complete system.

WARNING!

INSTALL THE GUARDRAIL SYSTEM ACCORDING THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS IN AN OSHA COMPLIANT MANNER. SERIOUS INJURY OR DEATH CAN OCCUR IF INSTRUCTIONS ARE NOT FOLLOWED

CONSULT APPLICABLE OSHA and STATE REGULATIONS BEFORE USING!

Users and installers must be familiar with applicable guidelines before erecting the Alligator Guardrail System.

DEFINITIONS:

- **CONTINUOUS RUN:** A single or series of Alligator Guardrail sections installed in a continuous uninterrupted straight line.
- **TOEBOARD:** A near ground level protective barrier that will prevent materials and equipment from falling or rolling to lower levels. Maximum allowable gap between toeboard and work surface: 1/4". Minimum height of toeboard: 3--1/2". Must withstand a minimum load of 50 lbs.
- **GUARDRAIL:** A barrier secured to uprights and erected along the exposed sides and ends of platforms to prevent falls of persons.
- **LEADING EDGE:** The edge of a floor, roof, or formwork for a floor or other walking / working surface (such as the deck) which changes location as additional floor, roof or deck, or formwork sections are placed or constructed. A leading edge is considered to be an unprotected side and edge.
- **UNPROTECTED SIDE AND EDGE:** Any side or edge (except at entrance points of access) of a walking / working surface. For example but not limited to: Floors, roof, ramps, or runways where there is no wall or guardrail system.
- **COMPETENT PERSON:** Defined by 29 CFR 1926.32 (f) as someone "...capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them."
- **QUALIFIED PERSON:** Defined by 29 CFR 1926.32 (m) as someone "... who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated his ability to solve or resolve problems relating to the subject matter, work, or the project."

WARNING!

INSTALL THE ALLIGATOR GUARDRAIL SYSTEM ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS IN AN OSHA COMPLIANT MANNER. SERIOUS INJURY OR DEATH CAN OCCUR IF INSTRUCTIONS ARE NOT FOLLOWED.

- **A FORMAL INSPECTION of products/components must be performed at least every six months by a competent person. The frequency of formal inspections should be based on conditions of use or exposure. Record the inspection results in a maintenance log.**
- **All applications of the Alligator Guardrail System should be verified and approved by competent, trained safety personnel.**
- **If it is necessary to remove the Alligator Guard Rail System during a portion of a particular job, make sure to re-secure the unit before resuming work.**

WARNING!

MAKE SURE YOU HAVE READ AND UNDERSTAND THIS INSTRUCTION PACKET BEFORE ATTEMPTING TO INSTALL ALLIGATOR GUARDRAIL SYSTEMS!

BEFORE INSTALLING GUARDRAIL SYSTEMS:

- The structure and surface that the Alligator Guardrail System is intended to be used with must be capable of supporting the product and personnel installing it. A complete assessment by a competent or qualified person must be made to determine if the walking and working surfaces have the strength and structural integrity to support the system and the users.
- Install Alligator Guardrail Systems on stable, flat, dry, clean surfaces under conditions where adequate illumination is provided. If there is a danger in installing the Guardrail System, determine how to eliminate that danger before proceeding.
- Never install or use Alligator Guardrail Systems on top of gravel or on slippery surfaces. The weight of the base plates requires that the material underneath does not have the capability to shift or slide.
- Never erect the Alligator Guardrail Systems near electrical wires. Keep systems a minimum of ten (10) feet from power lines to prevent injury or damage inherent with electrical hazards.
- Care should be taken when transporting system components to ensure that they are secure and do not cause damage to other components or personnel.

COMPONENTS OF THE ALLIGATOR GUARDRAIL SYSTEM:

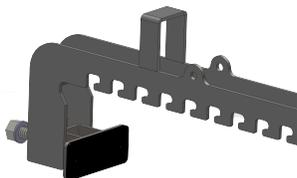
Mount



Guardrail Base



Parapet Adapter



Locking Pins



WARNING!

Failure to install and use in a compliant manner, or violation of manufacturer's recommendations, can result in serious injury or death. Installations should be verified by a qualified person for strength by calculation in the intended direction(s) or intended use.

TRAINING:

It is the responsibility of the user and the purchaser of this equipment to assure that they are familiar with these instructions, trained in the correct care and use of, and are aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

PRIOR TO INSTALLATION

SUBSTRATE LIMITATIONS:

- The Guardian Alligator Guardrail System may only be installed on roofs with pitches of 3:12", 6:12", and 9:12". DO NOT use on roofs with pitches of 12:12", or 15:12".

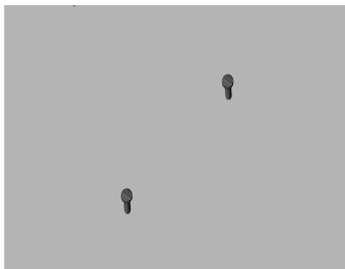
- Minimum substrate thickness requirements:

Wood: 1/2" CDX plywood or better.

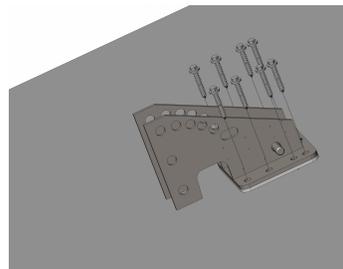
Metal: 24 gauge or better.

INSTALLATION INSTRUCTIONS

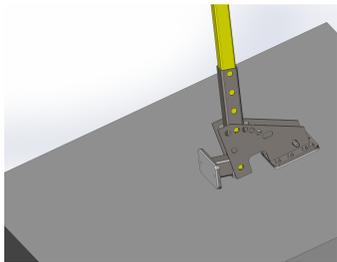
PITCHED AND BARREL ROOF APPLICATION:



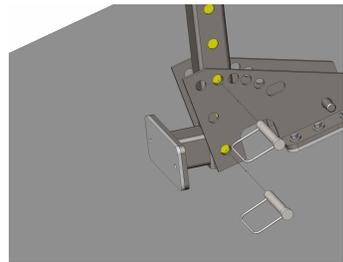
1) Place the mount in desired location. Mark the two teardrop shaped holes and insert two nails but leave them sticking up about 1/4". Place the mount on the the nails and slide into locking position.



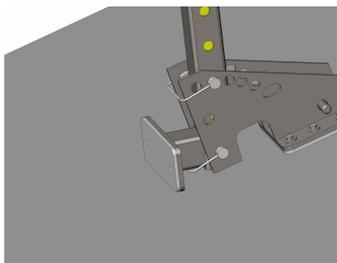
2) Install (8) 1/4" x 2" fasteners into the holes as shown in the picture. If going into plywood, it must be 1/2" CDX or better. If metal, it must be 24 gauge or better. If concrete, use a fastener such as a Tapcon® screw.



3) Slide the guardrail base into the mount as shown in the illustration.

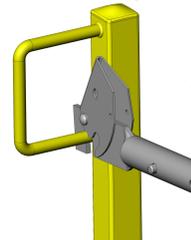


4) Align the post so that it sits vertically. Insert the pins as shown in the illustration to lock it in place. Applicable for roof pitches of: 3:12", 6:12" and 9:12" (vertical:horizontal) ONLY.

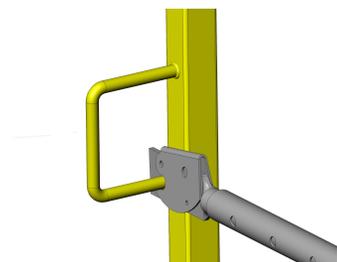


5) Once the pins are installed, your assembly should resemble this.

system.



6) Install the Snap On Metal Rail over the lower part of the bracket as shown in the illustration.



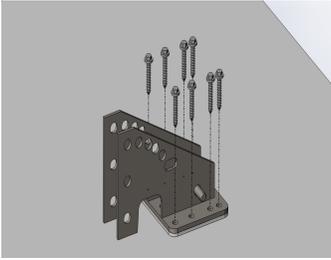
7) Rotate the latch down and lock the rail into place. Repeat steps 1 through 7 for each guardrail section.

USE OF 2" X 4" LUMBER

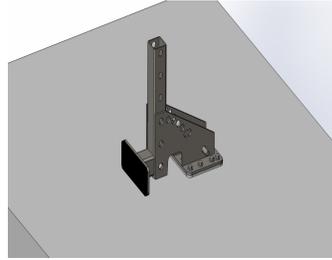
When using 2" x 4" lumber, skip steps 6 and 7. Choose lumber that is one foot longer than your distance between stanchions. Slide the lumber through the rung on the stanchion so that it overlaps the lumber on the following rungs. Continue this for the entirety of your guardrail

INSTALLATION INSTRUCTIONS

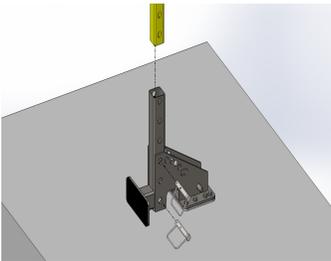
FLUSH MOUNT ROOF APPLICATION:



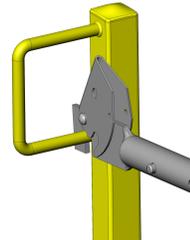
1) Install (8) 1/4" x 2" fasteners into the holes as shown in the picture. If going into plywood, it must be 1/2" CDX or better. If metal, it must be 24 gauge or better. If concrete, use a fastener such as a Tapcon® screw.



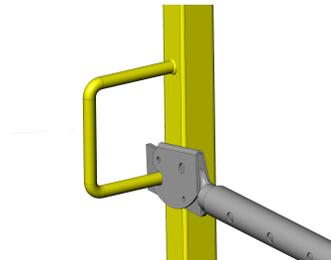
2) Insert the guardrail receiver into the base that you have just fastened to the roof deck. Align with holes so that it sits 90 degrees to the roof deck.



3) Slide the guardrail into the guardrail receiver and pin into place as shown in the illustration. Make sure pins are secure.



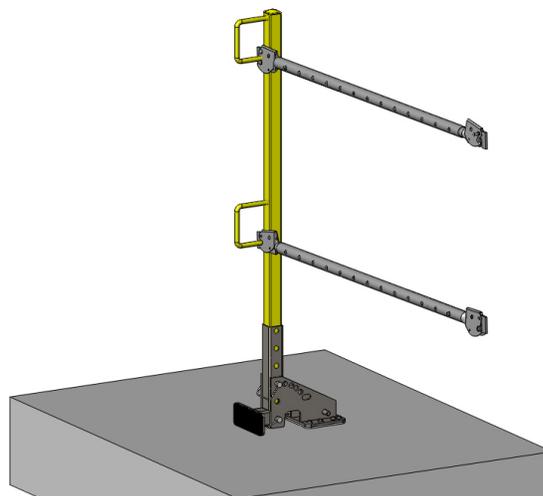
4) Install the Snap On Metal Rail over the lower part of the bracket as shown in the illustration.



5) Rotate the latch down and lock the rail into place. Repeat steps 1 through 5 for each guardrail section.

USE OF 2" X 4" LUMBER

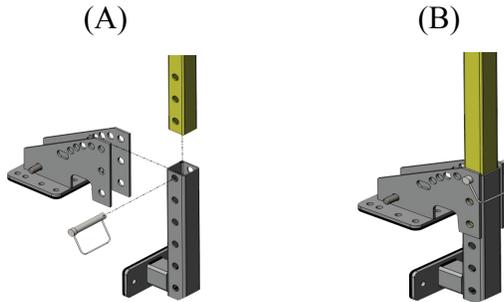
When using 2" x 4" lumber, skip steps 6 and 7. Choose lumber that is one foot longer than your distance between stanchions. Slide the lumber through the rung on the stanchion so that it overlaps the lumber on the following rungs. Continue this for the entirety of your guardrail system.



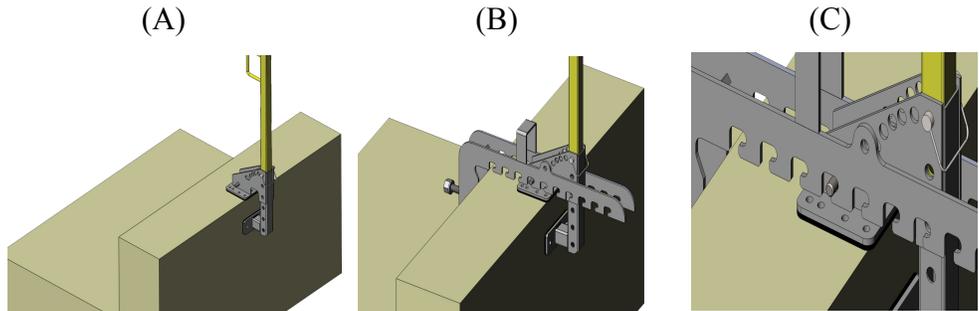
INSTALLATION INSTRUCTIONS

PARAPET WALL APPLICATION: PARAPET THICKNESS RANGE IS 4" (MIN) TO 24" (MAX)

1) Assemble the mount, base and guardrail post together as shown in the picture before setting it on the wall. This will allow you a better working area.

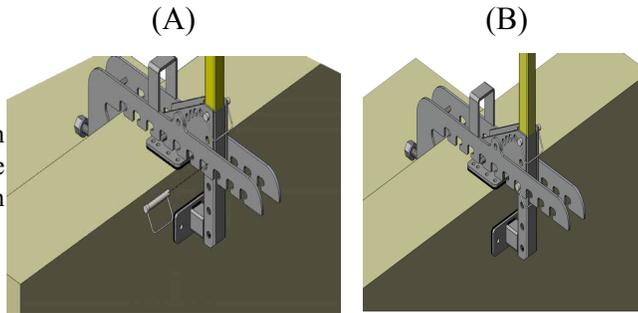


2) Place your assembly that you completed in step one on the inside of the parapet. Place the parapet adapter over the pins on the assembly that best fits your parapet. Slide the adapter so that it locks into place as shown in illustration (C).

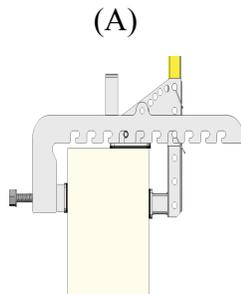


NOTE: Make sure the fine adjustment screw is all the way out to leave you the most adjustability.

3) Insert second locking pin through the hole which is now located in the teeth of the parapet adapter shown in illustration (A) and (B).



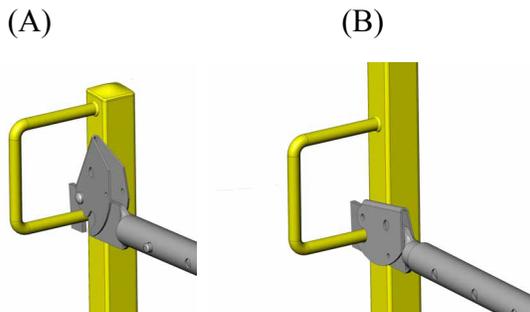
4) Tighten the fine adjustment screw on the left side of illustration (A) snug and then hand tight with a wrench, do not overtighten or you may damage the parapet.



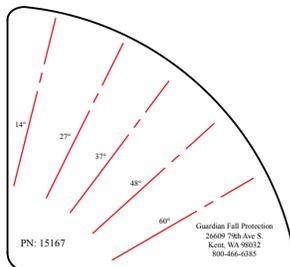
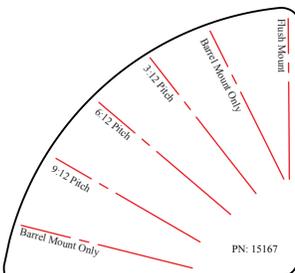
USE OF 2" X 4" LUMBER

When using 2" x 4" lumber, skip step 6. Choose lumber that is one foot longer than your distance between stanchions so that there is a 6 inch overhang on each end. Slide the lumber through the rung on the stanchion so that it overlaps the lumber on the following rungs. Continue this for the entirety of your guardrail system.

6) Install the Snap On Metal Rail over the lower part of the bracket as shown in the illustration (A) and then slide the bracket down to lock as shown in illustration (B)



These labels must be present at all times.



⚠ WARNING	
Always insure that the parapet bracket is locked and secured in place before use. Read and fully understand the instructions supplied with this product at the time of shipment from the manufacturer. Inspect this product before each use and remove from service if any part of this product fails inspection. The Alligator Guardrail System is not to be used as an anchor point and only as a passive fall arrest system used in accordance with the supplied instructions.	
PN:15167	Guardian Fall Protection - 800-466-6385

Guardian Fall Protection, Inc.
800-466-6385