

Use these instructions as part of a training program required by OSHA and any applicable state agency. The user must understand how to safely use the Universal and UCC (Universal Compression Clamp) Guardrail Systems and all safety equipment used in combination with the guardrails. The Universal and UCC Guardrails may be used as temporary or permanent guardrail systems.

The employer must assign a highly trained and experienced competent person to be responsible for all elements of a fall safety program, including the regulation, management, and application as it relates to the use of the Universal Guardrails and related systems.

Safety Information

Serious injury, bodily harm, or death may result if there is a failure to understand and comply with safety regulations. These instructions are not all-inclusive. They are for reference only and not intended to replace a competent person, knowledge, or judgment of Federal and State Standards. Consult the new OSHA rule (Walking-Working Surfaces, 1910.28) as well as local, State, and Federal OSHA rules.

Workplace conditions including, but not limited to, weather conditions, corrosive chemicals, potential electrical hazards, sharp objects/surfaces, and slope of a surface must be evaluated by a competent person before equipment is selected, installed, and work begins. Do not misuse equipment. Do not alter equipment. Unprotected leading edges and sides that are 6 feet or more above the next lowest level require the use of guardrails, safety nets, or personal fall protection devices. Never lean or climb on a guardrail.

Inspection of the Universal/UCC Guardrails must take place routinely at intervals not to exceed 6 months. A competent person other than the end user must be responsible for the inspection of the Universal/UCC Guardrail Systems. All inspections must be recorded by a competent person who must sign their initials and date (month/year) in the appropriate box on the inspection grid decal for the month and year the inspection was conducted.

Prior to installation/set-up of the guardrail system, a competent person must develop a system layout plan.

1. Evaluate the roof surface to confirm that the Guardrail System will not be installed on top of gravel or slippery surfaces.
2. Measure the work surface area to be protected, and space the guardrail bases accordingly (10 ft. centers for long runs, 7-1/2 ft. and/or 5 ft. centers where required).
3. All guardrail bases must be located a minimum distance of 12 in. from a "no curb"/parapet leading edge or opening. If the work location has a curb or parapet edge, the guardrail base can be placed perpendicular against the rise of the structure.
4. Always be aware of all electrical hazards (ELECTRICITY KILLS). A minimum safe distance of 10 ft. away from power lines and other electrical hazards must be maintained at all times.
5. Guardrail bases must be oriented correctly with the Universal Guardrails installed perpendicular. Toe boards are installed parallel to the guardrails.
6. Guardrail bases must be installed in a continuous run and completely block all applicable leading edges of potential fall hazards. Do not attempt to relocate a fully assembled system.
7. Guardrail Outriggers **MUST** be used at both ends of any interruption in continuous guardrail sections or at both ends of a continuous guardrail section. See back for example.
8. A Guardrail Outrigger is installed perpendicular to a continuous guardrail run.
IMPORTANT: Guardrail bases must be placed perpendicular to the orientation of the guardrails. The base can be orientated with long or short edge pointed to the direction of the leading edge. To minimize trip hazards, install short end of base away from leading edge.

Assembly and Use

1. Place all guardrail bases around the leading edge of the fall hazard area, and space the guardrail bases at approximate lengths of the corresponding length of guardrail (10', 7.5', and 5').
2. When assembling the guardrails into the guardrail bases, position the guardrails between the fall hazard and the installer's work area. Position one leg of each guardrail into the outermost guardrail base retaining tube. Maintaining the guardrail positions between the installer's body and the fall hazard edge, position the tube into the adjacent guardrail base retaining tube.
3. Once each guardrail tube has been inserted into the guardrail base, secure the tube to the base following the instructions on the back, depending on your base model.
4. Install toe-boards if and whenever required.

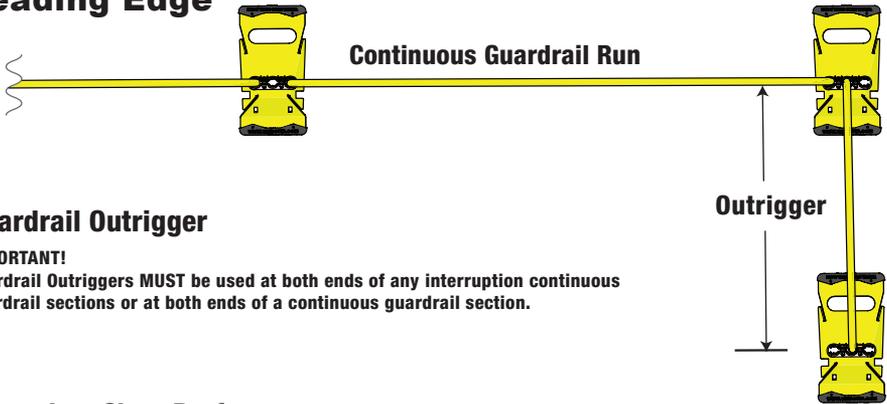


WARNING: This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more information go to: www.P65Warnings.ca.gov

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Leading Edge



Guardrail Outrigger

IMPORTANT!

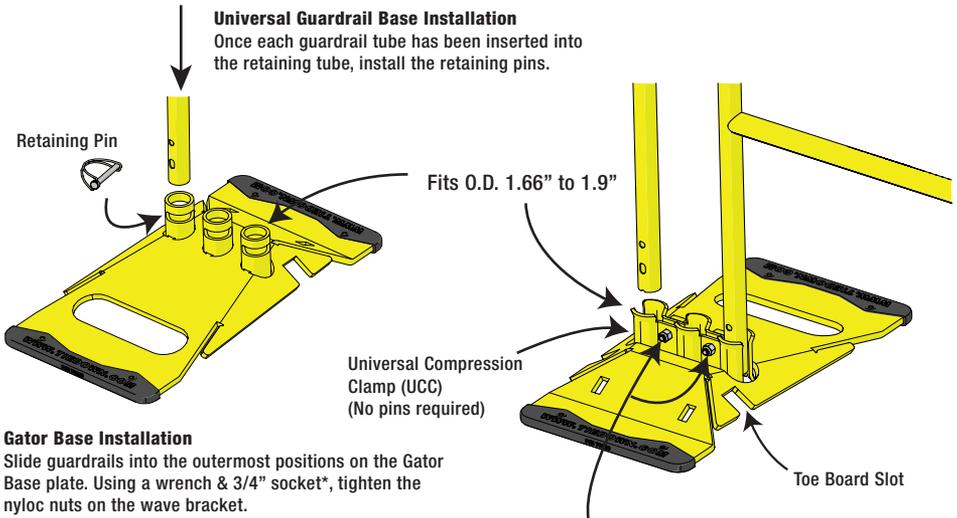
Guardrail Outriggers **MUST** be used at both ends of any interruption continuous guardrail sections or at both ends of a continuous guardrail section.

Use on Low Slope Roofs

The Universal and UCC Guardrail Systems by Tie Down can be used on a low slope roof up to a 2:12 pitch. When bases are installed on a roof with a low slope of 2:12, an additional 5 ft. rail, guardrail base, and outrigger must be placed every 20 ft. Follow all other installation instructions of the Tie Down's Guardrail Systems. If you have any questions, please contact Tie Down.

Universal Guardrail Base Installation

Once each guardrail tube has been inserted into the retaining tube, install the retaining pins.



Gator Base Installation

Slide guardrails into the outermost positions on the Gator Base plate. Using a wrench & 3/4\" socket*, tighten the nyloc nuts on the wave bracket.

* It is recommended to use a impact wrench with 3/4\" socket for a quicker more convenient installation.



Toe Board Requirements & Tie Downs Adjustable Toe Board Assembly Instructions

TIE DOWN
MANUFACTURING INGENUITY

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