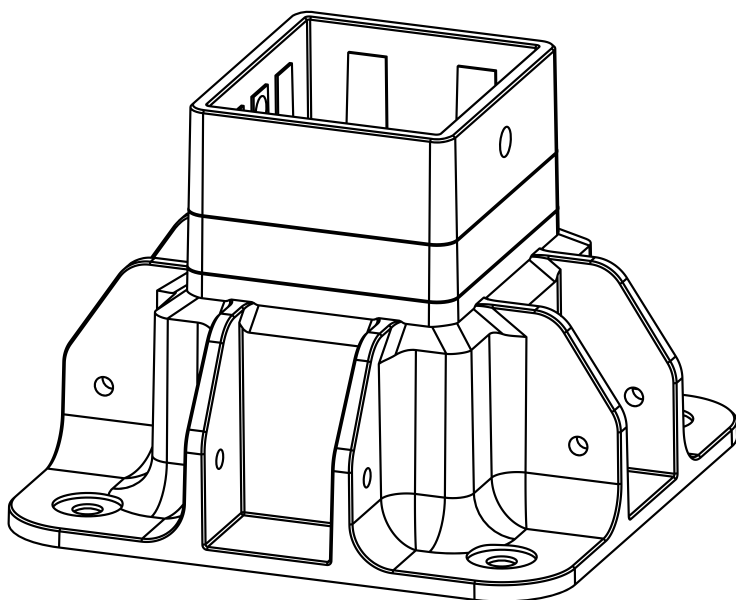




SAFEWAZE

025-13001 to 025-13006

Guardrail Base Manual



STANDARDS	
ANSI	N/A
OSHA	1926.502, 1910.29

This manual intends to meet the Manufacturer's Instructions specified by the American National Standards Institute (ANSI) and should be utilized as part of an employee training program as required by the Occupational Safety and Health Administration (OSHA).

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

**Always verify the latest revision of the Safewaze Manual is being utilized.
Visit the Safewaze website, or contact Customer Service, for updated manuals.**

⚠ IMPORTANT:

- Please refer to this manual for essential instructions on the use, care, or suitability of this equipment for your application. Contact Safewaze for any additional questions.
- Record all important product information prior to use. Documentation of all Competent Person annual inspections is required in the Inspection Log.

▶ USER INFORMATION

Date of First Use: _____

Serial Number: _____

Trainer: _____

User: _____

▶ SAFETY INFORMATION AND PRECAUTIONS

- The manufacturer's instructions must be provided to users of this equipment.
- The user must read, understand, and follow all safety and usage information contained within this manual.
- The user must safely and effectively use the product and all equipment used in conjunction with the product.
- Failure to follow all safety and usage information can result in serious injury or death.

Warnings:

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.

The warnings indicated below are designed to minimize risk associated with the use of the Guardrail Base.

- Women who are pregnant and individuals considered minors must not use any Safewaze equipment.
- Failure to follow these instructions and warnings could result in serious injury or death.
- A preplanned rescue procedure in the event of a fall is required. The rescue plan must be specific to the project. The rescue plan must allow for employees to rescue themselves, or to be promptly rescued by alternative means.
- All individuals installing the guardrail system shall be fully protected by a personal fall arrest system while working near an open edge.
- Do not mix and match this product with other guardrail bases.
- Do not use sheet metal screws to anchor the Guardrail Base directly into steel decking.
- Do not alter or misuse equipment. Only Safewaze, or entities authorized in writing by Safewaze, may make repairs to Safewaze fall protection equipment.
- A Competent Person must conduct an analysis of the workplace and anticipate where workers will be conducting their duties, the route they will take to reach their work, and any existing and potential fall hazards. The Competent Person must choose the fall protection equipment to be utilized. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased in new and unused condition.
- Training of Authorized Persons to correctly install, inspect, disassemble, 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.
- Avoid moving machinery, sharp and/or abrasive edges, and any other hazard that could damage or degrade the component.

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► 1.0 INTRODUCTION

Thank you for purchasing a Safewaze Guardrail Base. This product is designed for passive fall prevention applications (4' for general industries, 6' for construction industry) to support wooden guardrail systems for residential and commercial use.

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 manual and any other instructional material must be available to the user of the equipment. Every user must be trained in the inspection, installation, operation, and proper usage of the anchor.

► 2.0 APPLICABLE SAFETY STANDARDS

When used according to instructions, this product meets **OSHA 1926.502** and **1910.29** regulations. Other regulations under OSHA, state, and/or local safety programs may apply. The employer is responsible for ensuring that all erected guardrail systems comply with OSHA or other regulatory agencies' minimum standards.

Applicable standards and regulations depend on the type of work being done and may include state-specific regulations. Refer to local, state, and federal requirements for additional information on the governing of occupational safety regarding Personal Fall Arrest Systems (PFAS).

► 3.0 WORKER CLASSIFICATIONS

Read and understand the definitions of those who work in proximity of, or may be exposed to, fall hazards:

Qualified Engineer: A person with a Bachelor of Science in Engineering degree from an accredited college or university. They are able to assume personal responsibility for the development and application of engineering science and knowledge in the design, construction, use, and maintenance of their projects.

Qualified Person: One who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience, has successfully demonstrated their ability to solve or resolve problems relating to the subject matter, the work, or the project.

Competent Person: One who is 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.

Authorized Person: A person approved or assigned by the employer to perform a specific type of duty or duties, or to be at a specific location or locations, at the jobsite.

It is the responsibility of a Qualified Person or Engineer to supervise the jobsite and ensure safety regulations are met.

► 4.0 PRODUCT SPECIFICATIONS

- Designed for **passive fall prevention** applications (4' for general industries, 6' for construction industry) to support wooden guardrail systems for residential and commercial use.
- Meets the OSHA standard capacity of 200 lbs. (90.7 kg).
 - OSHA Standard 1926.502(b)(3) states, "Guardrail systems shall be capable of withstanding, without failure, a force of at least 200 pounds (890 N) applied within 2 inches (5.1 cm) of the top edge, in any outward or downward direction, at any point along the top edge."
- Can be installed on wood, plywood, or concrete surfaces.
- Features: stackable, integrated toeboard slots, molded metal washers in installation holes, high-visibility reflective label, and laser-engraved plate with QR code access to product information.
- Dimensions: 7½" x 7½" x 6" (19 cm x 19 cm x 15.2 cm)
- Item Weight: 2.0 lbs. (0.9 kg) per unit
- Materials:
 - Base= Nylon with Glass Fibers and UV Inhibitor Base
 - Washers= 304 Stainless Steel
 - Label Plate= Aluminum
- Sizes:
 - 025-13001= Guardrail Base: 2 Pack
 - 025-13002= Guardrail Base: 12 Pack
 - 025-13003= Guardrail Base: 24 Pack
 - 025-13004= Guardrail Base: 48 Pack
 - 025-13005= Guardrail Base: 324 Pack (½ Pallet)
 - 025-13006= Guardrail Base: 648 Pack (Pallet)

► 5.0 WOOD RAILING REQUIREMENTS

- Shall be minimum 1,500 lb-ft/in(2) fiber (stress grade) construction grade lumber
- Posts shall be at least 2" by 4" (5 cm by 10 cm) lumber.
- Posts shall be spaced no more than 8 ft. (2.4 m) apart on centers.
- Top rails shall be at least 2" by 4" (5 cm by 10 cm) lumber.
- Mid rails shall be at least 1" by 6" (2.5 cm x 15 cm) lumber. 2x4s can be used for mid rails.

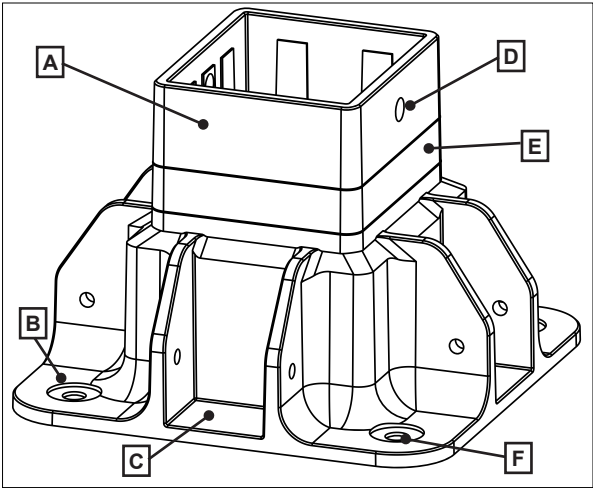
► 6.0 FASTENER SPECIFICATIONS

Never use unspecified fasteners or nails for Guardrail Base installation. Washers are embedded into base.

- For Solid 2X Wood Applications Use:
 - (4) Hex-Head Lag Screws, ¾" x 2"
 - Anchor directly into solid 2X wood using the four corner holes of the base.

- For 1-1/8" Thick Plywood Applications Use:
 - » (5) Hex-Head Lag Screws, 3/8" x 2"
 - » Anchor directly into 1-1/8" Thick Plywood using the four corner holes of the base. Add a 5th screw on the inside of the Guardrail Base in the hole provided.
- For Plywood Less Than 1-1/8" Thick Applications Use:
 - » (4) Hex-Head Lag Screws, 3/8" x 3"
 - » Anchor through plywood into floor joints or solid 2x wood blocking on the underside of the subfloor using the four corner holes of the base.
- For Concrete Applications Use:
 - » (4) Common Masonry Fasteners/Similar Concrete Anchors
 - » Anchor using the four corner holes of the base.

► 7.0 BASE COMPONENTS



Components			
A	Base	D	2x4 Installation Hole
B	Corner Installation Hole	E	Label
C	Toeboard Slots	F	Embedded Washer

► 8.0 PRIOR TO INSTALLING THE GUARDRAIL BASE

Prior to installing the base, select a suitable location that will provide proper strength (must exceed 200 lbs. OSHA Guardrail Requirement) for the installation of the base for Fall Prevention. Ensure that the screws and substrate can withstand the minimum required load of 200 lbs. for each section of the system. The work location should be free of debris/materials/equipment that could interfere with the proper operation of this equipment. Inspect the intended installation location for hazards that include, but are not limited to, excessive corrosion, edges, cracks, wood rot, severe weathering, electrical hazards, etc. Do not use wet or oversized lumber for guardrail posts.

► 9.0 INSTALLATION OF THE GUARDRAIL BASE

Step 1. Assemble the Guardrail Posts using (Stress Grade) Construction Grade Lumber:

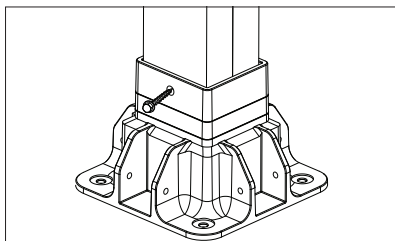
1. Cut 2x4 wood into two 42" lengths.
2. Fasten the two pieces of wood together using screws or nails to form one post.
3. Place one end of the post into the top of the Guardrail Base. Tap until the bottom of the post is flush with the bottom of the Guardrail Base.
4. Anchor the post to the Guardrail Base using one Hex-Head Lag Screw (washer is optional).

Step 2. Place Assembled Posts and Guardrail Bases Along Unprotected Sides or Edges:

1. Place assembled posts and Guardrail Bases in-line along unprotected edges of walking/working surfaces (landings, stairways, balconies, roofs, elevator shafts, etc.).

***Notes on placement of posts:** The space between the posts shall not exceed 8 ft. (2.4 m). If required, leave at least 4" (10 cm) of room for drywall installation. Post placement shall be a maximum of 18" (46 cm) on center away from permanent wall structures.

2x4s INSTALLED IN GUARDRAIL BASE:

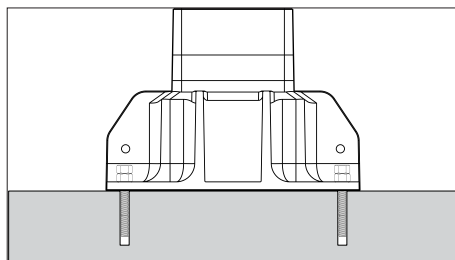


Step 3. Anchor Assembled Posts and Guardrail Bases to Subfloor Surface:

1. Securely fasten the Guardrail Bases to the subfloor surface using the specified fasteners (see Section 6). Do not use nails to anchor the bases.

***Notes on Concrete Substrate:** Concrete must be 3,000 psi, or higher, with a minimum 6 inches fully cured. The user must reference the manual of the used concrete anchor fastener for other installation requirements and strength ratings.

CONCRETE INSTALLATION:



Step 4. Fasten Top Rails and Mid Rails to Posts:

1. Fasten top rails and mid rails to posts using screws or nails.

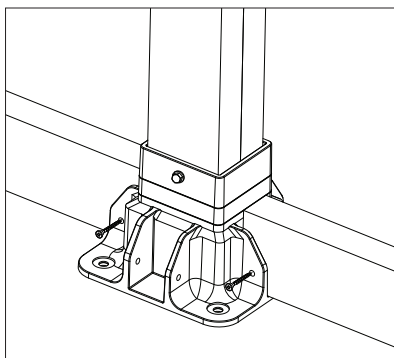
***Notes on placement of top rails and mid rails:** For guardrails and landings, the top railings shall be flush with the top of the posts (42" or 107 cm). For stair rails and hand rails, the top railings shall be attached to the posts at approximately 39-40" (99-102 cm). All mid rails shall be fastened halfway between the top railing and the flooring. For terminal (end) system, the railings shall always extend past the posts and shall stop 4" (10 cm) from any permanent structure. However, when there is no permanent structure, the ends of the rails must stop at the terminal post to prevent a projection hazard.

Step 5. Insert Toeboards into Guardrail Bases:

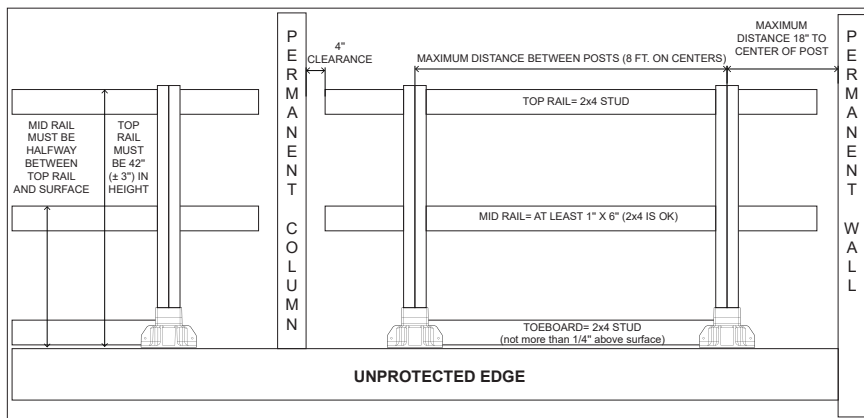
1. Cut 2x4 wood to fit tightly between two posts.
2. Drop the cut pieces of wood into the integrated toeboard slots of the Guardrail Bases. Optional: use a standard wood screw of any length to fasten the toeboard to the Guardrail Base.

***Note on toeboards:** Toeboards must not be more than 1/4" above the surface. Toeboards are not required on stair rail systems.

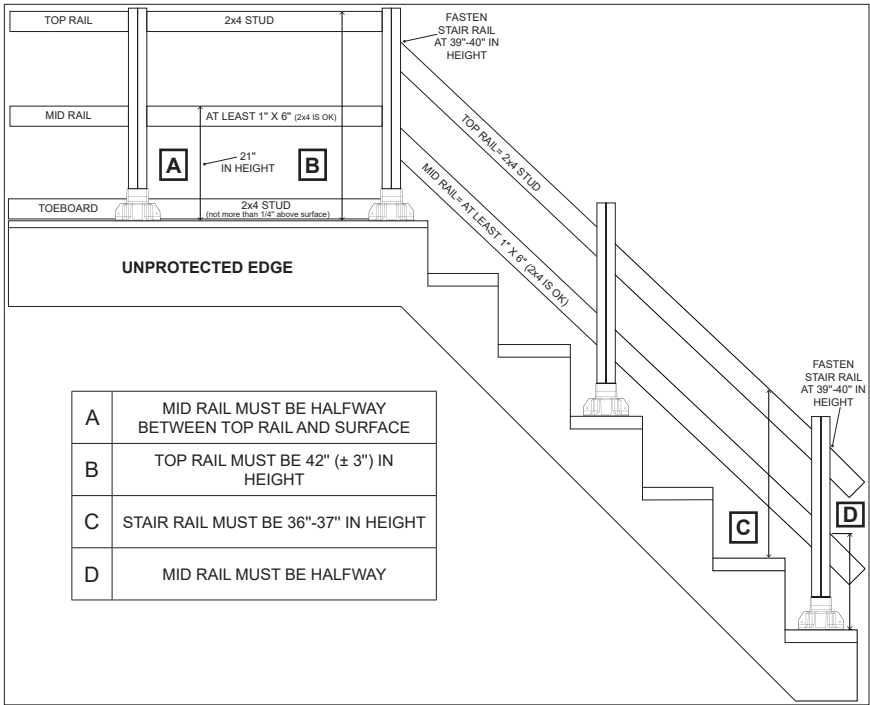
TOEBOARD INSTALLATION:



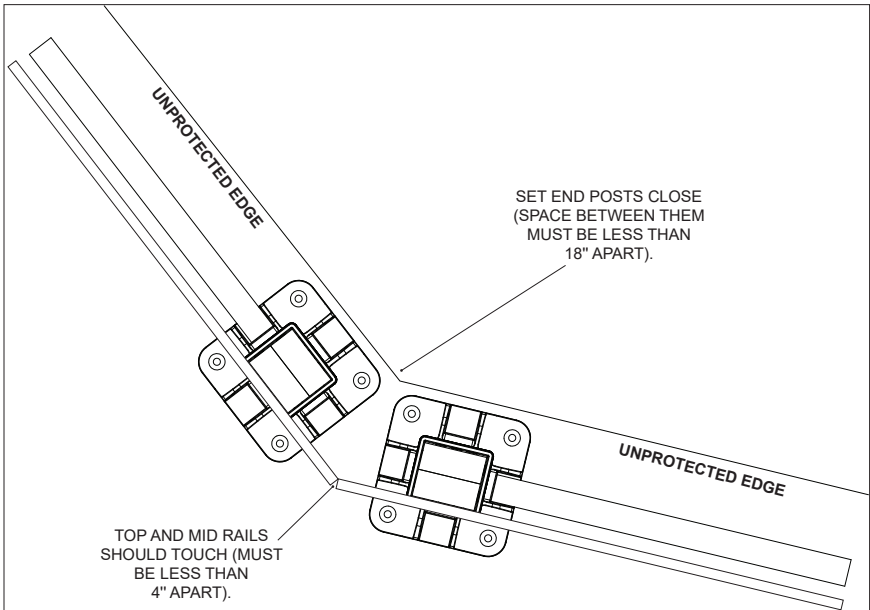
INSTALLATION EXAMPLE:



STAIRWAY INSTALLATION EXAMPLE:



ODD-ANGLED INSTALLATION EXAMPLE:



► 10.0 INSPECTION & MAINTENANCE

The user must keep instructions available for reference and record the date of first use on Page 2.

- Prior to initial installation or subsequent removal and reinstallation, the user must ensure that the base has no visible damage or defects.
- If removing and reinstalling the base, the user must ensure that no damage or warping has occurred due to prior installation or removal.
- If any damage or defects are found, or if the base has been exposed to fall arrest forces, the user must IMMEDIATELY remove the base from service.
- Inspect the base for deficiencies or damage including, but not limited to, sharp edges, rough edges, deformations, corrosion, pits, burrs, chemical exposure, extreme heat exposure, and damaged, missing, or illegible labels.
- The base must be inspected at least annually by a Competent Person other than the user.
- Competent Person inspections must be recorded in the inspection log included in this manual (Page 12).
- Severity of conditions during use of base may necessitate increased frequency of documented inspections.
- The user shall remove all dirt, possible corrosives, and contaminants from the base prior to, and after, each use.
- The base can be cleaned with water and mild soap if necessary. Never use any type of corrosive substance to clean the base.
- Excess water shall be blown out with compressed air. Hardware can be wiped off with a clean, dry cloth.
- When not in use, store the base in a cool, dry area where it will not be exposed to extreme light, extreme heat, excessive moisture, or corrosive chemicals/materials.

► 11.0 LABEL

	SAFEWAZE GUARDRAIL BASE	
PART NUMBER: 025-13001 MFG DATE: MM/YY SERIAL NUMBER: XXXXX OSHA: 1926.502 & 1910.29		
⚠ WARNING SEE PRODUCT MANUAL FOR ADDITIONAL WARNINGS; APPROPRIATE INSTALLATION, CONNECTION METHODS, AND USAGE STEPS; AND COMPLETE INSPECTION PROCEDURES.		
		470-00473

**SAFEWAZE****INSPECTION LOG**

ANNUAL FORM

Inspection Date:	Inspector:	Pass/Fail: ▼▲	Comments/ Corrective Action:

**SAFEWAZE****Address:** 225 Wilshire Ave SW, Concord, NC 28025**Phone:** (800) 230-0319**Fax:** 704-262-9051**Email:** info@safewaze.com**Website:** safewaze.com