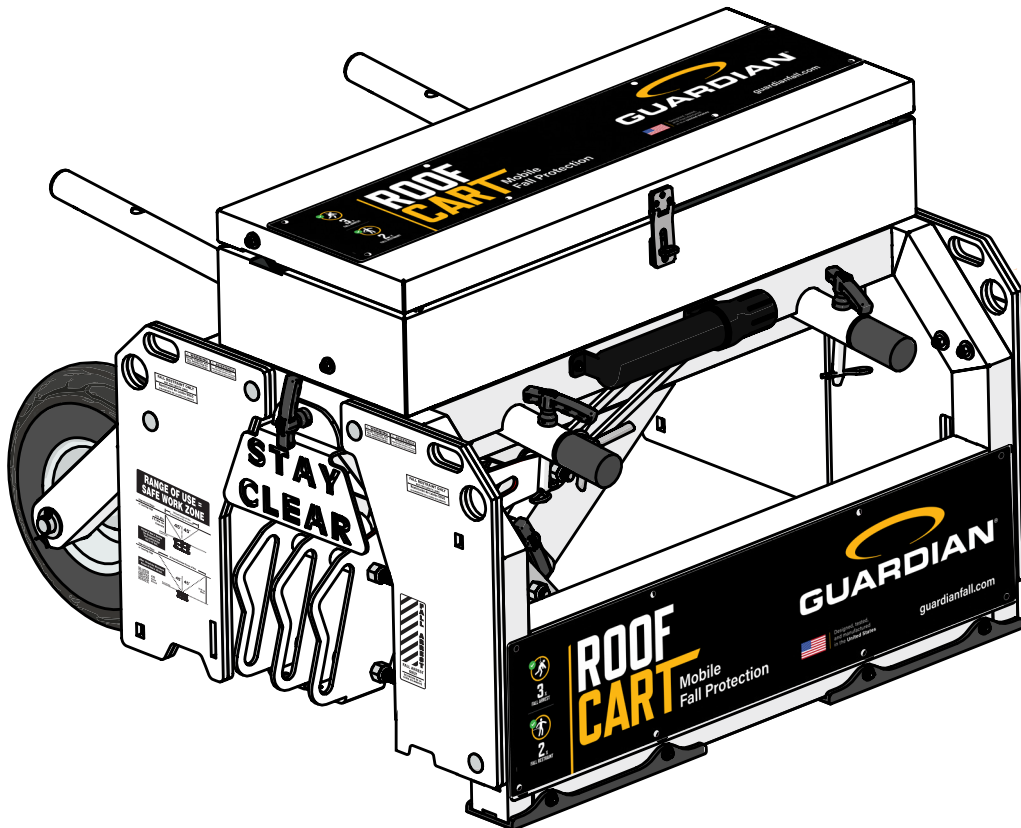


ROOF CART

Mobile
Fall Protection


GUARDIAN®

Part # 6600000



Online
Manual
(English)

WARNING

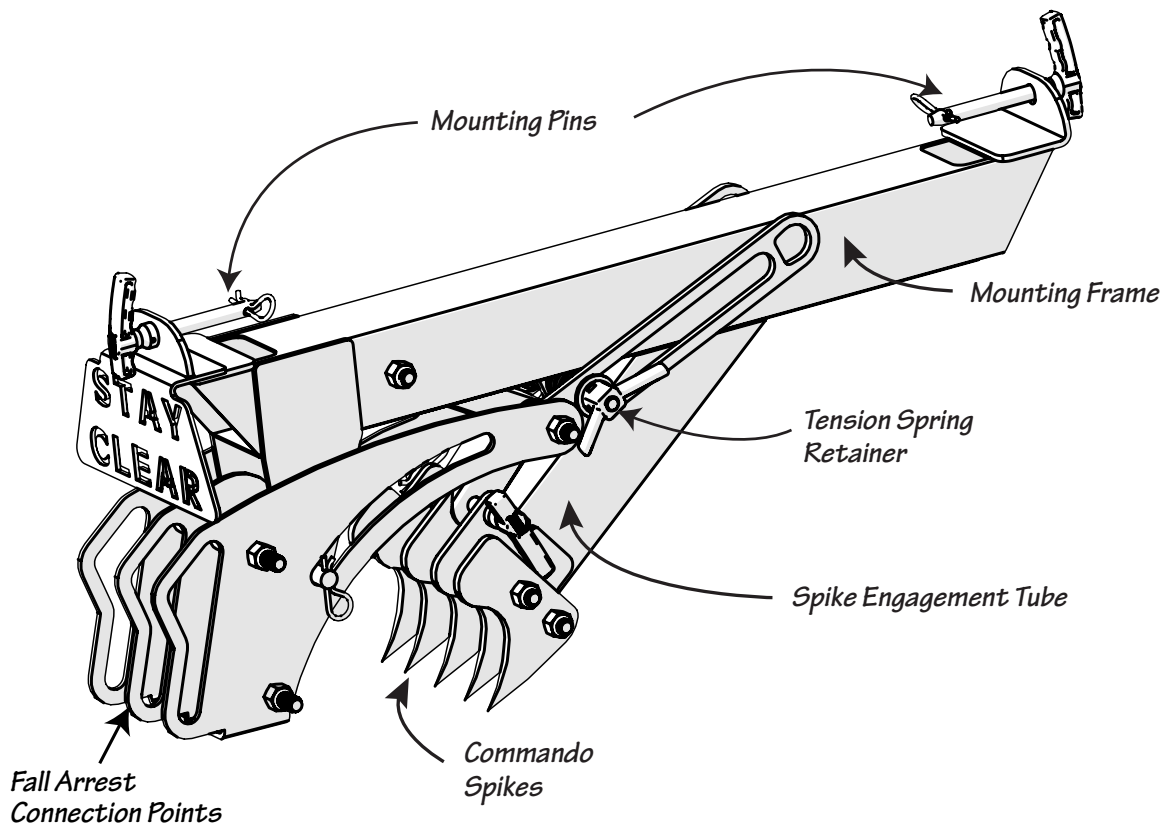
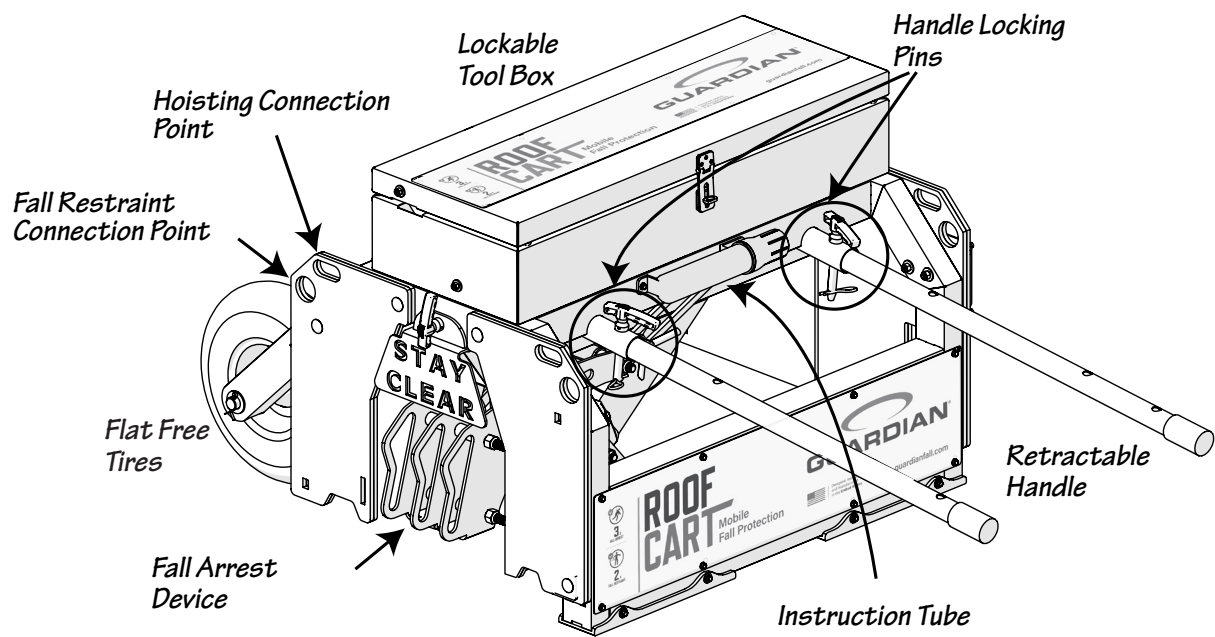
Serious injury or death may occur if this equipment is used for purposes other than intended. Guardian provides the following instructions for the use and care of this equipment.

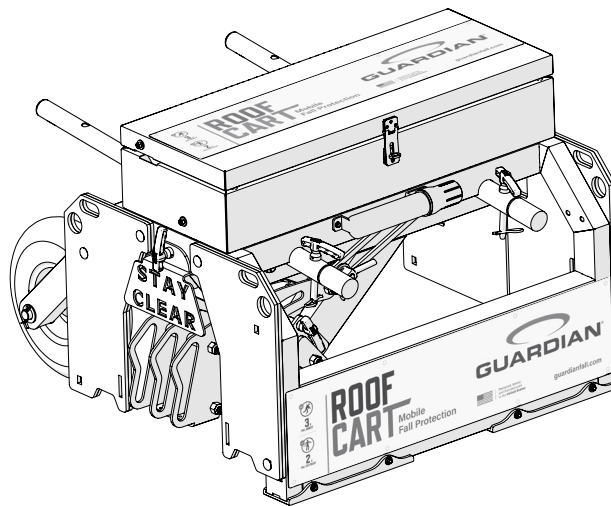
It is the responsibility of the user to understand and convey proper instruction to any and all individuals who use this product for Fall Arrest and or Travel Restraint.

The Roof Cart complies with the requirements set forth by the Federal Occupational Safety and Health Administration (OSHA) when used according to the manufacturers' instructions.

 **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

1600447 Rev. A





Applications



Fall Arrest: May be used to support a MAXIMUM THREE (3) **Personal Fall Arrest System (PFAS)** for use in Fall Arrest applications only when used in combination with an energy absorbing device rated to reduce fall arrest forces to no greater than 1,800 lb (8 kN). Structure must withstand sustained load applied by the ballasted anchor of at least 1,000 lb (454 kg). Maximum free fall is 6 ft (1,8 m) or up to 12 ft (3,7 m) if used in combination with equipment explicitly certified for such use. **D-rings: Dorsal.**



Travel Restraint: May be used to support MAXIMUM TWO (2) in Travel Restraint applications. Travel Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for fully extended length of connecting equipment. Structure must withstand sustained load applied by the ballasted anchor of at least 1,000 lb (454 kg). No free fall is permitted. **D-rings: Dorsal, Sternal, Hips (pairs only).**



WARNING NEVER connect workers in both Fall Arrest and Travel Restraint applications simultaneously.

User Weight Capacity Range (including all clothing, tools, and equipment) is: 100 - 310 lb (45 - 141 kg)

Applicable Safety Standards

When used in accordance with these instructions and all local, state, and federal requirements, this product meets or exceeds all applicable requirements of: **OSHA 1910.140 & OSHA 1926.502**

A fall arrest system must meet the following OSHA requirements:

- *Ensure that the maximum arresting force on an employee, when using a body harness, does not exceed 1,800 pounds.*
- *Rig the system (lifeline plus deceleration device) to prevent an employee from free-falling more than 6 feet (1.8 meters) or coming into contact with any lower level.*
- *Bring an employee to a complete stop and limit the maximum deceleration distance to 3.5 feet (1.07 meters).*
- *Ensure that the system has sufficient strength to withstand twice the potential impact energy of an employee free-falling a distance of 6 feet (1.8 meters) or the permitted free-fall distance of the system, whichever is less.*

Applications: Surfaces

Roof Cart is compatible with roof slopes Flat to 1:12.

Recommended Surfaces:

- ✓ Thermoplastic Polyolefin (TPO) Membranes
- ✓ Polyisocyanurate (ISO)
- ✓ Expanded Polystyrene (EPS)
- ✓ EPDM Roofing Membranes
- ✓ Ballasted EPDM Membrane
- ✓ Metal Deck (20 ga. and 22 ga. ONLY)
- ✓ Built-Up Roofing
- ✓ Plywood
- ✓ Oriented Strand Board, Grade 3 (OSB3)

Do Not Use on the Following Surfaces:

- ✗ Metal Deck less than 22 ga.
Or over 20 ga. (Structural Deck)
- ✗ Loose laid material not part of a complete finished system.
- ✗ Ice
- ✗ Snow
- ✗ Composite Deck (cementitious wood fiber)
- ✗ Concrete

Roofing Load Requirements

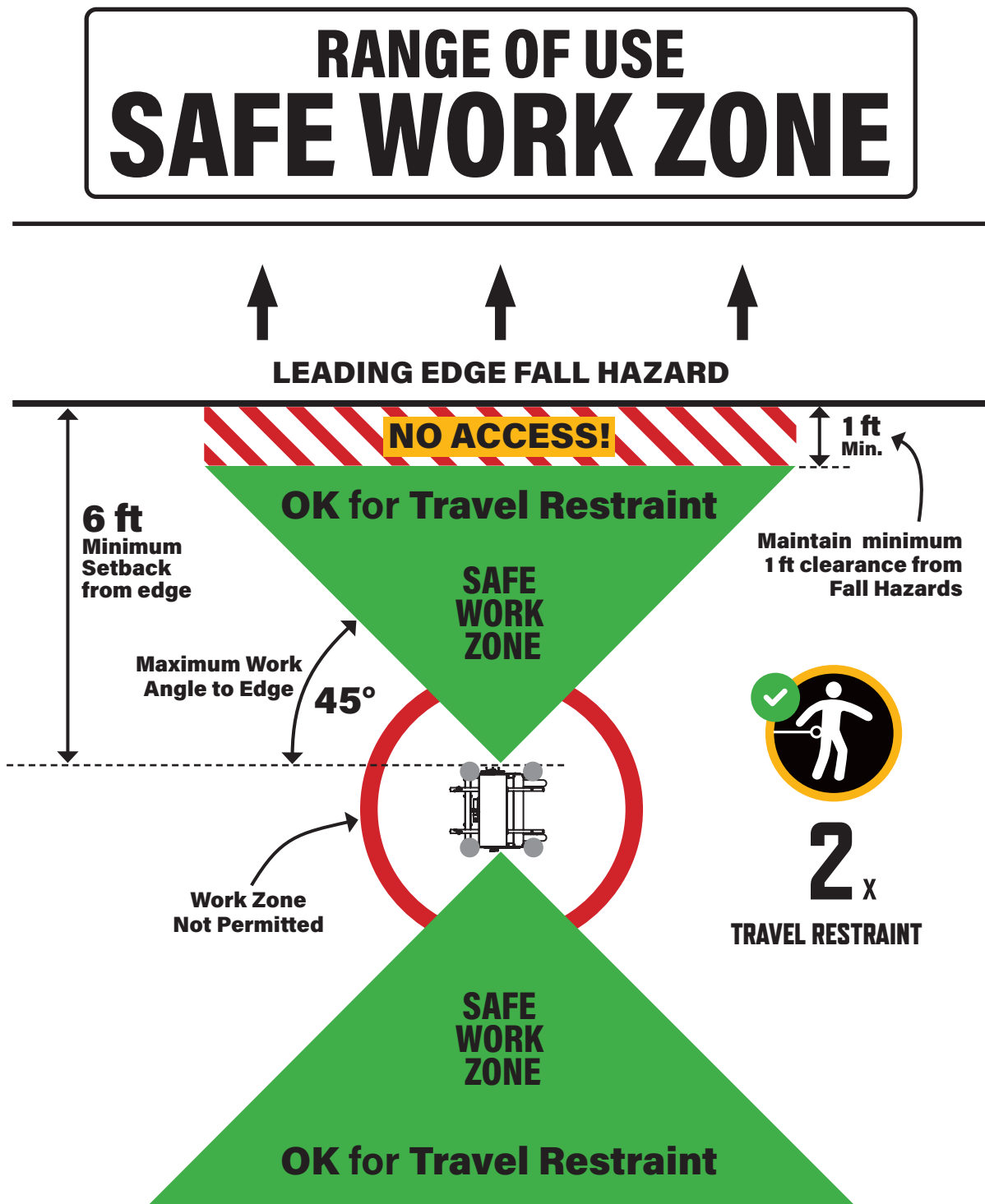
Before the Roof Cart and cart are hoisted to any roofing deck the user MUST VERIFY THAT THE DECK CAN ACCOMMODATE THE LOAD REQUIREMENTS.

Verify that the surface that the Roof Cart will be used on is capable of supporting both the unit and personnel using it. Inspect that the entire area to determine if the working surfaces have the strength and to support users safely.

CAPACITY: Roof Cart mobile fall protection systems are engineered to accommodate up to three individuals for fall arrest OR two for Travel Restraint with a collective weight (including clothing, tools, etc.) not exceeding 310 lbs. per person. NEVER connect workers in both Fall Arrest and Travel Restraint applications simultaneously.

IMPORTANT: Do NOT initiate work requiring fall protection until both the Roof Cart system and its corresponding Travel Restraint System or Personal Fall Arrest System are fully installed. Under no circumstances should any component of the FRS or PFAS, including the Roof Cart unit, be disabled or repositioned until work requiring fall protection has concluded.

Range of Use for Travel Restraint

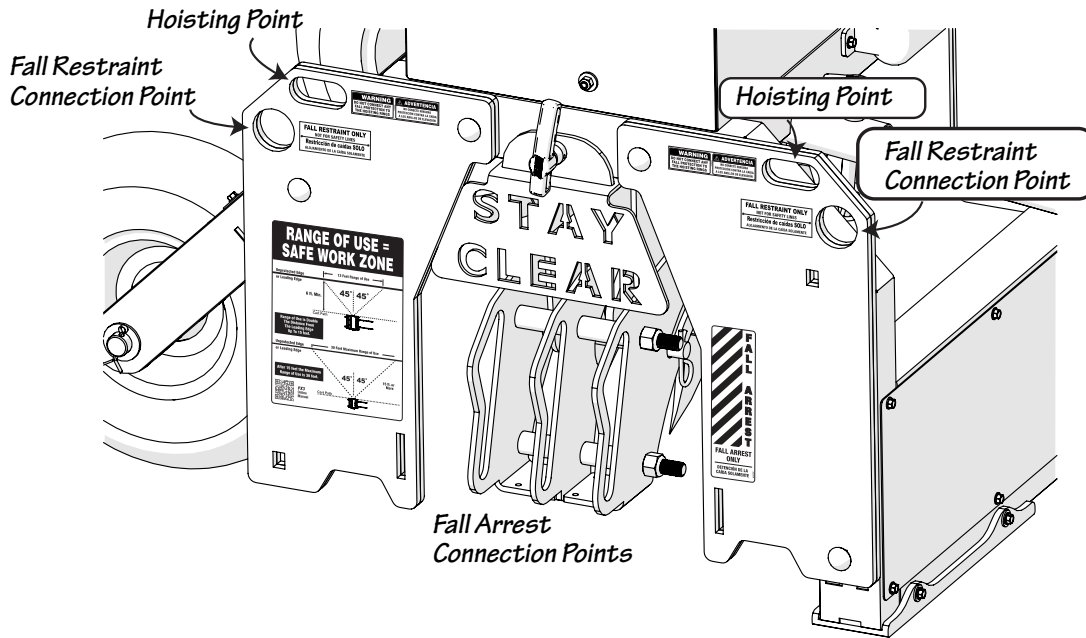


Range of Use for Fall Arrest



Connecting to the Roof Cart

When making connections, only use double-locking snap hooks and double-locking carabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure that all connectors are fully closed and locked.



The Travel Restraint Tie-Off

Two Travel Restraint Anchor tie offs are located on the top corners of the Roof Cart where labeled. The Travel Restraint tie offs DO NOT arrest falls. The user must ensure that the Travel Restraint worker is personally equipped with lanyards, harnesses, safety lines, etc., when working in conjunction with potential fall arrest workers.

Do not attached Travel Restraint to the hoisting ring locations.

Do not allow the Travel Restraint users to work close to any roof edge.

FALL ARREST TIE-OFF

The three Fall Arrest Tie Off points are located on the lower side of the Roof Cart in bright red, under of the stay clear guard. The user must insure that the lanyards and harness are properly attached.

⚠ WARNING NEVER connect workers in both Fall Arrest and Travel Restraint applications simultaneously.

IMPORTANT: DO NOT allow workers to cross paths (cross lines) at anytime! Travel Restraint/Fall Arrest lines must never cross over each other. Crossed lines will cause the unit to not function as intended. Failure to maintain clear lines may cause an accident or death.

The following conditions apply:

- The Worker(s) assumes full responsibility for any damages resulting from the activation of the Roof Cart device, whether accidental or intentional.
- All other stipulations and requirements outlined in this manual must be strictly followed.

DO NOT OPERATE DAMAGED EQUIPMENT.

DO NOT OPERATE EQUIPMENT THAT HAS BEEN MODIFIED.

(Please use the Inspection and Maintenance Log contained within the instructions manual)

Before Using the Roof Cart

OSHA requires that before operating the system there must be an inspection for damaged equipment.

- 1 Check for loose, bent or damaged parts, including the three penetrating spikes.
- 2 Check welded components for distortion, cracks, or other damage.
- 3 Check Tie-off shackles for distortion or damage and confirm that they are properly tightened.
- 4 Check retaining slide bars for rusting and/or wear before each use.
- 5 All labels must be present and fully legible. (Copies of all labels are attached at the back of this section for accurate inspection.)
- 6 Check for all pull pins that they are fully inserted and the safety cotter pin clips are attached to each pull pin.

Maintenance and Care

- ✓ Inspect Roof Cart before and after each use.
- ✓ Keep wheels free from roofing debris.
- ✓ Regularly inspect for damaged or missing parts and do not place the Roof Cart into service until all missing and or damaged parts have been replaced.
- ✓ Store the Roof Cart in a place protected from weather and where only authorized employees have access.
- ✓ Maintain finish to prevent corrosion.

Precautions

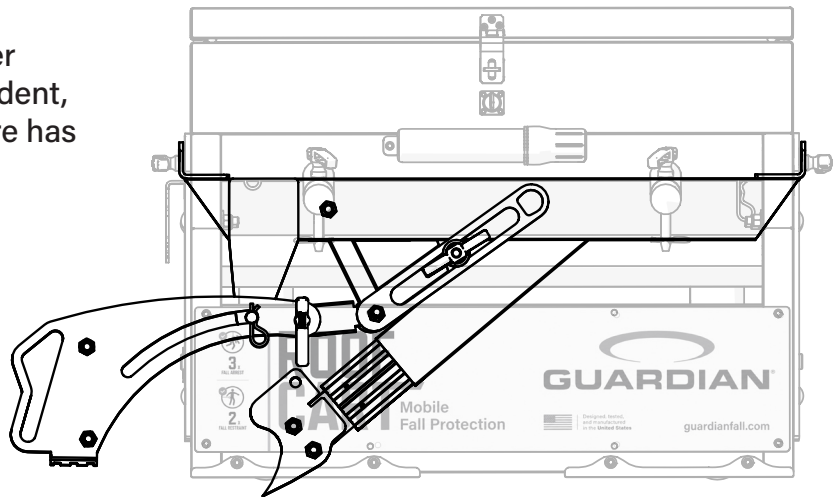
- **USE COMMON SENSE!** Most accidents can be avoided by using common sense and concentrating on the job at hand. Look around and confirm a safe distance from the roof edge is being maintained.
- The Roof Cart should not be used by persons whose ability or alertness is impaired by fatigue, intoxicating beverages, illegal or prescription drugs, or any other physical cause that exposes the user or others to injury.
- Always wear proper safety attire.
- Keep hands and feet clear of moving parts. **DO NOT** stick hands or fingers in the equipment when workers are attached to the Roof Cart.
- Do not operate the equipment near electrical power lines. **ELECTRICITY KILLS!**
- Ensure that all areas directly underneath, and in front of the cart, are clear and free of debris.
- Do not use on roofs with ice or snow.
- Only use the unit on a surface or roof composition for which it has been tested.
- Do not set unit atop unfastened materials. Materials may slide if not mechanically attached to the roof.

Procedure for Resetting the Roof Cart After a Fall

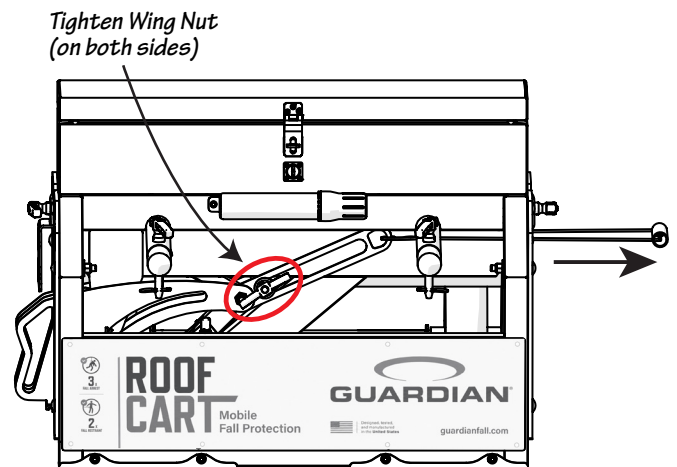
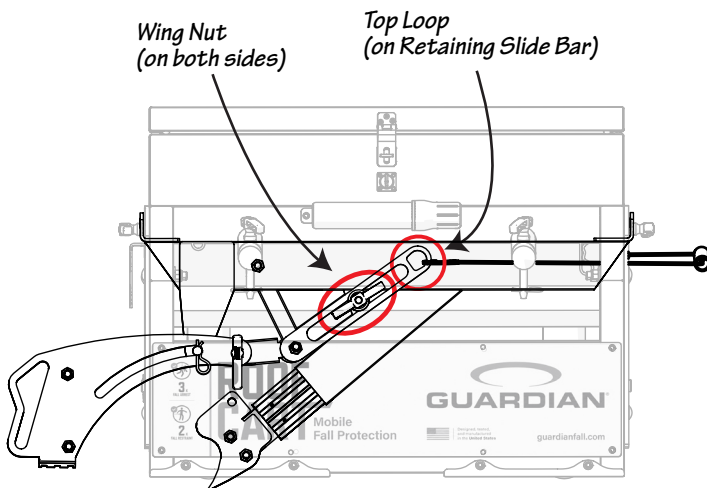
Prior to disengaging the Roof Cart after deployment as the result of an fall incident, make certain that the rescue procedure has been successfully completed.

The five penetrating spikes will be somewhat buried into the roof after activation.

Follow these steps to reset the Roof Cart Device:



Roof Cart shown in the engaged position



1. Loosen the large wing nuts on both sides of the Roof Cart device.
2. Attach the pull hooks to the top loop of the retaining slide bar. Repeat for opposite side.
3. With a firm pull, pull the handle outward away from the Roof Cart cart. The Spike assembly will slide back to it's original position.
4. Re-tighten the large wing nuts on both sides.

Do not reuse the Roof Cart after fall until fully inspected and recertified for use. Call Guardian for more information 1 800 466 6385.

Hoisting Safety Precautions

Loads may slip, if the Roof Cart is not hoisted properly, this could result in injury or death.

Do not use with damaged slings or chains.

Utilize appropriate rigging gear for overhead lifting.

Utilize rigging gear within the industry standards and the manufacturer's recommendations.

Conduct regular inspection and maintenance of the rigging gear.

DO NOT hook to the fall arrest or fall restrain shackle safety line connectors when lifting the cart.

Inspection

Prior to EACH use, inspect Roof Cart for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint build-up, excessive heating, alteration, broken stitching, fraying, and missing or illegible labels. **IMMEDIATELY remove Roof Cart from service if defects or damage are found, or if exposed to forces of fall arrest.**

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 work area will support the application-specific minimum loads set forth in this manual. Work area MUST be stable.

At least every 12 months, a Competent Person (CP) other than the user must inspect Roof Cart.

See Inspection Log on page 12.

Inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label. The CP 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 anchor has been subjected to.

Product lifetime is indefinite as long as it passes pre-use and CP inspections.

This inspection log must be specific to one Roof Cart. Separate inspection logs must be used for each Roof Cart. All inspection records must be made visible and available to all users at all times. If equipment fails inspection it must be discarded immediately.

Safety Information

⚠️ WARNING! 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.

⚠️ CAUTION! Understand the definitions of those who work near, or who may be exposed to, fall hazards.

⚠️ WARNING! Use of equipment in unintended applications may result in serious injury or death. See Page 3 for Worker Capacities.

Do not alter equipment.

Workplace conditions, including, but not limited to, corrosive chemicals, electrical shock, sharp objects or edges, machinery, flame/high heat, abrasive or uneven surfaces, UV exposure, and severe or prolonged weather conditions, must be assessed by a Competent Person (CP) before fall protection equipment is selected. The presence of any/all of these conditions may have negative effects on product performance or service lifetime.

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 CP. 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 CP, and used in a compliant manner. The system must be designed in a manner compliant with all federal, state, and safety regulations. Forces applied to anchors must be calculated by a CP.

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.

See Diagram A on page 11.

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 to minimise post fall suspension time. Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons (APs) to correctly erect, disassemble, inspect, maintain, store, and use equipment must be provided by a CP. Training must include the ability to recognise fall hazards, minimise the likelihood of fall hazards, and the correct use of personal fall arrest systems.

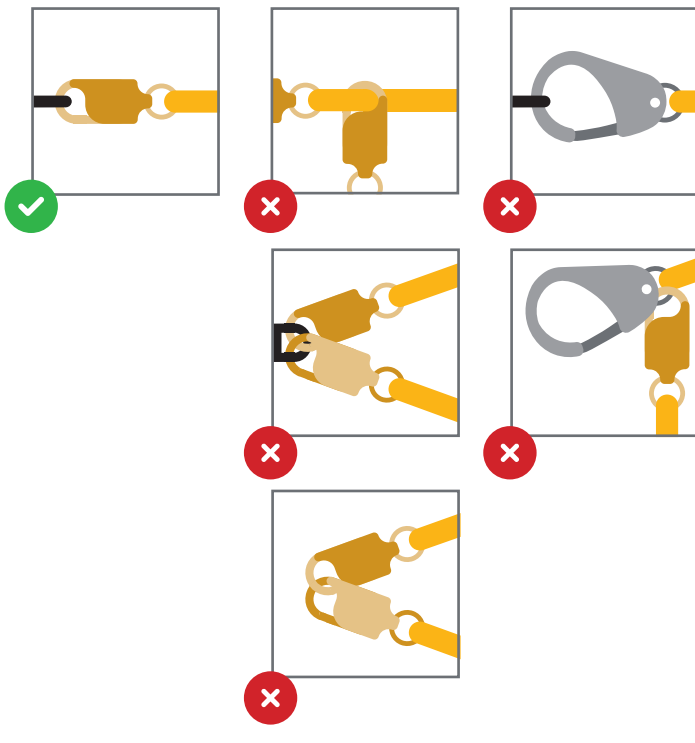
NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

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 safely withstand 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.

Diagram A - Connections



Labels



ROOF CART

Mobile Fall Protection



GUARDIAN®

Designed, tested, and manufactured in the United States

guardianfall.com

ROOF CART

Compliant OSHA 1910.140 & 1926.502

#6600000

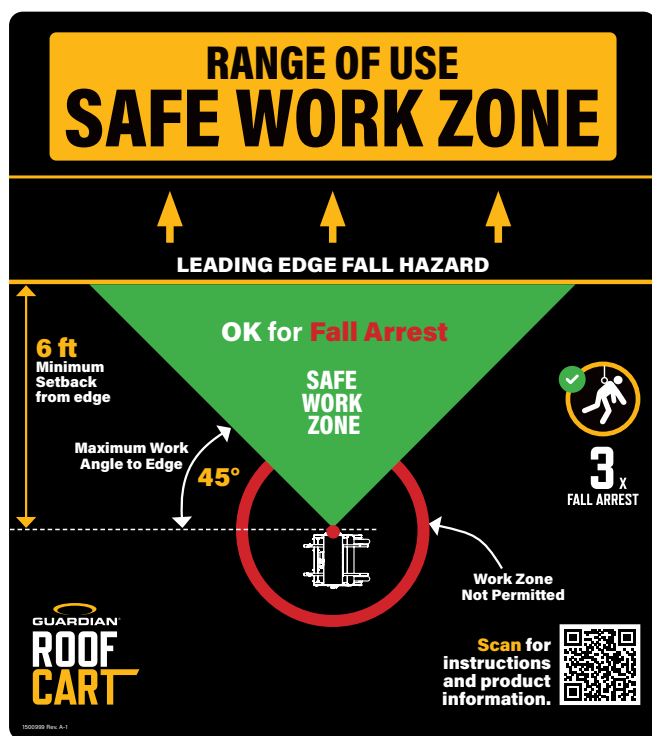
Mobile Fall Protection



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⚠️ WARNING This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer. For more info: www.P65warnings.ca.gov





Notes

Inspection Checklist and Maintenance Log

Roof Cart Model # _____ Date of Purchase: _____
 Serial Number: _____ Purchased From: _____

Cart	Date:								
Frame: Free of Rust?									
Frame: Welded Connections?									
Axles/Wheels Rotate Properly?									
Overall Cart Parts?									

Roof Cart Device	Date:								
Frame: Free of Rust?									
Frame: Welded Connections?									
Mounting Pins (2)?									
Roof Cart Spikes Free of Damage?									
Spike Guard Shield Present?									
Anchor Shackles and Pins Available (4)?									
Anchor Shackles and Pins Tightened?									
Retaining Slide Bar Clear of Any Obstructions?									
Wing Nut Tightened/Retaining Slide Bar?									
Inner/Outer Spike Tube Engaged?									
(If "Yes" DO NOT USE)									
Pull Pins (5) Secured with Safety Cotter Pin?									
Safety and Warning Labels Readable?									

Date

Corrective Action Taken: