

# GUARDIAN

## FALL PROTECTION



### Product Name: Diablo Grande SRL

Part #: 42009; 42010; 42011; 42012

### 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 Diablo Grande SRL. 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 Diablo Grande SRL, and all fall safety equipment used in combination with the Diablo Grande SRL.

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, OSHA 1910, ANSI Z359.14-2012, and ANSI A10.32-2012 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state regulations if applicable. 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



Use of equipment in unintended applications may result in serious injury or death. Maximum 1 attachment per connection point.



**Personal Fall Arrest:** Diablo Grande SRL may be used in Personal Fall Arrest applications as a component of a MAXIMUM 1 Personal Fall Arrest System (PFAS). Structure must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. Applicable D-ring: Dorsal.

- Part # 42010 and 42012: Maximum 2' free fall. SRL may be positioned a maximum 2' below harness dorsal D-ring.

- Part #s 42009 and 42011: No free fall is permitted unless used in combination with Guardian shock absorber extension part # 01205. SRL must always be positioned at or above harness dorsal D-ring, or, if used with Guardian shock absorber extension part # 01205, may be positioned a maximum 2' below harness dorsal D-ring.



**Restraint:** Diablo Grande SRL may be used in Restraint applications. Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for fully deployed length of lanyard/SRL. Structure must withstand loads applied in the directions permitted by the system of at least 1,000 lbs. No free fall is permitted. Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal). Applicable D-rings: Dorsal, Chest, Side, Shoulder.

**For all applications, worker weight capacity range (including all clothing, tools, and equipment):**

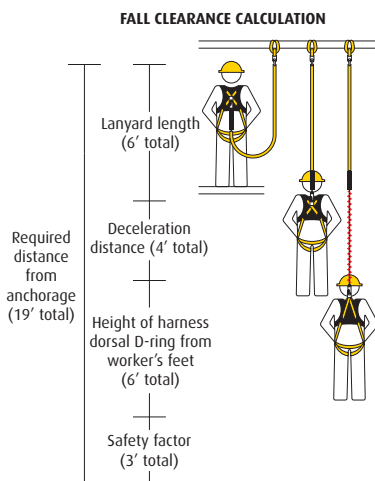
- 130-310 lbs. when used in Leading Edge (LE) applications
- 130-420 lbs. when used in non-LE applications

## Limitations

**Fall Clearance:** There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 3' safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors.

**Diagram shown is an example fall clearance calculation ONLY.**

**Swing Falls:** Prior to installation or use, make considerations for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall.



**Compatibility:** When making connections with Diablo Grande SRL, eliminate all possibility of roll-out. Roll-out occurs when interference between a hook and the attachment point causes the hook gate to unintentionally open and release. All connections must be selected and deemed compatible with Diablo Grande SRL by a Competent Person. All connector gates must be self-closing and self-locking, and withstand minimum loads of 3,600 lbs. See the following for examples of compatible/incompatible connections:

Connector closed and locked to D-ring. **OK.**



Connector to integral lanyard. **NO.**

Two or more snap hooks or carabiners connected to each other. **NO.**



Connector directly to webbing. **NO.**

Two connectors to same D-ring. **NO.**



Application that places load on gate. **NO.**

Incompatible or irregular application, which may increase risk of roll-out. **NO.**



Connector directly to horizontal lifeline. **NO.**

## Components and Specifications

Materials: stainless steel, galvanized steel, glass-filled nylon, polyester, and nylon.

Class A SRL.

Average arrest force: 1,350 lbs.

Maximum arrest force: 1,800 lbs.

Maximum deceleration distance: 24".



Part #	Length	Description
42009	33'	Diablo Grande w/Galvanized Cable, Swivel Steel Snap Hook, & Steel Carabiner
42010	33'	Diablo Grande for Leading Edge (LE) Work w/Galvanized Cable, Shock Pack, Swivel Steel Snap Hook, & Steel Carabiner
42011	33'	Diablo Grande w/Nylon-Coated Galvanized Cable, Swivel Steel Snap Hook, & Steel Carabiner
42012	33'	Diablo Grande for Leading Edge (LE) Work w/Nylon-Coated Galvanized Cable, Shock Pack, Swivel Steel Snap Hook, & Steel Carabiner

## Installation and Use

**Diablo Grande SRL part #s 42010 and 42012 may be used in LE applications.**

**Diablo Grande SRL part #s 42009 and 42011 may be used in LE applications ONLY if used in combination with Guardian shock absorber extension part # 01205. For LE applications, refer to additional LE SRL use instructions. ALWAYS avoid lifeline contact with sharp or abrasive edges and surfaces.**

1. All components of the personal fall arrest system must be selected and deemed compatible with Diablo Grande SRL by a Competent Person.
2. Ensure structure to which Diablo Grande SRL is to be attached, and on which work is to be performed, is free of all hazards, including, but not limited to, debris, rot, rust, sharp or abrasive edges and surfaces, and hazardous materials.

3. Use:

• **In non-LE applications, Diablo Grande SRL must be attached to anchorage connector at Carabiner Connection Point, and must always be positioned at or above harness dorsal D-ring.**

• **In LE applications, Diablo Grande SRL must be attached to anchorage connector at Carabiner Connection Point, and may be positioned a maximum 2' below harness dorsal D-ring.**

4. Ensure 100% tie-off will be maintained at all times, which may require the use of a back-up or supplementary fall protection system.



**WARNING** ALWAYS adhere to the following instructions when using LE SRL.

When used with an integral or compatible attached shock absorber extension, Diablo Grande SRL is tested and certified for horizontal use over a steel edge without burrs. Diablo Grande SRL may be used over similar surfaces, such as metal sheeting or other steel formations. The allowable angle of redirection of the lifeline portion of Diablo Grande SRL at the leading edge of a fall hazard **MUST** be at least 90° (see Image 1).

Anchor point **MUST** be situated no lower than the leading edge of applicable fall hazard(s).

Prior to use, a Competent Person **MUST** calculate adequate fall clearance.

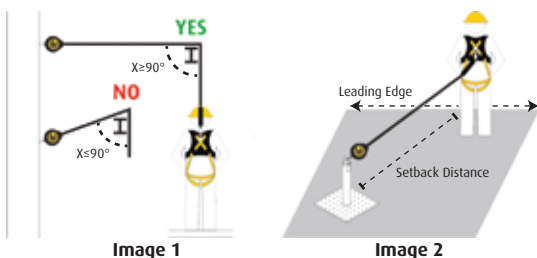
ALWAYS attach to anchorage connector that will allow for required setback distance (see Image 2).

**Setback distance: As determined by product testing, Guardian Fall Protection Diablo Grande SRL **MUST** be installed a MINIMUM 6' (1.8m) from the leading edge of applicable fall hazard(s).**

Diablo Grande SRL may be used in combination with horizontal lifelines. All installation, set-up, and use of horizontal lifelines must be done under the supervision of a Qualified Person.

NEVER work on the far side of an opening that is opposite the Diablo Grande SRL anchorage connector.

In the event of a fall over the edge, special rescue measures may be necessary. Always account for use of Diablo Grande SRL in job site rescue plan developed by job site Competent Person.



## Maintenance, Cleaning, and Storage

If a Diablo Grande SRL 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 Diablo Grande SRL. Remove all dirt, corrosives, and contaminants from Diablo Grande SRL before and after each use. If a Diablo Grande SRL cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean Diablo Grande SRL 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

KEEP INSTRUCTIONS AVAILABLE FOR REFERENCE. Record Date of First Use.

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

Prior to EACH use, check lifeline retraction by pulling out a minimum 4' and allowing it to retract under light tension; lifeline must retract completely. Pull lifeline sharply to test braking function; brakes must engage. Check shock pack and snap hook for signs of deployment. IMMEDIATELY remove from service if Diablo Grande SRL does not function properly, or if any evidence exists of exposure 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 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 Diablo Grande SRL. **Competent Person inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label. 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 Diablo Grande SRL has been subjected to.



Example impact indicator:

- Compressed against hook (shown): Undeployed
- Red line exposed: Deployed

## Inspection Log

Date of First Use: \_\_\_\_\_.

Product lifetime is 5 years from Date of First Use, or, if not recorded, from Date of Manufacture, 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 Diablo Grande SRL. Separate inspection logs must be used for each Diablo Grande SRL. 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.

## Labels



The diagram is a circular cross-section of a life line device. At the top, a label reads "Serial #". Below this, two cables are shown: "3/16\" CABLE" on the left and "3/16\" NYLON COATED CABLE" on the right. In the center, a large label reads "42012". To the right of the cable, a label reads "CUSTOM".

**WARNING:** Prior to use, fully read and understand all manufacturer's instructions provided with equipment at time of shipment. **DO NOT ATTEMPT TO SELF SERVICE OR REPAIR. DO NOT REMOVE THIS LABEL.**

**USE:** Always use in accordance with manufacturer's instruction manual and labels included with this device at the time of shipment. This device is only for use by one person as a fall arrester. Always connect the snap hook directly to the attachment point on the safety harness. Guard against swing-falls by keeping the lifeline vertically overhead. Maximum free fall 2 feet. Avoid lifeline contact with sharp or abrasive edges and surfaces. Ensure that connection to anchorage is secured properly before use. May be used as a component of a PFAS in HLL applications. Design, installation, and utilization of HLL is must be supervised by a Qualified Person. Suitable for horizontal use. Competent Person must calculate adequate fall clearance prior to use; refer to instructions for details. Minimum installation setback distance from leading edge is 6 feet.

**INSPECTION:** Inspect unit in accordance to the manufacturer's instruction manual and regulatory guidelines. Check lifeline retraction by pulling out a minimum 4 feet of lifeline and allowing it to retract under light tension. Lifeline should retract completely. Pull sharply to test locking function, brakes must engage. Before use, inspect the lifeline condition, function and condition of fasteners, and legibility of labels. Also, check for evidence of defects, damage or missing parts. User must inspect the impact indicator for signs of activation. Device must be taken out of service after arresting a fall or if the impact indicator shows signs of activation. Do not use if inspection reveals an unsafe condition. Unit must be inspected by a trained and Competent Person at least every 6 months.

**SPECIFICATIONS:**  
Maximum arresting distance: 24 in.  
Capacity range: 130 – 310 lbs., or up to 420 lbs.  
\*See instructions  
Average arresting force: 1350 lbs.  
Class A SBL

**STANDARDS:**  
ANSI Z359.1-2012, A10.32-2012  
OSHA 1926.502, 1910.66  
Meets CSA

**Made in Taiwan** 90255 (Rev. C)

Below the diagram, a label reads "Line of fire zone".

Serial #

31/32" CABLE

31/32" NYLON COATED CABLE

CUSTOM

42009

42011



**WARNING:** Prior to use, fully read and understand all manufacturer's instructions provided with equipment at time of shipment. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death. **DO NOT ATTEMPT TO SELF SERVICE OR REPAIR! DO NOT REMOVE THIS LABEL.**

**USE:** Always use in accordance with manufacturer's instruction manual and labels included with this device as the time of shipment. This device is only to be used by one person as a fall arrestor. Always connect the snap hook directly to the attachment point on the safety harness. Guard against swing-falls by keeping the lifeline vertically overhead. No free fall is allowed. SRL must always be positioned at or above harness D-ring. Do not allow the lifeline to become slack and maintain tension while letting it retract after disconnecting from worker. Do not allow lifeline to come in contact with anything that will damage it including but not limited to sharp edges, rough or high temperature surfaces, welding, heat sources, electrical hazards, or moving machinery. Ensure that connection to anchorage is secured properly before use. May be used as a component of a PFSB in HLL applications. Design, installation, and utilization of HLLs must be supervised by a Qualified Person. Unsuitable for horizontal use.

**INSPECTION:** Inspect unit in accordance to the manufacturer's instruction manual and regulatory guidelines. Before use inspect for any signs of damage, wear or malfunctioning components. Check lifeline retraction by pulling out a minimum 4 ft. of lifeline and allowing it to retract under light tension, lifeline should retract completely. Pull sharply to test locking function, brakes must engage. Before use, inspect the lifeline condition, function and condition of fasteners, and legibility of labels. Also, check for evidence of defects, damage or missing parts. Depending on model, user must inspect the shock pack for signs of development or impact indicator for signs of activation. Device must be taken out of service for inspection after arresting a fall if or either the shock pack or impact indicator show signs of activation. Do not use if inspection reveals an unsafe condition. Unit must be inspected by a trained and competent person at least every 6 months.

**SPECIFICATIONS:**

Maximum arresting distance: 24 in.  
Capacity range: 130 – 310 lbs., or up to 420 lbs.  
*\*See Instructions*  
Average arresting force: 1350 lbs.  
Class A SRL

**STANDARDS:**

ANSI Z359 14-2012, A10.32-2012  
OSHA 1926.502, 1910.66  
Meets CSA

**Made In Taiwan**

90419 (Rev. D)

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Do Not Reuse