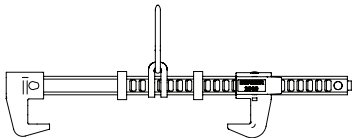


BEAMER 2000

Parts # 00101; 00103

Instruction Manual



2 Product Specific Applications

2 For All Product Applications

2 Applicable Safety Standards

2 Worker Classifications

3 Compatibility

3 Limitations

3 Maintenance, Cleaning, and Storage

4 Components

4 Specifications

4 Materials

5 Installation and Use

6 Loading Directions

7 Safety Information

8 Labels

9 Diagram

9 Inspection

10 Inspection Log

✘ Do not throw instructions away.

⚠ Read and understand instructions before using this equipment.

Product Specific Applications



May be used to support a MAXIMUM 1 direct **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). Maximum free fall is 6' (1.8 m) or up to 12' (3.7 m) if used in combination with equipment explicitly certified for such use. Beamer Anchor may be loaded in any direction, and is permitted for use as a component in a horizontal lifeline system.

D-ring: Dorsal.



May be used in **Travel Restraint** applications as an anchorage for the attachment of compatible equipment used during Restraint tasks. Restraint systems prevent a worker from reaching the leading edge of a fall hazard. Always account for fully deployed length of lanyard/SRL. No free fall is permitted.

D-rings: Dorsal, Chest, Side, Shoulder (pairs only).



May be used in **Work Positioning** applications as an anchorage for the attachment of compatible equipment used during Work Positioning tasks. Work Positioning systems allow a worker to be supported while in suspension and work freely with both hands. No free fall is permitted.

D-rings: Side (pairs only).



May be used in **Rescue/Confined Space** applications as an anchorage for the attachment of compatible equipment used during rescue/confined space tasks. Rescue systems function to safely recover a worker from a confined location or after exposed to a fall. There are various configurations of Rescue systems depending on the type of rescue. No free fall is permitted. **Applicable**

D-rings: Dorsal, Chest, Side, Shoulder (pairs only).

Applicable Safety Standards

Meets or exceeds:

- **ANSI Z359.18-2017**
- **EN 795-2012**
- **OSHA 1910.140**
- **OSHA 1926.502**

For All Product Applications

- **Maximum user weight (including all clothing, tools, and equipment) is:**

ANSI: 130 - 310 lb. (59-141 kg)

OSHA: 100 - 420 lb. (45-191 kg)

EN: Refer to connector for permitted user weight capacity

Worker Classifications

- **Qualified Person:** A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning/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 existing fall hazards.

Compatibility

When making connections, eliminate all possibility of roll-out. Roll-out occurs when interference between a connector and the attachment point causes the connector gate to unintentionally open and release.

All connections must be selected and deemed compatible with the harness by a Competent Person.

All connector gates must be self-closing, self-locking, and withstand a minimum load of 3,600 lb (16 kN).

See Diagram A on page 9.

Limitations

Fall Clearance: There must be sufficient clearance below the work surface to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 2' (0.6 m) safety factor, deceleration distance, user height, length of lanyard/SRL, harness stretch, free fall, and all other applicable factors.

See Guardian Fall Clearance Calculator:
<https://guardianfall.com/digital-resources/fall-clearance-calculator>

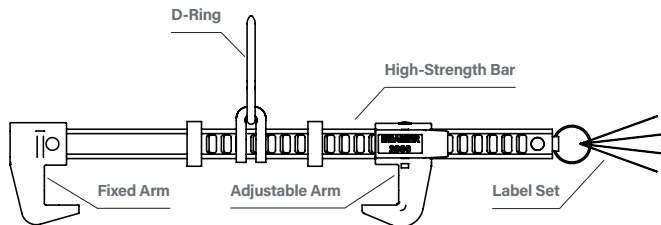
Swing Falls: Prior to installation or use, make considerations for eliminating or minimising all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase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

Maintenance, Cleaning, and Storage

Cleaning after use is important for maintaining the safety and longevity. Remove all dirt, corrosives, and contaminants from the harness before and after each use. If product cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean with corrosive substances.

When not in use or during transport, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

Components



Specifications

- **Minimum Breaking Strength:**
5,000 lb (22.2 kN)
- **Permitted Service Temperature Range:**
-30° to 130° F (-34° C to 54° C)

Materials

D-Ring: Forged and machined steel, zinc-plated

High-Strength Bar: Aluminum

Fixed / Adjustable Arms: Bronze manganese, or zinc-plated steel

Internal Springs: Stainless Steel

Part #	Fits Flange Thickness	Description
00101	.5" to 1.25" (13 mm to 32 mm)	Beamer 2000 for Flange Widths 3.5" to 14" (89 mm to 356 mm)
00103	.5" to 1.25" (13 mm to 32 mm)	Beamer 2000 for Flange Widths 6" to 16" (152 mm to 406 mm)

Installation and Use

- ▲ Beamer 2000 is an adjustable anchorage connector designed for use both overhead and at foot level. If used below the harness dorsal D-ring in Fall Arrest applications, ALWAYS account for increase in required fall clearance, and ALWAYS use PFAS equipment explicitly certified for extended free fall up to 12 ft (3.7 m).
- ▲ Ensure that all PFAS equipment to be used in combination with Beamer Anchors is selected and deemed compatible by a Competent Person. Make considerations for eliminating or minimizing swing fall hazards.
- ▲ Ensure selected "I" or "H" structural beam is capable of supporting minimum load of 5,000 lb (22.2 kN), is compatible with applicable Beamer Anchor, and adheres to the flange thickness and width requirements specified by this manual. For installation onto horizontal beams only. **Never install on vertical or sloped beams.** If unable to determine suitable installation location, consult jobsite Competent Person. The Beamer 2000 is rated for loading in any direction provided it is installed as prescribed.
- ▲ Beamer Anchors MUST NOT be used as permanent anchorage connectors, or as components of a horizontal lifeline system. Do not use Beamer Anchors for rigging or suspension work.

Installation (see illustration below):

■ Step 1

Hook Fixed Clamp over selected beam flange. Aluminum Bar **MUST** be positioned parallel with end of beam.

■ Step 2

Compress lever on Adjustable Arm and position as tightly as possible against opposite side of beam flange. Beamer Anchor **MUST** be snug against beam flange and no possibility may exist for Beamer Anchor to detach from beam flange.

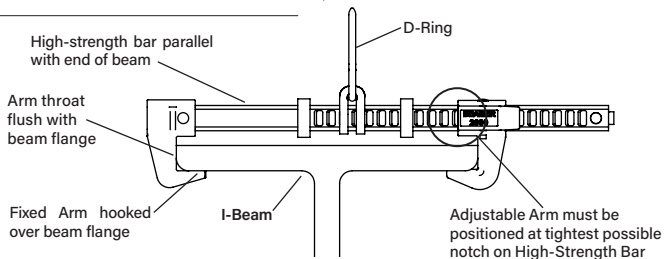
■ Step 3

Release Adjustable Clamp lever and ensure it is fully locked onto High Strength Bar.

■ Step 4

Attach complete and compatible PFAS to Beamer Anchor D-ring. Maximum 1 connection per Beamer Anchor. **Extended free fall connecting device must be used if Beamer Anchor is located below harness dorsal D-ring.**

- ▲ **WARNING!** Illustrations shown for example only. Beamer Anchor **MUST** be installed so no risk exists for it to come off end of beam. Beam **MUST** include a physical barrier at the end of beam to prevent all risk of disengagement.



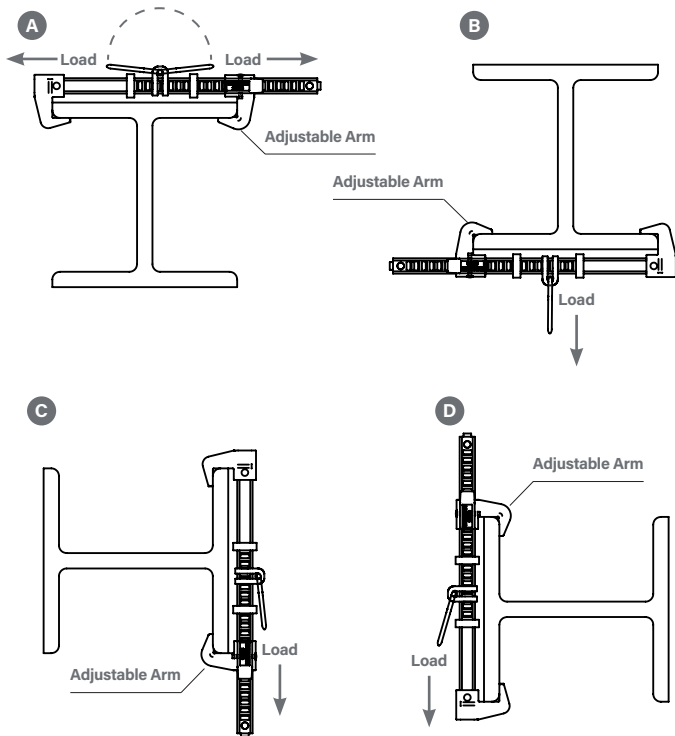
Loading Directions

Beamer Anchor may be loaded in the directions shown below.

*NOTE: ANSI or OSHA compliance varies by installation method:

A B C : ANSI Z359.18-2017, EN 795-2012, OSHA 1926.502 & 1910.140

D : EN 795-2012, OSHA 1926.502, & 1910.140



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. Maximum 1 attachment per connection point.

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 9.

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.

Labels

1

150031 Rev. A-1



guardianfall.com
Beamer 2000
ANSI Z359.18-2017 | EN 795-2012
OSHA 1926.502 & 1910.149

Part # XXXXXXXXXX Lot # XXXXXXXXXX

DO NOT REMOVE LABELS DOM MM/YY Serial # XXXXXXXXXX

3

150031 Rev. A-3

WARNING Prior to use, read and understand all manufacturer's instructions provided with equipment at time of shipment. Refer to instructions for proper installation and connection methods. All PFAS equipment must be selected and deemed compatible with Beamer Anchor by a Competent Person.

Alteration, abuse, or misuse of this product may result in serious injury or death.

1

Guardian
guardianfall.com
Beamer 2000
ANSI Z359.18-2017 | EN 795-2012
OSHA 1926.502 & 1910.149
Part#; Lot #; DOM; Serial #
Do Not Remove Labels

3

Prior to use, read and understand all manufacturer's instructions provided with equipment at time of shipment. Refer to instructions for proper installation and connection methods. All PFAS equipment must be selected and deemed compatible with Beamer Anchor by a Competent Person.

Alteration, abuse, or misuse of this product may result in serious injury or death.

2

150031 Rev. A-2

Type A Anchorage Connector
MAXIMUM 1 connection per Beamer Anchor
Capacity Range: 100-420 lb (45-191 kg)
Minimum Breaking Strength (MBS) 5,000 lb (22.2 kN)
Permitted Service Temperature: -30° F to 130° F (-34° to 54° C)

Always use with compatible equipment, possibly including special lanyard for tie-off at foot level.
MAKE ONLY COMPATIBLE CONNECTIONS.
FOR USE ON STRUCTURAL STEEL I AND H BEAMS ONLY.
Adjust Beamer Anchor at every junction or flange dimension change.

4

150031 Rev. A-4

User must inspect prior to EACH use. Competent Person other than user must complete formal inspection every 12 months. Competent Person to inspect and initial.

IMMEDIATELY REMOVE FROM USE in the event of a FALL.

Date of First Use

Initials:

Inspection Date:

Made in Taiwan

2

Type A Anchorage Connector
MAXIMUM 1 connection per Beamer Anchor
Capacity Range: 100-420 lb (45-191 kg)
Minimum Breaking Strength (MBS) 5,000 lb (22.2 kN)
Minimum Service Temperature: -30° F to 130° F (-34° to 54° C)

Always use with compatible equipment, possibly including special lanyard for tie-off at foot level.
MAKE ONLY COMPATIBLE CONNECTIONS.
FOR USE ON STRUCTURAL STEEL I AND H BEAMS ONLY.
Adjust Beamer Anchor at every junction or flange dimension change.

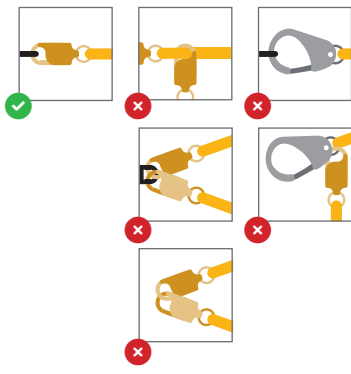
4

User must inspect prior to EACH use. Competent Person other than user must complete formal inspection every 12 months. Competent Person to inspect and initial.

IMMEDIATELY REMOVE FROM USE in the event of a FALL.

Date of First Use
Inspection Date
Initials
Made in Taiwan

Diagram A - Connections



Inspection

Prior to EACH use, inspect Beamer Anchor 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 Beamer Anchor 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 Beamer Anchor.

See Inspection Log on page 10

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 harness 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 Beamer Anchor. Separate inspection logs must be used for each Beamer Anchor. All inspection records must be made visible and available to all users at all times. If equipment fails inspection it must be discarded immediately.



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