

A5 CONCRETE EXPANSION ANCHOR



Main Reference Parts # 6300010

Instruction Manual



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✗ Do not throw instructions away.

⚠ Read and understand instructions before using this equipment.

EU Declaration of Conformity

The manufacturer:

Guardian Fall Ltd.

New Road, Sheerness,
Kent, ME12 1PZ,
United Kingdom

declares under its sole responsibility that the range of PPE described hereafter:

A5 Concrete Expansion Anchor

Main Reference: 6300010

is in conformity with the provisions of Regulation (EU) 2016/425 and with the European harmonised standard(s) EN 795:2012 and is identical to the PPE which is the subject of EU Type Examination (Module B) under certificate number 0598/PPE/24/4730 issued by:

SGS Fimko Oy (0598)
Takomotie 8,
FI-00380, Helsinki, Finland

and is subject to the conformity assessment procedure to type (Module D) of the Regulation under certificate number FI20/967124 surveillance of Notified Body:

SGS Fimko Oy (0598)
Takomotie 8,
FI-00380, Helsinki, Finland

Signed for and on behalf of: Guardian Fall Ltd.

Name: Carl Poynter

Place: Sheerness, Kent, ME12 1PZ

Position: Quality and Compliance Manager

Date: 15/10/2024

Signature:



Product Specific Applications



Fall Arrest: May be used to support a **MAXIMUM 1** in a **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 8 kN. Structure must withstand loads applied in the directions permitted by the system of at least 22.2 kN. Maximum free fall is 1.8m or up to 3.7m if used in combination with equipment explicitly certified for such use. A5 Concrete Expansion Anchor may be loaded in any direction, and is permitted for use as a component in a horizontal lifeline system. **D-rings: Dorsal, Sternal (Max 2ft (600mm) fall distance, feet first only).**



Travel Restraint: May be used in Travel Restraint applications. Travel Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for full extended length of connecting equipment. Structure must withstand loads applied in the directions permitted by the system of at least 4.4 kN. No free fall is permitted. Travel Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal). **D-rings: Dorsal, Sternal, Hip (pairs only).**



Work Positioning: May be used in Work Positioning applications. Work Positioning systems allow a worker to be supported while in suspension and work freely with both hands. Structure must withstand loads applied in the directions permitted by the system of at least 13 kN. Maximum permitted free fall is 0.6 m. **D-rings: Side (pairs only).**



Rescue/Confined Space: May be used in Rescue/Confined Space applications. 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. Structure must withstand loads applied in the directions permitted by the system of at least 13 kN. No free fall is permitted. **D-rings: Dorsal, Sternal, Shoulder (pairs only).**

Applicable Safety Standards

When used in accordance with these instructions this product meets or exceeds all applicable requirements of:

- **EN 795 2012 Type B**
- **OSHA 1926.502 & 1910.140**
- **ANSI Z359.18-17 Type A**

For All Product Applications

- **User weight range (including all clothing, tools, and equipment) is 46-190 kg**

Worker Classifications

■ Qualified Person Definition

A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning/reviewing the

■ Competent Person Definition

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.

■ Authorised Person Definition

A person who is assigned by their employer to work around or be subject to potential or existing fall hazards.

Compatibility

When making connections with equipment, 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 this equipment by CP.

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

See diagram A on page 10.

Please contact Guardian Fall Ltd with any questions regarding product compatibility.

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 free fall, maximum arrest distance, harness stretch, a MINIMUM of 0.6 m (2') safety factor, swing fall, and 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 of the A5 Concrete Expansion Anchor. Remove all dirt, corrosives, and contaminants from the equipment before and after each use. If A5 Concrete Expansion Anchor cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean A5 Concrete Expansion Anchor 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.



Specifications

- **Minimum Breaking Strength:**
22.2 kN (5,000 lb)
- **Permitted Service Temperature Range:**
-34°C to 54°C (-30°F to 130°F)
- **Anchorage Connector Type:**
EN 795 2012 Type B
ANSI Z359.18-17 Type A
- **Weight:** 0.25 kg (0.55 lb)

Materials

Galvanised steel, stainless steel, aluminium, polyurethane, nylon, zinc plated copper.

Installation and Use

Minimum Concrete Substrate Requirements:

- **If between** 153 - 305 mm (6 - 12 in) from any edge, hole, or corner: 305 mm (12 in) thick
- **If greater than** 305 mm (12 in) from any edge, hole, or corner: 152 mm (6 in) thick
- **Compression Strength:** Minimum 3,000 psi
- **NEVER** install A5 Anchorage Connector less than 153 mm (6 in) from any edge, hole, or corner.

⚠ WARNING! Do not install into substrates made from materials other than concrete that meets or exceeds these minimum requirements

Step 1

Using a concrete drill bit, drill a 19 mm (3/4 in) hole into the base material to a depth of at least 89 mm (3 1/2 in). Ensure hole is uniform in both shape and diameter with no wide or narrow sections.

Step 2

Blow the hole clean of dust, debris, and other foreign material with compressed air.

Step 3

To install the A5 Concrete Expansion Anchor, place thumb inside the connection loop and first two fingers around trigger. Squeeze thumb and fingers together until the trigger and spring fully compress.

Step 4

Insert A5 Concrete Expansion Anchor a minimum 76 mm (3 in) deep into installation hole and release the trigger. The stop sleeve must always be at least partially inserted into installation hole. **NEVER force A5 Concrete Expansion Anchor into the hole.**

Step 5

Secure A5 Concrete Expansion Anchor by pulling sharply on the connection loop until it securely fixes in place. Ensure device maintains position and minimum 76 mm (3 in) installation depth after seating.

Step 6

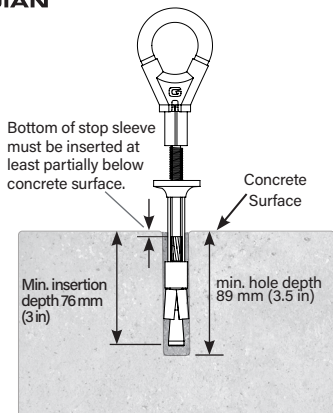
Attach compatible PFAS to A5 Concrete Expansion Anchor connection loop. Maximum one (1) connection permitted at any time.

Step 7

To remove A5 Concrete Expansion Anchor, compress the trigger and spring, and pull out of installation hole.

Step 8

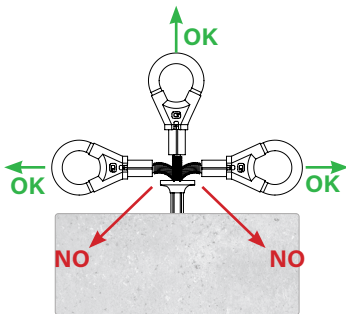
A5 Concrete Expansion Anchor may be removed and reinstalled at multiple locations, provided all installation requirements are met. Always inspect hole prior to installation.



Loading Directions

⚠ WARNING! Never load Concrete Expansion Anchor at an angle greater than 90 degrees.

⚠ WARNING! Never load Concrete Expansion Anchor over the edge of the substrate.



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 or misuse 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 10

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 Authorised 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.

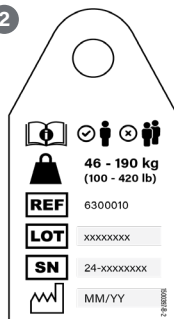
Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the

Labels

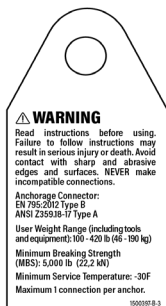
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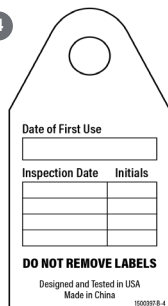
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3



4



1

Guardian
A5 Concrete Expansion
Anchor
EN 795:2012 Type B
ANSI Z359.18-17 Type A
OSHA 1926.502 & 1910.140
CE 0598 UKCA
guardianfall.com
New Road, Kent, ME12 1PZ

3

WARNING

Read instructions before using.
Failure to follow instructions
may result in serious injury
or death. Avoid contact with
sharp and abrasive edges
and surfaces. NEVER make
incompatible connections.

Anchorage connector:
EN795:2012 Type B
ANSI Z359.18-17 Type A

User Weight Range (Including
tools and equipment) 46 - 190
kg (100 - 420lb)

Minimum Breaking Strength
(MBS) 22.2 kN (5,000 lb)

Minimum Service Temperature:
-34°C (-30°F)

4

Date of First Use
Inspection Date Initials
DO NOT REMOVE LABELS
Designed and Tested in USA.
Made in China

2

46-190 kg
(100-420 lb)
1500397-A



Weight



Part Number



Serial Number



Date of Manufacture



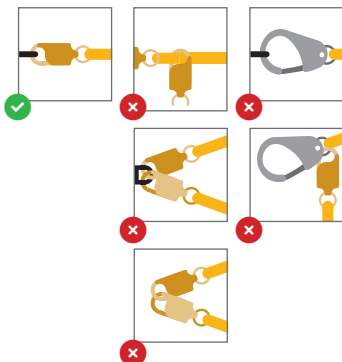
Lot Number



Read Instructions



Diagram A - Connections



Inspection

Prior to EACH use, inspect A5 Concrete Expansion 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 A5 Concrete Expansion 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 A5 Concrete Expansion Anchor.

See Inspection Log on page 11

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.

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

This inspection log must be specific to one A5 Concrete Expansion Anchor. Separate inspection logs must be used for each A5 Concrete Expansion 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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WARRANTY: Guardian warrants to Buyer that all products are free from defects in material, workmanship, and design (if a Supplier-responsible design), however this warranty does not cover conditions resulting from normal wear and tear, neglect, abuse, accident or otherwise. Guardian's obligations under this warranty apply for the lifetime of the products and are limited to the replacement of product only. This warranty is not transferable to any other Guardian service and does not apply to product that is resold after having been put into service. No other person, firm, entity, or the like is authorized to assume or assign for Guardian any other liability in connection with the sale or use of Guardian's products. Furthermore, this warranty is void if any product is changed or altered in any way, or if the product is used in a manner other than for which it is intended. There are no implied warranties of merchantability or fitness for a particular purpose, which are specifically disclaimed.