



ecoAnch₂or®

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Introduction to the ecoAnch₂or® & Scope of Use

Section 1.0

Guardian Fall Protection - Water Weight Anchor - ecoAnch₂or®

The Checkmate ecoAnch₂or® has been designed for your safety when working at height. The anchor is a totally unique concept in fall protection & uses renewable resources for both manufacturer & installation.

The ecoAnch₂or® is compatible with a large variety of roof surfaces including composite & mineral felts. It has been independently tested & exceeds the ANSI Z359.6 standard & even works on roof pitches to 5 degrees.

For a full list of approved surfaces & roof angles please see ecoAnch₂or® supplement available on request from Guardian.

The anchor is safe to use on wet surfaces but NOT shiny or slippery surfaces.

When collapsed the ecoAnchor weighs just 18 lbs. & fits into a small bag for easy installation.

Principal Features

Material

Neoprene Coated Fabric

Dimensions

4.75' x 4.75' x 8"

Weights

Empty = 18 lbs. , Full = 948 lbs.

Pressure Loading

.39 PSI

Puncture Resitance

Meets FED STD 191 Pt.1520
>700N



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Storage, Issue & Inspection

Section 2.0

Storage

This device should be stored in a clean dry place where it can be protected from damage by chemical attack and sharp objects. It should be stored with its instructions and record card at all times.

Return the device back to its original holdall for storage & transportation.
After use return to storage, never leave the device lying around site.

Issue

This and associated equipment must be visually inspected by a competent person when initially delivered to site, there after the product must be inspected before and after use. A inspection form is printed on page 10 of this manual and should be updated after each routine inspection. Follow the points laid down in the section headed "Inspection" without deviation.

The competent person must ensure that the equipment is being used correctly and that the user is aware of its safe use and inspection.

Inspection

Inspect the device for damage or leakage.

Inspect the attachment point for signs of wear or damage.

If in doubt, quarantine and remove from service.

To clean the anchor, a mild detergent can be used with warm or cold water & left to dry naturally before storing.

Ensure that device certification is current before use, the device must have been recertified within the last 12 months and 6 months if used in corrosive or off-shore environments.

If for any reason the inspection of this device shows signs for concern or doubt, the device must be quarantined and removed from service immediately. Qualification should be sought from the competent person and if still concerned the device must be sent to the supplier, an approved service agent or the manufacturer for service and recertification.

**This device must only be serviced by a trained and competent individual,
Never attempt to service this unit or tamper with its function in any way.**



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Installation & System Setup

Section 3.0

Before Use

Only ONE person may be attached to the anchor at any time.

Minimum ground clearance 11.5 feet.

Minimum distance from edge 8 feet.

The anchor **MUST NOT** be used in the following conditions:

Where there is a risk of frost or in freezing conditions

Where there is contamination of the roof surface and/or anchor by oil, grease or other lubricants, or by algae.

The anchor is approved for use **ONLY** on the following surfaces at a maximum pitch of 5 degrees (1 in 12) within the scope of ANSI Z359.6.

Concrete

Tarmac

Felt & mineral

EPDM membrane

Felt & chippings (loose chippings must be removed)

For a full list of approved surfaces & roof angles please see ecoAnch₂or[®] supplement available on request from Guardian.

Before use ensure that the surface you are working on is capable of supporting the weight of the anchor. The weight of the anchor when full is 948 lbs. with a distributed load of 56 lbs. per square foot.

Inspect the anchor for signs of damage or leakage. Inspect the attachment point for signs of wear or damage. Do not use the anchor if either the bag or attachment point show signs of damage.

If the anchor is used on a roof surface of felt & chippings, loose chippings must be removed from the area where the anchor is to be positioned (e.g. by sweeping with a stiff brush) before deployment of the anchor.



Installation & System Setup

Section 3.1

1. Remove from carry bag, unfold & position the anchor so as to maximize the contact area between the base of the anchor & the roof.
2. Avoid areas where there are projections, e.g. bolts, ridges etc. Do not position the anchor in areas where water accumulates.



3. The anchor must be positioned as indicated on the label with the vent at the highest corner & the drain at the lowest point. The vent allows air to escape & prevents the over-pressurising. Incorrect positioning can result in trapped air & underfilling, making the anchor unsafe.



4. The anchor is filled with cold water by simply fitting a hose with an outside diameter of 5/8 in. to 3/4 in. into the filler spout with the rubber bung removed. Filling is complete when water begins to flow from the diagonally opposite vent valve. The anchorage connection is located in the middle of the anchor.
To detach the hose, squeeze the spout, remove the hose & replace the bung.
The anchor should now be completely full of water, any air that can be felt in the bag can be exhausted through the vent.



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Installation & System Setup

Section 3.2

Daily Inspection

5. If the anchor is left filled and in position for more than 24 hours, it must be inspected for each working day for leakage by ensuring the material near the vent is taut. If necessary, refill the bag until water is seen to come out of the vent.

After Use

6. Empty the bag by unscrewing the drain cap. When almost empty, lift the the bag to remove the remaining water.

7. If the external surface of the bag is wet leave to dry before folding.

8. Fold twice as shown in photo, carefully expelling any remaining air until relatively flat.

9. Roll lengthways until compressed into a small roll and secure with fitted straps.

10. Store anchor back into its bag, it is now ready for reuse.



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Anchorage, Compatibility & Warnings !

Section 4.0

Installation

The Device must not be installed where the following hazards may endanger the user or prevent the efficient operation of the system.

The area below the device must be free of obstruction that will prevent the free pay-out of lanyard or rope or may obstruct the movement of the user.

The environment must be free of heavy solvents or acids that will degrade the device.

Install the device so that it is away from the edge, so avoiding swing hazards, minimum 8 feet.

Never install where there is a possibility of electric shock hazards.

When installing ensure that you are not subjecting your self to potential fall hazards, wear a full body harness and shock absorbing lanyard, anchoring yourself while installing.

Use

Fall Protection

Follow the inspection routine laid down in this manual.

Do not use the device in situations where there is less than 11.5 feet of ground clearance.

Connect a lanyard from the anchor to the Rear Dorsal "D" ring of a fall Protection Full Body Harness. Ensure that the hook of the device is secure in the Harness "D" Ring and that the gate of the hook is locked.

Never run or jump while attached to the anchor.

Compatibility

The anchor is suitable for fall arrest when used in conjunction with a Full Body Harness to ANSI Z359.1 (07). Suitable lanyards for connection are to be compliant with ANSI Z359.1 (07) or ANSI Z359.13 (07). This unit is not suitable for use in explosive environments.

Please contact Guardian Fall Protection for any questions you have in regards to product compliance.

Warnings!

Read and understand manufacturers instructions before inspection, installation or use of this product.

Never use this product if you weigh more than 310 lbs.

Only use approved equipment with this product.

If there are any points in this manual that you are unsure of seek a competent, trained person to advise you before using.

Seek medical advice from a doctor before using this product if, you have sustained a spinal injury, suffer from a neck or back complaint, or you are taking prescription medication.

Never use if you are under the influence of alcohol or recreational drugs.

Extra care should be taken if welding whilst using this product, protect the anchor from splatter and heat at all times. Never use this system unattended.

Never use this system unless you are trained on proper use of this system.

Rescue Planning

When using the ecoAnch₂or®, users should always make suitable provisions for rescue.

A full risk assessment should be carried out to determine the most effective, safe and quickest form of rescue.

For more information on specialty rescue systems or training please contact Guardian Fall Protection.



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Quality, Legislation & Exclusions

Section 5.0

5.1 Quality

The Guardian ecoAnchor is strictly manufactured under ISO 9001:2000 and to the highest standards. The scope of use within the certification held allows Guardian to design, manufacture and test Personal Protection Equipment.

Horizontal tensile test machine, abrasion testers and dynamic drop test rig are just part of the full range of test facilities used to ensure ultimate safety of our product range.

All Guardian systems must only be installed by Guardian personnel or an approved installer. Strict training is given and written exams are completed before full certification can be given to installers.

5.2 Legislation and Standards

The ecoAnchor has been designed to meet ANSI Z359.6 (07)

For clarification on any certification issues contact Guardian.

5.3 Exclusions

Guardian will NOT be responsible for;

- a) users who are out of the scope of any written manuals of training given.
- b) any systems that have NOT been inspected under the current requirements.
- c) operators who do not use load limiting devices.
- d) devices that have been damaged.
- e) when the Max weight in lbs. has been exceeded.
- f) devices that have NO serial number markings, and the manufacturers name is not present.



Approved service company:



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