User Manual

ecoAnchor
SAFETY BY DESIGN



Distributed by

Safehold
HEIGHT SAFETY & LIFTING GEAR

ecoAnch$_2$or®

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SECTION 1.0

Introduction to the *ecoAnch$_2$or®* & Scope of Use

Water Weight Anchor - ***ecoAnch2or®***

The Safehold 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 manufacture & installation.

The ecoAnch2or® is compatible with a large variety of roof surfaces including composite & mineral felts. It has been independently tested & exceeds the EN795 Class E standard by working at angles greater than 5 degrees. It can safely be used on some surfaces up to 15 degrees.

For a full list of approved surfaces & roof angles please see section 3.

The anchor is safe to use on wet surfaces but **NOT** use on shiny or slippery surfaces such as PVC or similar roofing membranes, painted surfaces, surfaces contaminated with oil based residues or any other such surfaces which become slippery when wet.

Principal Features

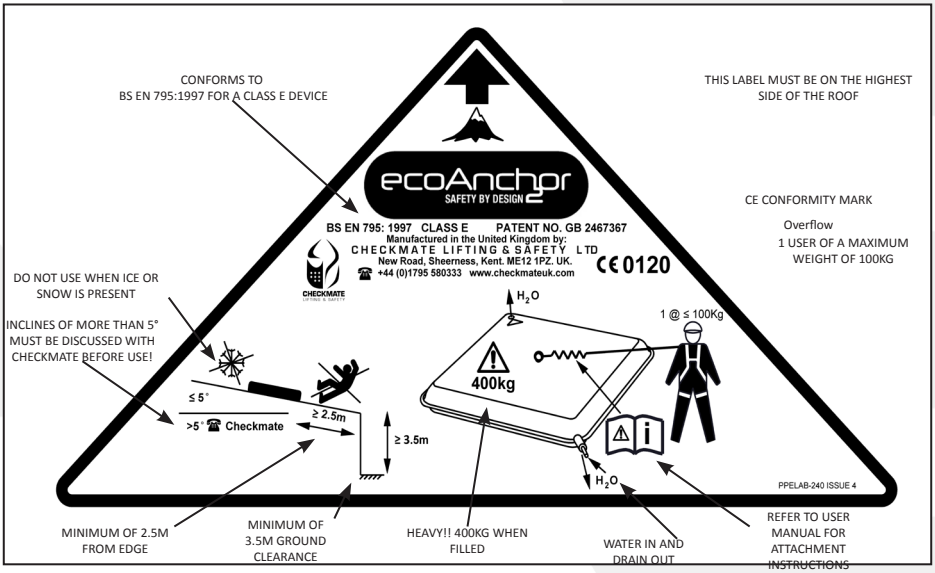
Material - Neoprene Coated Fabric

Dimensions - 1.45m x 1.45m x 0.2m

Weights - Empty = 11.7kg, Full = 400kg

Pressure Loading - 2.7kN/square metre

Puncture Resisitance - Meets FED STD 191 Pt.1520 >700N



SECTION 2.0

Storage, Issue & Inspection

Storage

Storage in a central protected location allows assurance of inspection on issue and return.

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 it's original holdall for storage & transportation.
After use return to the store, 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 record card is printed on the page 10 of this manual and should be completed when first put into service, and updated after each routine inspection. Follow the points laid down in the section headed "Inspection" without deviation.

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

Pre-Use Inspection

The inspection must be performed by a competent person.
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.
Check the user instructions are clear & legible.
To clean the anchor, a mild detergent can be used with warm or cold water & left to dry naturally before storing.

Periodic Inspection

Ensure that device certification is current before use, the device must have been fully inspected by a competent person within the last 12 months and 6 months if used in harsh or off-shore environments.

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

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.

The ecoAnch$_2$or® has an expected life of at least five years exposed, and significantly longer wrapped up and stored correctly in the bag. The lifespan is dependant upon regular and correct inspection, but is estimated to be a minimum of five years from when it was first put into service.

SECTION 3.0

Installation & System Setup

Before Use

Only ONE person may be attached to the anchor at any time.
Minimum ground clearance 3.5 metres.
Minimum distance from edge 2.5 metres.
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 11) within the scope of the PPE directive EN795 Class E.

- Concrete
- Tarmac
- Felt & mineral
- EPDM membrane
- Felt & chippings (loose chippings must be removed)

Approved surfaces and angles

SURFACE	0°	5°	10°	15°
Concrete	√	√	√	√
Tarmac	√	√	√	√
EPDM textured rubber mambrane	√	√	√	√
Mineralised Felt	√	√	√	√
Felt & Chippings (Scattered & Swept)	√	√	√	X

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 400kg with a distributed load of 273kg per square metre.
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.

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SECTION 3.1

Installation & System Setup

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 16mm to 20mm into the filler spout with the rubber bung removed. Filling is complete when water begins to flow from the diagonally opposite vent valve. 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.



Installation & System Setup

Daily Checks

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 neccessary, 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. Stow anchor back into it's holdall, it is now ready for reuse.



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SECTION 4.0

Anchorage, Compatibility & Warnings !

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 2.5 metres.
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 whilst installing.

Use

Fall Protection

Follow the inspection routine laid down in this manual.
Connect approved PPE (see compatibility on Page 8) from the anchor to the Rear Dorsal "D" ring (or approved anchorage maked with A) on a full body harness that meets EN361. 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 whilst attached to the anchor.

Ground Clearance

Do not use the device in situations where there is less than 3.5 metres of ground clearance. For situations where less than 3.5m ground clearance is available, please seek approval from Safehold before use.

Compatibility

The anchor is compatible with fall arrest or restraint devices that limit loads to below 6kN.
This does not negate the need for a thorough risk assessment and consideration should be given to ground clearance, swings falls and sharp edges.

This unit is not suitable for use in explosive environments, frost or ICE.

Attachment devices (SRL's/Lanyards etc.) must be approved to:
•EN355 for energy absorbing lanyards,

•EN360 for Safehold branded SRL's (due to differences in performance characteristics, non-Safehold branded SRL users must seek approval from Safehold before use) or

•EN353-2 for guided type fall arresters including a flexible anchor line.

Any devices outside of this scope of standards can only be used with prior approval from Safehold.

If in doubt contact your approved Safehold technical support for further details.

Warnings!

Read and understand manufacturer's instructions before inspection, installation or use of this product.
Never use this product if you weigh more than 100kg
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 supervised by a trained and competent person.

Rescue Planning and Training

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 specialist rescue systems or training please contact the Safehoild technical team, where our training division can offer a full range of training courses.

Quality, Legislation & Exclusions

SECTION 5.0

5.1 Quality

All Safehold products are manufactured under ISO 9001:2008 and to the highest standards. The scope of use within the certification held allows Safehold to design, manufacture and test Personal Protection Equipment.
Horizontal tensile test machine, abrasion tester 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 Safehold devices must only be installed by Safehold personnel or a trained operator. Strict training is given and written exams are completed before full certification can be given to operators.
(EC type examination for Directive 89/686/EEC by SGS United Kingdom Limited. Weston-super-Mare, BS22 6WA. UK. (Notified Body No.0120.)

5.2 Legislation and Standards

The ecoAnchor has been designed to meet BS EN 795:1997 Class E

For clarification on any certification issues contact Safehold or SGS UK.

5.3 Exclusions

Safehold holds global product liability cover for your safety.
Safehold will NOT however 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 legislation.

c) Operators who do not use load limiting devices.

d) Devices that have been damaged.

e) When the Max weight in Kg has been exceeded.

f) Devices that have NO serial number markings, and the manufacturers name is not present.

5.4 Patents

Protected under
Patent No.
GB 2467367

ecoAnch$_2$or®

SECTION 6.0

SECTION 6.0

SERIAL NO:

DATE:

PRODUCT CODE:

USER:

DATE	CONDITION OF SYSTEM	INSPECTED BY

Record Card (continued)

DATE	CONDITION OF SYSTEM	INSPECTED BY

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Distributed under license by:
Safehold Ltd, Unit 1-3 Eaves Court, Bonham Drive, Sittingbourne, Kent. ME10 3RY
www.safe-hold.com
+44 333 015 2552

Safehold
HEIGHT SAFETY & LIFTING GEAR

Manufactured by:
Checkmate Flexible Engineering Ltd, 6 Pegasus Way, Melksham, Wiltshire SN12 6TR