

SCISSORSAFE

Reusable Cast-in Fall Arrest
Anchorage.

INSTRUCTION MANUAL



ScissorSafe, TYPE SCS003

According to EN-795:1997 B

Personal Protective Equipment

CE Certified

DOC: JJ-0812 / DATE: 13/11/2012

Patented product. **SafetySeeds®** Anchorages.

www.safetyseeds.com

Safety considerations

The Scissorsafe Anchorage System is a cast-in ,reusable fall arrest anchorage system intended solely for use as a portable, temporary Fall Arrest Anchorage serving to protect the user in conjunction with a full body harness (EN361) and connecting lanyard (EN354 & 355) or inertia reel device (EN360).

Cast-in anchorage points are placed in temporary formwork structures for wall, slabs, columns and inclined surfaces.

The unique tee shape of the Scissorsafe cast-in mould and the action of the anchor tools movement when locked into the cast-in mould provides a 22 kN fall arrest anchorage point. The Scissorsafe reusable anchorage tool is a component part of a fall arrest or work restraint system and should only be provided on a personal issue basis to trained users or someone under the direct supervision of a trained person.

The anchorage must only be used for its intended purpose - failure to comply with User Instructions could result in danger to life.

Fall arrest equipment may only be used by trained persons, their state of mind must not be impaired in any way (alcohol, drugs, medicines, heart or circulation problems).

Do not modify , alter or attempt to carry out repairs to the device.

Damaged devices should be reported to the manufacturer / Distributor who can assess the extent of the damage and arrange repair or replacement accordingly.

The Scissorsafe Anchorage Tool will not allow connection until the connection eyes are completely aligned. It is only at this point that the device will accept a 10mm karabiner. When the device is fully engaged it cannot disengage until the user purposely removes the connector and non-aligns the blades with light hammer blows.

The device is locked for use by inserting a 10mm Karabiner (EN 362) through the anchorage eye. It is not permitted to replace this connector with any other type of connector or to use linked connectors unless in a rescue situation. (*please refer to page 9 - connector misuse*).

Applications

When the concrete has achieved a strength of 25kN the user simply inserts the Scissorsafe anchorage tool into the cast-in anchorage point.

Anchorage must be positioned vertically above the intended work area to reduce the risk of pendulum swing in the event of a fall. The recommended limitation to prevent the user from swinging to and fro in the event of a fall is 30 degrees in a horizontal direction from the overhead anchorage.

The Anchorage can only protect one person at a time during use. However it may be used

Inspection

Before using or directing the use of the device, it is crucially important to carry out a pre-use check. Do not use the device if it has not been fully inspected by an expert within the last twelve months. *(Please refer to page 7 of this manual for pre-use, Interim and full Inspection Instructions.)*

Working conditions

This Anchorage device can be used in the temperature range from -10 deg. to +40 deg. Celcius. The Scissorsafe device is a single person anchorage device, to be used in a fall arrest system, typically when an energy absorbing lanyard, retractable type fall arrester or guided type fall arrester is being used. It is important to check the working load limit of the fall arrest device to be used in conjunction with Scissorsafe device. The working load limit of the Anchorage device is 136kg. Protect against the effects of welding flames and sparks, fire acids, caustic solutions and similar. Do not modify the device. Fall arrest equipment may only be used by trained persons, their state of mind must not be impaired in any way (alcohol, drugs, medicines, heart or circulation problems).

Rescue

A rescue plan taking into account all possible rescue scenarios during the work must be drawn up. A task specific rescue plan must be prepared and specialist rescue equipment must be available to the user. In the event of a fall, the person must not be exposed to a prolonged state of hanging for longer than 20 minutes (danger of shock).

Removal from Use

Scissorsafe Anchorage devices should be immediately removed from use if there is any doubt about its condition or if it has been used to arrest a fall.

In these circumstances please contact Safety Integrated Solutions SL. for further advice.

The correct installation, use and maintenance of the Anchorage device is paramount to its continued performance and reliability.

Safety Integrated Solutions SL.

C/Pere Costa 14, A 3

08024, Barcelona, Spain.

Phone: 0034 677 745 590

Fax: 0034 934 556 161

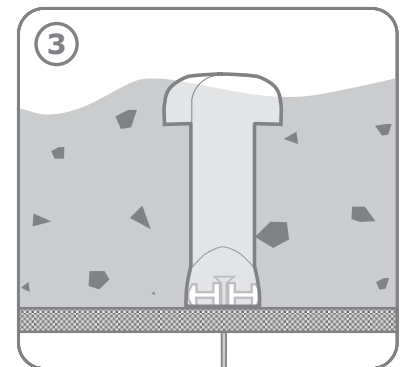
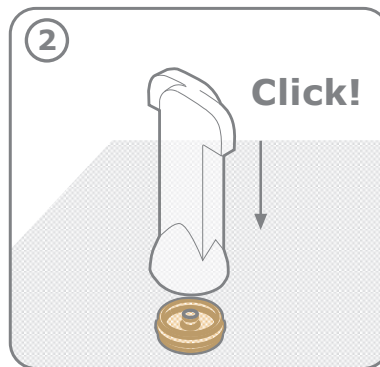
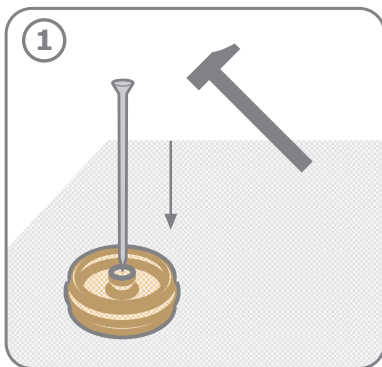
info@safetyseeds.com / <http://www.safetyseeds.com>

Using the Scissorsafe Anchorage System

Part one.- Installing moulds into the formwork.

Scissorsafe Insert Moulds are cast into the concrete to create an anchorage point in concrete walls and decks to allow the entry and exit of the ScissorSafe Anchorage Tool. Before installing Scissorsafe expendable insert moulds into the formwork, carefully plan their positions, avoiding placement too close to concrete edges or joints or into concrete thicknesses less than 170mm.

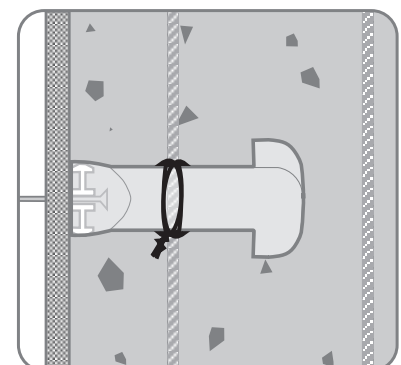
The minimum distance required from the edge of concrete is 150mm but If it is possible, place the inserts 1000mm from the leading edge to provide a safe distance to reach the anchorage point. Moulds should not be placed closer than 300mm apart.



1.- Nail or screw Scissorsafe Discs onto the inside face of wall formwork or on top of the decking material using a nail.

2.- Place the moulds over the discs and press until you it clicks into place. The perimeter rim of the mould will be in contact with the shutter face.

When installing the mould horizontally onto columns, slabs or wall formwork it is recommended that the mould is wire tied to reinforcement steel to ensure it remains in position throughout the pour.

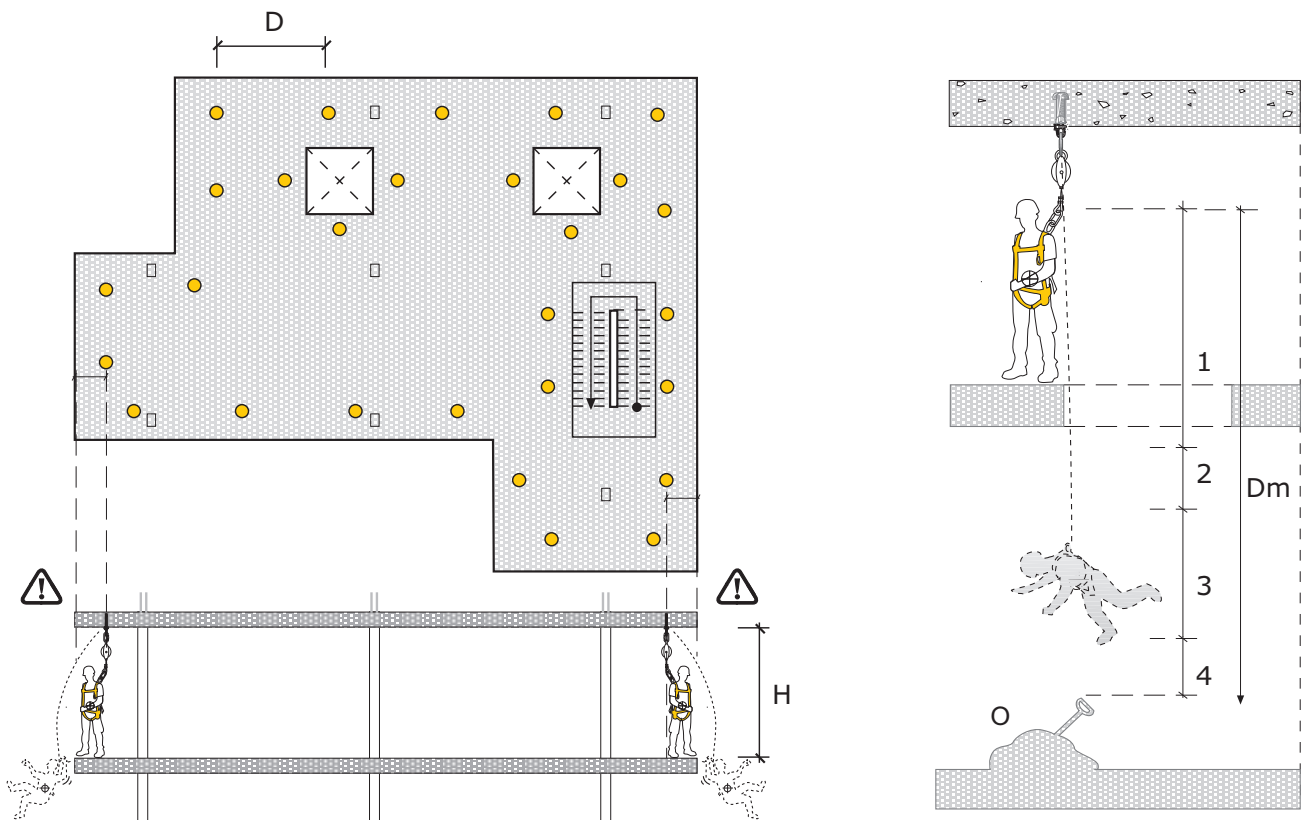


3.- Pour concrete, being careful to avoid the moulds when vibrating .

Planning Overhead Anchorage Positions

Anchorage must be positioned as vertically as possible above the intended work area so as to prevent the user from swinging to and fro in the event of a fall. Anchorage positions should be positioned to allow in the event of a fall, the user to fall into a fall path free of obstructions such as bulk materials or equipment, or into a surface into which they can sink.

Fall Arrest equipment should always be mounted directly overhead the area where work takes place to limit the angle created by the lifeline. The user attached to the anchorage should work in an arc no more than thirty degrees from vertical to avoid a potential swing fall hazard or pendulum swing.



H	D
2000mm	2400mm
2250mm	2600mm
2500mm	2800mm
2750mm	3200mm
3000mm	3400mm
3250 mm	3800mm
3500mm	4000mm
3750mm	4400mm
4000mm	4600mm

H: Height from top of floor to underside of slab.

D: Horizontal spacings for cast-in anchorage mould inserts.

Dm: Required fall clearance distance.

O: Obstruction.

1: Length of Lanyard.

2: Deceleration Distance.

3: Height of suspended worker.

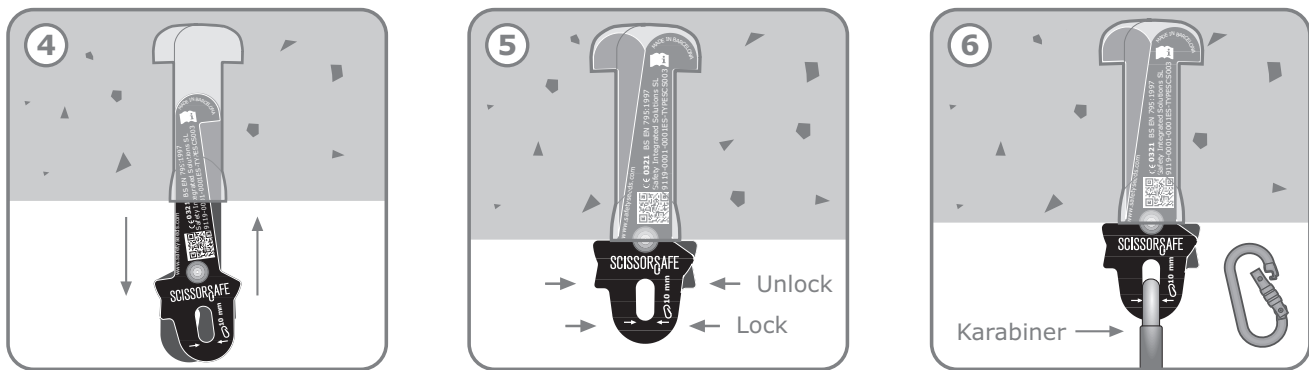
4: Safety margin.

Part two.- Using the Scissorsafe Anchorage System

4.- Removal of the formwork will expose the Scissorsafe mould Inserts. Remove the Plastic Disc by pulling on the fixing nail or screw with pliers. Ensure that there are no cracks in the concrete around the immediate area of the Mould Insert. The concrete must achieve a strength of 25 kN/cm² before a Scissorsafe Tool can be used in the Anchorage Insert.

5.- Align the blades of the Scissorsafe Tool and push it into the Anchorage Insert until its shoulders are flush to the concrete face. Tap gently on the side edge of the Tool shoulders to align the two holes.

6.- When the holes are perfectly aligned will the Anchorage Tool accept the 10mm karabiner connector attached to the Lanyard or inertia reel. Do not use a karabiner or connector if it is less than 10mm in diameter. Once the 10mm karabiner is locked, tug sharply to ensure that the Anchorage is locked.



Pre-use check

It is essential that a pre-use check is carried out before each occasion that a fall arrest component is to be used. Pre-use checks should be tactile and visual ensuring that the entire component is inspected.

Pre-use check list

- Are the Anchorages positioned a minimum of 150mm from concrete edges?
- Is the concrete surface consistent, without cracking?
- Has the concrete achieved a strength of 25 kN/cm² minimum?
- Has the Anchorage Tool an unobstructed passage into the cast-in mould?
- Are you connecting with a 10mm karabiner with a working closure?

Inspection

The Work at Height Regulations places duties on employers and other duty holders concerned with managing or carrying out work at height. There are also requirements in BS EN 865:2002 and BS 8437 which contain both general and specific information on periodic inspection of fall protection equipment.

Scissorsafe system and kit components carry obsolescence dates and any component that has reached this date and which has not been rejected for other reasons, should be withdrawn from service and not used again.

Employers should establish a regime for the inspection of equipment. It is essential that a competent person is given the authority to make objective decisions and take appropriate action, even if this means rejecting a component- at the cost of delaying a work task. The inspection regime should include:

- The equipment to be inspected
- User training
- Safe keeping, updating and access of User record cards
- Frequency and type of inspection relevant to each component
- Action to be taken if a defective component is found.

Detailed inspections

These are in-depth inspections carried out when a component reaches its obsolescence date, which is generally twelve months after purchase and at twelve month anniversaries. These dates should be regarded as the minimum requirement and detailed inspections or interim inspections may be carried out more frequently.

Scissorsafe components are provided with User record cards designed on a tickbox format to assist the inspector. If the User record card is missing a copy can be downloaded from www.safetyseeds.com. If the user cannot read the components test date from its label, there is a test date checker on the aforementioned website which sends a prompt response to enquiries of this type.

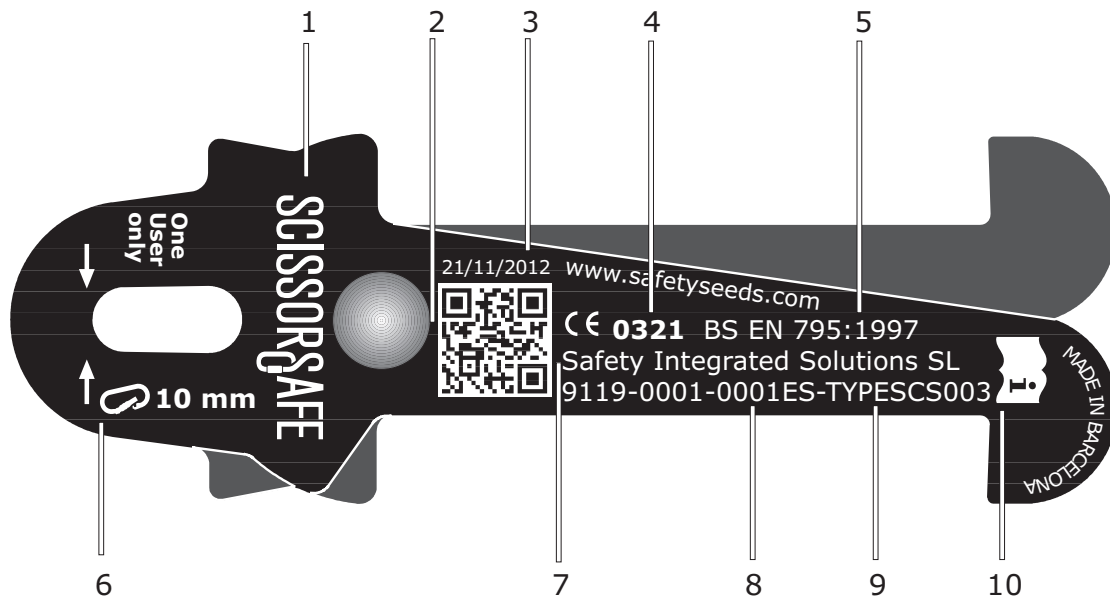
Interim inspections

A further in-depth inspection which may be required in addition to pre-use checks and Detailed inspections. The need for the Interim inspection will depend on how and in what type of environment the component is being utilised. The results of Interim inspections should be noted on the User record card.

Labelling and Identification

The Scissorsafe Anchorage Device is manufactured to strict quality standards and manufacturing process are strictly monitored by Satra Ltd, a European Notified Body (0321) to meet the requirements of the CE certification.

Traceability to raw materials, processes and coatings are audited through annual audit and batch testing to ensure the ultimate safety of the user.



- | | |
|---------------------------------|---------------------------------|
| 1.- Product Trademark logo. | 2.- QR Code. |
| 3.- Date of manufacture. | 4.- Certification body. |
| 5.- Regulation. | 6.- 10mm karabiner instruction. |
| 7.- Manufacturer / Distributor. | 8.- Serial number. |
| 9.- Product Code. | 10.- Instruction pictogram. |

If in doubt

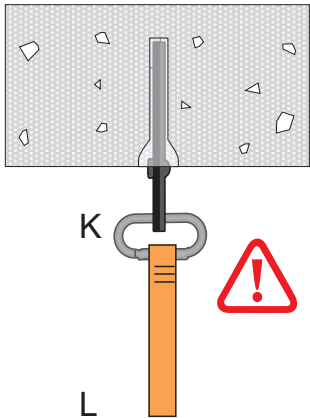
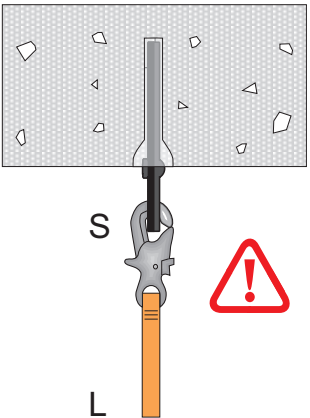
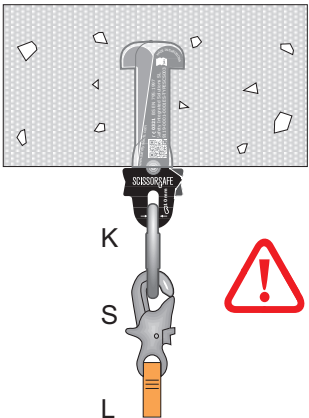
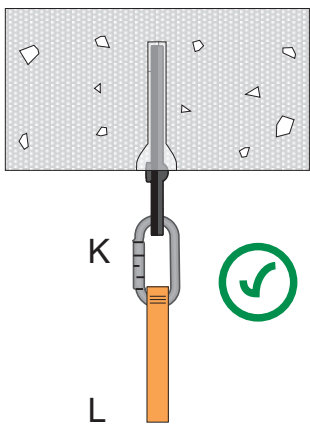
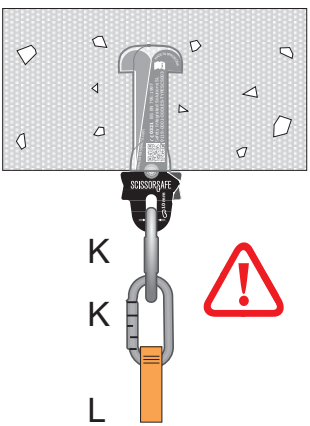
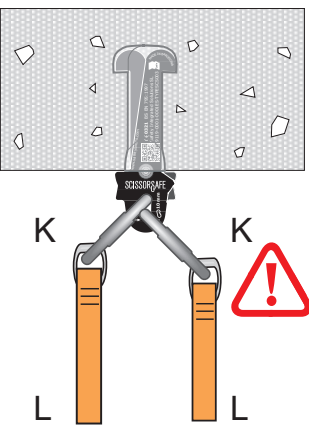
ScissorsafeAnchorage devices should be immediately removed from use if there is any doubt about its condition. In particular the checker should be alerted to signs of corrosion, abrasion, cuts, misalignment, non-original connector etc. or if it has been used to arrest a fall. In these circumstances or if you are in any doubt whatsoever please contact Safety Integrated Solutions SL. for further advice.

Connecting to the Scissorsafe Anchorage Tool

Scissorsafe anchorage tools are designed to accept a 10mm karabiner connector to align and lock the blades into the pre-cast insert moulds.

Scissorsafe lanyards and Inertia reel devices are manufactured with only this type of connector so that the anchorage cannot be inadvertently misused.

The Scissorsafe Anchorage Tool will not allow connection until it is fully engaged and cannot close or slip until the user purposely removes the connector.

		
<p><i>Incorrect Scissorsafe Connection Karabiner In wrong axis</i></p>	<p><i>Incorrect Scissor safe Connection Lanyard snaphook</i></p>	<p><i>Incorrect Scissorsafe Connection Lanyard snaphook onto Karabiner</i></p>
		
<p><i>Correct Scissor safe Connection 1-0mmKarabiner</i></p>	<p><i>Incorrect Scissorsafe Connection Linked Karabiners</i></p>	<p><i>Incorrect Scissorsafe Connection More than one Karabiner</i></p>

L: Lanyard, K: Karabiner, S: Snaphook

Independant assessment

The Scissorsafe Anchorage Device is manufactured to strict quality standards and manufacturing process are strictly monitored by Satra Ltd, a European Notified Body (0321)to meet the requirements of the CE certification

If you would like to know more about CE Certification or PPE Directives please contact Satra Ltd. directly:

SATRA Ltd. Wyndham Way,
Telford Way, Kettering,
Northamptonshire,
NN16 8SD,
United Kingdom

Storage

We recommend that the Scissorsafe Anchorage Device is stored when not in use in the tough plastic sealable bag in which it was delivered to protect it from water and chemicals. If purchased as part of a kit, please store and transport with the components with which it was supplied in the purpose made kit bag.

Rescue

It is crucially important to develop and be prepared to implement a rescue plan appropriate to the type of work and working environment that the Scissorsafe Anchorage System is being employed. For further advice please contact Safety Integrated Solutions SL. In the first instance and we will direct you to an expert in this field.

Legislation and further reading

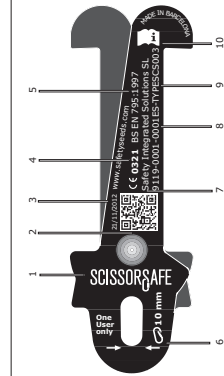
- BSEN 365:2004; Personal protective equipment against falls from a height.
- BSEN 795:1997; Protection against falls from a height. Anchor devices - Requirements and testing.
- BS8437:2005 Code of practice for selection, use and maintenance of personal protection systems and equipment for use in the workplace.

User Record Card of ScissorSafe anchorage tool

Product Code: _____ Serial Number: _____ Date purchased: _____
 Date first used: _____ Company: _____ Job Site: _____
 Date: _____ Location: _____

Inspection Criteria	Period 1	Period 2	Period 3	Period 4	Period 5	Period 6
Are blades in good condition?						
Are blades bent or deformed ?						
Is Pivot & nut pin In good condition?						
Is Pivot pin straight?						
Is the Pivot pin & nut weld intact ?						
Is the internal stopper pin preventing free movement of blades?						
Is there any corrosion?						
Are the labels legible?						
Notes:						
Name of Inspector:						
Signature:						

This Inspection Log is intended for the inspection of **ScissorSafe**, product code SCS003, Personal Fall Arrest Anchorage device, every 12 month, in accordance with the manufacturers instructions by a competent person.



- 1.- Product Trademark logo.
- 2.- QR Code.
- 3.- Date of manufacture.
- 4.- Certification body.
- 5.- Regulation.
- 6.- 10mm karabiner instruction.
- 7.- Manufacturer / Distributor.
- 8.- Serial number.
- 9.- Product Code.
- 10.- Instruction pictogram.

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