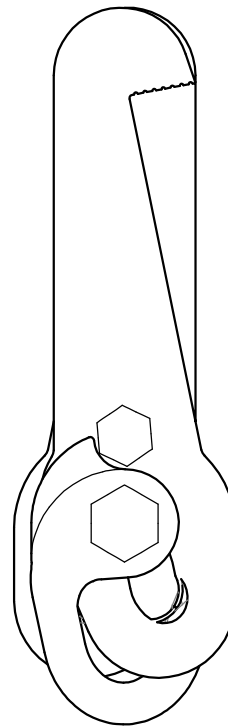
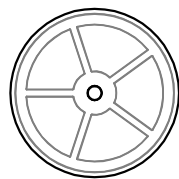
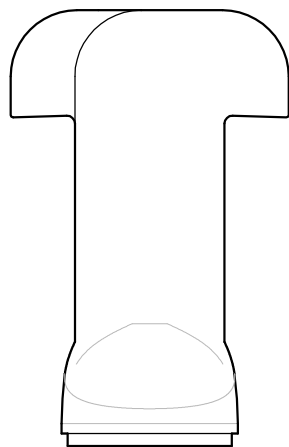


ScissorSafe

USER'S MANUAL



DESCRIPTION OF THE SYSTEM AND COMPONENTS

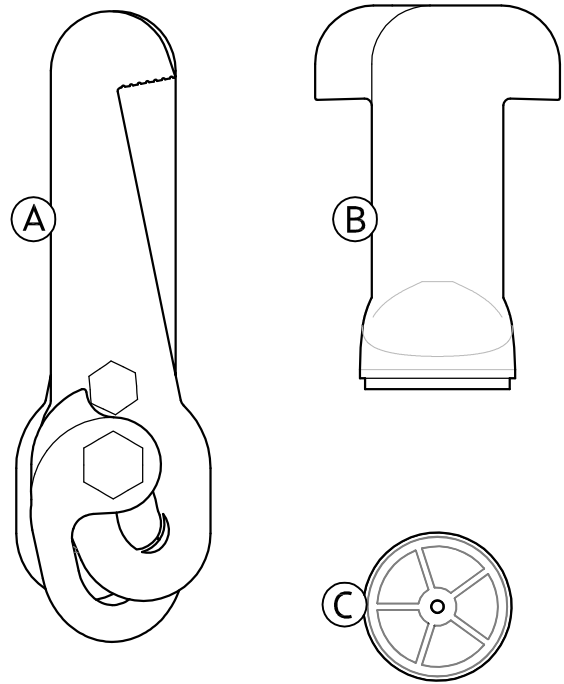
Scissorsafe is a 5,000 (ft. lbs.) (22kN) reusable safety anchor which is installed by nailing a cap to the formwork in a slab, wall or column and snapping a hollow plastic sleeve onto it which creates a pre-casted hollow hole once formwork is removed. (minimum 4,000 psi concrete) leaving ready to use tie-off points without any drilling.

Anchor points are placed everywhere needed, allowing the workers to easily create horizontal lifelines and single point tie-offs to move from one work area to another by design, providing safety to workers from the beginning to the end of the project. Scissorsafe is Simple, User friendly, Easy-To-Use for Fall Protection or Fall Restraint.

ScissorSafe can provide a connection point between a workers lanyard, self-retractable lifeline, or horizontal lifeline in case of a fall or to limit the workers access to the leading edge.

SCISSORSAFE SYSTEM COMPONENTS;

- A: SCISSOR CONCRETE ANCHOR
- B: CONCRETE SLEEVE (VOID FORM)
- C: NAIL OR SREW CAP

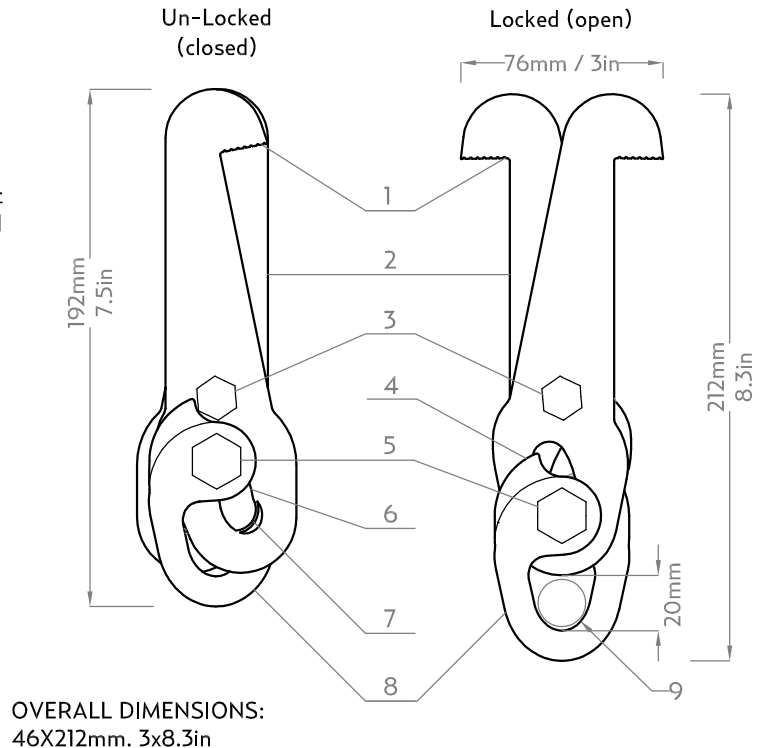


DESCRIPTION AND PARTS OF THE ANCHORAGE

ScissorSafe a removable concrete scissor anchor device with two extendable feet which open inside the pre-casted sleeve by sliding down its pivoting shackle to form a designated 5,000 lb (22kN) anchorage Tie-off point where workers can attach.

Scissorsafe unwanted disconnect is avoided by its design not disengaging without first disconnecting from the shackle and pushing up on it to close the feet.

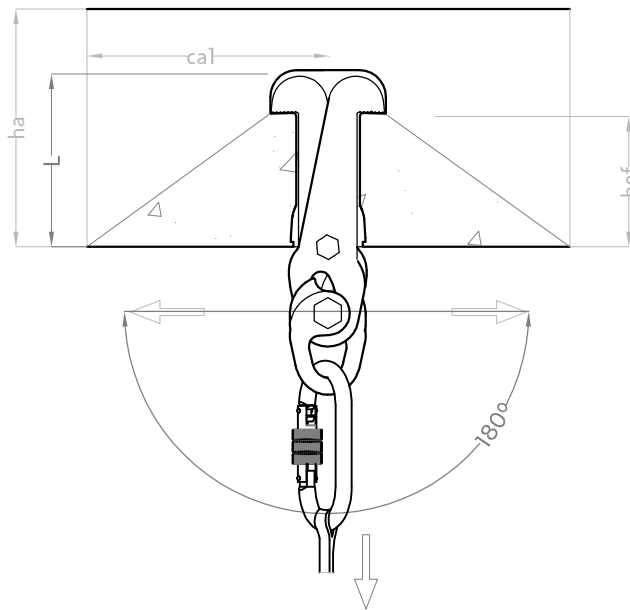
- 1.1. ANCHOR FOOT
- 1.2. ANCHOR LEG
- 1.3. AXIS BOLT
- 1.4. SECURITY FIN
- 1.5. SHACKLE BOLT
- 1.6. BOLT SLOT
- 1.7. FALL INDICATOR
- 1.8. SHACKLE BODY
- 1.9. CONNECTOR ROD DIAMETER
Min: 6mm. 1/4in.
Max: 18mm. 11/16in



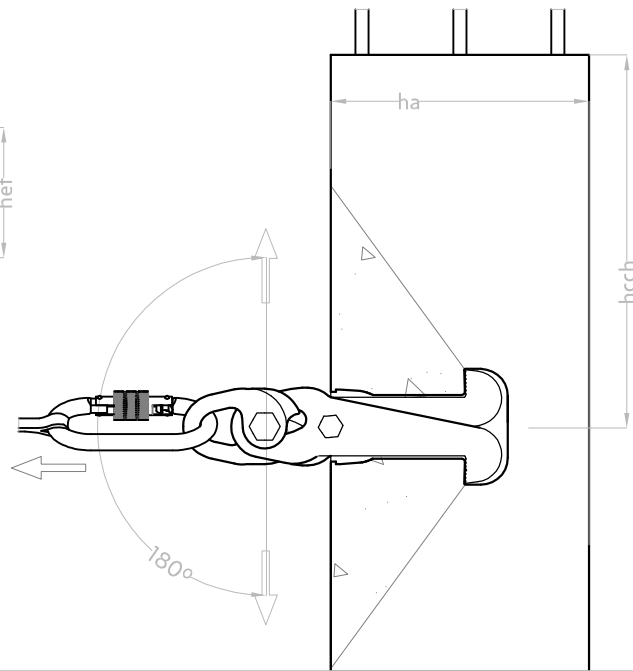
TECHNICAL SPECIFICATIONS

ha,min = Minimum concrete thickness = <i>This is the minimum concrete thickness support.</i>	165mm.	6.5in.
hcch = Maximum concrete column height = <i>This is the distance from the top of the concrete element to the anchorage.</i>	500mm.	20in.
L = Overall length of anchor =	140mm.	5.5in.
hef = Effective embedment depth of anchor = <i>This is the distance from the surface to the anchorage bearing area.</i>	90mm.	3.5in.
cal = Distance from the anchorage to the edge of concrete =	200mm.	8in.
f' c = Specified compressive strength of concrete =	4000psi	

SLAB (CEILING)



COLUMN/WALL



ANCHORAGE STRENGTH REQUIREMENTS FOR SPECIFIC APPLICATIONS

Fall Arrest

The structure to which a personal fall arrest system is attached must sustain static loads applied in the directions permitted by the fall arrest system of at least: 5,000 lbs for non-certified anchorages, or two times the maximum arresting force for certified anchorages (designed by qualified person). See ANSI Z359.2. OSHA 1926.500 and 1910.140: Anchorages used for attachment of a personal fall arrest system must be independent of any anchorage being used to support or suspend platforms, and must support at least 5,000 lbs per user attached; or be designed, installed, and used as part of a complete personal fall arrest system that maintains a safety factor of at least two, and that is supervised by a qualified person.

Restraint/Travel Restraint

The structure to which a restraint system is attached must sustain static loads applied in the directions permitted by the restraint system of at least 1,000 lbs for non-certified anchorages, or two times the foreseeable force for certified anchorages. See ANSI Z359.2. When more than one restraint system is attached to an anchorage, the strengths stated above must be multiplied by the number of restraint systems attached to the anchorage.

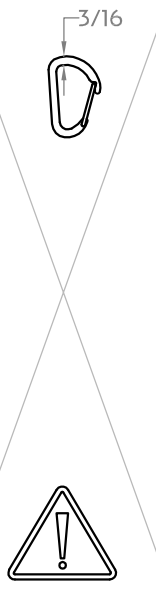

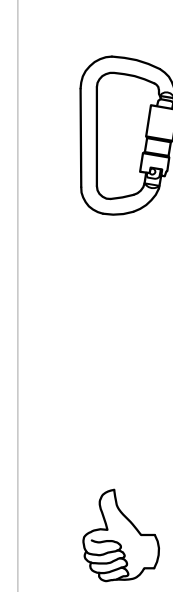
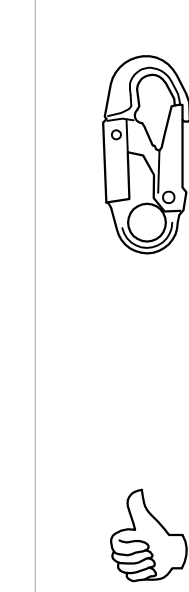
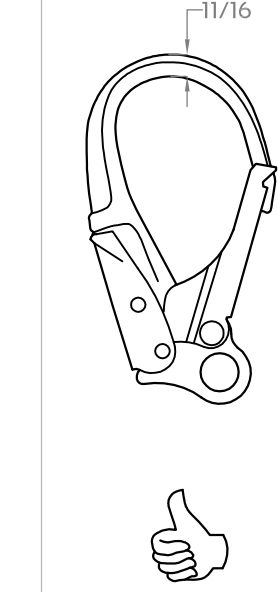
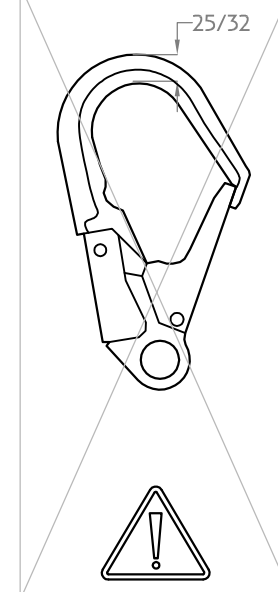
Positioning/Work Positioning. The structure to which a work positioning system is attached must sustain static loads applied in the directions permitted by the work positioning system of at least 3,000 lbs, or twice the potential impact load, whichever is greater. See OSHA 1926.502. ANSI Z359.2: 3,000 lbs for non-certified anchorages or two times the foreseeable force for certified anchorages. When more than one work positioning system is attached to an anchorage, the strengths stated above must be multiplied by the number of work positioning systems attached to the anchorage.

Rescue

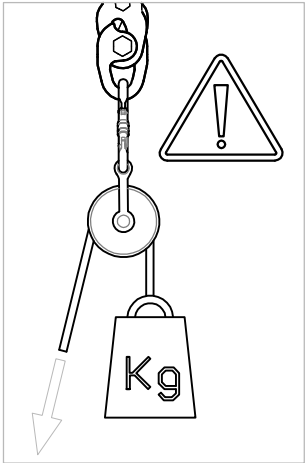
The structure to which a rescue system is attached must sustain static loads applied in the directions permitted by the rescue system of at least 3,000 lbs for non-certified anchorages, or five times the applied load for certified anchorages. When more than one rescue system is attached to an anchorage, the strengths stated above must be multiplied by the number of rescue systems attached to the anchorage (re: ANSI Z359.2).

COMPATIBLE CONNECTORS AND APPLICATIONS

Use only compatible connectors with this device. Connectors strength must meet the 5,000 lb requirement. Use only self-locking snap hooks or carabiners meeting a minimum requirement of ANSI Z359.1-99. Only use connectors that are designed for each application. Ensure that all connectors are fully closed in the locked position. Connectors break strength must meet the 5,000 lb / 22kN requirement.

					
WIRE GATE CARABINER	OVAL CARABINER T. LOCK	D-SHAPE T.-LOCK CARABINER	DBL. LOCKING SNAP-HOOK	FORGED REBAR DBL. LOCKING SNAP-HOOK	ALUMINUM SCAFFOLD-HOOK
MIN 22kN (BREAKING LOAD, MAYOR AXIS). MINIMUM ROD DIAMETER (X) 1/4in AND MAX 11/16in.					

Double-action twist-lock carabiners require two actions to open, ensuring that carabiners cannot be opened accidentally. OSHA approves for fall protection only carabiners with gates that must be rotated then drawn back to open. The carabiner locks automatically when released to ensure that it's ready for use. Fall-rated carabiners are used as part of a personal fall protection system to connect lanyards/SRLs to harnesses or anchor points.

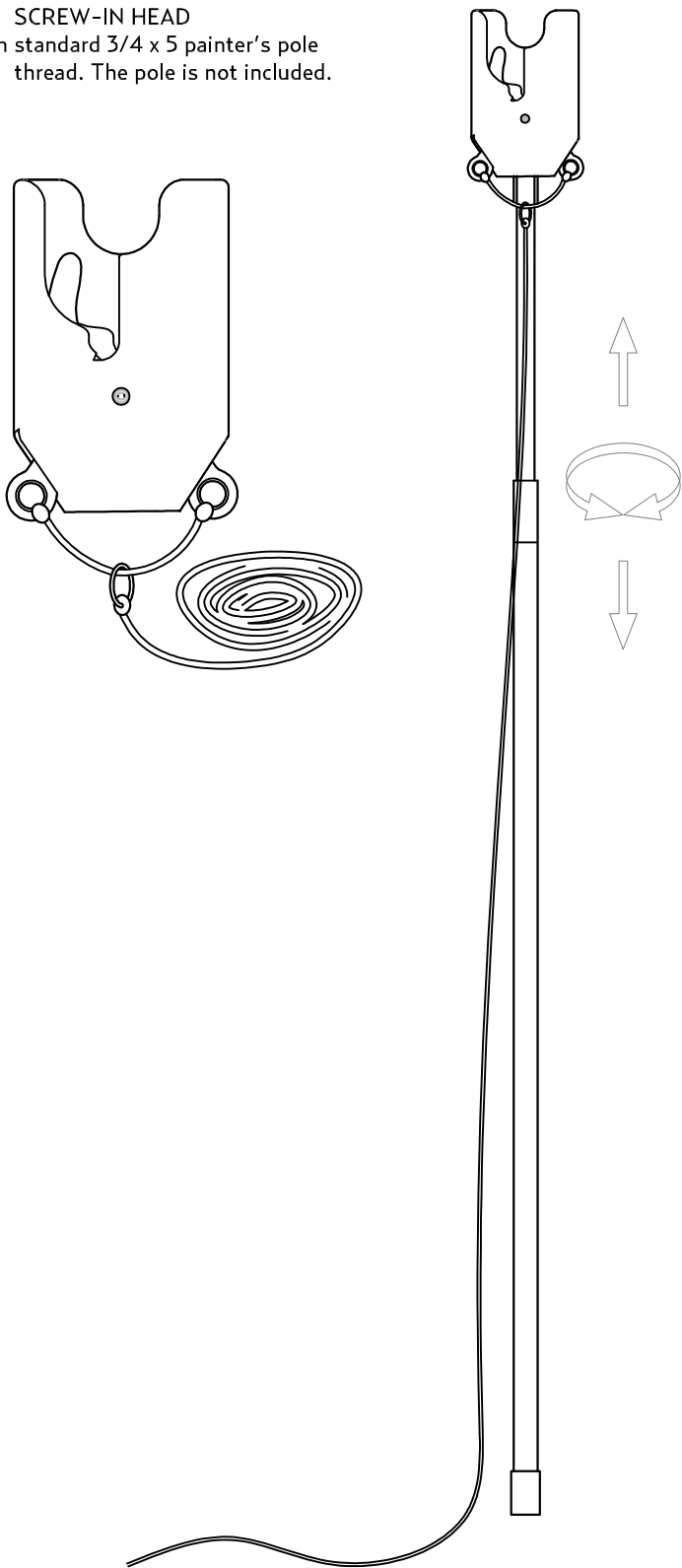


ScissorSafe anchorage is designed for fall protection and work restrain only.
DO NOT USE THE ANCHORAGE FOR LIFTING OR TIE-DOWN APPLICATIONS.

IN&OUT ACCESORIES

The In&Out system aids in installing and removing a Scissorsafe tie-off anchor in overhead installations without the need of a ladder or scaffold. It is composed by a extension pole for installtting and removal of the anchorage and a extender sling for lowering the connection.

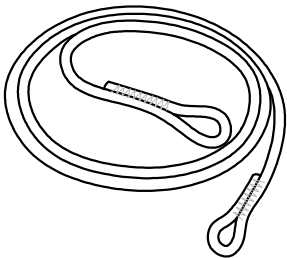
A: SCREW-IN HEAD
with standard 3/4 x 5 painter's pole
thread. The pole is not included.



B: EXTENDER SLING

The Scissorsafe extender Sling moves attachment point lowere to a height any user can easily reach with their hads.

NOTE: NO SUBSTITE ONLY A SCISSORSAFE EXTENDER SLING made by Scissorsafe may be installed.
The reusable anchorage extender sling can only be used with the Scissorsafe anchor for fall protection applications. Always connect a compatible accessory.

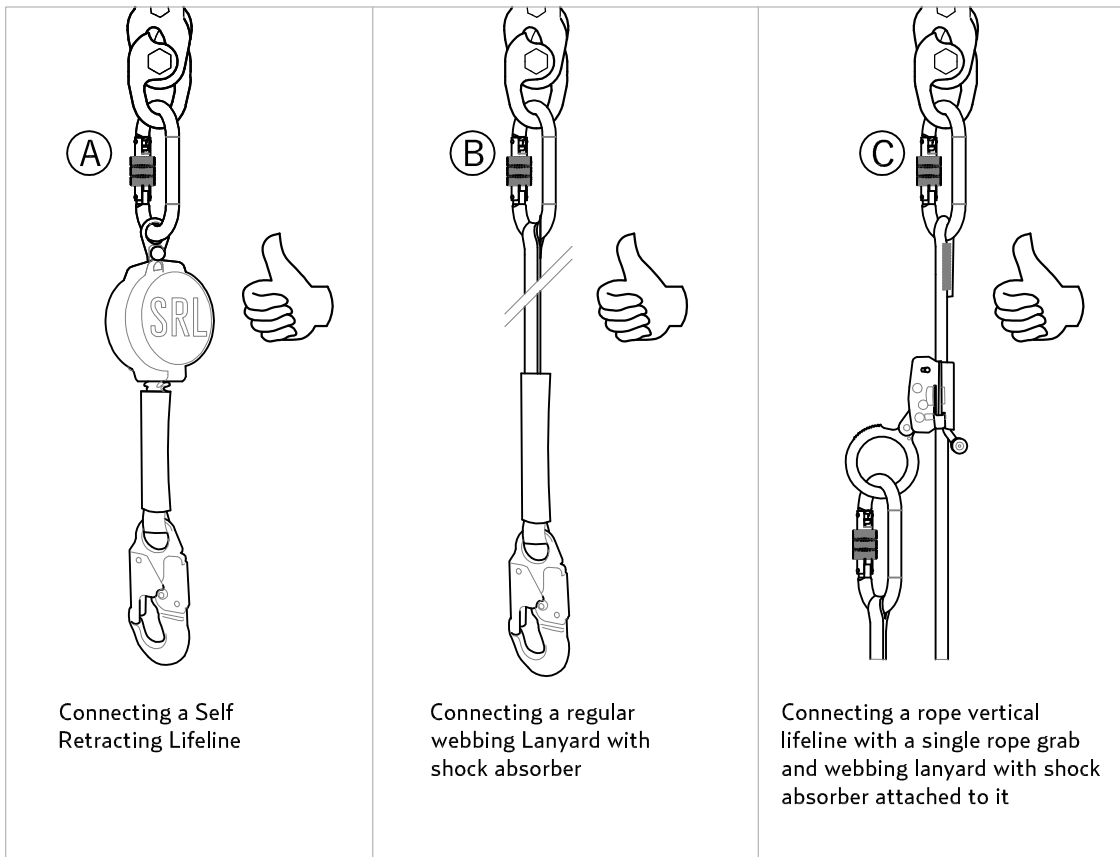


Ceiling height (m)	Extender Size
3	S
3.5	M
4	L
4.5	XL
5	XXL

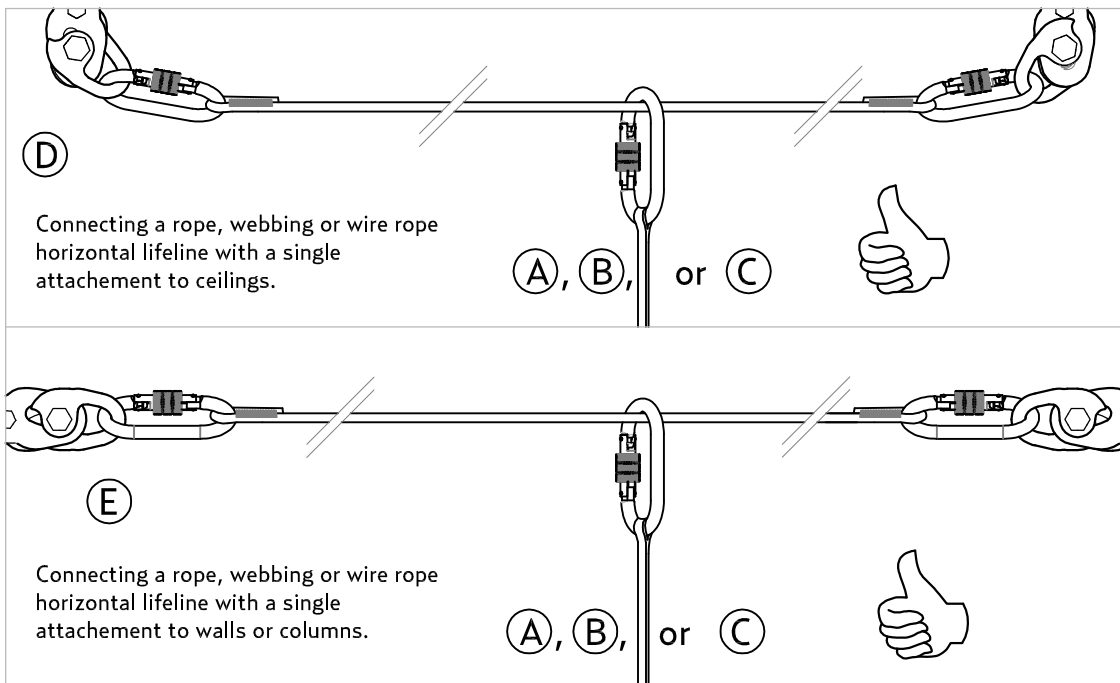
SINGLE ATTACHEMENTS CONNECTIONS

This system can be used with lanyards, self-retracting lifelines, or vertical lifelines. Connections must meet or exceed applicable fall protection standards including OSHA 1926.502/1910.66 and ANSI Z359.1-07/A10.32-2012.

SINGLE ATTACHEMENTS / INDIVIDUAL POINTS



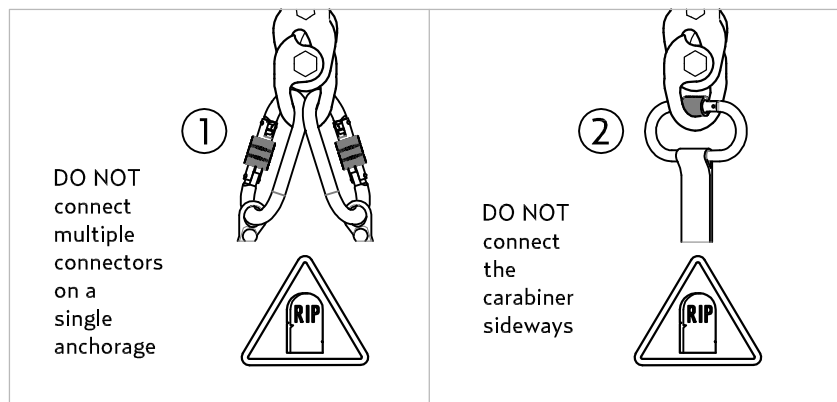
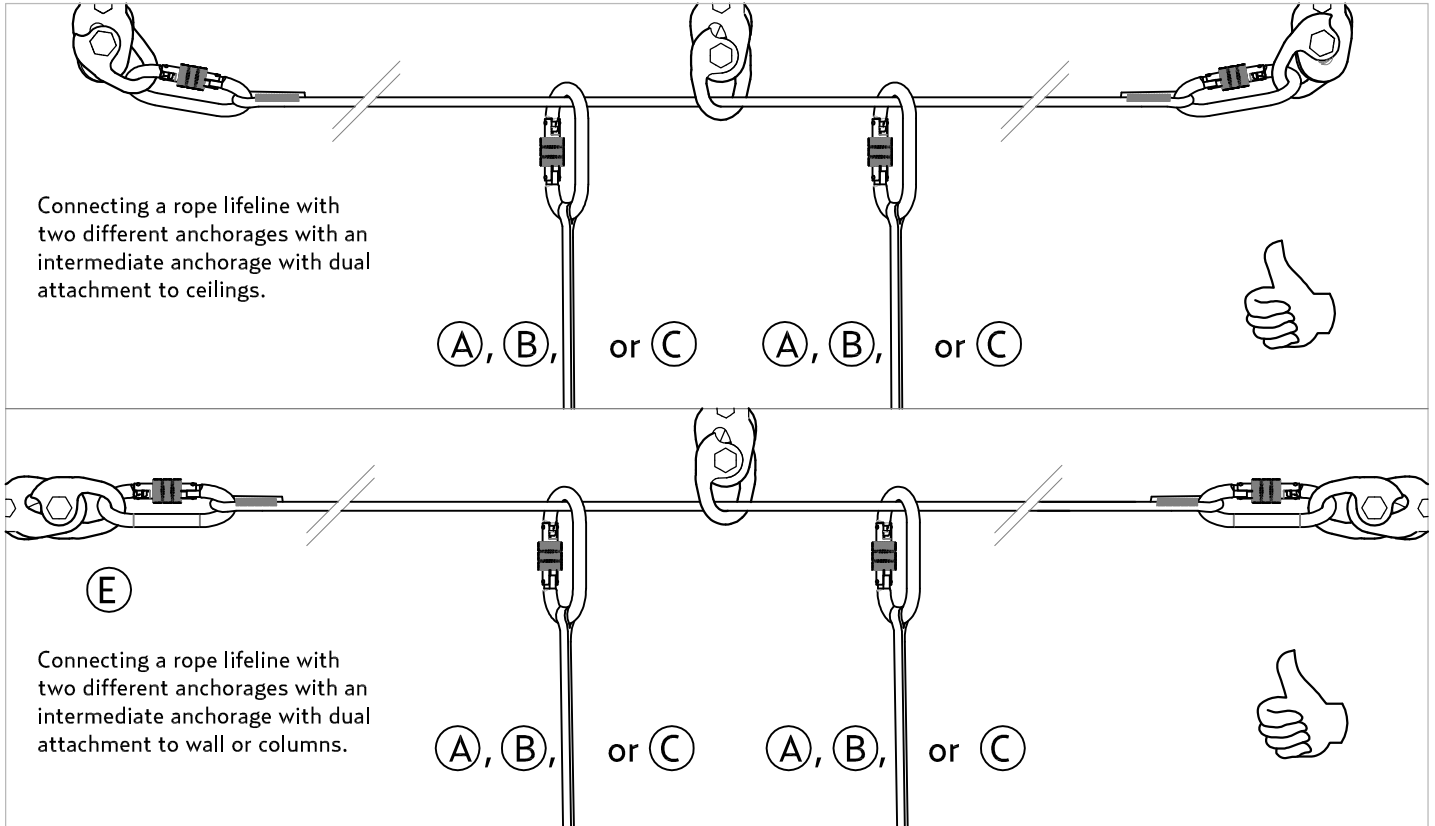
SINGLE ATTACHEMENTS / LIFELINES



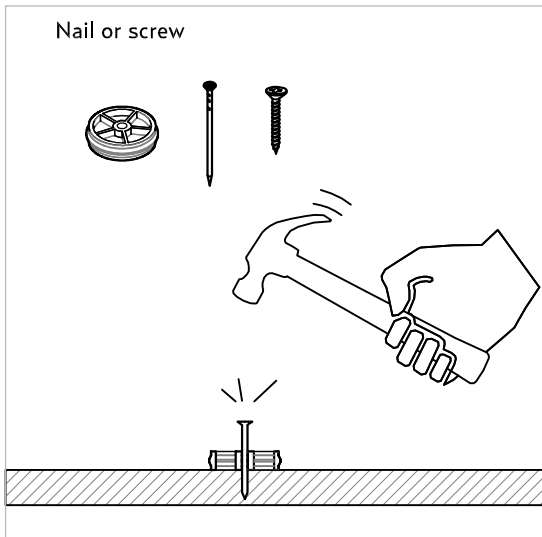
MULTIPLE ATTACHEMENTS CONNECTIONS

XXXX XXXX XXXXX XXXX XXXX XXXXX XXXX XXXX XXXXXXXXXXX XXXX XXXXXXXXXXX XXXX XXXXXXXXXXX XXXX XXXXXXXXXXX XXXX XXXX
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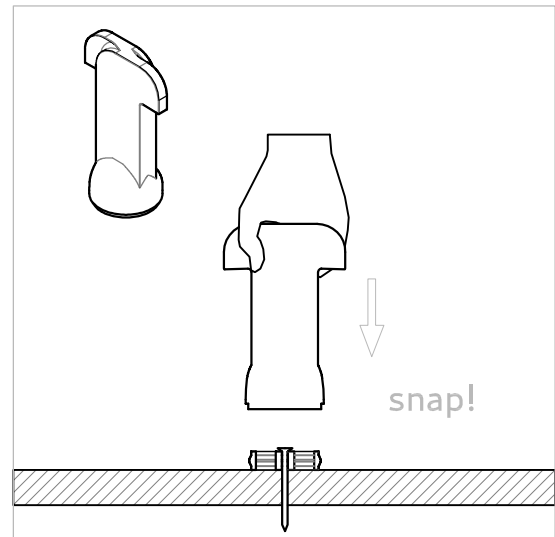
MULTIPLE ATTACHEMENTS / LIFELINES



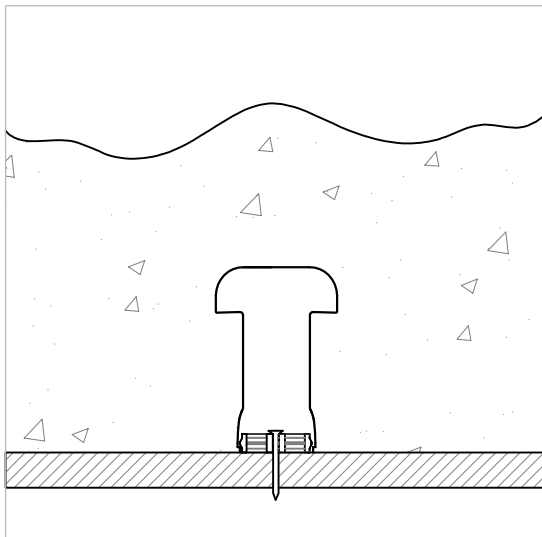
VOID FORM/CONCRETE SLEEVE INSTALLATION (SLAB, CEILINGS)



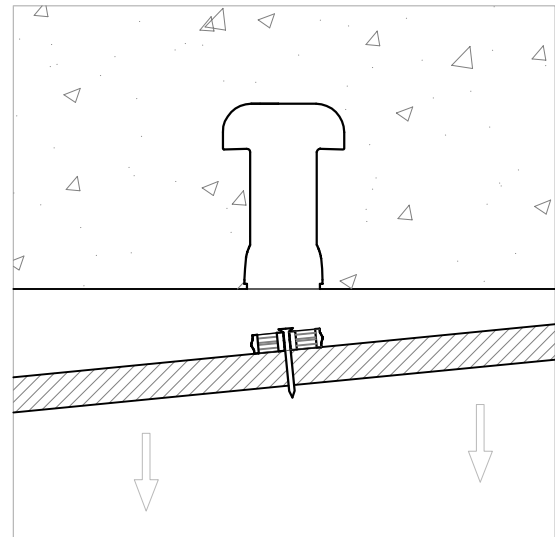
1.- Nail or screw the disc in place into the formwork.



2.- Snap the concrete sleeve bottle into the disc.

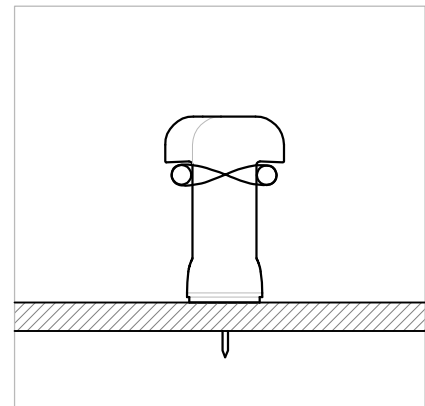
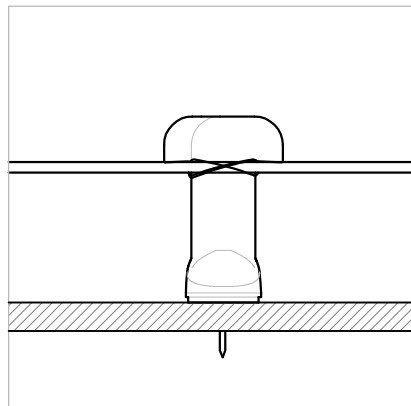


3.- Pour the concrete, being careful to avoid the sleeves when vibrating.



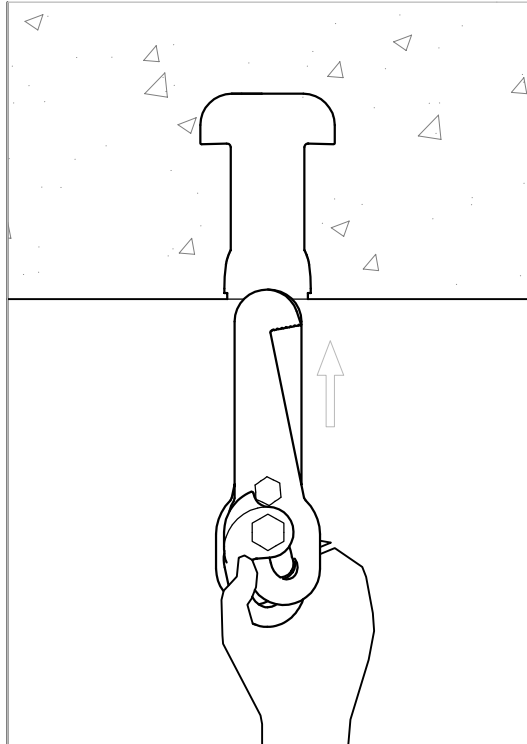
4.- Remove the formwork. Remove the disc if necessary with pliers.

TIE REINFORCEMENT TYPES

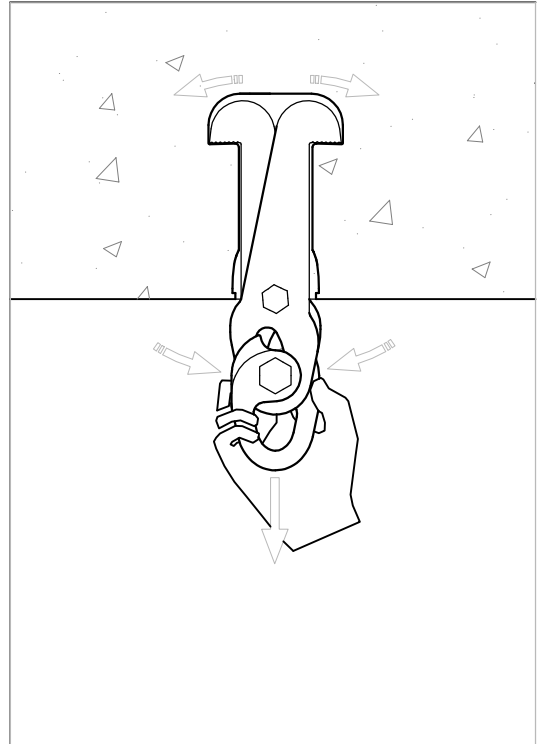


ANCHORAGE TOOL MANUAL UPSIDE DOWN INSTALLATION AND REMOVAL (SLAB, CEILINGS)

INSTALLATION

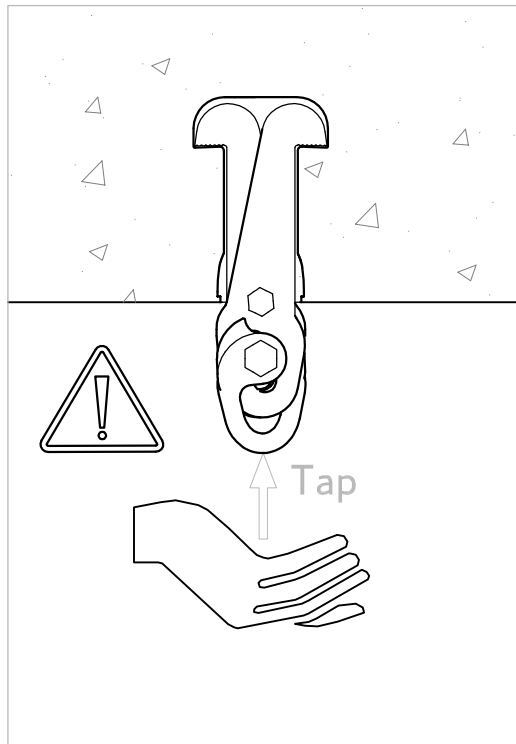


- 1.- Reach the concrete sleeve and insert the anchorage in closed position.

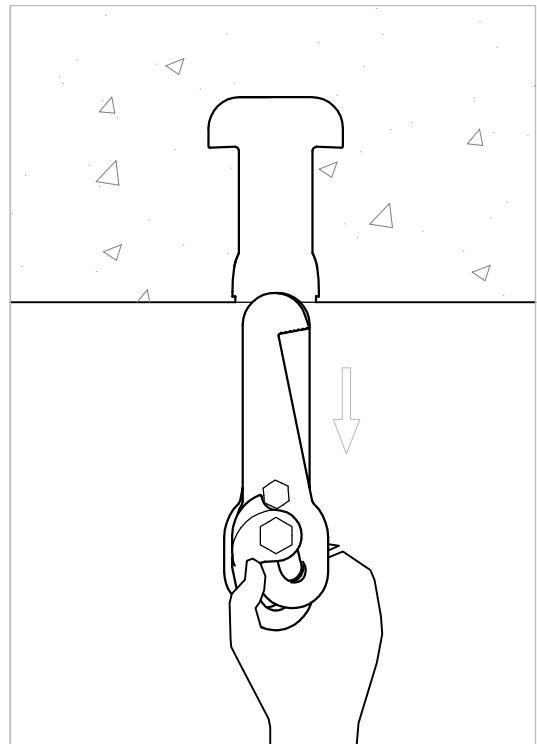


- 2.- Press slightly sideways the blades from the bottom

REMOVAL



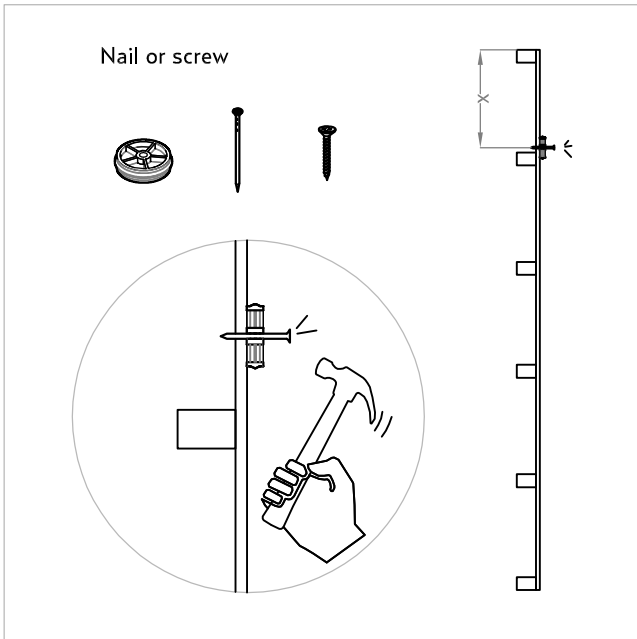
- 3.- For removal, tap the connection shackle upwards. Be careful as the anchorage may fall down.



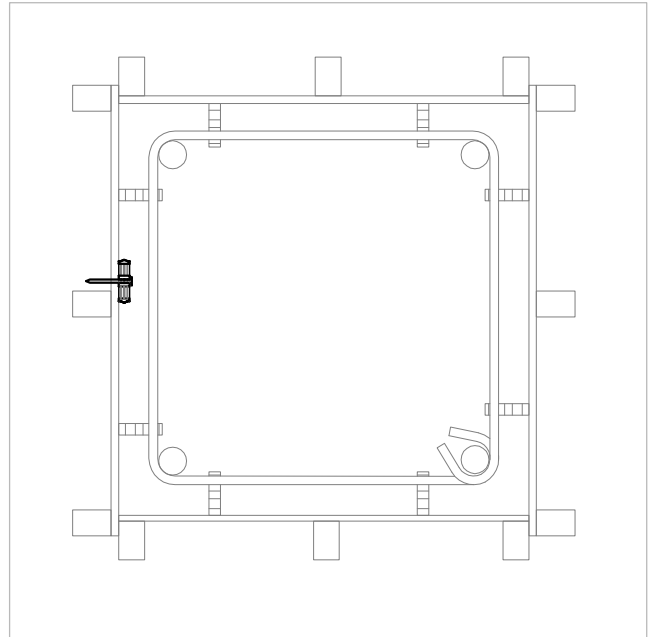
- 4.- Remove the anchorage.

INSTALLATION OF THE CONCRETE SLEEVE IN COLUMNS OR WALLS

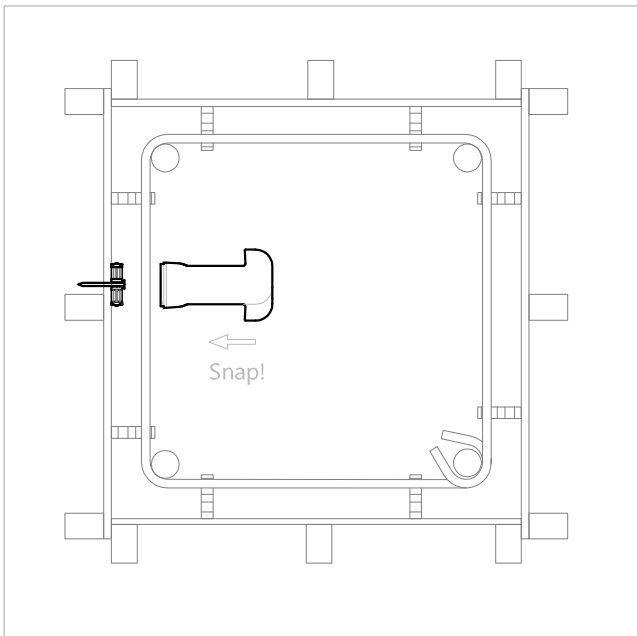
1.- Measure the distance (hcch max=20in) from the top of the element (formwork) and nail the disc in place in the inner face.



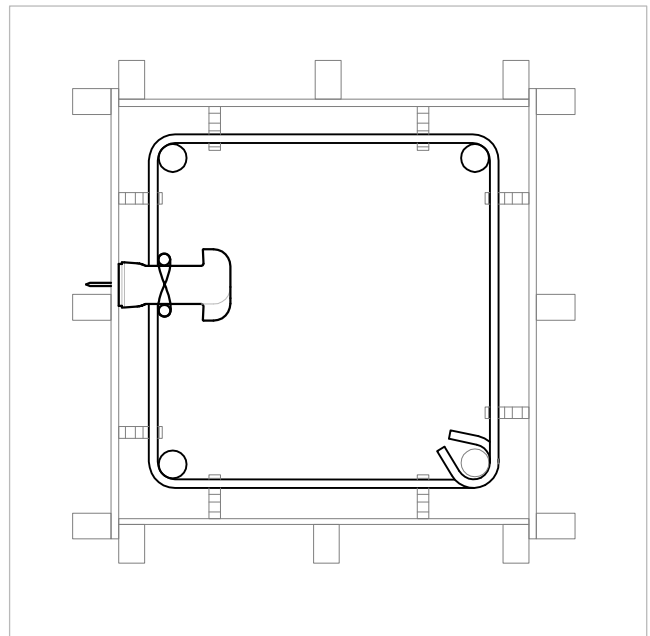
2.- Proceed with the formwork installation and rebar installation. Cross section view.



3.- Snap the concrete sleeve bottle into the disc



3.- Tie if necessary

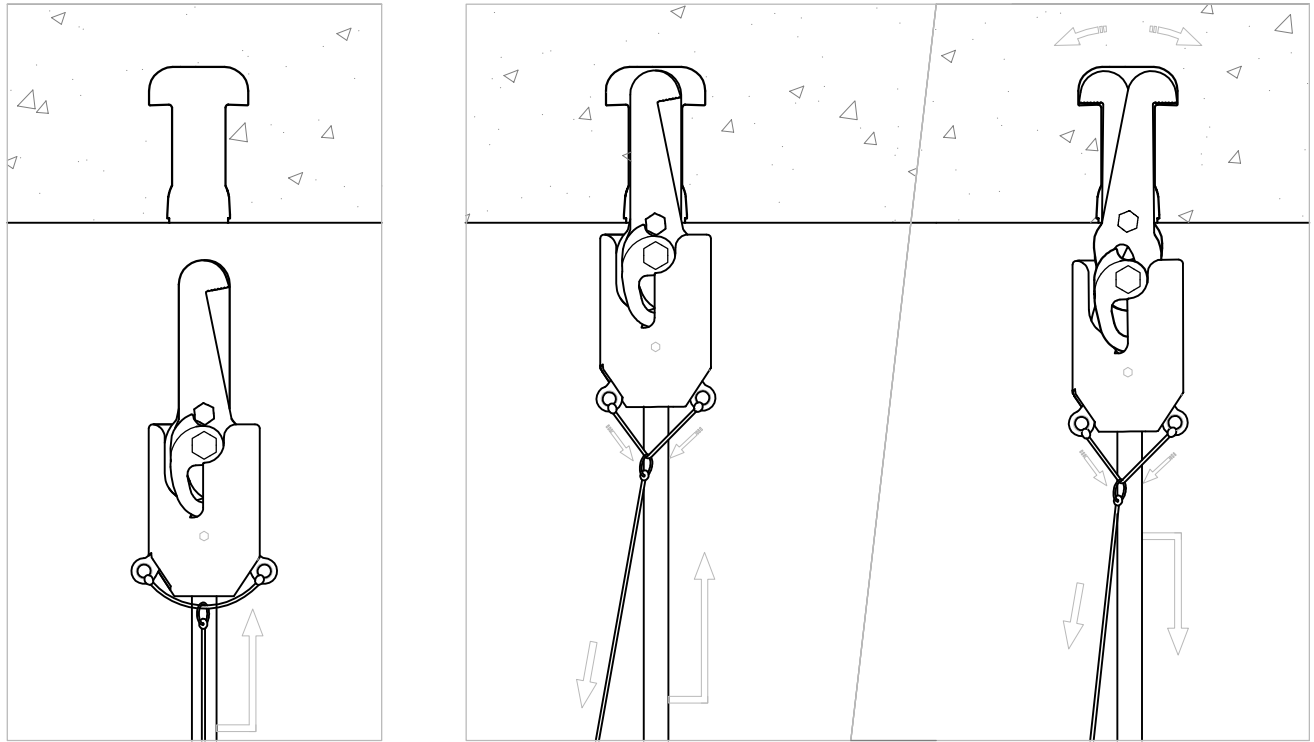


Pour the concrete, being careful to avoid the sleeves when vibrating.

SCISSORSAFE ANCHORAGE TOOL ASISTED INSTALLATION WITH "IN&OUT" POLE (SLAB, CEILINGS)

- 1.- To use, attach leader string to extender strap and pull string until the sling loop passes through anchor shackle. Bring both loops together until they are even then secure a triple locking carabiner through both loops.

INSTALLATION

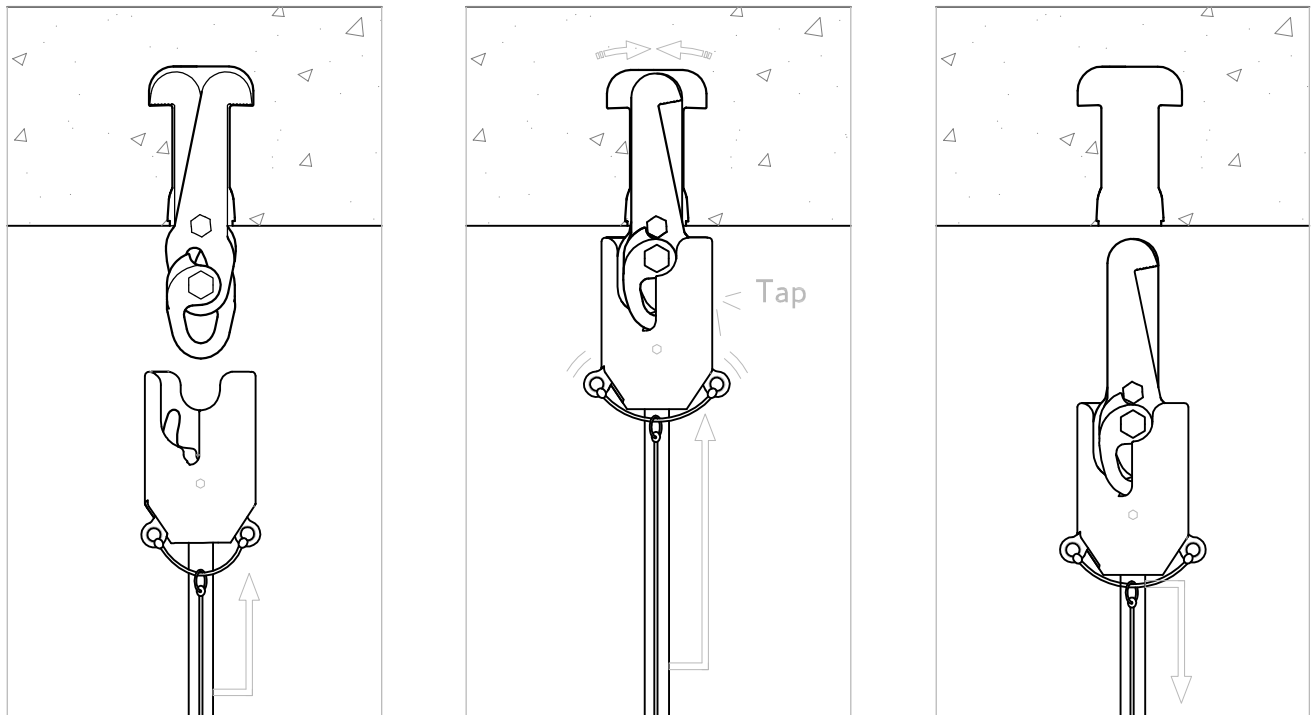


WARNING: Do not use unapproved sling as extender for use with the In&Out system.

WARNING: The lifeline (or other device) must be approved for use with the In&Out system by Scissorsafe DBA.

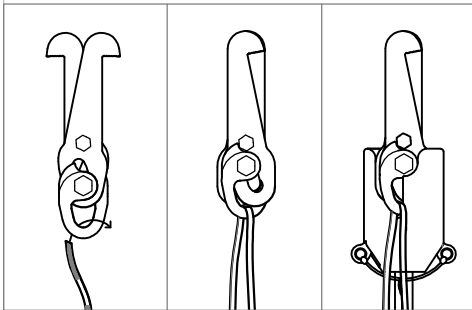
WARNING: Maintain a minimum clearance of ten feet (10ft) between the In&Out system and electrical power lines.

REMOVAL

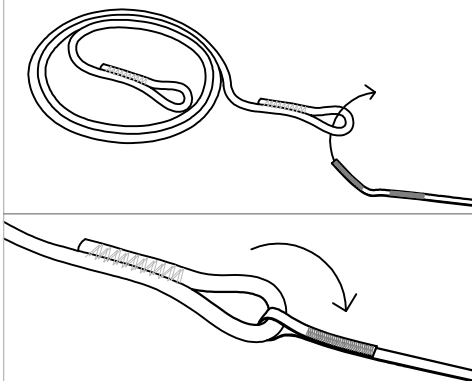


HIGHT CEILINGS ScissorSafe INSTALLATION PROCESS. "IN&OUT" EXTENSION POLE & EXTENDER

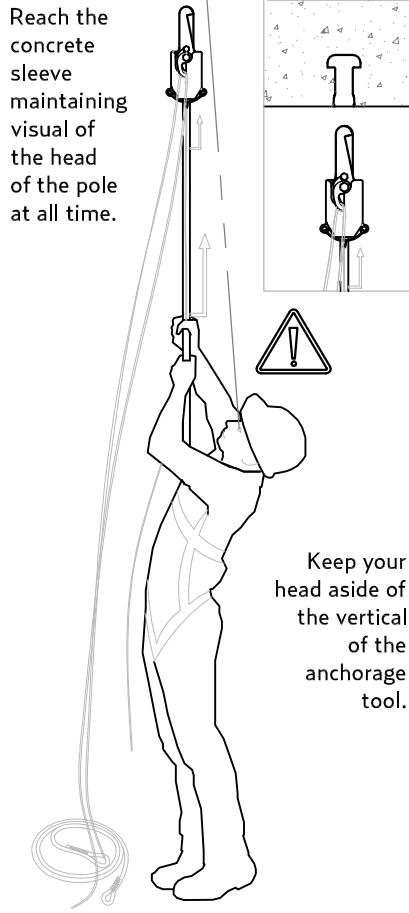
- 1.- Leave the lead rope inserted into the connection shackle and plug it into the In&Out head in the mid point.



- 2.- Insert the end of the lead rope and secure it to the eye of the extender.

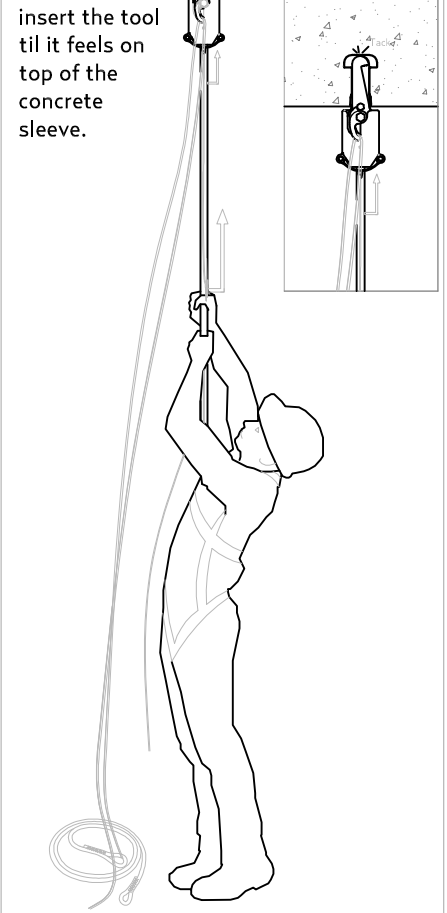


Reach the concrete sleeve maintaining visual of the head of the pole at all time.

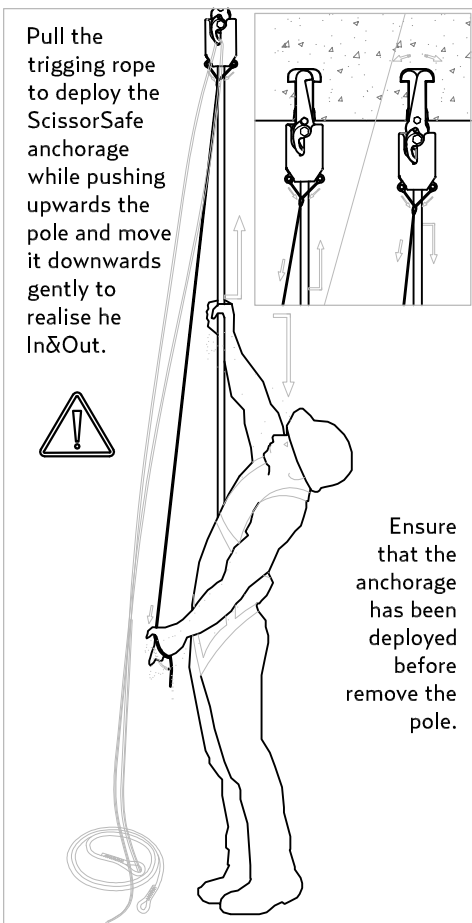


Keep your head aside of the vertical of the anchorage tool.

insert the tool til it feels on top of the concrete sleeve.

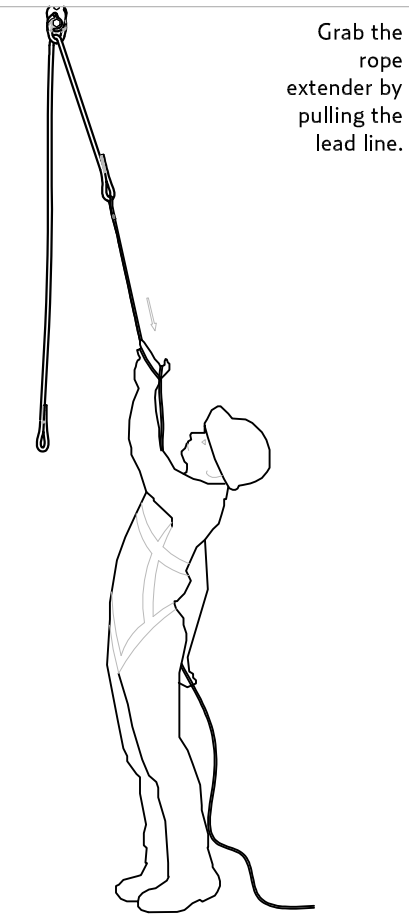


Pull the triggering rope to deploy the ScissorSafe anchorage while pushing upwards the pole and move it downwards gently to realise he In&Out.

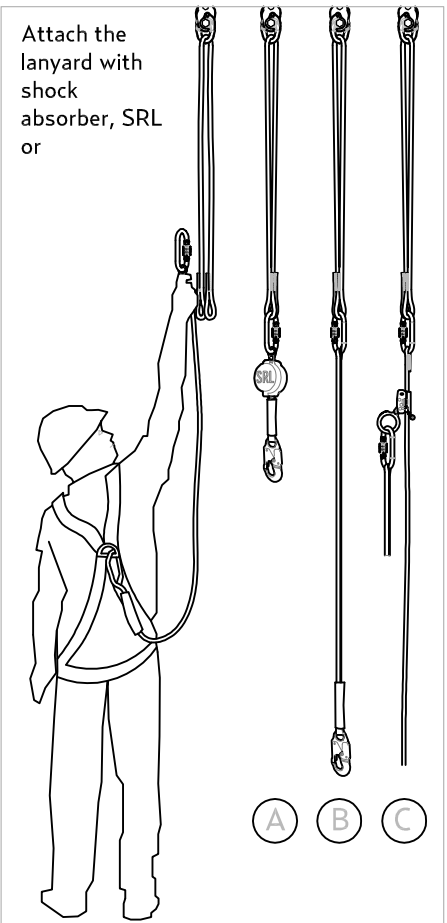


Ensure that the anchorage has been deployed before remove the pole.

Grab the rope extender by pulling the lead line.



Attach the lanyard with shock absorber, SRL or



PREPLANE ANCHORAGE POSITIONS

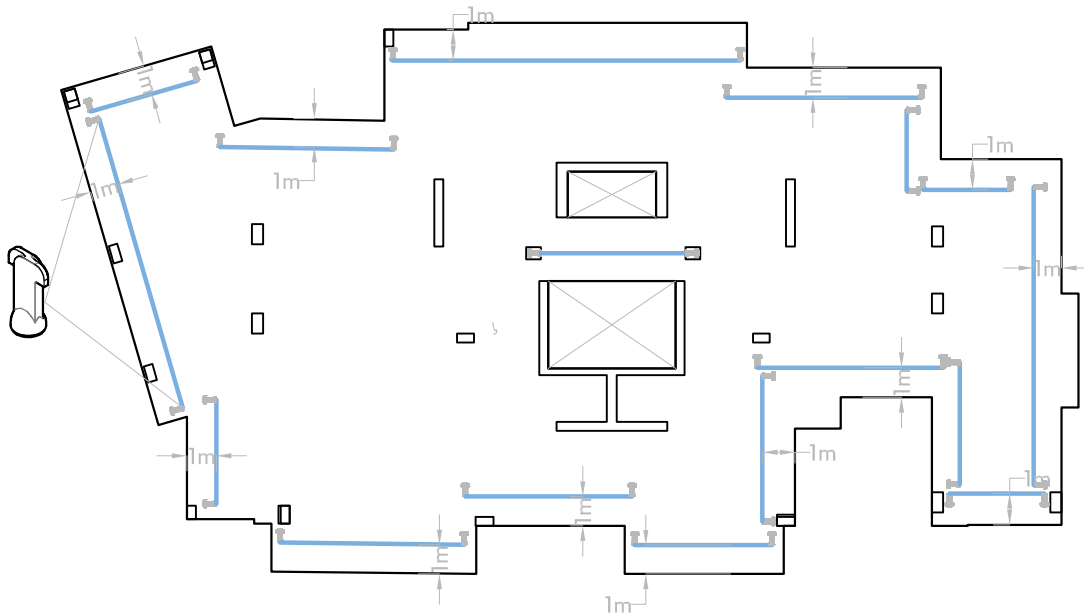
Scissorsafe saves time by elimination of drilled holes to install anchors.

First, we offer to prepare an outline of your building layout and draw in sleeves in the optimized locations that best protect the perimeter. Our advanced Safety designed allows to pre-plan your anchor points. This technique delivers maximum coverage of your concrete structures fall protection.

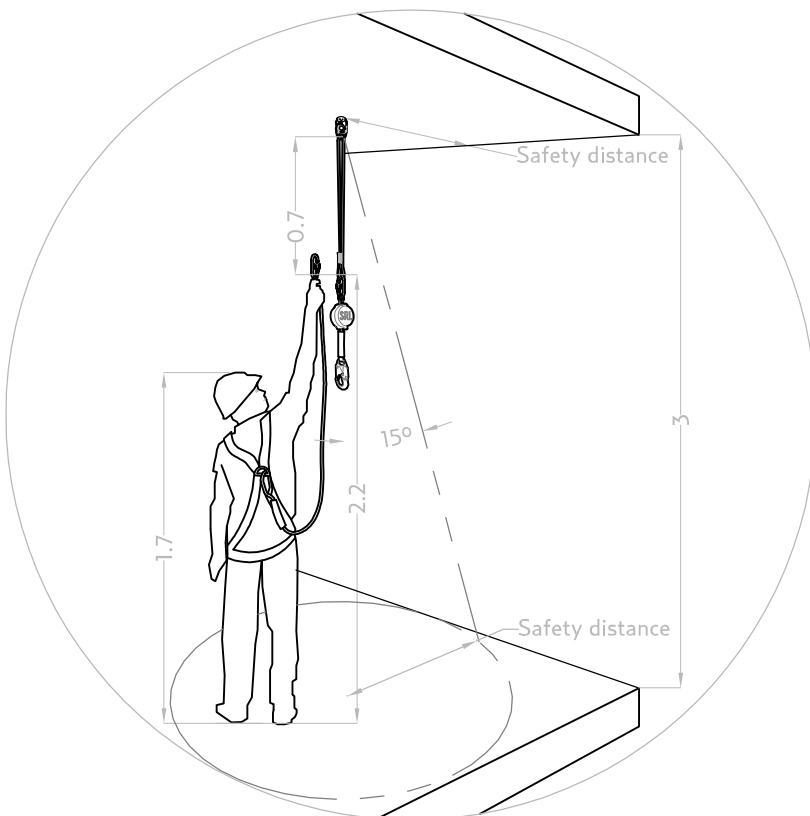
A plastic sleeve is cast in place along the leading edge, stair cases or elevator shafts where workers can re-use the anchor by introducing the anchor at any of the holes left by the cast in sleeve.

We use some of the best test labs such as Intertek a ISO 17025 certified lab to test to the ANSI 359.18 2017 standard and we can provide test reports upon request.

Window installers use the Scissorsafe system which is compatible to use in overhead, Balcony walls or columns with Temporary Horizontal Lifelines (Ratt Lines) for work positioning and Fall restraint.



1.- xxxxxxxxxxxxxxxxxxxcdx xxxxxxxxx
 xxxxxxxxxxxx xxxxxxxxx xxxxxxx xxxxxxxxx
 xxxxxxxxxxx xxxxx

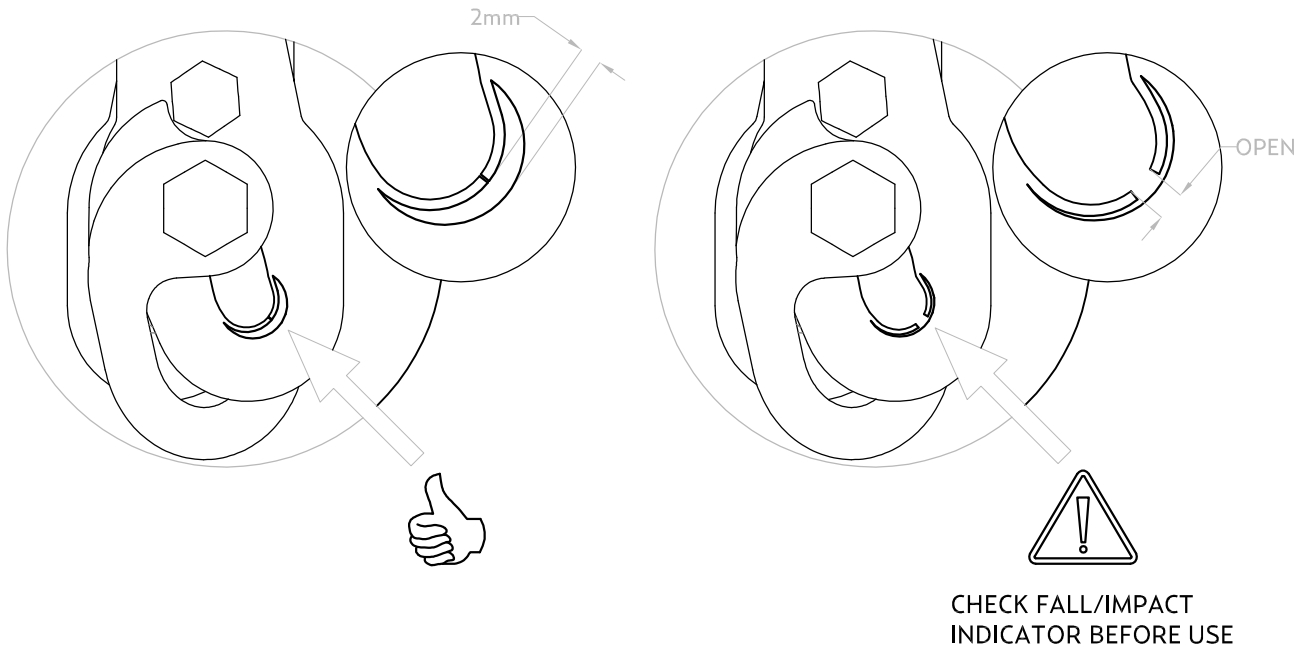


Ceiling height (m)	Extender length (m)	Safety distance (m)	Extender Size
3	0.7	0.7	S
3.5	1.2	1.2	M
4	1.7	1.7	L
4.5	2.2	2.2	XL
5	2.7	2.7	XXL

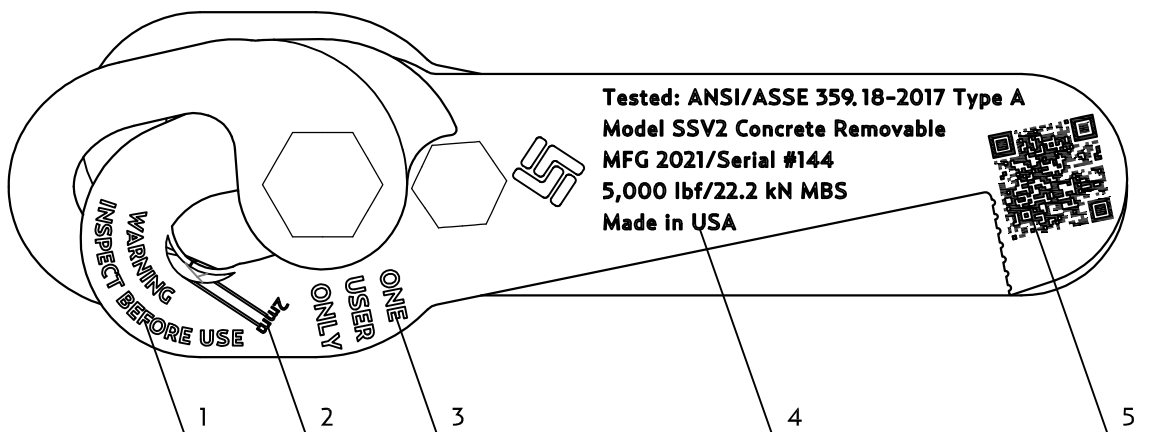
INSPECTION AND MAINTENANCE

The Quick Check Inspection System is Engineered to improve job site safety. The anchor has a thin steel bridge which when damaged collapses down the middle indicating that a fall has occurred. Take out of service immediately as the anchor may fail if subjected to another fall. A competent inspector now has an objective pass/fail inspection of the device rather than relying on subjective and labor-intensive inspection techniques.

when the two metal bridge parts deform downward opening the gap between each other indicating a fall has occurred and the anchor must **BE TAKEN OUT OF SERVICE**.



PRODUCT LABEL



INSPECTION AND MAINTENANCE

INSPECTION FREQUENCY

The Scissorsafe Concrete Anchor must be inspected before putting it into use and before daily each shift changes and at the intervals defined in Scissorsafe's inspection procedures which are described in our Maintenance Log".

Inspect all other components of the Fall Protection System per the frequencies and procedures defined by the manufacturer's instructions.

If any damage is found remove device immediately from service and send back to Scissorsafe or destroy making it un-usable by anyone.

PRODUCT LIFE

The functional life of the Scissorsafe Concrete Anchor is determined by work conditions and maintenance.

INSPECTION CHECK LIST

- 1.- Fall Indicator: Inspect indicator for damage (collapsed steel bridge)
- 2.- Axis bolt, shackle bolt and nuts: Fasteners: Inspect for damage and make certain all screws and nuts are not bent, distorted, worn, heat damaged, corroded or have been modified in any way.
- 3.- Shackle Body: Inspect for distortion, cracks and other damage. Inspect shackle body for distortion and damage.
- 4.- Anchor Leg: corrosion, distortion, cracks and other damage. Inspect for heat damage or excessive wear or distortion and damage.
- 5.- Anchor Foot: Inspect for corrosion, distortion, cracks and other damage. Inspect for heat damage or excessive wear or distortion and damage.
- 6.- Security Fin: Inspect both fins for cracks, worn or damage.

INSPECTION OF OTHER SAFETY ITEMS

Lifeline: Inspect for cuts, burns, tears, abrasion, frays, excessive soiling and discoloration, broken wires. Webbing damage, carabiner damage any hardware damage or if using rope lifeline rope damage, loop sew damage, chemical or ultraviolet damage.

Hooks/Carabiners: Inspect for physical damage, corrosion, proper operation and markings (Keep log for hooks and carabiners).

[illegible]