



**E-CLIMB.COM SL**  
**C/ Cristina Torrents, 29**  
**08860 RAT PENAT**  
**BARCELONA SPAIN**

**TECHNICAL MANUAL KLAU 0,1,2,3,4.**

**CE**  
 E-CLIMB.com ice screws conform to European Standards for P.P.E. “Personal Protective Equipment” and fulfil the criteria outlined in rule EN 568, except the models KLAU0 (60mm) and KLAU1 (100mm) which are screws designed for progression only and are not suitable for protecting long falls.  
 E-CLIMB.com ice screws have been designed for use in all types of alpinism.

**WARNING**  
 Ice and mixed climbing, alpinism and dry tooling require expert knowledge and frequently involve risks that may result in serious injury or even death.  
 It is the responsibility of each individual climber who uses E-CLIMB ice screws, to be knowledgeable and competent in the relevant techniques of protection and progression, and to assume responsibility for all risks associated with these activities, including those arising from incorrect use of E-CLIMB.com products.

**LIFETIME**  
 Depending on the treatment and use they receive, E-CLIMB.com ice screws have a useful life of approximately:  
 1-Sporadic, discontinuous use: 4 to 8 years.  
 2-Annual use; alpinism and icefalls: 3 to 6 years.  
 3-Professional use; mountain guides and professional alpinists: 3 to 5 years.  
 Ice screws should be retired immediately in case of:  
 1 Noticeable cracks in the tube or hanger.  
 2 If the tube is bent or deformed after a fall.  
 Retired ice screws should be destroyed to prevent accidents which may occur if they were used by a third party.

**MAINTENANCE**  
 -It is essential to carefully inspect the ice screws for damage after each climb.

-Never store the ice screws damp, always dry them thoroughly after use to prevent corrosion. Store in a dry place after each use.  
 -E-CLIMB.com ice screws are designed with a replaceable tip, it is necessary to change the tip if the teeth are blunt, broken or deformed.  
 -The points of the ice screw should not be filed or sharpened.  
 -Sharpening the points manually may irreparably damage the tip replacing system and seriously affect performance.

**REPLACING THE TIP**

-E-CLIMB.com replaceable ice screw tips are supplied with a dry adhesive to ensure they bond correctly.  
 -The winding arm of the screw has a built-in wrench, designed to help change the tip.  
 -To unscrew the tip, use the winding arm of a second screw and press firmly, twisting the tip with force in an anti-clockwise direction.  
 -Once the new tip has been attached you should wait a minimum of six hours before using the screw, to ensure that the adhesive has had time to bond correctly.  
 -Once the tip is unscrewed the adhesive entirely loses its effectiveness. Therefore replacement tips should only be unscrewed when they are going to be scrapped.

**GUIDELINES FOR USE**

-Choose the thickest area of ice available and clear away soft or rotten ice until you reach a surface where the screw can be placed with the maximum safety and efficiency.  
 -First press the tip of the screw hard into the chosen surface.  
 -Place the screw at a slight angle to the perpendicular.  
 -Turn the screw clockwise holding it by the hanger until it is firmly positioned in the ice. Then, with the help of the winding arm, continue to screw it in until the hanger is flush with the surface of the ice. If the screw sticks out more than 4cm once inserted and cannot be better placed, tie off the screw close to the ice to minimise leverage.  
 -Once the screw has been placed, fold the arm down.  
 -To remove the screw, turn the winding arm in an anti-clockwise direction.  
 -To empty the screw of ice and leave it clean and prepared for the next use, gently tap only the head of the screw so as not to damage it. Do not hit the thread of the screw.

**IMPORTANT RECOMMENDATIONS**

-Always place an ice screw soon after leaving the belay to minimise the fall factor.  
 -Use a shock absorbing quick draw, “Dissip” to reduce the potential load on the first pieces of protection.

-Depending on the thickness and quality of the ice encountered, use an appropriate length of screw.  
 -E-CLIMB.com ice screws incorporate a colour coding system to help you to easily identify the length of the screws whilst climbing.  
 -During transportation, storage and on the approach to climbs use the protective plastic tube supplied with each screw to help prevent damage.

**SPECIFICATIONS**

Model	Reference number	Length	Weight
KLAU0 (*)	K100	60 mm	105 g
KLAU1 (*)	K101	100 mm	106 g
KLAU2	K102	130 mm	116 g
KLAU3	K103	170 mm	126 g
KLAU4	K104	210 mm	136 g
KLAU Tip	K105	16 mm	8,5 g
KLAU Tip (Pack of 4)	K127		

(\*) KLAU0 and KLAU1 are screws designed for progression only and are not suitable for protecting long falls.

**SIGNIFICANCE OF MARKINGS**

“CE” indicates conformity to European Directive 89/686.  
 “0082” indicates the number of the notified body for the production control phase.  
 The notified body who have done EC Type examination and test:

**CETE APAVE SUDEUROPE**  
**B.P193**  
**13322 MARSEILLE**  
**Cedex 16 - France**  
**N° 0082**

**E-CLIMB.com GUARANTEE**

All E-CLIMB.com products carry a three-year guarantee against materials and manufacturing defects. This guarantee excludes normal wear and tear, modifications to the product, rust or other damage caused by inappropriate use.

