

MANUAL

BEAM ANCHORS

AB100, AB200



CE 2834
EN795:2012/B

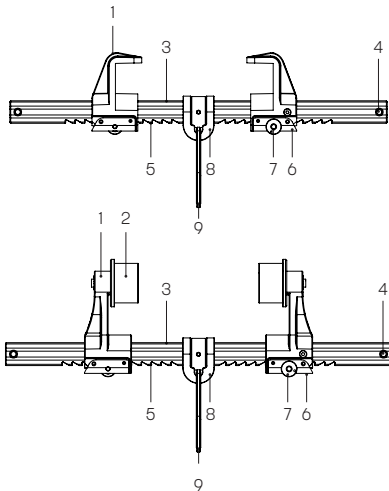


NOTIFIED BODY FOR EU TYPE EXAMINATION AND PRODUCTION CONTROL:

CCQS Certification Services Limited, Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin 15 D15 AKK1, Ireland

This product is to be used as part of a personal fall protection system. The user must read the manufacturers instruction and be familiar with each component of the equipment. The user must fully understand this instruction and to be trained before using this equipment. This equipment should not be used for material lifting or any other use other than a fall protection system. This product is intended for one person. Any alteration, misuse of this equipment, or failure to follow instructions, may result in serious injury or death.

NOMENCLATURE OF PARTS & MARKING



The Beam Anchor consists of the following components:

1. Sliding clamp (AB100)
2. Wheel (AB200)
3. Hexagonal rod
4. End Screw w/Nylon Nut
5. Positioning ratchet for Lock Pin
6. Safety Lock
7. Quick Release Lock Pin
8. D-Ring Hanger
9. D-Ring

MATERIALS

All materials used in the construction of this equipment are as follows:

- Stainless Steel
- Anodized Alloy Aluminium
- Plated Alloy Steel

MARKINGS

- ELLERsafe: Manufacturer name
- AB100 or AB200 is model number;
- CE means conform according to Regulation 2834;
- EN795:2012. means European standard and publication date
- 22kN means maximum rated load

Read the instruction for use

ELLER SAFE AB100 CE 2834 EN795:2012/B 22kN 1x

LIMITATIONS

The Beam Anchor is used as an anchorage connector for a personal fall arrest system. It's designed to be attached on the horizontal I-Beam. The Beam Anchor can be used as an end termination for either a shock-absorbing lanyard or self-retracting lifeline for fall arrest, or with a positioning lanyard for fall restraint.

Beam Flange Sizes: The Beam Anchor may only be installed on beams with flanges within the adjustment range of 76-300mm.

- Capacity: This Beam Anchor is designed for one person use with a combined weight (clothing, tools, etc.) of no more than 140kgs. No more than one personal protective system may be connected to this equipment at one time.
- Free Fall: Personal fall arrest systems used with this equipment must be rigged to limit the free fall to a maximum of fall factor 1. The maximum free fall must always be within the manufacturer's free fall capacity of the system components used to arrest the fall. When a free fall greater than Fall Factor 1 is possible, we recommend using a personal fall arrest system incorporating with an energy absorbing lanyard.
- Anchor Load Angle: Loads imposed on the Beam Anchor by the personal fall arrest system must remain within 30 degrees of the vertical centre line of the beam.
- Swing Falls: Before installing or using, make consideration for eliminating or minimizing all swing fall hazards.
- Fall Clearance: There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or other obstruction.
- Personal Fall Arrest System: The Beam Anchor is designed for use with CE/EN certified components. Use of this equipment with non-approved components may result in incompatibility between equipment, and could affect the reliability and safety of the complete system. An EN361 full body harness must be worn by the user when connected to the Beam Anchor. When making connections with the Beam Anchor, use an EN362 connector and eliminate all possibility of accidental opening of the gate.

USAGE

Inspect the equipment according to INSPECTION of this manual before each use.

The Beam Anchor can only be installed on a horizontal I-beam, and positioned on the bottom or top of the I-beam.

- Step 1. Remove the quick release lock pins. Then press the safety lock to adjust the sliding clamps.
- Step 2. Place the Beam Anchor onto beam flange on the bottom or top position of the I-beam.
- Step 3. Place a sliding clamp against one side of the beam flange. Slide the other sliding clamp against opposite side of the beam flange. Ensure the D-ring is at the middle position of the I-beam.
- Step 4. Ensure the safety lock is in nearest position to the beam flange.
- Step 5. Insert the quick release lock pins to fix the safety locks, ensuring pins are locked into place.
- Step 6. Ensure the safety lock have not bottomed out. If safety lock has bottomed out, reinstall the sliding clamp to the next locking position.

INSPECTION

Frequency:

Before each use, inspect the Beam Anchor according to following steps. The Beam Anchor must be formally inspected by a competent person other than the user at least every 12 months. Record the results in INSPECTION AND MAINTENANCE LOG.

Inspection Steps:

- Step 1. Inspect Beam Anchor for damage: Look for cracks, dents, or deformities. Look for bending or wear on the hexagonal rod, sliding clamps, safety lock, and quick release lock pin. Ensure no parts are missing.
- Step 2. Inspect entire unit for excessive corrosion.
- Step 3. Ensure the quick release lock pin can be inserted through the hole on safety lock button, and locks in place.
- Step 4. Record the inspection date and results in the INSPECTION AND MAINTENANCE LOG.

If inspection reveals an unsafe or defective condition, remove the equipment from service and destroy, or return to a qualified service point for repairs.

MAINTENANCE, SERVICE & STORAGE

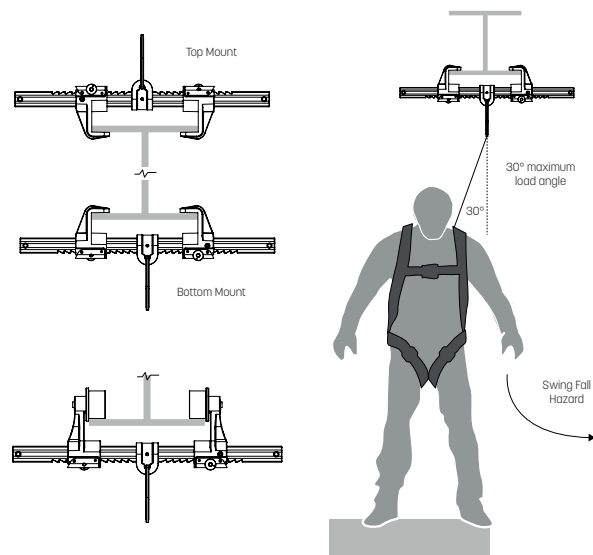
Periodically clean the Beam Anchor with water and a mild soap solution. Do not use acids or other caustic chemicals that could damage the system components. A lubricant may be applied to the safety lock button and the quick release lock pin.

Store the equipment in a cool, dry, dark place, chemically neutral, away from sharp corners, sources of heat, humidity, corrosive substances or other damaging conditions.

REPAIRS

- It is not allowed to repair or make alterations to the Beam Anchor.
- If the quick release lock pin is damaged or absent, the equipment is still in a workable condition. However for safety concerns the equipment must be taken out of service until a new pin is installed by a qualified person.

Replacement pins can be supplied by the manufacturer or qualified service point.



Device must be inspected at least once every 12 months from the date of first use. Periodic inspections must only be carried out by a competent person who has the knowledge and training required for personal protective equipment periodic inspections. Depending upon the type and environment of work, inspections may be needed to be carried out more frequently than once every 12 months. Every periodic inspection must be recorded in the Identity Card of the equipment.

The maximum lifespan of load bearing textile equipment is 10 years from the date of manufacture.

Metallic equipment can be used without time limit on the condition periodic inspections are carried out timely.

The equipment maximum lifetime depends on the intensity of usage and the environment of usage. Using the device in rough environment, marine environment, contact with sharp edges, exposure to extreme temperatures or aggressive substances, etc. can lead to the withdrawal from use even after one use.

The device must be withdrawn from use immediately and destroyed when it has been used to arrest a fall or it fails to pass inspection or there are any doubt as to its reliability.

- personal protective equipment shall only be used by a person trained and competent in its safe use.
- personal protective equipment must not be used by a person with medical condition that could affect the safety of the equipment user in normal and emergency use.
- a rescue plan shall be in place to deal with any emergencies that could arise during the work.
- being suspended in PPE (e.g. arresting a fall), beware of suspension trauma symptoms. To avoid symptoms of suspension trauma, be sure that the proper rescue plan is ready for use. It is recommended to use trauma straps.
- it is forbidden to make any alterations or additions to the equipment without the manufacturer's prior written consent.
- any repair shall only be carried out by

- personal protective equipment shall not be used outside its limitations, or for any purpose other than that for which it is intended.
- personal protective equipment should be a personal issue item.
- before use ensure about the compatibility of items of equipment assembled into a fall arrest system.
- Periodically check connecting and adjusting of the equipment components to avoid accidental loosening or disconnecting of the components.
- it is forbidden to use combinations of items of equipment in which the safe function of any one item is affected by or interferes with the safe function of another.
- before each use of personal protective equipment it is obligatory to carry out a pre-use check of the equipment, to ensure that it is in a serviceable condition and operates correctly before it is used.
- during pre-use check it is necessary to inspect all elements of the equipment in respect of any damages, excessive wear, corrosion, abrasion, cutting or incorrect acting, especially take into consideration:
 - in full body harnesses and belts buckles, adjusting elements, attaching points, webbings, seams, loops;
 - in energy absorbers - attaching loops, webbing, seams, casing, connectors;
 - in textile lanyards or lifelines or guidelines - rope, loops, thimbles, connectors, adjusting element, splices;
 - in steel lanyards or lifelines or guidelines - cable, wires, clips, ferrules, loops, thimbles, connectors, adjusting elements;
 - in retractable fall arresters - cable or webbing, retractor and brake proper acting, casing, energy absorber, connector;
 - in guided type fall arresters - body of the fall arrester, sliding function, locking gear acting, rivets and screws, connector, energy absorber;
 - in metallic components (connectors, hooks, anchors)
 - main body, rivets, gate, locking gear acting.
- after every 12 months of utilization, personal protective equipment must be withdrawn from use to carry out periodical detailed inspection. The periodic inspection must be carried out by a competent person for periodic inspection. The periodic inspection can be carried out

- in case of some types of the complex equipment e.g. some types of retractable fall arresters the annual inspection can be carried out only by the manufacturer or his authorized representative.
- regular periodic inspections are the essential for equipment maintenance and the safety of the users which depends upon the continued efficiency and durability of the equipment.
- during periodic inspection it is necessary to check the legibility of the equipment marking. Don't use the equipment with illegible marking.
- it is essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in language of the country in which the product is to be used.
- personal protective equipment must be withdrawn from use immediately when any doubt arise about its condition for safe use and not used again until confirmed in writing by equipment manufacturer or his representative after carried out the detailed inspection.
- personal protective equipment must be withdrawn from use immediately and destroyed (or another procedures shall be introduced according detailed instruction from equipment manual) when it have been used to arrest a fall.
- a full body harness (conforming to EN 361) is the only acceptable body holding device that can be used, in a fall arrest system.
- in full body harness use only attachment points marked with a capital letter "A" to attach a fall arrest system.
- the anchor device or anchor point for the fall arrest system should always be positioned, and the work carried out in such a way, as to minimise both the potential for falls and potential fall distance. The anchor device/ point should be placed above the position of the user. The shape and construction of the anchor device/point shall not allowed to self-acting disconnection of the equipment. Minimal static strength of the anchor device/ point is 12 kN. It is recommended to use certified and marked structural anchor point complied with EN795.
- it is obligatory to verify the free space required beneath the user at the workplace before each occasion of use the fall arrest system, so that, in the case of a fall, there will be no collision with the ground or other obstacle in the fall

there are many hazards that may affect the performance of the equipment and corresponding safety precautions that have to be observed during equipment utilization, especially:

- trailing or looping of lanyards or lifelines over sharp edges, - any defects like cutting, abrasion, corrosion, - climatic exposure, - pendulum falls, - extremes of temperature, - chemical reagents, - electrical conductivity.
- personal protective equipment must be transported in the package (e.g.: bag made of moisture-proof textile or foil bag or cases made of steel or plastic) to protect it against damage or moisture.
- the equipment can be cleaned without causing adverse effect on the materials in the manufacture of the equipment. For textile products use mild detergents for delicate fabrics, wash by hand or in a machine and rinse in water. For energy absorbers use only a damp cloth to wipe away dirt. It's forbidden to immerse energy absorbers into the water. Plastic parts can be cleaned only with water. When the equipment becomes wet, either from being in use or when due cleaning, it shall be allowed to dry naturally, and shall be kept away from direct heat. In metallic products some mechanic parts (spring, pin, hinge, etc.) can be regularly slightly lubricated to ensure better operation.
- personal protective equipment should be stored loosely packed, in a well-ventilated place, protected from direct light, ultraviolet degradation, damp environment, sharp edges, extreme temperatures and corrosive or aggressive substances.
- Using the harness in connection with personal protective equipment against falls from a height must be compatible with manual instructions of this equipment and obligatory standards:
 - EN353-1, EN353-2, EN355, EN354, EN360 - for the fall arrest systems;
 - EN362 - for the connectors;
 - EN1496, EN341 - for rescue devices;
 - EN795 - for anchor devices.

Louis Reyners,
Symon Spiersweg 13-A
1506 RZ Zaandam
T: +31(0)756504750
E: info@lr.nl

It is the responsibility of the user to provide the identity card and to fill in the details required. The identity card should be filled in before the first use by a competent person, responsible in the user organization for protective equipment. Any information about the equipment like periodic inspections, repairs, reasons of equipment's withdrawal from use shall be noted into the identity card. The identity card should be stored during a whole period of equipment utilization. Do not use the equipment without the identity card.

Model and type of equipment	
Serial/batch number	
Reference number	
Date of manufacture	
Date of Purchase	
Date of First use	
User name	

[illegible]