

MANUAL ANCHOR POINT

AP160



CE 2927
EN795-A:2012 and TS 16415:2013



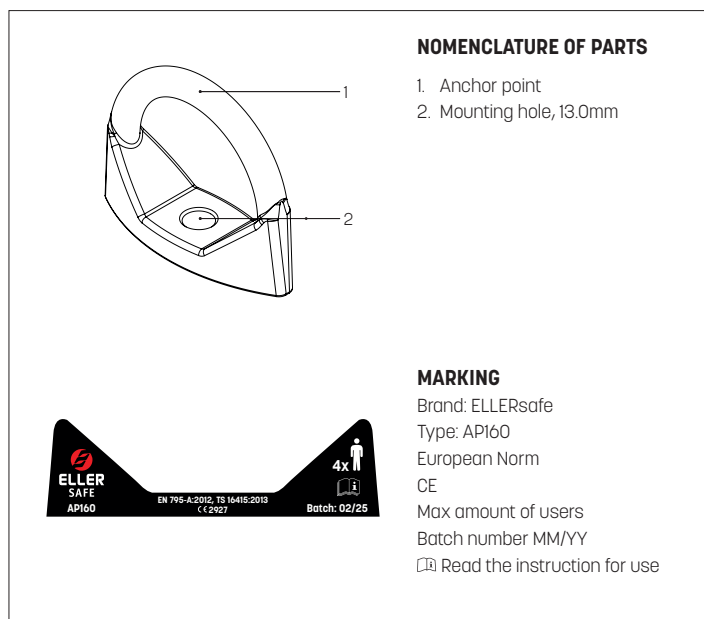
NOTIFIED BODY:

QUINTIN CERTIFICATIONS 825 route de Romans 38160 SAINT ANTOINE L'ABBAYE - France
Tél. +33.(0)7 66 29 39 28

DESCRIPTION

Anchor device in steel 98 x 34 x 75 mm, composed of a rod diameter 12 mm with internal hole width 70 mm and a base 98x34 mm with hole Ø 13.0 mm.

The anchor device is intended to be used in horizontal and vertical surface in axial and radial direction to the ring or in overhead position by 4 people at the same time.



INSTALLATION

Fig. 1

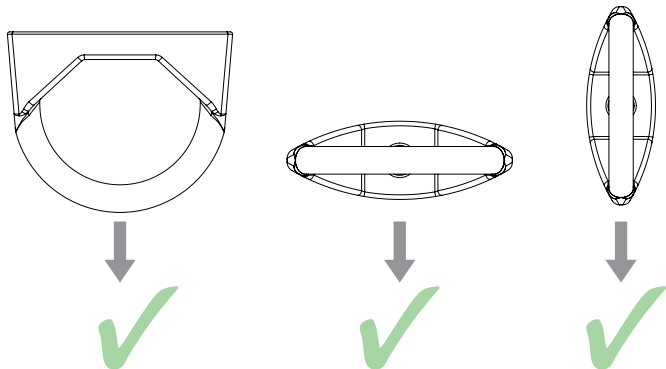
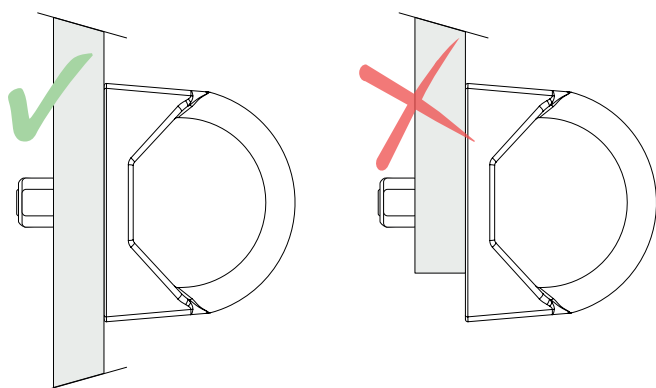


Fig. 2



INSTALLATION ON STEEL AND CONCRETE SURFACES

Anchor point should be installed above the workplace.

STEEL

Anchor point may be installed on steel structure the thickness of which is more than 3mm. Drill a hole of 12.5-13mm in diameter. Strength of steel structure to which anchor point is to be installed should be calculated and be no less than 12kN.

Fix anchor point in the drilled hole using M12 bolt of adequate length and strength class, accordingly:

- for galvanized bolts – strength class no lower than 8.8.
- for stainless steel (A2) and acid resistant steel (A4) bolts – strength class no lower than 70.

Bolts should be tightened using a torque wrench by applying a torque of no more than 40Nm.

CONCRETE

Anchor point is suitable also for installation in concrete structures using mechanical anchors (through bolts) or chemical anchors of 12mm in diameter. For installation using mechanical and chemical anchors, keep closely to recommendations given by manufacturers of these anchors (drilling depth, drill bit diameter, anchor torque).

Concrete structure should be dense and have no surface cracks or chips. Mechanical strength of concrete should be no higher than 20MPa.

Anchors should be tightened using a torque wrench with a torque value specified by the manufacturer.

The whole flat surface of the anchor point must be in contact with the host surface. (fig. 2)

USAGE

In accordance with EN 795:2012 type A strength of this point is min. 12 kN in any direction.

If the device is used as a part of a fall arrest system, the user must be equipped with an element limiting maximum dynamic forces applied on user while arresting a fall to max. 6 kN.

Fall protection system should be attached the anchor with EN362 connectors only. The system should be connected to the anchor in such a way the function of any component of the system is not affected by, or interferes with the function of any other.

LIFETIME

Maximum time of usage of correctly operating devices is unlimited. The device must be withdrawn from use immediately and destroyed if it has been used to arrest a fall or there are any doubts concerning its function.

NOTE: Maximum time of use of the device depends on intensity and environment of use. If the device is used in heavy conditions, being exposed to frequent contact with water, sharp edges, corrosive substances, extreme of temperatures, it may be necessary to withdraw the device after only one use.

PERIODIC INSPECTIONS

At least once a year, after every 12 months of use, it is necessary to carry out periodic detailed inspection of the device.

Periodic inspection shall be carried out by service point authorized by the Manufacturer or a competent person with adequate skills, trained in performing inspections of such equipment.

A trained person is a person who, based on own specialized education and adequate experience, has sufficient knowledge within installed protective and rescue equipment, and is familiarized with applicable OHS regulations, guidelines and generally acknowledged technical rules to such extent that is able to assess safety of use and correct application of protections. After 5 years of use, it is recommended that periodic inspections are carried out by the manufacturer of the equipment or an entity authorised by the manufacturer to carry out such inspections.

Before each use of the system check whether date of the next inspection is not expired. Do not use the device after this date.

If any defect or lack of integrity is found, do not use the point.

A system which has been used to arrest a fall must be withdrawn from use immediately! The system which has been used to arrest a fall may be admitted for use again after a detailed inspection is carried out by the manufacturer or an authorised 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 (for another procedures shall be introduced according detailed instruction from equipment manufacturer) 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]