

Instructions for use and installation of Column Anchoring Point

AE100 ed 2/EBK/09.08.2019

1. General information

Anchoring point is designed for simultaneous connection of 3 users. It is made from polyester tapes and galvanized steel elements. In accordance with EN 795:2012 type B strength of this point is min. 20 kN - the force is applied to any attachment point for personal fall protection equipment. The set comprises:

 working tape (width 35 mm) with a length as specified in the order – maximum 50 m with tensioning mechanism

· 4 washers to secure corners of structure

- 3 washers with clamp buckle type D.



Figure 1. Composition of set



Figure 2. Number of column anchoring point co-users



Figure 3. Permissible directions of point load

Anchoring point can be used as an ultimate anchor point for horizontal lifelines compliant with EN 795 Type C. Anchoring point has been tested for increased strength of anchor points (30kN) due to such application. When using anchoring point as an attachment point for horizontal anchor devices it is not possible to simultaneously connect a user with personal fall protection equipment to buckles of the device. Users can be connected only to horizontal anchor devices in accordance with instruction manual for a given horizontal anchor system.

Anchoring point AE100 can be installed on reinforced-concrete, steel poles and skylight structures on condition these structures are able to withstand the following loads:

20 kN - for use directly for personal fall protection equipment

30 kN - for use with horizontal anchor devices.

2. Time of usage

Maximum time of usage is 10 years from the date of manufacture. After this period the device must be subject to a detailed manufacturer's inspection. The inspection may be carried out by manufacturer or person with necessary knowledge in this respect or trained by the manufacturer

3. Device marking

a) Name of device

b) Reference no.

c) Xxx length of device (xx=20 - 20 m)

d) No. of notified body

- e) No. of standard f) Read the manual before use
- a) Seriel no
- g) Serial no.h) Date of manufacture
- i) Manufacturer
- j) Maximum number of users



Figure 3. Method of device marking

4. Device configuration

The device can be configured freely with anchor points and washers. Washers should be inserted from the side of the free end of the tape depending on shape of the structural element to which it should be mounted.



Figure 5. Device configuration

5. Installation of the point

 Before installation the device AE100 should be stored in a clean place, free from vapours of accressive substances and in conditions preventing any mechanical damages.

aggressive substances and in conditions preventing any mechanical damages. It is necessary to take into account environmental conditions in the place of installation which may cause corrosion of the anchor point and fasteners.

Follow general rules for use of personal fall protection equipment in accordance with EN 795:2012.
Example installations are shown in figures.



Figure 6. Use of horizontal anchor systems

6. Essential principles for use of personal fall protection equipment

Personal fall protection equipment should be used only by personnel trained in this respect. · Personal fall protection 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. · Draw a rescue plan to be implemented whenever necessary.

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 manufacturer of the equipment or his certified

representative.

Personal fall protection equipment shall not be used for any purpose other than intended. · Personal fall protection equipment provides individual protection and shall be used by one person

only.

 Before each use make sure that all parts of the fall arresting system cooperate correctly.
Periodically examine connections and fitting of components of the equipment to prevent any accidental loosening or disconnection.

It is forbidden to use a combination of equipment where function of any one item is affected by, or interferes with the function of any other.

· Before each use of personal fall protection equipment, a pre-use check should be carried out to ensure that it is in a serviceable condition and operates correctly.

· In particular, inspect all accessible elements of the equipment for any damages, excessive wear, corrosion, abrasion, cutting or improper function. On individual devices pay particular attention to: ü in full body harness and work positioning devices: buckles, regulating elements, attachment points (buckles), webbing, seams, belt loops;

ü in energy absorbers: attachment loops, webbing, seams, housing, connectors; ü in lanyards and textile guides: rope, loops, thimbles, connectors, regulating parts, splices;

ü in lanyards and steel guides: rope, wires, clamps, loops, thimbles, connectors, regulating parts; ü in retractable type fall arresters: lanyard or webbing, retractor and locking mechanism for proper operation, housing, energy absorber, connectors;

ü in guided type fall arresters: body, proper guiding, locking mechanism for proper operation, rollers, bolts and rivets, connectors, energy absorber;

ü in connectors (snap hooks): load-bearing body, rivets, main pawl, locking mechanism functionality.

at least once a year, after each 12 months of use, personal fall protection equipment must be withdrawn from use to carry out periodic detailed inspection. Periodic inspection may be carried out by a person who is responsible for periodic inspections in an organisation and properly trained in this respect. Periodic inspections can be carried out also by manufacturer of the equipment or his authorized representative, or an authorized company. Inspect in detail all accessible elements of the equipment paying attention to any damages, excessive wear, corrosion, abrasion, cutting or incorrect function (see the above item.) In some cases, if the fall protection equipment has a complex design (e.g. fall arresters), periodic inspections may be carried out by manufacturer of the equipment, or his authorized representative only. After the periodic inspection, date of the next inspection should be arranged.

· Regular periodic inspections are essential in respect of the equipment condition and safety of users which is dependent on functionality and durability of the equipment.

During periodic inspection it is necessary to check the legibility of all markings on the equipment (identity label of the device).

All information on fall protection equipment (name, serial no., date of purchase and date of first use, name of user, information on repairs and inspections and withdrawal from use) must be provided in the identity card of the device. It is the responsibility of the user organisation to provide the Identity Card and to fill in the required details. The Identity Card should be filled in by a person responsible for fall protection equipment in an organisation. It is forbidden to use personal fall protection equipment if the Identity Card is not filled in.

If the product is re-sold outside the original country of destination the reseller must provide instructions for use, for maintenance, for periodic inspection and for repair in language of the country where the product is to be used.

Personal fall protection equipment must be withdrawn from use immediately if any doubts arise in regard of its condition, or proper operation. The device must not be used until manufacturer of the equipment carries out a detailed inspection and gives his written consent to use the equipment again.

Personal fall protection equipment must be withdrawn from use immediately and destroyed if it has been used to arrest a fall.

· Full body harness is the only admissible device to be used to support the user body in personal fall protection equipment.

In full body harness use only attaching points (buckles, loops) marked with capital letter "A" to attach a fall protection 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 path. The required value of the free space should be taken from instruction manual of used equipment.

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 ofmoistureproof 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 agains 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. 7. Warranty

The manufacturer grants a warranty for 12 months from the date of purchase of the device. If a defect is found in any part, the warranty and guarantee period for this part is extended by the time of repairs and effective removal of the defect found.

The warranty covers: Defects in material,

- Structural defects,
- Anti-corrosion coating defects

According to the requirements of EN 365 the anchoring point shall be subject to periodical inspections carried out at least every 12 months. Periodic inspection shall be carried out by service point authorized by the Manufacturer or person trained in inspections of such equipment. A trained person is a person who, based on own specialized education and adequate experience, has sufficient knowledge in 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 protection devices. Before each use of the system check whether date of the next inspection is not expired. Do not use the device after this date. Before each use of the system visually check the system for its integrity

and technical condition and whether steel cable is tensioned. If any defect or lack of integrity is found, do not use the point.

If any doubts arise as for the use of the equipment, please contact the manufacturer and never

repair the equipment on your own! 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.

When using the system, pay special attention to risks affecting the protective equipment operation or the user's safety, and in particular to kinks and rope movement on sharp edges, oscillatory falls, electricity, influence of extreme temperatures, equipment damage, negative influence of environmental factors, chemical substances and contamination.

Do not modify, repair components of the system or replace them with non-original spare parts.

Declaration of Conformity EU for this product is delivered with the product. If needed it is also available at the manufacturer's website: www.protekt.com.pl

Manufacturer

PROTEKT - Starorudzka 9 - 93-403 Lodz - Poland tel. +4842 6802083 - fax. +4842 6802093 - www.protekt.com.pl

Notified body for EU type examination according to PPE Regulation 2016/425: CIOP PIB -No.1437, CENTRALNÝ INSTYTUT OCHRONY PRACY - PAŇSTWOWY INSTYTUT BADAWCZY, ul. Czerniakowska 16, 00-701 Warszawa

Notified body for control production:

APAVE SUD EUROPE SAS (no 0082) - CS 60193 - F13322 MARSEILLE CEDEX 16 - FRANCE

IDENTITY CARD

It is the responsibility of the user organisation 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 inthe 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 by a competent person in the user organization. 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					
DATE OF PURCHASE					
DATE OF MANUFACURE					
LOCATION OF INSTALLATION:					
USER NAME					
PERIODIC INSPECTION AND REPAIR HISTORY CARD					
DATE OF INSPECTION	REASON FOR INSPECTION OR REPAIR		DEFECTS, CONDITION NOTED REPAIRS CARRIED OUT	NAME AND SIGNATURE OF COMPETENT PERSON	NEXT INSPECTION DATE
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