

 <p>ΑΔΜΗΕ</p>	<p>ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ AUTOMATIC KARABINER</p>	<p>CODE: 831000056</p>
--	---	-----------------------------------

They will be karabiner type connectors class B according EN 362, made of aluminum with a minimum opening of 22 mm, and shall be automatically closed. Their weight shall not exceed 120 gr.

The technical offer shall be accompanied by:

- Certification from a notified body
- One sample
- Detailed prospectus

The devices shall be delivered individually packed, with leaflets of instruction of use and maintenance *in Greek language*.

	<p>ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ FULL BODY HARNESS WITH POSITIONING BELT (M – L - XL)</p>	<p>CODES: 831007722 831000076 831000078</p>
---	--	---

The full body harness shall meet all the basic requirements of EN 361 and shall have a positioning belt incorporated, which shall fulfill the requirements of EN 358.

In addition:

- The shoulder straps shall be made from **elastic** webbing.
- They shall be secondary straps across chest in order to hold shoulder straps. In each shoulder strap, in the front part, **a webbing anchorage point** shall exist in the shape of an eyelet.
- Below the anchorage points, the straps shall have a different direction from the upper part, in order to be easier for the two eyelets to get closer, for the comfortable use of a karabiner between them.
- In the rear part of the harness a webbing extension of 30 cm length at least shall exist that shall end to an eyelet shape anchorage point. When this webbing extension is not in use, it shall be held on to back straps (e.g. by a Velcro strap).

The positioning belt shall also meet the following:

- In the rear part, a pad shall exist which will be made of material that won't provoke sweating and won't be flexible in order to support the user's back. The width increase shall be done gradually without compressing the back in the different working positions. The width in maximum area shall be 14 -20 cm.
- In the front part, two metal anchorage points shall exist in order to connect the rope or webbing. Their construction shall be in such a way that it **shall not permit their rotation**.
- The belt shall be able to **rotate partially**, so that the anchorage points can be moved to any point appropriate for the work execution.
- There shall be at least two rings in every side of the pad. The rings of the right side shall have a distance of 130 mm between them to hold the tool bag. Additionally in the rear side there shall be a device for tools holding (e.g. a permanently thin rope covered with protective material).

Buckles

The belt and leg straps shall have a **special double action buckle**, which shall incorporate a hook and a cavity. The locking shall be done putting the hook into the cavity and the unlocking by pressing two buttons simultaneously so as to avoid accidentally unlocking.

The buckles shall be made of aluminum.

The use of the harness shall be always easy (wearing, size adjustment, working).

The distance between the base of the two metal anchorage points of the positioning belt shall be (with a tolerance of ± 1 cm):

- For the size M: 50 cm
- For the size L: 58 cm
- For the size XL: 64 cm

If the sample of an offer doesn't provide these distances, the respective offer can be acceptable, only in the case where the manufacturer would declare that, in the case of undertaking, the harnesses which will be delivered to IPTO will have the required distances between the two metal anchorage points of the positioning belt, accompanied with the necessary certification.

The full body harnesses will be marked by the legislation marking (CE, the appropriate EN, producer's name and product identification, notified body, month and year of production).

The technical offer shall be accompanied by:

- One sample for every
- Certification from a notified body and declaration of conformity.
- Detailed prospectus
- Customer list

The devices shall be tested in real working conditions from IPTO working groups and **the feeling of safety from IPTO personnel, as well as their suitability with the special conditions of the electrical network shall be taken into account. Especially the products shall not be inconvenient while walking as well as climbing. The front part of the belt shall not be moved out of the pad while working on the pole.**

In IPTO's judgement additional laboratory tests shall be executed at any point of the procedure.

The devices shall be delivered individually packed, with leaflets of instruction of use and maintenance ***in Greek language.***

Per 15 by 20 items (depending on the item) they shall be delivered packed in cartons having mechanical strength.

	ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ AUTOMATIC KARABINER	CODE: 831000056
---	--	----------------------------

They will be karabiner type connectors class M according EN 362.

The technical offer shall be accompanied by:

- Certification from a notified body
- One sample
- Detailed prospectus

The devices shall be delivered individually packed, with leaflets of instruction of use and maintenance *in Greek language*.

	<p style="text-align: center;">ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ LANYARD WITH DOUBLE HOOKS AND ENERGY ABSORBER</p>	<p style="text-align: center;">CODE: 831009780</p>
---	---	--

The device shall meet the basic requirements of EN 355 and shall be consisted of:

- Two webbing lanyards of 1 m length each, those shall be ended to aluminum hooks with a 100 mm at least opening according to EN 362.
- An energy absorber
- An aluminum karabiner for connection with the belt anchorage point.

Its shape shall be as the attached sketch.

It will be marked by the legislation marking (CE, the appropriate EN, producer and product identification, notified body, month and year of production).

The marking will be in every part.

The technical offer shall be accompanied by:

- Certification from a notified body
- One sample
- Detailed prospectus

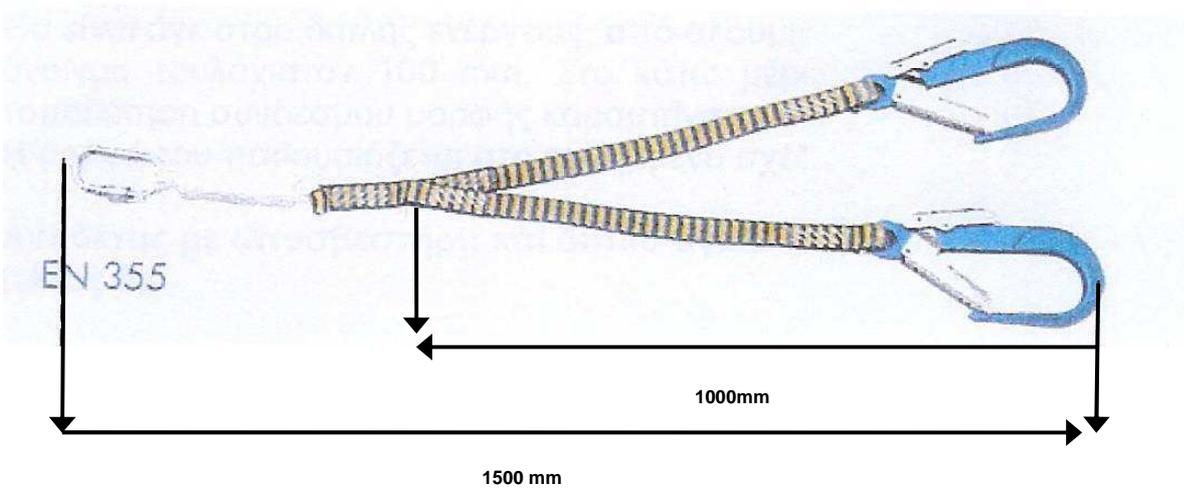
The devices will be tested in real working conditions from IPTO working groups and **shall be taken into account the feeling of safety from IPTO personnel**

In IPTO judgment additional laboratory tests shall be executed in any point of the procedure.

The devices will be delivered individually packed, with leaflets of instruction of use and maintenance *in Greek language*.

Per 15 by 20 items, they shall be delivered packed in cartoons having mechanical strength.

LANYARD WITH DOUBLE HOOKS AND ENERGY ABSORBER
(Scheme))



	<p style="text-align: center;">ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ RETRACTABLE TYPE FALL ARRESTER 2,5 Μ</p>	<p style="text-align: center;">CODE: 831008799</p>
---	--	---

The fall arrester shall meet the requirements of EN 360.

They shall be consisted of:

- A webbing of 2,5 m max length incorporating an energy absorber.
- One drum protected by a plastic case with mechanical resistance.
- In the one end a two action hook will be incorporated for connection with the harness.

The other end shall be suitable for connection with a karabiner.

The technical offer shall be accompanied by:

- Certification from a notified body
- A sample

The devices shall be tested in real working conditions by IPTO working groups and the feeling of safety of IPTO personnel shall be taken into account.

In IPTO's judgment, additional laboratory tests shall be executed at any stage of the procedure considered necessary.

The devices shall be delivered individually packed, with leaflets of instruction of use and maintenance **in Greek language.**

	ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ RETRACTABLE TYPE FALL ARRESTER 6M	CODE: 831000061
---	--	----------------------------

The fall arrester shall meet the requirements of EN 360 and its maximum weight shall be 1,7 kg.

They shall consist of:

- A strap of 20 mm max width made of Kevlar (or an equivalent material) with a maximum length of 6 m.
- A drum protected by a plastic case with mechanical resistance.
- In the upper part of the case a karabiner will be incorporated. In the other end a twisted hook will be incorporated for connection with the harness. The second hook will be of two parts so that the first shall be twisted following the user's movements, and the other one shall be stable to avoid webbing twisting.

If the offered fall arrester has the twisted hook in the upper part of the case in connection with the karabiner, instead of having it in the end of the strap in order to avoid the twisting of the webbing, the offer can be acceptable.

The technical offer shall be accompanied by:

- Certification from a notified body
- A sample

The devices shall be tested in real working conditions by IPTO working groups and the feeling of safety of IPTO personnel shall be taken into account.

In IPTO's judgment, additional laboratory tests shall be executed at any stage of the procedure considered necessary.

The devices shall be delivered individually packed, with leaflets of instruction of use and maintenance **in Greek language**.

	<p style="text-align: center;">ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ RETRACTABLE TYPE FALL ARRESTER 15M</p>	<p style="text-align: center;">CODE: 831009639</p>
---	--	---

The fall arrester shall meet the requirements of EN 360 and its maximum weight shall be 4,5 kg.

They shall be consisted of:

- A webbing of 32 mm max width made of Kevlar (or an equivalent material).
- A drum protected by a plastic case with mechanical resistance.
- In the upper part of the case a karabiner will be incorporated. In the other end a twisted hook will be incorporated for connection with the harness. The second hook will be of two parts so that the first shall be twisted following the user's movements, and the other one shall be stable to avoid webbing twisting.

The technical offer shall be accompanied by:

- Certification from a notified body
- A sample

The devices shall be tested in real working conditions by IPTO working groups and the feeling of safety of IPTO personnel shall be taken into account.

In IPTO's judgment, additional laboratory tests shall be executed at any stage of the procedure considered necessary.

The devices shall be delivered individually packed, with leaflets of instruction of use and maintenance *in Greek language*.

	ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ ROPE FOR BELTS	CODE: 831000806
---	---	---------------------------

The rope shall meet the requirements of EN 358.

Additionally:

- It shall be one-ply made of polyamide or polyester, or three-ply made of polyester and it shall not have any metallic fibers.
- It shall be able to be adjusted until the length of 2m.
- The length adjuster shall have the abilities:
 1. The adjustment must be executed using one hand.
 2. The length shall be impossible to increase in the case of a sudden hit by an object (e.g. crossbeam) to its upper side.
- The length adjuster shall be made of aluminum and its shape shall be ergonomically designed, in order to fit the user's palm.
- At the one end of the rope a two action hook shall be incorporated to join to the belt anchorage points, having a length less than 15 cm and the length adjuster shall be suitable for the connection with a karabiner. *(the karabiner is not included in this supply).*
- A metallic or plastic support shall be fitted to the loop joined with the above two action hook (thimble) at the end of the rope, so that any damage of the rope can be avoided.
- It will have a plastic cover of a minimum length 80 cm, made of laminated synthetic material abrasion-resistant. In particular not any damage should be appeared in the internal layer after being tested according to par. 6.1 of EN 388/2003 at 50.000 circles.

The technical offer shall be accompanied by:

- Certification from a notified body
- A sample

The devices shall be tested in real working conditions by IPTO working groups and **the feeling of safety of IPTO personnel shall be taken into account.**

In IPTO's judgment, additional laboratory tests shall be executed at any stage of the procedure considered necessary.

The devices shall be delivered individually packed, with leaflets of instruction of use and maintenance *in Greek language.*

	<p style="text-align: center;">ΤΕΧΝΙΚΗ ΠΡΟΔΙΑΓΡΑΦΗ WEBBING SLINGS (60cm, 100cm, 150cm)</p>	<p style="text-align: center;">CODES: 831009949 831009950 831009962</p>
---	---	---

The slings shall be double webbing straps (sawed in one point so that to make a unified part), made of synthetic material, they will meet the requirements of EN 795 and shall have the ability to make an eyelet for anchorage in a horizontal or vertical beam.

The width of the sling will not exceed 2,5 cm and there will be an additional protective cover externally. Its resistance to breaking will be more than 20 kN.

The technical offer shall be accompanied by:

- Certification from a notified body
- One sample
- Detailed prospectus

In the delivery, the products shall be accompanied by leaflets of instruction of use and maintenance ***in Greek language.***