

ROPE CLAMPS

EN Handled rope clamps / rope clamps.

MADE IN ITALY
EN 12841:2006-B
EN 567:2013
PATENTED



Regulation (EU) 2016/425
 Personal Protective Equipment against falls from a height.

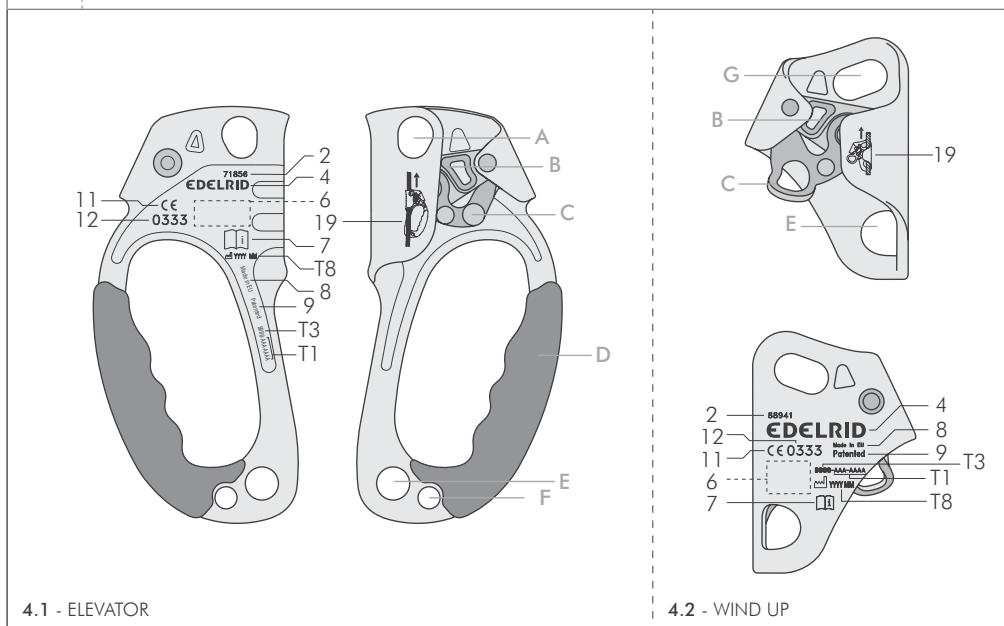


IST12-ROCLAE50_rev.0 01-19



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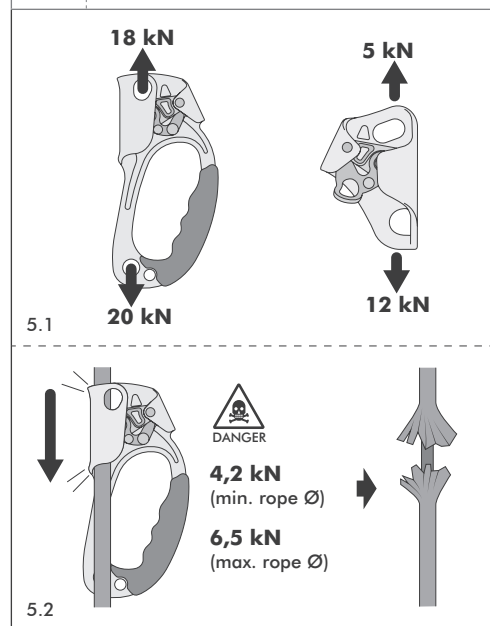
4 MARKING / NOMENCLATURE OF PARTS



4.1 - ELEVATOR

4.2 - WIND UP

5 BREAKING STRENGTH



5.1

5.2

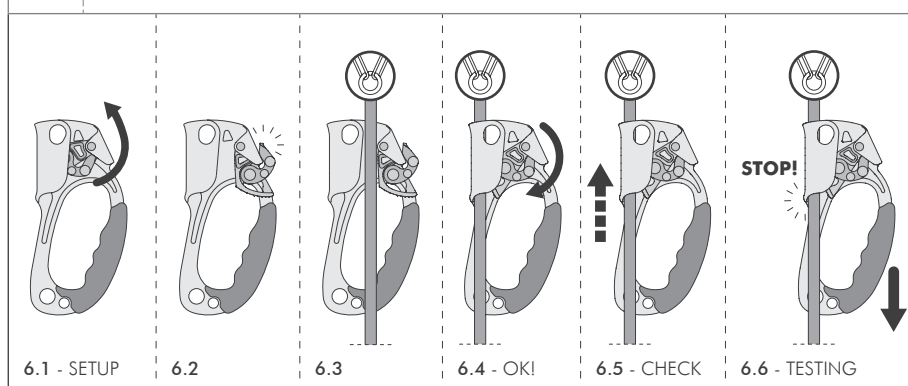
ENGLISH

The instruction manual for this device consists of general and specific instructions, both must be carefully read and understood before use. **Attention!** This leaflet shows the specific instruction only.

SPECIFIC INSTRUCTIONS EN 567 / EN 12841-B. This note contains the necessary information for a correct use of the following product/s: ascenders.

1) FIELD OF APPLICATION. This product is a personal protective device (P.P.E.) against falls from height; it is compliant with the Regulation (EU) 2016/425. **Attention!** For this product the indications of the standard EN 365 must be respected (general instructions / paragraph 2.5). **Attention!** For this product a periodic thorough inspection is compulsory (general instructions / paragraph 8.) EN 12841:2006-B - Rope ac-

6 ELEVATOR - INSTALLATION AND TESTING



6.1 - SETUP

6.2

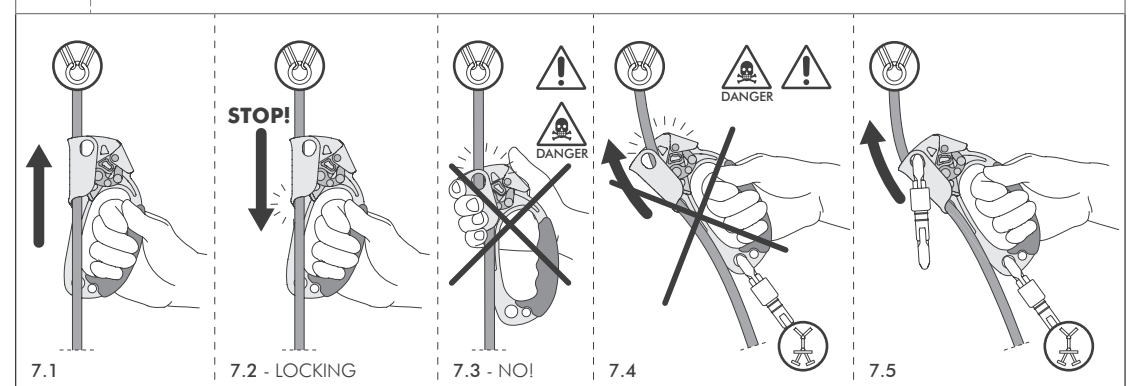
6.3

6.4 - OK!

6.5 - CHECK

6.6 - TESTING

7 ELEVATOR - INSTRUCTIONS OF USE



7.1

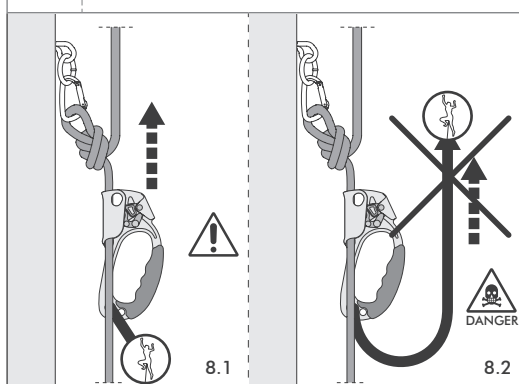
7.2 - LOCKING

7.3 - NO!

7.4

7.5

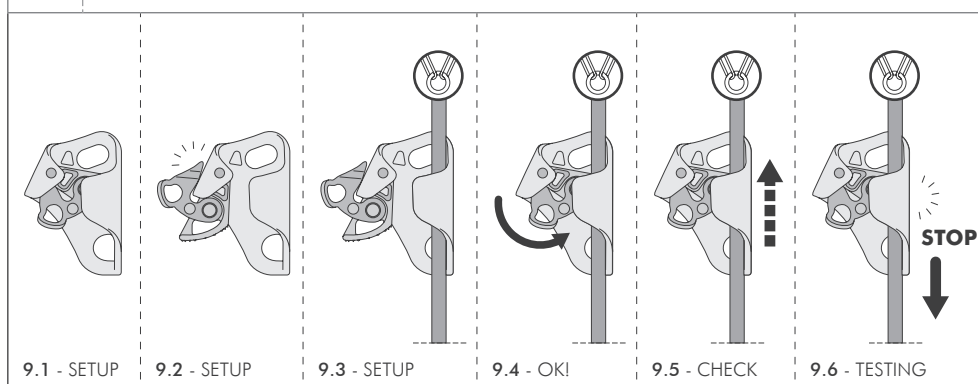
8 ELEVATOR - ATTENTION!



8.1

8.2

9 WIND UP - INSTALLATION AND TESTING



9.1 - SETUP

9.2 - SETUP

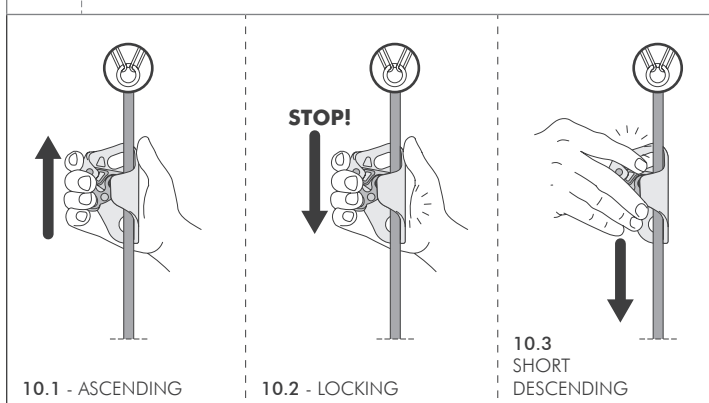
9.3 - SETUP

9.4 - OK!

9.5 - CHECK

9.6 - TESTING

10 WIND UP - INSTRUCTIONS OF USE

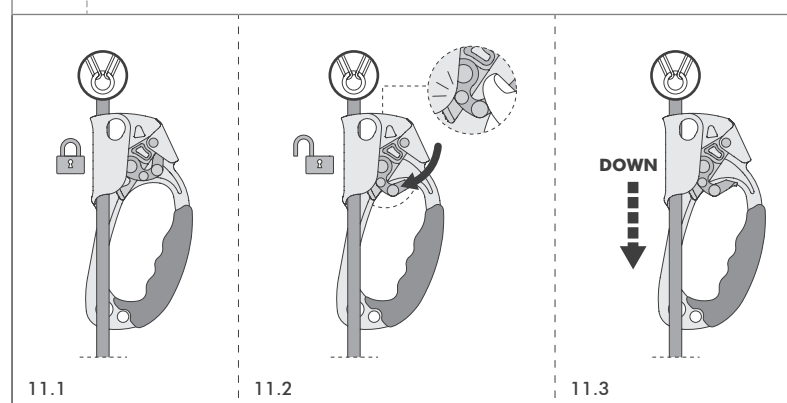


10.1 - ASCENDING

10.2 - LOCKING

10.3
SHORT
DESCENDING

11 PATENT - EASY RELEASE UNDER TENSION



11.1

11.2

11.3

1 MODELS CHART

| Product model | Ref. No. | Weight | Standard |
|----------------|----------|--------|----------------------|
| ELEVATOR LEFT | 71857 | 215 g | EN 567 EN 12841-B |
| ELEVATOR RIGHT | 71856 | | |
| WIND UP | 88941 | 140 g | |

2 ROPE COMPATIBILITY

| | | |
|--|-----------------------------|---|
| | STANDARD EN 567:2013 | EN 892 - Ø 8÷13 mm EN 1891 - Ø 8÷13 mm |
| | STANDARD EN 12841:2006-B | ROPE EN 1891-A Ø 10÷13 mm |

3 EN 12841 - MAX RATED LOAD

| | |
|------------|------------|
| EN 1891 | |
| Ø 10-13 mm | max 140 kg |

cess system / rope adjustment device type B / working line ascender. Must be used with ropes (core + sheath) static or semi-static EN 1891-A Ø 10÷13 mm. **Attention!** For the certification of this device, the following ropes have been employed: Teufelberger Patron PLUS Ø 10 mm and Tendon Static 13 mm. EN 567 - Mountaineering equipment: rope clamps. Must be used with ropes (core + sheath) static or semi-static (EN 1891) or dynamic (EN 892) Ø 8÷13 mm.

2) NOTIFIED BODIES. Refer to the legend in the general instructions (paragraph 9 / table D): M1; N1.

3) NOMENCLATURE OF PARTS (Fig. 4). A) Double upper slot. B) Locking cam. C) Opening/safety/release lever. D) Grip. E) Lower slot. F) Bracket attachment slot. G) Upper slot.

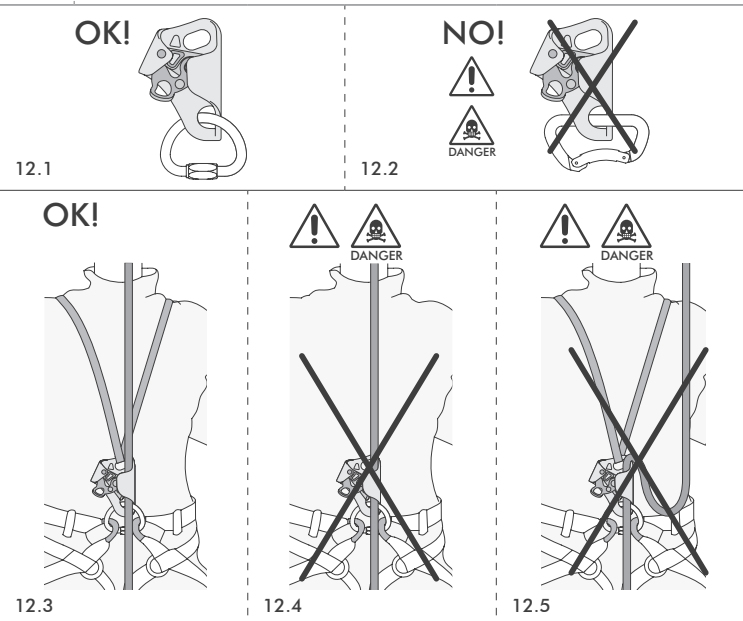
4) MARKING. Numbers/letters without caption: refer to the legend in the general instructions (paragraph 5).

4.1 - General (Fig. 4). Indications: 2; 4; 6; 7; 8; 11; 12; 19.

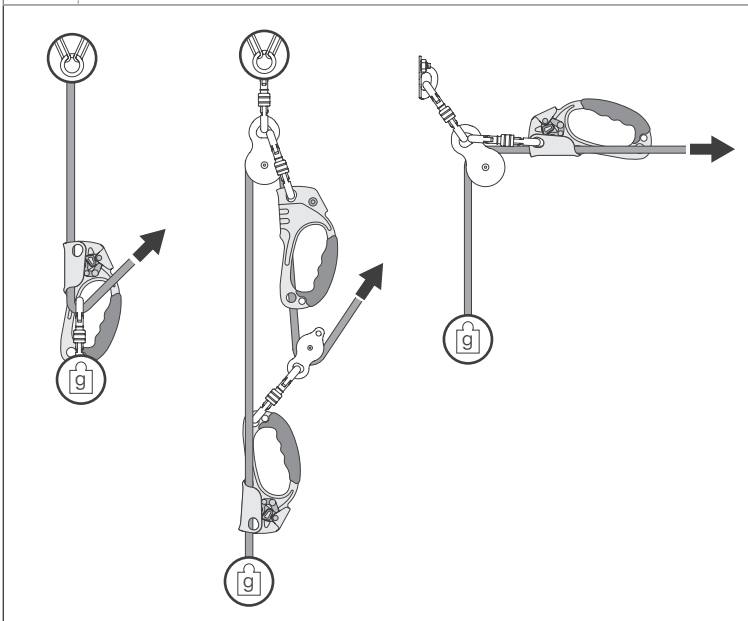
4.2 - Traceability (Fig. 4). Indications: T1; T3; T8.

5) CHECKS. Further to the checks listed below, comply with what indicated in the general instructions (paragraph 3). Check carefully before each use: the cam teeth are

12 WIND UP - PRECAUTIONS OF USE



13 ATTENTION!



duced into the lower hole. Connect the upper hole to the pectoral of the harness in a way that the device adheres vertically to the bust (Fig. 12.2). **Attention!** In order to ascend on a non-vertical rope, hold in the hand the horizontal part of the rope and pull it as much as possible towards a vertical position, in order to avoid the risk that the locking cam opens.

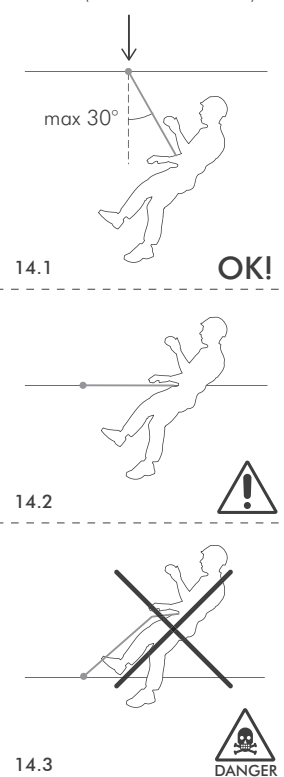
6.4 - Attention. This device is not designed for use during descents but it can be used for short sections as follows: relieve the load from the device to partially open the lever, operating it internally so as not to move the safety lock, move the rope clamp down (2) and reapply the load (Fig. 10.3-11).

18 OPERATING TEMPERATURE

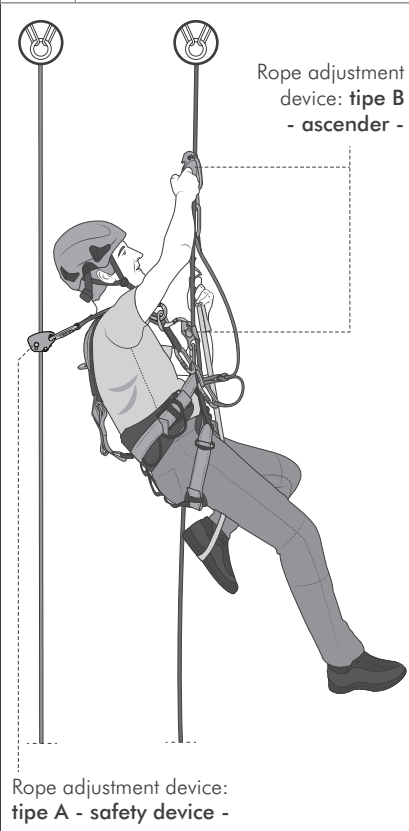
-20 ÷ +104°F  -29 ÷ +40°C

14 ATTENTION!

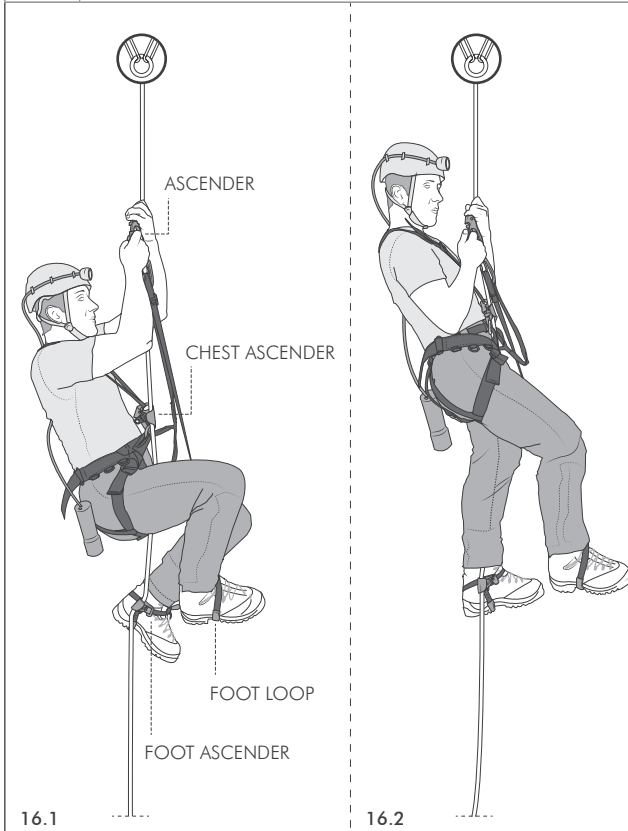
Anchor point EN 795 min. 12 kN or 18 kN (non metallic anchors)



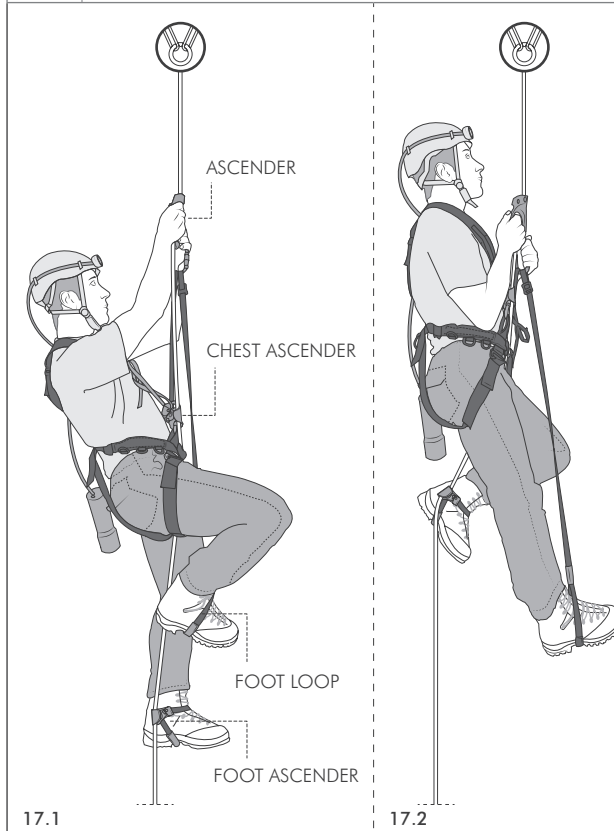
15 ASCENDING A ROPE ROPE ACCESS TECHNIQUE



16 ASCENDING A ROPE SIMULTANEOUS SPELEO PROGRESSION



17 ASCENDING A ROPE ALTERNATE SPELEO PROGRESSION



present and show no signs of wear; the connector placed in the attachment slot is free to rotate unimpeded. During each use: ensure the rope is always in tension to avoid possible free-falls; avoid having slack rope between the anchor and the attachment on the harness; take great care to prevent the rope coming out when using it transversally on stretched ropes.

6) USER INSTRUCTIONS. The anchor point must be always located at or above waist level to minimize the eventual free fall distance (Fig. 14). **Attention!** Do not use on metal cables or plied ropes.

6.1 - Insertion of the rope. Turn the lever to open the cam (Fig. 6.1-9.1). Couple

the lever with the body of the device (Fig. 6.2-9.2). Insert the rope in the correct up/down direction (Fig. 6.3-9.3) and release the lever to close the cam (Fig. 6.4-9.4).

6.2 - Function testing. Run a locking test to make sure the rope is in the R direction (Fig. 6.5-6.6/9.5-9.6). Relieve the load from the device to open it and release the rope. To facilitate cam opening, push the rope clamp upwards and operate the lever at the same time.

6.3 - Ascent (with the aid of another suitable device). The device runs freely upwards (Fig. 7.1-10.1) and locks in position (Fig. 7.2-10.2). Be careful when approaching the anchor and/or fraction points (Fig. 8.1). In no

case should the rope clamp be used when the potential fall factor is greater than 1, i.e. the user must stay at all time below the device and/or the anchor point (Fig. 8.2). **Attention!** A fall factor greater than 1 may cause the rope to break. Only for 71856/71857 models: In order to ascend on a vertical rope, pull downwards parallel to the rope (Fig. 7.2). In order to ascend on a non-vertical rope, you must constrain the direction of the rope by inserting a connector into the top double slot (Fig. 7.5). Only for 88941 model: Secure the device to the harness through a semicircular quick-link (Fig. 12.1) or through a connector with a locking gate (automatic or manual); the quick-link or the connector must be intro-

6.5 - Release under load (PATENTED). The device comes with a mechanism that enables it to open even when it is not possible to relieve the load completely. Move the ratchet grip inward to turn the cam and move it away from the rope, which allows it to release and open out (Fig. 11.1 ÷ 11.3). The force applied depends on the load on the device, but it must always be enough to prevent any accidental opening. With this system the cam does not open if the load applied (e.g. the weight of an operator) is too high. Releasing in the presence of an excessive load may damage the rope slightly.

6.6 - Speleo progression technique. A chest ascender device is used for ascending

on a single rope in combination with a L or R ascent handle, a rope clamp for R or L foot and a foot loop. Progression can be: simultaneous, by pushing both legs together (Fig. 16.1 ÷ 16.2); alternate, by pushing one leg after the other sequentially (Fig. 17.1 ÷ 17.2).

6.7 - 71856/71857 - Other types of use. Some of the operating modes of this device are shown in this manual: **A)** User safety when ascending stairs, ramps or during climbs. **B)** Construction of hoists for rescue and first-aid interventions (Fig. 13). **C)** Use during vertical ascents for self-safety (Fig. 12.4). The rope clamp must be secured to the harness using the two upper slots, and the rope must pass between the carabiner and the side plate of the device.

Attention! Avoid set-ups as shown in figure 12.5-12.6. **D)** Use as waist rope clamp. This device can be used in the waist position when ascending a rope. To keep it in the correct position (i.e. parallel to the body), use a rectangular quick link to secure it to the correct attachment point on the harness (Fig. 12.1-12.2).

7) EN 12841:2006 SPECIFIC INSTRUCTIONS.

These equipment are rope adjustment devices type B, for the ascending of a working line. Rope adjustment devices type B are Personal Protective Equipment (PPE) intended to be incorporated in a rope access system. Rope adjustment devices must not be used for fall arrest. An anchor line loaded with the entire weight of the user, has to be considered a work line and is not meant to arrest a fall. It is mandatory to use a fall arrest back-up device type A connected to a safety line. Pay attention that the back-up system is never loaded on to the work line (Fig. 15).

Warnings: only anchor points that comply with the EN 795 standard can be used (minimum strength 12 kN or 18 kN for non-metallic anchors) that do not have sharp edges; avoid any overloading or loading on the device because can harm the anchor line; maximum length of the lanyard to extend the harness connection by 1 m (lanyard + connectors + device); during the use, the anchor point must always be placed above the operator; the technical performances of the anchor line might vary considerably, due to dirt, moisture, ice, repeated uses on the same stretch: keep in mind that these variances will influence the behavior of the rope inside the device; max work-load 140 kg.

8) SYMBOLS. Refer to the legend in the general instructions (paragraph 15): F2; F3; F4; F5; F9.