Edelweiss is active in the field of safety at height (Sport and Professional) since 1953; we have invented the modern ropes construction still used nowadays. We are not only a brand of pioneers; we are always working to develop better solutions.

Welcome to our 2018 catalogue, Edelweiss stays loyal to its values and offers safety to professionals with reliable and durable products.

For the 2018 season we introduce new products, here is a summary:

- Page 8 - blue and red additional colors for the ropes PROMAX 10,5 and 11mm
- Page 10 - blue and red additional colors for the rope RESCUE 13mm
- Page 16 - adjustable lanyard ALTO
- Page 16 - new design for the lanyard TRAX
- Page 17 - new design and new offer for the lanyard with energy absorber ABSORB
- Page 18 - smart connector SK60
- Page 39 - industrial safety helmet ARROW

Photo credit: Martin Fickweiler
**PPE EN EQUIPMENT STANDARDS**

All products manufactured for sale in the EU as Personal Protective Equipment must comply to one or more relevant product standards. These are all EN or pr EN specifications, and a compliant product should be marked with the EN number, the CE code logotype and the details of the approvals agency. Below is a list of all equipment specifications relating to height safety PPE.

### Work equipment standards: PPE against falls from a height

Industrial height safety equipment generally has a standard in this section, and more are being added over time. If an industrial standard exists, then products used at work must comply to it.

<table>
<thead>
<tr>
<th>Standard</th>
<th>Relates to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN341</td>
<td>Descender devices</td>
</tr>
<tr>
<td>EN353-1</td>
<td>Guided type fall arresters type 1: rigid anchorage line</td>
</tr>
<tr>
<td>EN353-2</td>
<td>Guided type fall arresters type 2: flexible anchorage line</td>
</tr>
<tr>
<td>EN354</td>
<td>Lanyards</td>
</tr>
<tr>
<td>EN355</td>
<td>Shock absorbers</td>
</tr>
<tr>
<td>EN358</td>
<td>Work positioning systems</td>
</tr>
<tr>
<td>EN360</td>
<td>Retractable fall arresters</td>
</tr>
<tr>
<td>EN361</td>
<td>Full body fall arrest harnesses</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard</th>
<th>Relates to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN362</td>
<td>Connectors (carabiners, scaffold hooks, etc)</td>
</tr>
<tr>
<td>EN363</td>
<td>Fall arrest systems (tested as a complete system)</td>
</tr>
<tr>
<td>EN364</td>
<td>Test methods - the standard for how to test products for compliance, used by manufacturers.</td>
</tr>
<tr>
<td>EN365</td>
<td>General requirements for instructions for use, maintenance, periodic examination, repair, marking and packaging - the standard defining what labels and instructions must be used on a product, and what the user is responsible for in terms of maintenance and examination.</td>
</tr>
<tr>
<td>EN813</td>
<td>Sit harnesses (industrial abseil harnesses)</td>
</tr>
<tr>
<td>EN1891</td>
<td>Low stretch kernmantel rope (semi-static rope)</td>
</tr>
<tr>
<td>EN12841</td>
<td>Rope adjustment devices</td>
</tr>
</tbody>
</table>

### Mountaineering and climbing equipment standards

Many products do not yet have an industrial standard, but there is a 'sport mountaineering' version. These mostly come from UIAA specifications, and are no less stringent. If a product does not have an industrial standard, then a mountaineering compliance makes it suitable for use at work. If a product has both, the industrial standard must be used. The best example of this is connectors - a snap-lock carabiner will comply to EN12275 but fail EN362 (which needs a locking mechanism), and so it cannot be used at work.

<table>
<thead>
<tr>
<th>Standard</th>
<th>Relates to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN564</td>
<td>Accessory cord, safety requirements and test methods</td>
</tr>
<tr>
<td>EN565</td>
<td>Tape, safety requirements and test methods</td>
</tr>
<tr>
<td>EN566</td>
<td>Sings, safety requirements and test methods</td>
</tr>
<tr>
<td>EN567</td>
<td>Rope clamps, safety requirements and test methods</td>
</tr>
<tr>
<td>EN568</td>
<td>Ice anchors, safety requirements and test methods</td>
</tr>
<tr>
<td>EN569</td>
<td>Pitons, safety requirements and test methods</td>
</tr>
<tr>
<td>EN892</td>
<td>Dynamic mountaineering rope, safety requirements and test methods</td>
</tr>
<tr>
<td>EN893</td>
<td>Crampoms, safety requirements and test methods</td>
</tr>
<tr>
<td>EN958</td>
<td>Energy absorbing systems for via ferrata (klettersteig) climbing, safety requirements and test methods</td>
</tr>
<tr>
<td>EN959</td>
<td>Rock anchors, safety requirements and test methods</td>
</tr>
<tr>
<td>EN12270</td>
<td>Chocks, safety requirements and test methods</td>
</tr>
<tr>
<td>EN12275</td>
<td>Connectors, safety requirements and test methods</td>
</tr>
<tr>
<td>EN12276</td>
<td>Frictional anchors, safety requirements and test methods</td>
</tr>
<tr>
<td>EN12277</td>
<td>Harnesses, safety requirements and test methods</td>
</tr>
<tr>
<td>EN12278</td>
<td>Pulleys, safety requirements and test methods</td>
</tr>
<tr>
<td>EN12492</td>
<td>Climber’s safety helmets, safety requirements and test methods</td>
</tr>
<tr>
<td>EN13089</td>
<td>Ice tools, safety requirements and test method</td>
</tr>
<tr>
<td>EN15151-1</td>
<td>Braking devices with manually assisted locking, safety requirements and test methods</td>
</tr>
<tr>
<td>EN15151-2</td>
<td>Manual braking devices, safety requirements and test methods</td>
</tr>
</tbody>
</table>

### General standards relating to PPE and ropes

Standards for equipment that may be used outside height safety, such as fibre ropes and site helmets.

<table>
<thead>
<tr>
<th>Standard</th>
<th>Relates to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN397</td>
<td>Industrial safety helmets (site hats)</td>
</tr>
<tr>
<td>EN696</td>
<td>Polyamide fibre ropes (laid and braided - not kernmantel)</td>
</tr>
<tr>
<td>EN701</td>
<td>General service fibre ropes (natural fibre and other polymers not covered by EN696)</td>
</tr>
<tr>
<td>EN795</td>
<td>Anchor devices - requirements and testing (industrial and climbing anchors for any purpose)</td>
</tr>
<tr>
<td>EN45014</td>
<td>General criteria for Certificates of Conformity (instructions for manufacturers)</td>
</tr>
</tbody>
</table>

### Rescue lifting and climbing standards

Specialist standards for rescue equipment. These can only be used for rescuing a casualty in an emergency situation, and are not acceptable for normal work use unless they also comply to the relevant industrial standards, so a harness that complies to EN1497 but not to EN361 cannot be used for industrial fall arrest.

<table>
<thead>
<tr>
<th>Standard</th>
<th>Relates to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN1496</td>
<td>Rescue lifting devices (hauling and winching devices)</td>
</tr>
<tr>
<td>EN1497</td>
<td>Rescue harnesses (rescue nappies and emergency escape harnesses)</td>
</tr>
<tr>
<td>EN1498</td>
<td>Rescue loops (casualty lifting strops)</td>
</tr>
</tbody>
</table>
**THE LOW-STRETCH ROPES**

These are sometimes wrongly called static. They allow access to, and positioning at the worksite. They have moderate stretch, which allows them to absorb sufficient energy to arrest falls of factor 0.3.

**The types of Ropes**

There are two types of ropes.

- **Type A**: Rope for use in rescue, or as a working or security line for work at height. In the latter case it is used for access to the place of work in combination with other items of equipment, or to undertake work under tension or in suspension on the rope.
- **Type B**: Rope of lesser diameter and strength than Type A, demanding greater precautions and attention to security during use.

**Storage and lifetime**

The working life depends on the frequency and the type of use. Abrasion, UV exposure and humidity gradually degrade the properties of the rope. Note that with use, a rope thickens and thus loses up to 10% length.

**Storage time**: In good storage conditions a rope may be kept for 5 years before first use without affecting its future lifetime duration in use.

**Lifetime in use**: A rope could be destroyed during its first use. It is the inspections which determine if the product must be scrapped more quickly. Proper storage between uses is essential. The lifetime of the rope in use must never exceed 10 years. The total maximum lifetime (storage before use + lifetime in use) is thus limited to 15 years.

**Rope identification**:

The rope has a band fastened at its end indicating its type: Type A or B, its diameter, the name of the manufacturer, and the number of the Euro Norm to which it conforms.

**Meaning of markings**:

- **CE**: Conformity to the European directive 0120: Number of the Notified Body
- **EN1891**: Technical reference.

**Coloured filament integrated into the rope indicating the year of manufacture.**

**Thin band running through the rope indicating its type, diameter, the standard it conforms to and year of manufacture.**

**The core**: the heart of the rope, providing the majority of its strength.

**The sheath**: serves to protect the rope from abrasion.

**NB**: A security rope is always of core and sheath construction.
TESTED AND APPROVED

Fall factor $F$:
The fall factor is the ratio of the length of the fall taken to the length of rope which arrests it.

Impact force $IF$:
This is the force which is transmitted to person, connector and anchor point during the arrest of a fall. The impact force given in the performance tables is that obtained by a fall factor 0.3 with a 100Kg mass for type A ropes, and an 80Kg mass for type B ropes. This is required to be less than 6kN.

Number of falls:
The number of falls sustained is determined on a rig which reproduces factor I falls. The terminations on the test length are made with figure of 8 knots. The drop falls are made at intervals of three minutes. Five falls must be sustained, using a 100Kg mass for type A, 80Kg for type B.

Elongation $E$:
This is the elongation of the rope which occurs between loads of 50Kg and 150Kg. It must not exceed 5%.

Knotability $K$:
A single overhand knot is tensioned with a 10Kg weight for one minute, then the internal diameter of the knot is measured with the tension reduced to 1Kg. The internal diameter divided by the rope diameter: $K < 1.2$.

Sheath slippage $S$: 2m of rope is placed in the pulling rig and drawn through it 5 times. Sheath slippage must not exceed 15mm for type B ropes, and $(20 + 10(D - 9))$ mm where $D$ is the rope diameter, for type A ropes.

Shrinkage $R$:
The percentage shrinkage of the rope after soaking in water for 24 hours.

Mass of the sheath:
The minimum sheath percentage which must compose the rope is calculated by $S = \frac{(4D - 4)}{D^2} \times 100$ where $D$ is the rope diameter.

Static strength:
The force required to break the rope when it is pulled slowly. type A ropes must exceed 22kN, type B ropes 18kN.

Static strength with knotted terminations:
A sample of the rope terminated with a figure of 8 must withstand for 3 minutes a force of 15kN (type A) 12kN (type B).
LOW STRETCH ROPES

**BUD 10.5mm**
Versatile low stretch rope with an optimal balance price/quality. Mostly used in moderate work situations.

- Lengths: 50m, 100m, 200m
- Material: Polyamid
- Norm: CE EN 1891 - UIAA
- Type: A
- Code: CSTB105

PERFORMANCES

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10.5mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking strength</td>
<td>24 kN</td>
</tr>
<tr>
<td>Nb of falls factor 1</td>
<td>12</td>
</tr>
<tr>
<td>Impact force factor 0.3</td>
<td>5.6 kN</td>
</tr>
<tr>
<td>Static elongation</td>
<td>3.1%</td>
</tr>
<tr>
<td>Sheath percentage</td>
<td>36.4%</td>
</tr>
<tr>
<td>Weight</td>
<td>67 g/m</td>
</tr>
</tbody>
</table>

**W-LINE 11mm**
This industrial rope is particularly recommended for rope access operation with a motorised ascender / winch. The natural sheath grip offer a maximum efficiency and durability.

- Lengths: 50m, 100m, 200m
- Material: Polyamid
- Norm: CE - EN1891
- Type: A
- Code: CSTW11

PERFORMANCES

<table>
<thead>
<tr>
<th>Diameter</th>
<th>11mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking strength</td>
<td>32 kN</td>
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<tr>
<td>Number of falls factor 1</td>
<td>&gt;20</td>
</tr>
<tr>
<td>Impact force factor 0.3</td>
<td>5.10 kN</td>
</tr>
<tr>
<td>Elongation 50/150 kg</td>
<td>2.8 %</td>
</tr>
<tr>
<td>Sheath percentage</td>
<td>36 %</td>
</tr>
<tr>
<td>Weight</td>
<td>73 g/m</td>
</tr>
</tbody>
</table>
**PROLINE 10.5mm**
Ropes from the PROLINE line benefit from a thick sheath, increasing the longevity of the rope in difficult or intensive work conditions. Stitched eye can be ordered.

- **Lengths:** 50m, 100m, 200m
- **Material:** Polyamid
- **Norm:** CE EN 1891 - UIAA
- **Type:** A
- **Code:** CSTP105

**PERFORMANCES**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>10.5mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking strength</td>
<td>26kN</td>
</tr>
<tr>
<td>Nb of falls factor 1</td>
<td>15</td>
</tr>
<tr>
<td>Impact force factor 0.3</td>
<td>4.6kN</td>
</tr>
<tr>
<td>Static elongation</td>
<td>4.8%</td>
</tr>
<tr>
<td>Sheath percentage</td>
<td>44%</td>
</tr>
<tr>
<td>Weight</td>
<td>65g/m</td>
</tr>
</tbody>
</table>

**PROLINE 11mm**
Ropes from the PROLINE line benefit from a thick sheath, increasing the longevity of the rope in difficult or intensive work conditions. Stitched eye can be ordered.

- **Lengths:** 50m, 100m, 200m
- **Material:** Polyamid
- **Norm:** CE EN 1891 - UIAA
- **Type:** A
- **Code:** CSTP11

**PERFORMANCES**

<table>
<thead>
<tr>
<th>Diameter</th>
<th>11mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking strength</td>
<td>28 kN</td>
</tr>
<tr>
<td>Nb of falls factor 1</td>
<td>&gt;20</td>
</tr>
<tr>
<td>Impact force factor 0.3</td>
<td>4.35kN</td>
</tr>
<tr>
<td>Static elongation</td>
<td>4%</td>
</tr>
<tr>
<td>Sheath percentage</td>
<td>43.7%</td>
</tr>
<tr>
<td>Weight</td>
<td>75g/m</td>
</tr>
</tbody>
</table>
**UNICORE ROPES**

**PROMAX 10.5mm**
Ropes from the PROMAX line benefit from a thick sheath, increasing the longevity of the rope in difficult or intensive work conditions. Stitched eye can be ordered.

- **Lengths:** 50m, 100m, 200m
- **Material:** Polyamid
- **Norm:** CE EN 1891 - UIAA
- **Type:** A
- **Code:** CSTP105U

**PERFORMANCES**
- **Diameter:** 10.5mm
- **Breaking strength:** 26kN
- **Nb of falls factor 1:** 15
- **Impact force factor 0.3:** 4.6kN
- **Static elongation:** 4.8%
- **Sheath percentage:** 43.7%
- **Weight:** 65g/m

**PROMAX 11mm**
Ropes from the PROMAX line benefit from a thick sheath, increasing the longevity of the rope in difficult or intensive work conditions. Stitched eye can be ordered.

- **Lengths:** 50m, 100m, 200m
- **Material:** Polyamid
- **Norm:** CE EN 1891 - UIAA
- **Type:** A
- **Code:** CSTP11U

**PERFORMANCES**
- **Diameter:** 11mm
- **Breaking strength:** 28kN
- **Nb of falls factor 1:** >20
- **Impact force factor 0.3:** 4.35kN
- **Static elongation:** 4%
- **Sheath percentage:** 43.7%
- **Weight:** 75g/m

**PROMAX 11.5mm**
The PROMAX rope offers a high breaking strength and its UNICORE treatment increases safety features in eliminating sheath slippage, even if the sheath is cut. Evacuation is then still possible. Stitched eye can be ordered.

- **Lengths:** 50m, 100m, 200m
- **Material:** Polyamid
- **Norm:** CE EN 1891 - UIAA
- **Type:** A
- **Code:** CSTP115U

**PERFORMANCES**
- **Diameter:** 11.5mm
- **Breaking strength:** 40kN
- **Nb of falls factor 1:** >20
- **Impact force factor 0.3:** 5.1kN
- **Static elongation:** 3.7%
- **Sheath percentage:** 32%
- **Weight:** 88g/m

**UNICORE CONCEPT**
An astonishing process, bonding rope sheath and core without affecting the rope’s suppleness. Even in the hardest conditions of use sheath slippage is suppressed, if the sheath is cut or torn, core and sheath remain bonded together. With a standard rope, if the sheath is cut by abrasion over an edge, a frequent occurrence in work at height and in rescues, it slides and gathers over some metres. It then becomes impossible to pass this zone, either to ascend or to descend. If the problem occurs near to the end of the rope the sheath may slide off completely, and the user fall to the ground.

With the UNICORE process the sheath remains in place and the user may escape, either by descent or ascent, taking all necessary precautions. He/she is not stuck without a solution on the rope. The UNICORE process brings an undeniable gain in security during delicate and dangerous operations.
TEMP 11mm
The Temp rope is conceived for hostile environment, such as high temperature or chemical hazard situation. Its aramide core withstands short periods at 300°C temperature; if the polyamide melts, the aramide core still holds 800 daN. At 500°C, the rope is completely destroyed.

Lengths: 50m, 100m, 200m
Material: Polyamid/Aramid
Norm: CE EN 1891 - UIAA
Type: A
Code: CSTPA

PERFORMANCES
Diameter  11mm
Breaking strength 25kN
Nb of falls factor 1 15
Impact force factor 0,3 5.6kN
Static elongation 3.1%
Sheath percentage 42%
Weight 79g/m

TEMP CONCEPT

EFFECT OF HIGH TEMPERATURES ON ARAMID
The resistance of Aramid to high temperatures is best illustrated by the graph illustrating the residual strength after exposure to raised temperatures. Thus we may for example see that after 10 hours of exposure at 200°C it retains 100% of its strength, or that after 1 hour at 350°C it retains 90% of its strength.
**RESCUE 12mm**

The Rescue 12mm rope was specially developed for rescue interventions when extra breaking strength is required. It remains easy to knot even with its large diameter.

- **Lengths:** 50m, 100m, 200m
- **Material:** Polyamid
- **Norm:** CE EN 1891 - UIAA
- **Type:** A
- **Code:** CSTN12

**PERFORMANCES**

- Diameter: 12mm
- Breaking strength: 35kN
- Nb of falls factor 1 > 20
- Impact force factor 0.3: 5kN
- Static elongation: 4.3%
- Sheath percentage: 36.8%
- Weight: 88g/m

---

**RESCUE 13mm**

Low stretch rope for search and rescue activity.

- **Lengths:** 50m, 100m, 200m
- **Material:** Polyamid
- **Norm:** CE EN 1891 - UIAA
- **Type:** A
- **Code:** CSTN13

**PERFORMANCES**

- Diameter: 13mm
- Breaking strength: 44kN
- Nb of falls factor 1 > 20
- Impact force factor 0.3: 5.4kN
- Static elongation: 2.9%
- Sheath percentage: 37%
- Weight: 107g/m

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**ELITE RESCUE 10.6mm**

Type A low-stretch rope made of a polyester-polyamid composite sheath, with Everdry treatment. The rope has a high resistance to abrasion whilst remaining supple in use which make it extremely suitable for water rescue.

- **Material sheath / core:** Polyamid-Polyester/Polyamid
- **Lengths:** 50m, 100m, 200m
- **Norm:** CE EN 1891 - UIAA
- **Type:** A
- **Code:** CSTER106

**PERFORMANCES**

- Diameter: 10.6mm
- Breaking strength: 25kN
- Nb of falls factor 1: 15
- Impact force factor 0.3: 5.2kN
- Static elongation (50/150kg): 4%
- Sheath percentage: 37%
- Weight: 71g/m

---

**CANYON 10mm**

Type A low-stretch rope made of a polyester-polyamid composite sheath, with Everdry treatment. The rope has a high resistance to abrasion whilst remaining supple in use. Compared to a standard polyamid sheath, the shrinkage in water is reduced by a factor of 3.

- **Lengths:** 50m, 100m, 200m
- **Material sheath / core:** Polyamid-Polyester/Polyamid
- **Norm:** CE EN 1891 - UIAA
- **Type:** A
- **Code:** CSTC10

**PERFORMANCES**

- Diameter: 10mm
- Breaking strength: 23kN
- Nb of falls factor 1: 6
- Impact force factor 0.3: 5kN
- Static elongation (50/150kg): 4.5%
- Sheath percentage: 35%
- Weight: 68g/m
PROLINE 10.5 mm
Ropes from the PROLINE line benefit from a thick sheath, increasing the longevity of the rope in difficult or intensive work conditions. Stitched eye can be ordered.

Lengths: 50m, 100m, 200m
Material: Polyamid
Norm: CE EN 1891 - UIAA
Type: A
Code: CSTPN105

PROLINE 11 mm
Ropes from the PROLINE line benefit from a thick sheath, increasing the longevity of the rope in difficult or intensive work conditions. Stitched eye can be ordered.

Lengths: 50m, 100m, 200m
Material: Polyamid
Norm: CE EN 1891 - UIAA
Type: A
Code: CSTPN11

W-LINE 11 mm
This industrial rope is particularly recommended for rope access operation with a motorised ascender / winch. The natural sheath grip offers a maximum efficiency and durability.

Lengths: 50m, 100m, 200m
Material: Polyamid
Norm: CE - EN1891
Type: A
Code: CSTW11

ACTION 11 mm
Type A low stretch rope specially developed for the fast descent by special forces. The Aramid sheath doesn’t melt even against an overheated descender. The ACTION rope allows fast descent whereas the classical ropes will be destroyed.

Lengths: 50m, 100m, 200m
Material sheath / core: Aramid / Polyamid
Norm: CE EN 1891
Type: A
Code: CSTAK11

TEST WITH BLOWTORCH
Semi-static rope holding a mass of 100kg exposed to a temperature of 400° C (+ or - 50° C) for 15 minutes.

Results:
- **Classic 11 mm rope:** Break after around 40 sec.
- **Action 11 mm rope:** Residual strength around 1000 daN after 15 minutes.

PERFORMANCES

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<tr>
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<td>26 kN</td>
</tr>
<tr>
<td>Nb of falls factor 1</td>
<td>15</td>
</tr>
<tr>
<td>Impact force factor 0.3</td>
<td>4.6 kN</td>
</tr>
<tr>
<td>Static elongation</td>
<td>4.8%</td>
</tr>
<tr>
<td>Sheath percentage</td>
<td>44%</td>
</tr>
<tr>
<td>Weight</td>
<td>65 g/m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diameter</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Breaking strength</td>
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<tr>
<td>Nb of falls factor 1</td>
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<tr>
<td>Impact force factor 0.3</td>
<td>4.35 kN</td>
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<tr>
<td>Static elongation</td>
<td>4%</td>
</tr>
<tr>
<td>Sheath percentage</td>
<td>43.7%</td>
</tr>
<tr>
<td>Weight</td>
<td>75 g/m</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diameter</th>
<th>11 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking strength</td>
<td>32 kN</td>
</tr>
<tr>
<td>Strength with figure 8 knot</td>
<td>21 kN</td>
</tr>
<tr>
<td>Number of falls factor 1</td>
<td>&gt;20</td>
</tr>
<tr>
<td>Impact force factor 0.3</td>
<td>5.10 kN</td>
</tr>
<tr>
<td>Elongation 50/150 kg</td>
<td>2.8%</td>
</tr>
<tr>
<td>Sheath slippage</td>
<td>0.8%</td>
</tr>
<tr>
<td>Shrink in water</td>
<td>4%</td>
</tr>
<tr>
<td>Sheath percentage</td>
<td>36%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diameter</th>
<th>11 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaking strength</td>
<td>24 kN</td>
</tr>
<tr>
<td>Nb of falls factor 1</td>
<td>6</td>
</tr>
<tr>
<td>Impact force factor 0.3</td>
<td>5.9 kN</td>
</tr>
<tr>
<td>Static elongation (50/150kg)</td>
<td>3.2%</td>
</tr>
<tr>
<td>Sheath percentage</td>
<td>30%</td>
</tr>
<tr>
<td>Weight</td>
<td>75 g/m</td>
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</table>
**CORDS**

Multi purpose Polyamide accessory cords, with great abrasion resistance thanks to a specific braiding. Available on roll or packet lengths.

<table>
<thead>
<tr>
<th>CODE</th>
<th>DIAMETER</th>
<th>LENGTH</th>
<th>COLOR</th>
<th>WEIGHT</th>
<th>BREAKING STRENGTH</th>
<th>NORM</th>
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<tbody>
<tr>
<td>C01</td>
<td>Cord 1mm</td>
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<td>C03</td>
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<td>EN564 UIAA</td>
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<tr>
<td>C04</td>
<td>Cord 4mm</td>
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<td>Cord 5mm</td>
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<td>Grey</td>
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<td>5 kN</td>
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<td>C06</td>
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<td>Green</td>
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# Low Stretch Ropes

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Standards</th>
<th>Type</th>
<th>Ø</th>
<th>Breaking strength (kN)</th>
<th>Breaking strength with figure of 8 knot (kN)</th>
<th>Strength with stitched eye (kN)</th>
<th>Nb of falls FF 1.5 (kN)</th>
<th>Static elongation (%)</th>
<th>Sheath slippage (%)</th>
<th>Sheath percentage (%)</th>
<th>Weight</th>
<th>Shrink in water (%)</th>
<th>Material</th>
<th>Treatment</th>
<th>Options</th>
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<tbody>
<tr>
<td>CSTB105.xx</td>
<td>BUD 10.5mm</td>
<td>CE EN 1891 - UIAA</td>
<td>Type A</td>
<td>10,5</td>
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<td>16</td>
<td>12</td>
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<td>0,2</td>
<td>36,4</td>
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<td></td>
<td>Stitched Eye</td>
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<tr>
<td>CSTP105.xx</td>
<td>PROLINE 10.5mm</td>
<td>CE EN 1891 - UIAA</td>
<td>Type A</td>
<td>10,5</td>
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<td>17</td>
<td>22</td>
<td>15</td>
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<td>Unicore</td>
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<td>Unicore</td>
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## Special Ropes

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<thead>
<tr>
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<th>Breaking strength with figure of 8 knot (kN)</th>
<th>Strength with stitched eye (kN)</th>
<th>Nb of falls FF 1.5 (kN)</th>
<th>Static elongation (%)</th>
<th>Sheath slippage (%)</th>
<th>Sheath percentage (%)</th>
<th>Weight</th>
<th>Shrink in water (%)</th>
<th>Material</th>
<th>Treatment</th>
<th>Options</th>
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<tr>
<td>CSTPA.xx</td>
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## Arborist Ropes

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<th>Nb of falls FF 1.5 (kN)</th>
<th>Static elongation (%)</th>
<th>Sheath slippage (%)</th>
<th>Sheath percentage (%)</th>
<th>Weight</th>
<th>Shrink in water (%)</th>
<th>Material</th>
<th>Treatment</th>
<th>Options</th>
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<tr>
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<td>17</td>
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<td>Polyester</td>
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## Rescue Ropes

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<th>Strength with stitched eye (kN)</th>
<th>Nb of falls FF 1.5 (kN)</th>
<th>Static elongation (%)</th>
<th>Sheath slippage (%)</th>
<th>Sheath percentage (%)</th>
<th>Weight</th>
<th>Shrink in water (%)</th>
<th>Material</th>
<th>Treatment</th>
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<td>CSTM2.xx</td>
<td>RESCUE 12mm</td>
<td>CE EN 1891 - UIAA</td>
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<td>12</td>
<td>35</td>
<td>15</td>
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<tr>
<td>CST15.xx</td>
<td>RESCUE 10mm</td>
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<td>Type A</td>
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<td>37</td>
<td>107 g/m</td>
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<td>Polyamid</td>
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## Canyon & Water Rescue Ropes

<table>
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<tr>
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<th>Strength with stitched eye (kN)</th>
<th>Nb of falls FF 1.5 (kN)</th>
<th>Static elongation (%)</th>
<th>Sheath slippage (%)</th>
<th>Sheath percentage (%)</th>
<th>Weight</th>
<th>Shrink in water (%)</th>
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<tr>
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<td>Elite rescue 10.6mm</td>
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<td>10,6</td>
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<td>5,2</td>
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<td>37</td>
<td>72g/m</td>
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<td>Sheath Polyamide/ Polyester Core Polyamide</td>
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<td>CSTC10.xx</td>
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<td>23</td>
<td>17</td>
<td>6</td>
<td>5</td>
<td>4,5</td>
<td>0</td>
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<td>68kg/m</td>
<td>1,5</td>
<td>Sheath Polyamide/ Polyester Core Polyamide</td>
<td>Everdry</td>
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## Military & Police Ropes

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<tr>
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<th>Strength with stitched eye (kN)</th>
<th>Nb of falls FF 1.5 (kN)</th>
<th>Static elongation (%)</th>
<th>Sheath slippage (%)</th>
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<th>Weight</th>
<th>Shrink in water (%)</th>
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<td>Sheath Aramid Core polyamide</td>
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</table>
### SEWN SLINGS

Our offer of slings gives you a choice for every profession and favorite use. Thanks to our experiences, we decided to certify if possible for all 3 EN standards EN566, EN795B and EN354.

16mm, 19 mm and 26 mm Tubular open slings are completed with an offer of a 18 mm flat webbing sling and a 10mm Dyneema sling.

In additional we created a lightweight sling that holds up to 30kN with a reinforced eye, eye-ring called. A perfect sling to have with you under any circumstances, available in 60, 80, 120, 150 cms

---

#### SEWN SLING TUBULAR 16 mm

<table>
<thead>
<tr>
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<th>LENGTH</th>
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<th>WEIGHT</th>
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<tr>
<td>SA16.30</td>
<td>30cm</td>
<td>Orange</td>
<td>20g</td>
<td>EN566 - EN795B - EN354</td>
</tr>
<tr>
<td>SA16.60</td>
<td>60cm</td>
<td>Black</td>
<td>38g</td>
<td>EN566 - EN795B - EN354</td>
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<tr>
<td>SA16.120</td>
<td>120cm</td>
<td>Red</td>
<td>73g</td>
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<tr>
<td>SA16.180</td>
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<td>Orange</td>
<td>105g</td>
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<tr>
<td>SA16.240</td>
<td>240cm</td>
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<td>137g</td>
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#### SEWN SLING TUBULAR 19 mm

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<tr>
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<td>25g</td>
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<td>47g</td>
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<td>89g</td>
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<tr>
<td>SA19.180</td>
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<td>129g</td>
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<td>SA19.240</td>
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<td>Green</td>
<td>168g</td>
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#### SEWN SLING TUBULAR 26 mm

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<tr>
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<td>53g</td>
<td>EN566 - EN795B - EN354</td>
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<tr>
<td>SA26.120</td>
<td>120cm</td>
<td>Green or Black</td>
<td>101g</td>
<td>EN566 - EN795B - EN354</td>
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### SEWN SLING FLAT 18 mm

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<tr>
<td>SAD18.30</td>
<td>30 cm</td>
<td>Red</td>
<td>26 g</td>
<td>EN566 - EN795B - EN354</td>
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<tr>
<td>SAD18.60</td>
<td>60 cm</td>
<td>Black</td>
<td>48 g</td>
<td>EN566 - EN795B - EN354</td>
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<td>92 g</td>
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<td>SAD18.180</td>
<td>180 cm</td>
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<td>137 g</td>
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<td>240 cm</td>
<td>Red</td>
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<td>EN566 - EN795B</td>
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### SEWN SLING DYNEEMA 10 mm

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<tbody>
<tr>
<td>SAD10.30</td>
<td>30 cm</td>
<td>Red</td>
<td>11 g</td>
<td>EN566 - EN795B - EN354</td>
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<tr>
<td>SAD10.60</td>
<td>60 cm</td>
<td>Black</td>
<td>20 g</td>
<td>EN566 - EN795B - EN354</td>
</tr>
<tr>
<td>SAD10.120</td>
<td>120 cm</td>
<td>Red</td>
<td>38 g</td>
<td>EN566 - EN795B - EN354</td>
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<td>SAD10.180</td>
<td>180 cm</td>
<td>Black</td>
<td>56 g</td>
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<td>240 cm</td>
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<td>73.5 g</td>
<td>EN566 - EN795B</td>
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ALTO
Adjustable lanyard
Norm: CE - EN358
Material: PA/PES for the lanyard
Alloy for the adjuster and connector

ALTO is an adjustable (EN358) work positioning lanyard in 12.5 mm
semi-static rope available with or without connectors, 2 lengths (200 &
400 cm) and following features:
- Easy adjusting rope clamp.
- Tubular protection webbing for the rope.
- Sewn termination with reinforced eye.
- Transparent cover that allows the inspection of sewing.
- Marked with a unique serial number.

<table>
<thead>
<tr>
<th>CODE</th>
<th>SIZE</th>
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<tr>
<td>LRA.400.P</td>
<td>400 cm</td>
<td>780 g</td>
</tr>
</tbody>
</table>

TRAX
TRAX is a dynamic lanyard and can also be used as
temporary anchor device for working at height.
Both ends have stitched eyes with plastic cover and
extra webbing tape as abrasion protection.

<table>
<thead>
<tr>
<th>CODE</th>
<th>SIZE</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>L.60</td>
<td>60 cm</td>
<td>80 g</td>
</tr>
<tr>
<td>L.80</td>
<td>80 cm</td>
<td>100 g</td>
</tr>
<tr>
<td>L.100</td>
<td>100 cm</td>
<td>120 g</td>
</tr>
<tr>
<td>L.120</td>
<td>150 cm</td>
<td>140 g</td>
</tr>
</tbody>
</table>

DYNAMIC LANYARD

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CODE</th>
<th>TOTAL LENGTH</th>
<th>NORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trax I</td>
<td>LDI.60</td>
<td>60 cm</td>
<td>EN354 - EN795B</td>
</tr>
<tr>
<td>Trax I</td>
<td>LDI.80</td>
<td>80 cm</td>
<td>EN354 - EN795B</td>
</tr>
<tr>
<td>Trax I</td>
<td>LDI.100</td>
<td>100 cm</td>
<td>EN354 - EN795B</td>
</tr>
<tr>
<td>Trax I</td>
<td>LDI.120</td>
<td>120 cm</td>
<td>EN354 - EN795B</td>
</tr>
</tbody>
</table>

DYNAMIC PROGRESSION LANYARD

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CODE</th>
<th>TOTAL LENGTH</th>
<th>NORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trax V</td>
<td>LDV.65</td>
<td>30/65 cm</td>
<td>EN354</td>
</tr>
<tr>
<td>Trax V</td>
<td>LDV.85</td>
<td>30/85 cm</td>
<td>EN354</td>
</tr>
</tbody>
</table>
**ENERGY ABSORBERS**

**ABSORB**

ABSORB is a webbing construction energy absorber.

**ABSORB-I** is a fall arrest lanyard for restraint or progression on a fixed line. Both ends have stitched eyes with plastic covers.

**ABSORB-V** is a fall arrest double lanyard for progression on a fixed line with intermediate anchors or progression on a structure. Both ends have stitched eyes with plastic covers.

### ENERGY ABSORBER

<table>
<thead>
<tr>
<th>CODE</th>
<th>TOTAL LENGTH</th>
<th>NORM</th>
<th>COMPOSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHABS</td>
<td>18 cm</td>
<td>EN355</td>
<td>ABSORB</td>
</tr>
</tbody>
</table>

### SINGLE LANYARD WITH ENERGY ABSORBER

<table>
<thead>
<tr>
<th>CODE</th>
<th>TOTAL LENGTH</th>
<th>NORM</th>
<th>COMPOSITION</th>
<th>WEIGHT</th>
<th>MINIMUM CLEARANCE / 100KG FACTOR 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHAB.I10</td>
<td>80 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + I-Lanyard</td>
<td>330 g</td>
<td>4,7 m</td>
</tr>
<tr>
<td>SHAB.I10.C60</td>
<td>100 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + I-Lanyard + connector C60</td>
<td>805 g</td>
<td>4,7 m</td>
</tr>
<tr>
<td>SHAB.I15</td>
<td>130 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + I-Lanyard</td>
<td>385 g</td>
<td>5,30 m</td>
</tr>
<tr>
<td>SHAB.I15.C60</td>
<td>150 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + I-Lanyard + connector C60</td>
<td>860 g</td>
<td>5,30 m</td>
</tr>
<tr>
<td>SHAB.I18</td>
<td>160 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + I-Lanyard</td>
<td>420 g</td>
<td>6,25 m</td>
</tr>
<tr>
<td>SHAB.I18.C60</td>
<td>180 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + I-Lanyard + connector C60</td>
<td>895 g</td>
<td>6,25 m</td>
</tr>
</tbody>
</table>

### DOUBLE LANYARD WITH ENERGY ABSORBER

<table>
<thead>
<tr>
<th>CODE</th>
<th>TOTAL LENGTH</th>
<th>NORM</th>
<th>COMPOSITION</th>
<th>WEIGHT</th>
<th>MINIMUM CLEARANCE / 100KG FACTOR 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHAB.V10</td>
<td>80 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + V-Lanyard</td>
<td>385 g</td>
<td>4,7 m</td>
</tr>
<tr>
<td>SHAB.V10.C60</td>
<td>100 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + V-Lanyard + 2 connectors C60</td>
<td>1335 g</td>
<td>4,7 m</td>
</tr>
<tr>
<td>SHAB.V15</td>
<td>130 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + V-Lanyard</td>
<td>500 g</td>
<td>5,30 m</td>
</tr>
<tr>
<td>SHAB.V15.C60</td>
<td>150 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + V-Lanyard + 2 connectors C60</td>
<td>1450 g</td>
<td>5,30 m</td>
</tr>
<tr>
<td>SHAB.V18</td>
<td>160 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + V-Lanyard</td>
<td>565 g</td>
<td>6,25 m</td>
</tr>
<tr>
<td>SHAB.V18.C60</td>
<td>180 cm</td>
<td>EN355</td>
<td>Connector O3 + ABSORB + V-Lanyard + 2 connectors C60</td>
<td>1515 g</td>
<td>6,25 m</td>
</tr>
</tbody>
</table>
SK60 SCAFFOLD CONNECTOR LIGHT ALLOY

Norm: CE EN 362
Type: A/T
Length: 245mm
Width: 115mm
Opening: 62mm
Weight: 240 g
Material: Aluminium light alloy
Code: MSK60

Scaffold connector with self locking system, Express opening 62 mm. Ergonomic handling, very light product which can fits on every lanyards even with already made eyelet.
**C23 STEEL**  
Double gate automatic connector with 18mm opening.  
Length: 136mm  
Width: 60mm  
Eyelet: 22mm  
Breaking strength: 22kN  
Weight: 230g  
Norm: CE EN 362  
Code: MC23

**QUICK LINK STEEL**  
Oval 8mm diameter quick link with screw gate.  
Type: Q  
Length: 76 mm  
Width: 25 mm  
Ø: 8 mm  
Weight: 76 g  
Breaking Strength: 25 kN  
Norm: CE EN 12275 - UIAA  
Code: MRAPID8

**C60 LIGHT ALLOY**  
Double gate automatic connector with wide 60mm opening for scaffolding and other metallic structure.  
Length: 236mm  
Width: 114mm  
Eyelet: 22mm  
Breaking strength: 22kN  
Weight: 475g  
Norm: CE EN362 - UIAA  
Code: MC60

**C110 LIGHT ALLOY**  
Double gate automatic connector with wide 110mm opening for scaffolding and other metallic structure.  
Length: 358 mm  
Width: 165 mm  
Eyelet: 27 mm  
Breaking strength: 25 kN  
Weight: 920 g  
Norm: CE EN362  
Code: MC110
PERFORMANCE LIGHT ALLOY
Eyelet connector with triple action opening for maximum security in sportive and professional activities. Catch free closure.

Type: K / T
Length: 138 mm
Width: 70 mm
Eyelet D: 24 mm
Weight: 134 g
Major axis strength: 28 kN
Minor axis strength: 10 kN
Open strength: 10 kN
Norm: CE EN 12275 / 362 - UIAA
Code: MJET

JET LIGHT ALLOY
Screw gate carabiner, catch free closure and light weight ergonomic body.

Type: B
Length: 107 mm
Width: 66 mm
Weight: 65 g
Major axis strength: 28 kN
Minor axis strength: 8 kN
Open strength: 7 kN
Norm: CE EN 12275 / 362 - UIAA
Code: MJET

GUARD LIGHT ALLOY
Screw gate HMS carabiner with catch free closure.

Type: H / B
Length: 120 mm
Width: 76 mm
Weight: 86 g
Major axis strength: 24 kN
Minor axis strength: 8 kN
Open strength: 8 kN
Norm: CE EN 12275 / 362 - UIAA
Code: MGUARD

GUARD 3 LIGHT ALLOY
Triple action opening HMS carabiner with catch free closure.

Type: H / B
Length: 120 mm
Width: 76 mm
Weight: 100 g
Major axis strength: 24 kN
Minor axis strength: 8 kN
Open strength: 8 kN
Norm: CE EN 12275 / 362 - UIAA
Code: MGUARD3

Z500 STEEL
Large capacity steel carabiner – screw gate

Type: B
Length: 115 mm
Width: 73 mm
Weight: 251 g
Major axis strength: 52 kN
Minor axis strength: 16 kN
Open strength: 18 kN
Norm: EN 362
Code: MZ500

Z503 STEEL
Large capacity steel carabiner – triple action gate

Type: B
Length: 115 mm
Width: 73 mm
Weight: 270 g
Major axis strength: 52 kN
Minor axis strength: 16 kN
Open strength: 18 kN
Norm: EN 362
Code: MZ503
**GUARD O** LIGHT ALLOY
Screw gate oval carabiner with catch free closure.

- **Type:** X / B
- **Length:** 110 mm
- **Width:** 61 mm
- **Weight:** 74 g
- **Major axis strength:** 21 kN
- **Minor axis strength:** 8 kN
- **Open strength:** 8 kN
- **Norm:** CE EN 12275 / 362 - UIAA
- **Code:** MGARDO

**Z101 STEEL**
Steel carabiner – screw gate

- **Type:** B
- **Length:** 107 mm
- **Width:** 57 mm
- **Weight:** 179 g
- **Major axis strength:** 30 kN
- **Minor axis strength:** 8 kN
- **Open strength:** 8 kN
- **Norm:** EN 362
- **Code:** MZ101

**Z102 STEEL**
Steel carabiner – twist gate

- **Type:** B
- **Length:** 107 mm
- **Width:** 57 mm
- **Weight:** 197 g
- **Major axis strength:** 30 kN
- **Minor axis strength:** 8 kN
- **Open strength:** 8 kN
- **Norm:** EN 362
- **Code:** MZ102

**GUARD O** LIGHT ALLOY
Screw gate oval carabiner with catch free closure, its triple action opening increases security, its symetrical shape helps to keep components of a system aligned.

- **Type:** X / B
- **Length:** 110 mm
- **Width:** 61 mm
- **Weight:** 81 g
- **Major axis strength:** 22 kN
- **Minor axis strength:** 8 kN
- **Open strength:** 8 kN
- **Norm:** CE EN 12275 / 362 - UIAA
- **Code:** MO3

**Z103 STEEL**
Steel carabiner – triple action gate

- **Type:** B
- **Length:** 107 mm
- **Width:** 57 mm
- **Weight:** 198 g
- **Major axis strength:** 30 kN
- **Minor axis strength:** 8 kN
- **Open strength:** 8 kN
- **Norm:** EN 362
- **Code:** MZ103
MAILLON OVAL 8 STEEL - ZINC PLATED OR BLACK
The original oval shape was developed on the principle of a chain link fitted with manual nut opening. This shape reflects the spirit of Maillon Rapide quick links connectors.

Type: Q
Length: 77 mm
Width: 33.5 mm
Opening: 11 mm
Weight: 77 g
Breaking strength: 35 kN
Working Load Limit: 7 kN
Norm: CE - EN362 - EN12275
Code: MPEGO.08 - MPEGO.08B

MAILLON OVAL 10 STEEL - ZINC PLATED OR BLACK
The original oval shape was developed on the principle of a chain link fitted with manual nut opening. This shape reflects the spirit of Maillon Rapide quick links connectors.

Type: Q
Length: 89
Width: 40.5 mm
Opening: 12 mm
Weight: 137 g
Breaking strength: 55 kN
Working Load Limit: 11 kN
Norm: CE - EN362 - EN12275
Code: MPEG.10 - MPEG.10B

MAILLON DELTA 8 STEEL - ZINC PLATED OR BLACK
Delta shape: developed after the ever-increasing development of webbing-fitted systems; perfect for webbing uphold onto its lower flat part.

Type: Q
Length: 56
Width: 75 mm
Opening: 10 mm
Weight: 88 g
Breaking strength: 27 kN
Working Load Limit: 5 kN
Norm: CE - EN362 - EN12275
Code: MPEGD.08 - MPEGD.08B

MAILLON DELTA 10 STEEL - ZINC PLATED OR BLACK
Delta shape: developed after the ever-increasing development of webbing-fitted systems; perfect for webbing uphold onto its lower flat part.

Type: Q
Length: 87 mm
Width: 66 mm
Opening: 12 mm
Weight: 153 g
Breaking strength: 45 kN
Working Load Limit: 9 kN
Norm: CE - EN362 - EN12275
Code: MPEGD.10 - MPEGD.10B
MAILLON HALF MOON 10  STEEL - ZINC PLATED OR BLACK
Half moon shape: suitable for the junction of 2 connecting points on a harness.

- Type: Q
- Length: 86mm
- Width: 66mm
- Opening: 10mm
- Weight: 153 g
- Breaking strength: 45 kN
- Working Load Limit: 9 kN
- Norm: CE - EN362 - EN12275
- Code: MPEGHM.10 - MPEGHM.10B

MAILLON OVAL 8 INOX  STAINLESS STEEL SS316
The original oval shape was developed on the principle of a chain link fitted with manual nut opening. This shape reflects the spirit of Maillon Rapide quick links connectors.

- Type: Q
- Length: 33.5 mm
- Width: 74 mm
- Weight: 79 g
- Opening: 11mm
- Breaking strength: 55 kN
- Working Load Limit: 11 kN
- Norm: CE - EN362 - EN12275
- Code: MPEGO.08S

MAILLON DELTA 8 INOX  STAINLESS STEEL SS316
Delta shape: developed after the ever-increasing development of webbing-fitted systems; perfect for webbing uphold onto its lower flat part.

- Type: ?
- Length: 56
- Width: 73mm
- Opening: 10mm
- Weight: 88 g
- Breaking strength: 35 kN
- Working Load Limit: 7 kN
- Norm: CE
- Code: MPEGD.08S

MAILLON DELTA 10 INOX  STAINLESS STEEL SS316
Delta shape: developed after the ever-increasing development of webbing-fitted systems; perfect for webbing uphold onto its lower flat part.

- Type: ?
- Length: 87mm
- Width: 66mm
- Opening: 12mm
- Weight: 156 g
- Breaking strength: 60 kN
- Working Load Limit: 12 kN
- Norm: CE
- Code: MPEGD.10S

MAILLON OVAL 10 INOX  STAINLESS STEEL SS316
The original oval shape was developed on the principle of a chain link fitted with manual nut opening. This shape reflects the spirit of Maillon Rapide quick links connectors.

- Type: Q
- Length: 89
- Width: 40.5mm
- Weight: 141 g
- Opening: 12mm
- Breaking strength: 90 kN
- Working Load Limit: 18 kN
- Norm: CE - EN362 - EN12275
- Code: MPEGO.10S
TRAFIC 111 LIGHT ALLOY
TRAFIC 111 is a compact mobile plate single pulley (brass bearing) designed for ropes up to 11mm.

- Maximum breaking strength: 20 kN
- Weight: 120 g
- Norm: CE EN 12278 - UIAA
- Code: MP111

TRAFIC 116 LIGHT ALLOY
TRAFIC 116 is a mobile plate single pulley designed for hauling systems and heavy loads (brass bearing), it accepts ropes up to 16mm.

- Maximum breaking strength: 30 kN
- Weight: 245 g
- Norm: CE EN 12278 - UIAA
- Code: MP116

TRAFIC 216 LIGHT ALLOY
TRAFIC 216 is a mobile plate double pulley designed for hauling systems and heavy loads (brass bearings), it accepts ropes up to 16mm. Equiped with a bottom becket to create complex systems.

- Maximum breaking strength: 30 kN
- Weight: 415 g
- Norm: CE EN 12278 - UIAA
- Code: MP216

TRAFIC 116R LIGHT ALLOY
TRAFIC 116R is a mobile plate single pulley designed for hauling systems requiring a high efficiency (ball bearing), it accepts ropes up to 16mm.

- Maximum Breaking Strength: 30kN
- Working Load Limit: 2 x 2.5kN = 5kN
- Weight: 280 g
- Efficiency: 95%
- Norm: CE - EN 12278 - UIAA
- Code: MP116R

TRAFIC 216R LIGHT ALLOY
TRAFIC 216R is a mobile plate double pulley designed for hauling systems requiring a high efficiency (ball bearings), it accepts ropes up to 16mm. Equiped with a bottom becket to create complex systems.

- Maximum Breaking Strength: 30kN
- Weight: 500 g
- Efficiency: 95%
- Norm: CE - EN 12278 - UIAA
- Code: MP216R

ROLLER 213 R LIGHT ALLOY
Fixed side plate double pulley equiped with sealed ball bearings for high efficiency, to use on rope with max. diameter 15mm and metallic cable with max. diameter 12mm.

- Breaking strength: 25 kN
- Weight: 290 g
- Norm: CE EN 12278 - UIAA
- Code: MP213R
**HERTZ XS LIGHT ALLOY**
The HERTZ XS rigging plate is very small and light (42 g). The smooth design will not damage textile slings. Equipped with one main connection point and three 15 mm additional holes, it’s mostly dedicated to difficult situations with limited space.

- Height: 61 mm
- Width: 62 mm
- Weight: 42 g
- Maximum Strength: 36 kN
- Working Load Limit: 7 kN
- Norm: CE
- Code: MHERTZ.XS

**HERTZ S LIGHT ALLOY**
The HERTZ S rigging plate has a smooth design ideal for textile slings. Equipped with one main connection point and three 20 mm additional holes, it can receive industrial connectors with big nuts such as triple action gate.

- Height: 81 mm
- Width: 83 mm
- Weight: 92 g
- Maximum Breaking Strength: 45 kN
- Working Load Limit: 9 kN
- Norm: CE
- Code: MHERTZ.S

**HERTZ M LIGHT ALLOY**
The HERTZ M rigging plate has a smooth design ideal for textile slings. Equipped with one main connection point and seven 20 mm additional holes, it can receive industrial connectors with big nuts such as triple action gate. It’s a perfect compact device for complex rigging situations.

- Height: 172 mm
- Width: 83 mm
- Weight: 188 g
- Maximum Breaking Strength: 45 kN
- Working Load Limit: 9 kN
- Norm: CE
- Code: MHERTZ.M
PATROL  LIGHT ALLOY
Descender with double locking and anti-panic system. Self-breaking in case of loss of descent control. Sensitive handle enables smooth descent. Also suitable for works at a height and for emergency self-evacuation. Rope can be inserted into device without unclipping it.

Norm:   EN 341   Ø rope 11 mm
EN 12841-C Ø rope 10 - 12 mm, Max. 200 kg
Ø rope 9 mm, Max. 130 kg

Weight:  340 g
Code:  MPATROL

D8  LIGHT ALLOY
Figure of eight belay and abseil device, its curved shape offers a choice between low or quicker descent, some ears help the cooling and allow to realise a locking key.

Height:  108 mm
Width:  80 mm
Weight:  92 g
Breaking strength:  25 kN
Code:  MD8

S8  LIGHT ALLOY
Versatile medium size figure of eight belay device.

Height:  132 mm
Width:  74 mm
Weight:  102 g
Breaking strength:  25 kN
Code:  MS8

SWIVEL  LIGHT ALLOY
Swivel avoids twisting in a lanyard or rope system.

Norm:  CE EN 354
Length:  115 mm
Width:  55 mm
Breaking strength:  30 kN
Weight:  162 g
Code:  MSW

SWIVEL SWR  LIGHT ALLOY
Compact and light forged Aluminium eye to eye swivel with ball bearings, for smooth rotation even under load. Accepts 2 carabiners in each eye.

Norm:  CE EN354
Length:  83 mm
Width:  39 mm
Breaking strength:  22 kN
Working Load Limit:  4 kN
Weight:  88 g
Code:  MSWR
SWING LANYARD
The SWING-LANYARD has two attachment points (20 & 40cm) and is certified to work with the Edelweiss SWING mobile fall arrest device, enabling it to be positioned away from the operator. It allows the operator to create a short or longer link dependent on their needs:

- Short link for work on a gentle slope or to limit the length of a fall (20 cm).
- Longer link to distance the rope from the operator and to gain freedom of movement (40 cm).

Strong points:
- Includes two restrainers to ensure the correct orientation of the connector at its extremity.
- Marked with a unique serial number.
- To be connected with our O3 (p 23)

Norm: EN354
Breaking strength: 22kN
Length: 20/40cm
Weight: 64g
Code: LSWI

SWING
SWING is a mobile fall arrester with smooth rope friendly cams, designed to be used as the main fall arrest device or as a rope access back-up device, it can be placed or removed of the rope at any point, the cam allows to park the device on the rope. It can be associated with the SWING LANYARD length 20/40cm to work away from the rope and can be released when loaded. The use in Rescue situation is also possible.

Norm: CE EN 353-2
EN12841-A: Ø rope 11mm
RESCUE: Ø rope 11-13mm Max. 100kg
Weight: 165g
Code: MSWING
**AS16 HANDLE ASCENDER**

This handle for rope ascent takes advantage of a specific ergonomics allowing to position a hand on the top of the blocker and the other one in the wide handle, thus a drive at two hands is easy. The wide lower hole allows to connect simultaneously several carabiners whereas the upper hole allows to clip the rope to secure the crossings.

The full stainless steel mechanism insures a high durability.

- **Height:** 235mm
- **Width:** 110mm
- **Weight:** 240 g
- **Norm:** CE - EN 567 - EN 12841-B 100kg
- **Norm:** For ropes 8 - 13mm in EN 567
- **Norm:** For ropes 10 - 13mm in EN 12841-B
- **Body & cam:** Light alloy
- **Lever:** Stainless steel
- **Handle & protection:** Plastic
- **Code:** MAS16

---

**TB16 CHEST ASCENDER**

This very compact device is designed to fit perfectly our harness Hercules-Evo and as well all the fullbody harnesses with sternal Y straps construction. Its specific shape allows it not to turn on itself, thus improving the fluidity on the way up movement, the decreased position of the device improve the amplitude and efficiency of every movement.

The full stainless steel mechanism insures a high durability.

- **Height:** 82mm
- **Width:** 74mm
- **Weight:** 160 g
- **Norm:** CE - EN 567 - EN 12841-B 100kg
- **Norm:** For ropes 8 - 13mm in EN 567
- **Norm:** For ropes 10 - 13mm in EN 12841-B
- **Body & cam:** Light alloy
- **Lever:** Stainless steel
- **Protection:** Plastic
- **Code:** MTB16

---

**SLOOP**

SLOOP is a foot loop for rope ascent with handle or blocker. Adjustable in length (72-120cm) with fast tightening around the foot, the etrier is strengthened to preserve its opening and resist the abrasion. Also available with Maillon.

- **Length:** Adjustable length from 72 to 120 cm
- **Weight:** 70 g
- **Material:** Polyamide / Aluminium
- **Code:** LSLO
- **Code:** LSLO.M

---

**SLOOP**

SLOOP is a foot loop for rope ascent with handle or blocker. Adjustable in length (72-120cm) with fast tightening around the foot, the etrier is strengthened to preserve its opening and resist the abrasion. Also available with Maillon.

- **Length:** Adjustable length from 72 to 120 cm
- **Weight:** 70 g
- **Material:** Polyamide / Aluminium
- **Code:** LSLO
- **Code:** LSLO.M
WORKING SEAT & RESCUE

SEAT CLUB
Using large webbing straps for better stability and rigid sides the CLUB is a comfortable seat for long suspensions. Perfectly adjustable thanks to its automatic buckles, versatile with its 2 main lateral gear loops and 1 loop at the bottom; the CLUB is an essential product for rope workers. Also available in full black.

- Seat surface: 42 x 15 cm
- Overall length: 54 cm
- Width: 15 cm
- Weight: 1200 g
- Material loops: Hold 20 kg max.
- Code: Black/red: HSEL.1
- Code: Full black: HSEL.2

DELTA RESCUE
Vertical rescue harness equipped with shoulder straps, big textile attachment points and a back handle.

- Norm: CE EN 1497, EN 1498
- Size: Uni
- Code: HR.DELT
HERCULES EVO FULL BODY

- Padded and ergonomic shoulder straps to reduce chafing.
- Narrow padding of shoulders.
- Special loops for your extra equipment.
- Loops
- Upper front attachment point EN361.
- Chest ascender fixation system
- Quadro Junction trapezoid carabiner
- Extra-protected point even for additional connector or PPE gear. Increases comfort during abseiling.
- Lateral point EN 358 at GO position.
- The lower front attachment point EN 813 distributes the weight more evenly between the waistbelt and the leg loops. Excellent movement is granted.
- Elastic straps for your free movement.
- New modern padding, designed for all professionals. Allows grate movement and support.
- Slim strap with well-done made padding. As yours experiences requires.
HERCULES EVO FULL BODY
Combination of sit and shoulders

Norm: CE - EN 813, EN 358, EN 361
S: Height: 155-175cm   Waist: 70-90cm   Legs: 55-65cm
M-L: Height: 170-185cm   Waist: 80-105cm   Legs: 55-65cm
XL: Height: 180-210cm   Waist: 90-130cm   Legs: 60-75cm
Code: HEREVO.FUL

QUADRO JUNCTION
Catch free nose trapezoid carabiner with automatic closure, its double action opening increases security, its specific shape is designed to perfectly connect webbing systems, such as sit and chest harnesses, i.e. our Hercules EVO.

Type: B
Length: 85mm
Width: 70mm
Opening: 15mm
Weight: 80 g
Major axis strength: 20 kN
Minor axis strength: 10 kN
Open gate strength: 5 kN
Material: Light Alloy
Norm: CE - EN362
Code: MQUAD / MQUAD.M

HERCULES EVO SIT
Sit harness made from highly resistant materials. Padding is reinforced with a polyethylene plate. 2 revolving side attachment points at 180° according to the EN 358 standard. Formed and braided gear loops supporting lots for your equipment with a guaranteed capacity of 10kg.
• Additional loops with a guaranteed capacity of 5kg.
• Streak reflex at waist belt
• Textile loop for the EN 813 standard attachment point is extra protected.
• 4 adjustment buckles.
• Easy to combine with Hercules Evo shoulders.

Norm: CE - EN 813, EN 358
S: Height: 155-175cm   Waist: 70-90cm   Legs: 55-65cm
M-L: Height: 170-185cm   Waist: 80-105cm   Legs: 55-65cm
XL: Height: 180-210cm   Waist: 90-130cm   Legs: 60-75cm
Code: HEREVO.SIT
HERCULES ACTION FULL + QUADRO

Full body harness for high access work. Great comfort, weight and price ratio. Front and dorsal attachment point. Three positioning rings, two gear loops, and four “D” accessory rings. The front textile loop attachment point (EN 813 & 358 standard) is extra protected and also has a ring. Black or green foliage colored harness for total discretion. Full harness made from highly resistant materials, equipped with 3 COBRA (TM) quick release buckles to guarantee a perfect security even under load, anatomic shoulders, front and back fall arrest attachment points (EN 361 standard) made of high tensile steel. The padding is reinforced with a polyethylene plate, 2 revolving side attachment points at 180° (EN 358 standard). Formed and braided gear loops supporting lots for your equipment with a guaranteed capacity of 10kg, additional loops with a guaranteed capacity of 5kg.

Norm: CE EN 358-813-361
S: Height: 155-175cm   Waist: 70-90cm   Legs: 55-65cm
M-L: Height: 170-185cm   Waist: 80-105cm   Legs: 55-65cm
XL: Height: 180-210cm   Waist: 90-130cm   Legs: 60-75cm
Weight: 1450 g / M-L
Code: HER.AK.FULQ   Black
Code: HER.AK.FULQ.GRF   Green Foliage

HERCULES ACTION SIT

Sit harness made from highly resistant materials. Padding is reinforced with a polyethylene plate. 2 revolving side attachment points at 180° according to the EN 358 standard. Formed and braided gear loops supporting lots for your equipment with a guaranteed capacity of 10kg. Additional loops with a guaranteed capacity of 5kg. Textile loop for the EN 813 standard attachment point is extra protected. Black colored harness for total discretion. Equipped with 4 COBRA (TM) quick release buckles to guarantee a perfect security even under load.

Norm: CE - EN 813, EN 358
S: Height: 155-175cm   Waist: 70-90cm   Legs: 55-65cm
M-L: Height: 170-185cm   Waist: 80-105cm   Legs: 55-65cm
XL: Height: 180-210cm   Waist: 90-130cm   Legs: 60-75cm
Code: HER.AK.SIT
**VULCAIN JACK**

Fall arrest harness with front and back attachment point, designed to be super simple to wear, very light it offers a great ability in movement. The removable and breathable jacket increases the comfort particularly in the shoulders area.

- **Norm:** CE EN361
- **Sizes:** Universal S-XL for users from 155 to 200cm
- **Weight:** 1065g
- **Code:** HVUL.J

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**VULCAIN**

Fall arrest harness with front and back attachment point, designed to be super simple to wear, very light it offers a great ability in movement.

- **Norm:** CE EN361
- **Sizes:** Universal S-XL for users from 155 to 200cm
- **Weight:** 780g
- **Code:** HVUL
VULCAIN ELECTRO
With dielectric buckles and D-ring this fall arrest harness (front and back attachment points) is designed to work in electric risks environment, super simple to wear, very light it offers a great ability in movement. Safety in environments where there is risk of electric discharge.

Very lightweight harness
Easy to put on
Dorsal and frontal link points
Dielectric dorsal ring
Especially recommended for electricians and work performed in environments where there is a risk of electric discharge.

Norm: CE - EN 361
Size: Universal S-XL for users from 155 to 200 cm
Weight: 1065 g
Code: HVUL.EL

ABSORB ELECTRO
With dielectric connectors ABSORB-ELECTRO is a fall arrest double lanyard designed to work in electric risks environment. Both ends have stitched eyes with plastic covers.

Norm: CE - EN 355
Length: 100/100 cm
Code: SHAB-VEL
**ESCAPE 3**
One size fits all fully adjustable harness with auto locking buckles. 2 gear loops, a single well identified tying in point. Versatile and comfortable thanks to its padding, it is suitable for any vertical activity, from beginners to more sustained use.

- **Norm:** CE EN 12277 - UIAA
- **Type:** C
- **Waist:** 55 - 110 cm
- **Legs:** 40 - 70 cm
- **Weight:** 415 g
- **Code:** HESC3

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**MYGALE 2**
Adjustable unpadded harness with three auto locking buckles and two sliding gear loops. A single visible attachment point. Ideal for via ferrata and activity centres.

- **Norm:** CE EN12277 - UIAA
- **Type:** C
- **Size:** Universal
- **Waist:** max. 120cm
- **Legs:** max. 80cm
- **Weight:** 400 g
- **Code:** HMY2
CHALLENGE chest
Completely adjustable chest harness with compact construction. Developed for use with our Challenge sit harness. Raises safety margin in falls. Can be used with any sit harness.

Norm: CE EN 12277 - UIAA
Type: D
Material: Polyamid
Code: HCT

CHALLENGE sit
Adjustable unpadded harness with three auto locking buckles and two sliding gear loops. A single visible attachment point, closing of the waist on the right side, for easy checking by the instructor in rope courses. Ideal for via ferrata and activity centres.

Norm: CE EN 12277 - UIAA
Type: C
Size: XS-L  XL
Waist: 60-102cm  60-117cm
Legs: 75 cm max.  90 cm max.
Weight: 400g  450 g
Code: HCC.3
Removable and washable comfort padding.

Wheel adjuster

Safety buckle to release the strap over 25 daN

ARROW work helmet

Norm:  CE - EN 397
Plus optional requirements of the standard for use in low temperatures (-20°C), lateral deformation and molten metal spray.

Size:  Wheel adjuster for a perfect fit from 54 to 62 cm
Weight:  390 g
Material:  ABS shell + internal EPS pad
Code:  KARROW

Work helmet designed with a durable ABS injection molded shell and EPS inner pad, comfortable with its suspended harness, size-fitting via wheel adjuster. Side slots for ear protectors. Headlamp clips to secure your lighting. A releasing system insures the chin strap’s strength is less than 25daN. Closure with automatic buckle. Removable and washable comfort padding. Meets the optional requirements of the EN 397 standard for use in very low temperature (-20°C), lateral deformation and molten metal spray.
VERTIGE

The VERTIGE is a robust helmet with an ABS outer shell, designed for intensive use in a group environment such as on high ropes courses. The inner liner is suspended and easily adjustable with a strong and simple buckle. The helmet is designed to be durable and easy to wash. Neither the foam nor plastic parts affect the helmet’s robustness. Ventilated by 10 large vents and also equipped with headlamp clips to secure your lighting.

Norm:  CE - EN 12492
Size:  54 - 62 cm
Weight:  380 g
Material:  ABS shell
Code:  KVER
VITAL II
Hybrid helmet design with a durable ABS injection molded shell and EPS inner foam to spread the impact force, comfortable and ventilated by 10 large vents. Size-fitting via wheel adjuster. Headlamp clips to secure your lighting. The chin strap’s strength is more than 50daN to ensure the helmet remains secured during an impact. The 2016 model has a closure by innovative magnetic buckle, super easy to handle even with gloves. Removable and washable comfort padding.

Norm: CE EN 12492
Size: 51 > 62cm
Weight: 435 g
Material: ABS shell + Expanded Polystyrene liner
Code: KVIT2
**ROPE PROTECTOR**
Reinforced PVC rope protection with extremely high abrasion resistance to prevent rope damages when the rope is installed on an edge rock or potentially hazardous surface. Opens and attaches easily.

- **Lengths:** 70cm, 90cm, 120cm
- **Material:** Polyamid / PVC
- **Weight:** 110g - 135g - 175g
- **Code:** TEX.70, TEX.90, TEX.120

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**ROPE CLEANER**
A none-aggressive detergent developed for easy cleaning of polyamide products / ropes or harnesses. However the water temperature used should be less than 30 Celsius.

- **Code:** D.ROCLEAN

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**ROPE BRUSH**
Our own development for cleaning ropes after action. The brush adapts easy to different rope diameters. Fix the brush on the rope, then slide the brush along the rope while holding the rope under water.

- **Code:** D.ROBRUSH

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**THERMO CUTTER**
This Thermocutter features an electrically heated blade designed for cutting all ropes easily and effortlessly. Heats up instantly.

- **Code:** D.THCUT
PERFECT
Hybrid gloves with leather palm reinforcement and breathable stretch fabric on the fingers back for better comfort.

Norm: CE EN388
Sizes: S-M-L
Material: 70% cowhide leather, 15% cow suede leather and 15% nylon stretch fabric
Code: GL01

D90 DUFFLE BAG
Rugged construction tarpaulin duffle bag. Large 90 liters capacity with big identification window, pocket on top and internal mesh pockets. Also equipped with four compression straps, haul handles on ends and removable shoulder straps. This bag is designed for long distance trip all over the world.

Size: 90 liters
Weight: 2100 g
Material: Mainly PVC
Code: SAC D90

T 45 BAG
Heavy duty 45l transport bag made of strong PVC with welded construction. This bag features a reinforced base with 3 base holes to let out water, 2 comfortable shoulder straps and fast opening with adjustable cord closure. Ergonomically shaped, adjustable shoulder straps. Strong side handle for easy transport. External hanging loop / handle. One zippered pocket under the cover and one front zippered pocket.

Size: 45 liters
Weight: 1250g
Material: Mainly PVC
Code: SAC T45
The data given in this catalogue are guidelines for assessing the quality of our products. More detailed specifications currently applicable are available on request. We reserve the right to make changes called for by technical development as well as changes in colour. Printed- and typesetting errors reserved.

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