# 3.
# Height Safety Products & systems

# Safety at height

Worker safety and ergonomic working conditions are the two key topics to consider when planning work at height.

## Collective protection

If working at height cannot be avoided, the installation of collective protection measures such as guard rails should be considered in the first instance. How to safely enter, exit and move around the area with collective protection are points that should be taken into consideration. All measures must be taken to prevent the performance of a particular job from leading to the temporary removal of collective protection equipment. In some instances the installation of temporary collective protection is also a good solution.



## Using fall protection PPE

If it is impossible to use collective protection to protect against falls from height, PPE can be used to ensure worker safety. Before any height safety PPE is used, a fall protection plan should be created.

A fall protection plan is a safety plan for workers who will be at elevated work areas. Having a detailed fall protection plan is essential to ensure the highest degree of worker safety. The plan aims to provide a safe working environment and to manage the use of fall protection measures, techniques and equipment.



The following 7 topics should always be addressed in your fall protection plan:

- Assess all fall hazards in the work area
- The fall protection applications employees will be conducting in and the equipment they will need to work safely
- Correct procedures for assembly, use, inspection, maintenance and disassembly of fall protection systems used
- Correct procedures for handling, storage and securing of tools and materials
- Training required for the workers working on the jobsite
- The fall protection plan must be job and site specific
- The fall protection plan must be available to all workers

# EN Standards

## HARNESSES

**EN361:** Personal protective equipment against falls from height. Harness belts for work restraint and fall arrest.

**EN358:** Personal protective equipment for work positioning and prevention of falls from a height. Belts for work positioning and restraint and work positioning lanyards. Normally encompassing side 'D' rings on the waist belt, this allows the user to incorporate a work positioning belt.

**EN813:** Personal protective equipment against falls from height. Work seats. The seat belt **EN813** can be incorporated on the harness **EN361.** These harnesses have a padded seat and are suitable for working in full suspension. This includes rope access and activities such as window cleaning. It allows greater comfort for the user and has an attachment point for attaching a descender.

**EN1497:** Rescue harness, dedicated to the design and test of the rescue features in a harness. **EN1497** can be incorporated on the harness **EN361.**

## LANYARDS

**EN354:** Personal protective equipment against falls from height. Lanyards. These can be made from webbing or rope and are suitable for work restraint.

**EN355:** Personal protective equipment against falls from height. Shock absorbers. These lanyards have a shock absorber and are suitable for fall arrest and work restraint. The maximum length of the lanyard is 2m.

## CONNECTORS

**EN362:** Personal protective equipment against falls from height. Connectors. These include connectors like karabiners, scaffold hooks and duel action hooks. They are used for connecting to anchor points and structures.

## ANCHOR POINTS

**EN795:** fall arrest anchorage point permitting connection to the structure. Two types:

**1. PPE anchorage**: is transportable anchorage not permanently fixed to the structure.

**type (B):** Temporary anchor points, **type (E):** Dead-weight anchors

**2. NOT PPE anchorage**: permanently fixed to the structure

**type (A):** Permanent anchoring, **type (C):** Permanent lanyard systems, **type (D):** Horizontal rail systems

## FALL ARREST/CONTROLLED RATE DESCENDERS/ROPE GRABS

**EN360:** Personal protective equipment against falls from heht. Automatic Fall arresters with retractable lanyards These blocks can be made from webbing or steel wire rope and, depending on the model, can be used in horizontal or vertical applications.

**EN341:** Evacuator from height. Descender devices for rescue. These controlled rate descenders can be used to lower a casualty or for self rescue from height. These can be equipped with a rescue winch **EN1496**

**EN1496:** Rescue winch / Rescue lifting devices. These devices can be used to raise a casualty back to the anchor point in the event of an emergency. They are often used as a secondary device

**EN353-1:** Personal protective equipment against falls from height. Guided type fall arresters including a rigid anchor line. These are permanently installed systems that can be either wire rope or rail. They include a traveller that will allow the user to ascend and descend. This mechanism will lock off in the event of a fall.

**EN567:** This standard covers mountaineering equipment such as those used in rope access. It includes rope clamp and ascenders.

## RIGID & VERTICAL FALL ARREST

**EN353-2:** Personal protective equipment against falls from height. Guided type fall arresters including a flexible anchor line. These are temporary installed systems. Depending on the model, they can be used vertically or horizontally and for work restraint or fall arrest.

## HELMETS

**EN397:** Industrial safety helmets. Head protection suitable for construction site use.

## ADDITIONAL TECHNICAL SPECIFICATIONS

CNB/P/11.060 (horizontal use for the blocfor™ range)
CNB/P/11.062 (use with more than 100 kg user weight )
CNB/P/11.074 horizontal use for the lanyards range)
CNB/P/11.075 (horizontal use for the stopfor™ range)
CNP/P/11.085 (Retractable fall arrest device, Fall Factor 2)

## COLLECTIVE PROTECTION

**EN13374-A:** Temporary edge protection systems. temporary guardrail. It specifies the requirements and test methods for temporary edge protection systems for use during construction or maintenance of buildings and other structures.

**EN14122-4:** Safety of machinery — Permanent means of access to machinery. It gives requirements for non-powered guardrails which are a part of a stationary machine, and to the non-powered adjustable parts (e.g. foldable, slidable) and movable parts of those fixed means of access.

# Norms

Before choosing fall protection, it is important to look at the environment and the situation in which you work. Each situation requires a specific approach, as well as appropriate equipment.
**European standards** recognize 5 types of fall protection.

## Fall arrest

A fall arrest system prevents the user from falling to the ground in the case of a free fall. Its role is to arrest a fall safely by limiting the force of shock suffered by the user. It must be used with enough space that is free from obstacles, allowing the free fall (fall clearance).

**EQUIPMENT REQUIRED**

- Anchoring (EN 795)
- Harness (EN 361)
- Fall arrester (EN 355, EN 353-2, EN 360)
- Safety helmet (EN 397)

## Working while suspended (rope access work)

A suspension work system allows a user to move on a rope when they are no longer in contact with a structure. The user moves in suspension, using a safety harness equipped with an umbilical attachment point, to which a vertical displacement system is connected.

**This device is not intended to stop a fall and must be used in conjunction to a fall arrest system.**

**EQUIPMENT REQUIRED**

- Anchoring (EN 795-A, B, D)
- Harness (EN 361, EN 358, EN 813)
- Fall arrester (EN 360, EN 353-2)
- Ascender (EN 567)
- Descender (EN 341)
- Safety helmet (EN 397)

## Work restraint

A restraint system allows delimitation of a workspace, preventing the worker from entering an area which has a risk of falling.

**This type of device is not intended to stop a fall from height.**

**EQUIPMENT REQUIRED**

- Anchoring (EN 795)
- Harness or safety belt (EN 361, EN 358)
- Lanyard (EN 354)
- Adjustable lanyard (EN 358)
- Safety helmet (EN 397)

## Rescue

A rescue system can evacuate a user on a vertical axis from top to bottom or from bottom to top. The use must be assessed before each intervention and the rescue system should be adapted to the site. Staff must be trained in its use.

**EQUIPMENT REQUIRED**

- Anchoring (EN 795)
- Harness (EN 361, EN 1497)
- Rescue or evacuation equipment (EN 341, EN 1496)
- Safety helmet (EN 397)

## Work positioning

A work positioning system secures the operator at the place of work.

It consists of a work positioning belt and an adjustable lanyard. This system lets the operator make precise positional adjustments at the place of work while keeping both of his or her hands free to perform the task.

**The purpose of this device is not to arrest a fall, it must be used in conjunction with a fall arrest system.**

**EQUIPMENT REQUIRED**

- Anchoring (EN 795)
- Work positioning harness and belt (EN 361, EN 358)
- Work positioning lanyard (EN 358)
- Safety helmet (EN 397)

# Tractel's fall arrest equipment specifications

High capacity range 150 kg and use of fall arrest equipment on sharp edges
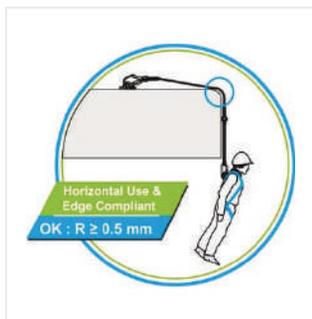
**Tractel** is one of the first manufacturers to develop a complete range of fall arrest systems with a capacity greater than 100 kg, compliant with the EC requirements.

This range, including anchoring systems, connectors, fall arresters, automatic fall arresters, sliding fall arresters, harnesses, belts, and thigh straps, is tested according to European specifications:

- PPE-R/11.062 (for use above 100 kg)
- PPE-R/11.060 – 074 – 075 (for horizontal use / EDGE compliant)

This range is tested to stop the fall of an operator weighing 150 kg (this figure includes the weight of a person and their equipment) and allows employees to work safely at height, both vertically and horizontally, and in roof / edge applications.

In order to provide protection for the user up to the maximum allowed weight, the entire security line (anchorage – fall arrester – harness) must be HIGH CAPACITY RANGE 150 KG.

***Attention:*** *the weakest element in the chain always determines the maximum resistance for the entire system.*

**Use of the Tractel® fall arrest equipment on sharp edges:**

Tractel fall protection PPE is intended for working at height, where there is a risk of falling vertically, as well as for working at height on a horizontal surface, where there is a risk of falling over a sharp edge (roof terrace use.)

Therefore, our ranges blocfor™*, stopfor™* and lanyards* are certified according to the sheets:

- **PPE-R/11.060** (for the blocfor range)
- **PPE-R/11.074** ((for the lanyards range)
- **PPE-R/11.075** (for the stopfor range)

Tractel products are tested to stop the fall of a person, including safety equipment and tools, weighing up to 150 kg.

# Harness series

## Specialist series
**Designed to meet specific job requirements and extended use - EN358 / EN361 / EN813**



| HT Promast | HT Secours | HT Transport | HT Greentool | HT Electra | HT Easyclimb | HT 55 A CS | HT ladytrac |

## Expert series
**Generalist harnesses designed for daily use – EN361**



| HT56 | HT55 | HT120 | HT46 | HT45 | HT45 with jacket | HT44 |

## Pro series
**Designed for regular use – EN361**



| HT34 | HT43 | HT42 | HT22 | HT22 with jacket |

## Essential series
**Designed for occasional use - EN361**



HT21                    HT11

# Harness series

## Specialist series

### EN 358 / EN 361 / EN 813

Harnesses dedicated to specialized activities, where comfort must be optimal: range dedicated to long-term use and which require a complementary fall arrest system such as work positioning, or work in suspension.

**NEW**

| HT Access | HT Secours | HT Promast | HT Transport | HT Greentool | HT Electra | HT Easyclimb | HT55 CS | HT ladytrac |
|---|---|---|---|---|---|---|---|---|

## Expert series

### EN 361

Versatile, high-comfort harnesses for long-term work at height: quick fitting range, dedicated to long-term use and/or for seeking optimum comfort.

| HT56 | HT55 | HT120 | HT46 | HT45 | HT45 with jacket | HT44 |
|---|---|---|---|---|---|---|

## Pro series

### EN 361

Multi-purpose harnesses for regular, short-term work at height: range of easy-to-use harnesses that meet a minimum of comfort.

| HT34 | HT43 | HT42 | HT22 | HT22 with jacket |
|---|---|---|---|---|

## Essential series

### EN 361

Harnesses designed for occasional, rare and short-term work at height.

| HT21 | HT11 |
|---|---|

# Specialist series

**NEW**

## HT Access
### EN 361 - EN 358 - EN 813

150 kg HIGH CAPACITY RANGE www.tractel.com

Suspended work

The HT Access is a versatile and comfortable safety harness. It is perfect for rope access, rescue or fall arrest applications. We designed the HT Access to be the day-to-day working tool for everyone working at height.

Working in comfort reduces fatigue and the HT Access has been designed to do just that. This has a positive impact on the efficiency of the work carried out.

**Comfort and Fit**
The HT Access was designed to maximise the user comfort. The belt and Y-pad are made with high-density foam to reduce fatigue during long working operations. The fabric on the inner lining reduces perspiration. We have also added padding on the belt, back pad and the leg straps.

The innovative design of the shoulder straps allows free movement of the shoulders. The left shoulder strap includes an adjustable automatic buckle to allow for easy adjustment and removal of the harness. The shoulder straps connect to the belt with a double safety connector.

A well-fitting harness is both comfortable and safe. We have made sure all that all straps that need to be adjusted are fitted with easy-to-use buckles. Please find more information about making sure your harness fits well here. Putting the HT Access on is easy and quick. Traditional safety harnesses are put on like a jacket, but with this harness you put it on like a pair of trousers.

The HT Access is available in sizes S / M / XL / XXL

**Connection points**
While working at height, users want clarity. The sternal and back fall arrest connection points are in grey and equipped with a fall indicator. The work positioning and the umbilical rope access connection points are in blue. All connection points are made from aluminium and have a 65 mm diameter to increase the safety and comfort.

The wide umbilical connection point can easily be used with multiple rope access accessories.

When the work positioning connection points are not required, they can be folded away.

The 4 semi-rigid loops on the belt can be used to connect tools.

**Online access to all important documents**
Like all Tractel fall-protection equipment, the HT Access is connected to our Tracinfo platform. By scanning a QR Code on the harness, you can access all important documentation specific to your harness. Tracinfo can also be used to store details of periodic inspections and to set automatic reminders for future inspections.

A wide range of accessories can be combined with the HT Access harness. Please refer to the rope access equipment section.

| | S | M | XL | XXL |
|---|---|---|---|---|
| HT Access | 86512 | 86522 | 86532 | 87012 |

| Comfort | |
|---|---|
| Frequency of use | |
| Integrated options | |

Semi-rigid loops on the belt

Shoulder adjustment and automatic buckle

Sternal connection point

Umbilical connection point

# Accessories for HT Access

## Work seat

For working in a seated position for a long period of time.
The rigid sides avoid thigh compression.
It is equipped with three tool holders.
It can be installed by the user.
This work seat is compatible with the HT Secours, HT Access, HT Promast and HT Transport.

| Model | Product Code |
|---|---|
| Work seat | 65762 |

## Sternal ascent rope clamp

This rope clamp completes the HT Access for rope access operation. Combined with the correct accessories, the user can do rope access activities using the Jumar technic.
It can be easliy installed on the harness by the user.
Certified for user up to 100kg.
This rope clamp is dedicated to the harness HT Access.

| Model | Product Code |
|---|---|
| Sternal ascent rope clamp for HT Access | 86552 |

## Ascender Grip

For ascent during rope access operation.
Self-locking handle for ropes with a diameter between 8 to 12mm.

| Model | Product Code |
|---|---|
| Ascent handled rope clamp | 65742 |

## Ascent foot clamp

For ascent during rope access operation.
Foot loop with adjustable strap.

| Model | Product Code |
|---|---|
| Ascender foot-loop | 40122 |

## LSF - jumar

Double webbing lanyard, 30 mm-wide strap made of polyester, without shock absorber.

The LSF Jumarlanyard is used for connecting rope acces accessories such as an ascent handle and a foot loop to the ombilical attachment point on the harness.

| Model | Product Code |
|---|---|
| LSF - Jumar | 65772 |

# Specialist series

## Harness HT Secours

### EN361 - EN358 - EN813

This harness offers considerable freedom of movement for rope access work. Designed for working in suspension.

- 1 dorsal with a big forged D anchorage to eliminate the risk of carabiner disconnection.
- 1 sternal anchorage.
- 1 umbilical suspension point textile loop.
- 2 lateral belt-attachment points.
- X-pad comfort back pad: Breathable and flexible - it gives the harness shape to make it easier to put on.
- Standard or Quick release buckles.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Fall indicator on each attachment point.
- High-comfort, mountaineering design leg straps (adjustable slider).

| | S | M | XL | XXL |
|---|---|---|---|---|
| HT Secours - Standard buckles | 66132 | 66142 | 66152 | - |
| HT Secours - Automatics buckles | 65882 | 65892 | 65902 | 80812 |

Comfort

Frequency of use

Integrated options

*Made in France*

## Harness HT Promast

### EN361 - EN358 - EN813

Harness for rope access work. Designed for working in a suspended position for long periods of time.

- 1 dorsal anchorage with a big forged D to eliminate the risk of carabiner disconnection.
- 1 sternal anchorage textile loop.
- 1 umbilical suspension point textile loop.
- 2 lateral belt-attachment points.
- X-pad comfort backrest: Breathable and flexible - it gives the harness shape to make it easier to put on.
- Quick-release buckles.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Fall indicator on each attachment point.
- High-comfort, mountaineering design leg straps

| | S | M | XL |
|---|---|---|---|
| HT Promast - Automatics buckles | 65242 | 65252 | 65262 |
| HT Promast - Automatics buckles with Elastrac™ | 65712 | 65722 | 65732 |

Comfort

Frequency of use

Integrated options

*Made in France*

# Specialist series

## Harness HT Transport

### EN361 - EN358 - EN813

Harness for working on pylons, ensuring easy climbing, staying in position on the job and designed for working in suspension.

- 1 dorsal with a big forged D anchorage to eliminate the risk of carabiner disconnection.
- 1 sternal anchorage textile loop.
- 1 umbilical suspension point textile loop.
- 2 lateral belt-attachment points.
- X-pad comfort back pad: Breathable and flexible - it gives the harness shape to make it easier to put on.
- Quick-release buckles.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Fall indicator on each attachment point.
- High-comfort, mountaineering design leg straps (adjustable slider).

| Comfort | |
| Frequency of use | |
| Integrated options | |

|  | S | M | XL | XXL |
|---|---|---|---|---|
| HT Transport - Boucles automatiques | 65942 | 65952 | 65962 | - |
| HT Transport - Boucles automatiques - Elastrac™ | 65972 | 65982 | 65992 | 80832 |

*Made in France*

## Work Seat

For working in a seated position for a long period of time.
The rigid sides avoid thigh compression.
It is equipped with three tool holders.
It can be installed by the user.
This work seat is compatible with the HT Secours, HT Access, HT Promast and HT Transport.

| Model | Product Code |
|---|---|
| Work seat | 65762 |

# Specialist series

## Harness HT Greentool

### EN358, EN361, EN813

Arborist harness for tree surgeons, equipped with an ergonomic work seat.

- 1 dorsal with a big forged D anchorage to eliminate the risk of carabiner disconnection.
- 1 sternal anchorage textile loop.
- 1 umbilical suspension point textile loop.
- 2 lateral belt-attachment points.
- X-pad comfort back pad: Breathable and flexible - it gives the harness shape to make it easier to put on.
- Quick-release buckles.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Fall indicator on each attachment point.
- High-comfort, mountaineering design leg straps (adjustable slider).

|  | S | M | XL | XXL |
|---|---|---|---|---|
| HT Greentool - Automatic buckles | 66002 | 66012 | 66022 | - |
| HT Greentool - Automatic buckles with Elastrac™ | 66032 | 66042 | 66052 | 80772 |

Comfort

Frequency of use

Integrated options

*Made in France*

## Harness HT Electra

### EN361 - EN358

Harness designed for working in the utilities industry. The HT Electra belt rotates inside the harness to allow for freedom of rotation when working on pylons.

- 1 dorsal with a big forged D anchorage to eliminate the risk of carabiner disconnection.
- 1 sternal anchorage textile loop.
- 2 lateral belt-attachment points.
- X-pad comfort back pad: Breathable and flexible - it gives the harness shape to make it easier to put on.
- Quick-release buckles.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Fall indicator on each attachment point.
- High-comfort, mountaineering design leg straps (adjustable slider).

|  | S | M | XL | XXL |
|---|---|---|---|---|
| HT Electra - Automatic buckles | 65272 | 65282 | 65292 | 76012 |
| HT Electra - Automatic buckles with Elastrac™ | 65912 | 65922 | 65932 | 80722 |

Comfort

Frequency of use

Integrated options

*Made in France*

# Specialist series

## Harness HT Easyclimb

### EN361 - EN358

Harness designed for climbing up and down ladders equipped with EN 353-1 fall arrester, rails or wire rope. Its unique sternal attachment point (Tractel patent), situated on the belt, makes ladder movement easy.

- 1 dorsal with a big forged D anchorage to eliminate the risk of carabiner disconnection.
- 2 thoracic forged D anchorages.
- 1 attachment point umbilical forged D (anti roll-back).
- 2 lateral belt-attachment points.
- X-pad comfort back pad: Breathable and flexible - it gives the harness shape to make it easier to put on.
- Quick-release buckles.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Fall indicator on each attachment point.
- High-comfort, mountaineering design leg straps (adjustable slider).

| | S | M | XL | XXL |
|---|---|---|---|---|
| HT Easyclimb - Automatic buckles | 66482 | 66492 | 66502 | - |
| HT Easyclimb - Automatic buckles with Elastrac™ | 66452 | 66462 | 66472 | 80712 |

*Made in France*

Comfort

Frequency of use

Integrated options

# Specialist series

## Harness HT55 Confined Space

### EN 361



The HT55 harness can be used for confined space. It is particularly suited for use with a respiratory system which slides easily onto the belt.

Enhanced comfort is ensured by the back XPad, the mountaineering-type thigh straps, and the linkage between the shoulder straps and thigh straps by connecting buckles.

The harness is very easy to slip on as it opens fully at the front with the X-Pad preserving the harness form.

- Universal and very comfortable harness, automatic with extra comfort for long periods of work
- 1 dorsal with a big forged D anchorage to eliminate the risk of carabiner disconnection
- 1 sternal anchorage
- 1 special belt for respiratory system
- 1 comfort sub-pelvic strap
- Sliders for strap adjustment. Cannot be removed for security reasons
- 3 adjustment points
- Independent mountain leg strap High-comfort
- X-pad comfort back pad: Breathable and flexible - it gives the harness shape to make it easier to put on.
- Fall indicator in each anchorage
- Label holder

| | S | M | XL |
|---|---|---|---|
| HT55 AE - Espace Confiné | 83902 | 83912 | 83922 |

*Made in France*

**Comfort**

**Frequency of use**

**Integrated options**

# Ladytrac harness

A harness designed for women, a Tractel patented design.

## EN361

At last, a harness designed for women:

- IPAF Innovation Award (International Powered Access Federation), Bauma 2010
- 1st Prize for Innovation, Expoprotection

A design adapted to the female form:

- The position of the straps are adapted to a woman's shape
- No friction on the upper body caused by the positioning of the straps
- The jacket fits the user's shape
- Comfort dedicated to women: light belt with elastic canvas

Increased safety in case of a fall:

- Much lower risks of lesions to the breast caused by contact with the straps in the advent of a fall
- The ladytrac patented concept ensures an ideal position of the straps on a woman's body
- Universal and very comfortable harness
- 1 dorsal forged D anchorage
- 3 Adjustment points
- Comfortable elastic jacket

In addition, the Ladytrac B version has:

- 2 belt attachment points (lateral)
- 4 Adjustment points

| | M | XL |
|---|---|---|
| HT ladytrac™ - Automatic Buckles | 55882 | 55892 |
| HT ladytrac™ B version - Automatic Buckles | 55282 | 55292 |

*Made in France*

Comfort

Frequency of use

Integrated options

# Expert series

## Harnesses HT56 and HT55

These harnesses are designed for a wide range of applications.

Enhanced comfort is ensured by the back X-Pad, the mountaineering-type thigh straps and the linkage between the shoulder straps and thigh straps by connecting buckles.

The harnesses are very easy to put on as it opens fully at the front with the X-Pad preserving the harness form.

- Universal and very confortable harness automatic with big confort for a long work.
- 1 dorsal with a big Forged D anchorage to eliminate the risk of carabiner disconnection & 1 sternal anchorage.
- 2 thoracic anchorage forged D for the HT56.
- 1 comfort subpelviene strap / 3 adjustment points.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Independent mountain leg strap High-comfort.
- X-pad comfort back pad: Breathable and flexible - it gives the harness shape to make it easier to put on.
- Fall indicator on each anchorage.
- Label holder: ideal to customise the harness with a name, logo, information, etc..

## Harness HT56

### EN361

| | S | M | XL | XXL |
|---|---|---|---|---|
| HT56 - Standards Buckles | 65302 | 65312 | 65322 | - |
| HT56 A - Automatics | 65332 | 65342 | 65352 | 80682 |
| HT56 A - Automatics - Elastrac™ | 65682 | 65692 | 65702 | 80692 |

Comfort

Frequency of use

Integrated options

## Harness HT55

### EN361

| | S | M | XL | XXL |
|---|---|---|---|---|
| HT55 - Standards Buckles | 65592 | 65602 | 65612 | - |
| HT55 A - Automatics | 65622 | 65632 | 65642 | 80632 |
| HT55 A - Automatics - Elastrac™ | 65652 | 65662 | 65672 | - |

Comfort

Frequency of use

Integrated options

# Expert series

## Harness HT120

### EN361

Harness designed for movement (up or down) on structures equipped with an EN 353.1 rail or cable fall arrester device equipped with an approved fall arrest umbilical anti-fallback system attachment point.

The HT120 harness is equipped with an approved fall arrest umbilical attachment point. This attachment point, while being fall arrest approved, provides comfortable support going up or down. HT 120 is the only harness on the market that offers this type of attachment point.

The HT120 harness is particularly adapted for climbing on ladders equipped with a rail-mounted FABA type fall arrester, whether or not including a tractelift climbing aid system.

It's patented design prevents the user from falling backwards in the event of a fall, eliminating the risk of serious back injuries

- 1 dorsal attachment point.
- 2 thoracic attachment points.
- 1 umbilical attachment point.

|  | S | M | XL |
|---|---|---|---|
| HT120 - Standard buckles | 61702 | 61712 | 61722 |

*Made in France*

Comfort

Frequency of use

Integrated options

## Harness HT46

### EN361

- Comfortable for long periods of work
- 1 dorsal "Forged D clip", 1 sternal and 2 thoracic ones
- 5 adjustment points.
- 1 sub-pelvic strap
- Sliders for strap adjustment. Cannot be removed for security reasons.
- High comfort independent mountain leg strap
- Label holder.

|  | S | M | XL | XXL |
|---|---|---|---|---|
| HT46 - Standard buckles | 55042 | 55052 | 55062 | - |
| HT46 A - Automatics | 52972 | 52982 | 52992 | 80552 |
| HT46A - Automatics - Elastrac™ | 54952 | 54962 | 54972 | - |

Comfort

Frequency of use

Integrated options

# Expert series

## Harness HT45

### EN361

- Comfortable for long periods of work
- 1 dorsal "Forged D clip", 1 sternal anchorage
- 5 adjustment points.
- 1 sub-pelvic strap.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Label holder.

|  | S | M | XL | XXL |
|---|---|---|---|---|
| HT45 - Standard buckles | 55012 | 55022 | 55032 | 75532 |
| HT45 A - Automatics | 53072 | 53082 | 53092 | - |
| HT45 AE - Automatics - Elastrac | 54922 | 54932 | 54942 | - |

Comfort

Frequency of use

Integrated options

## Harness HT45 with jacket

### EN361

|  | M | XL |
|---|---|---|
| HT45 with orange jacket - Standard buckles | 83822 | 83832 |

|  | M | XL |
|---|---|---|
| HT45 with yellow jacket - Standard buckles | 83802 | 83812 |

Comfort

Frequency of use

Integrated options

## Harness HT44

### EN361

- Comfortable for long periods of work
- 1 dorsal "Forged D clip" and 2 thoracic ones.
- 5 adjustment points.
- 1 sub-pelvic strap.
- High comfort independent mountain leg strap
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Label holder.

|  | S | M | XL |
|---|---|---|---|
| HT44 - Standard Buckles | 44102 | 44112 | 44122 |

Comfort

Frequency of use

Integrated options

# Pro series

## Harness HT34

### EN361 - EN358

- Universal harness with belt.
- 1 dorsal forged D anchorage.
- 1 sternal anchorage.
- 2 thoracic anchorage.
- 2 lateral hitch D rings.
- 6 adjustment points.
- 1 sub-pelvic strap.

|  | S | M | XL |
|---|---|---|---|
| HT34 - Standard buckles | 35352 | 35362 | 35372 |

Comfort

Frequency of use

Integrated options

## Harness HT43

### EN361

- 1 dorsal forged D anchorage.
- 1 sternal textile loop anchorage.
- 2 thoracic anchorage.
- 5 adjustment points.
- 1 sub-pelvic strap.

|  | S | M | XL |
|---|---|---|---|
| HT43 - Standard buckles | 33302 | 33292 | 33312 |
| HT43 A - Automatic buckles | 33332 | 33322 | 33342 |

Comfort

Frequency of use

Integrated options

## Harness HT42

### EN361

- 1 dorsal forged D anchorage.
- 2 thoracic anchorage.
- 5 adjustment points.
- 1 sub-pelvic strap.

|  | S | M | XL |
|---|---|---|---|
| HT42 - Standard buckles | 31622 | 10042 | 31082 |

Comfort

Frequency of use

Integrated options

# Pro series

## Harness HT22 with X-pad comfort back pad

### EN361

- 1 dorsal forged D anchorage.
- 1 sternal textile loop anchorage.
- 5 adjustment points.
- 1 sub-pelvic strap.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- X-pad comfort back pad: Breathable and flexible - it gives the harness shape to make it easier to put on.

| | M | XL | XXL |
|---|---|---|---|
| HT22 - Standard buckles - X-Pad | 69272 | 69292 | 80322 |

Comfort

Frequency of use

Integrated options

## Harness HT22

### EN361

- 1 dorsal forged D anchorage.
- 1 sternal textile loop anchorage.
- 5 adjustment points.
- 1 subp-pelvic strap.
- Sliders for strap adjustment. Cannot be removed for security reasons.

| | S | M | XL | XXL |
|---|---|---|---|---|
| HT22  - Standard buckles | 31592 | 14002 | 28502 | 79412 |
| HT22 A - Automatic buckles | 31832 | 31822 | 31842 | - |

Comfort

Frequency of use

Integrated options

# Pro series

## Harness HT22 with jacket
### EN361

- 1 dorsal forged D anchorage.
- 1 sternal textile loop anchorage.
- 5 adjustment points.
- 1 subpelviene strap.
- Sliders for strap adjustment. Cannot be removed for security reasons.
- Orange/ yellow jacket : comfortable lightweight high-visibility vest - **Already installed on the harness.**

|  | M | XL |
|---|---|---|
| HT22 with orange jacket - Standard Buckles | 83782 | 83792 |

|  | M | XL |
|---|---|---|
| HT22 with yellow jacket - Standard Buckles | 83762 | 83772 |

| Comfort | |
|---|---|
| Frequency of use | |
| Integrated options | |

# Pro series

## Harness HT22R

**EN361 - EN1497**

Universal harness with standard buckles and rescue straps.

The HT22R is a harness specifically designed to rescue an operator working in a confined space. It is equipped with an emergency strap attached to the shoulder straps. This strap allows the operator to be raised in a perfect vertical position which facilitates the exit of the body through the manhole.

- 1 dorsal anchor point.
- 1 sternal anchorage point in textile loop.
- 1 sub-pelvic strap.
- 5 adjustment loops.

| | S | M | XL |
|---|---|---|---|
| HT22R - Standard buckles | 44952 | 44962 | 44972 |

Comfort

Frequency of use

Integrated options

## HT9 Evacuation triangle

**EN1497**

Special harness for evacuation operations, easy to install, even with a person lying on the ground.
Due to its 3 adjustment settings, the HT9 can be used with both children and adults.

- EN 1497.

| Model | Product Code |
|---|---|
| HT9 Evacuation Harness | 17622 |

# Essential series

## Harness HT21

**EN361**

- 1 dorsal forged D anchorage.
- 1 sternal textile loop anchorage.
- 3 adjustment points.
- 1 sub-pelvic strap.

|  | S | M | XL |
|---|---|---|---|
| HT21 - Standard Buckles | 31582 | 10012 | 29722 |

Comfort
Frequency of use
Integrated options

## Harness HT11

**EN361**

- 1 dorsal forged D anchorage.
- 3 adjustment points.
- 1 sub-pelvic strap.

|  | S | M | XL |
|---|---|---|---|
| HT11 - Standard Buckles | 31192 | 10002 | 31182 |

Comfort
Frequency of use
Integrated options

# Safety belts

CE restraint belts feature side attachment points for a support lanyard and are equipped with three tool bag buckles. The size is easily and quickly adjusted by a single set of loops. The belt is held in place with plastic loops. They can be combined with any harness from our range, using belt loops, making a fully integrated belt-harness solution.

*Made in France*

## Safety Belt CE06

### EN358

- Two wide easy access forged steel fastening buckles of 60mm.
- Large comfortable foam backpad.

| Model | Size (Apparel) | Product Code |
|---|---|---|
| Safety Belt CE06 - Standard Buckles | S | 80242 |
| Safety Belt CE06 - Standard Buckles | M | 80252 |
| Safety Belt CE06 - Standard Buckles | XL | 80262 |
| Safety Belt CE06 - Quick-release buckles - Size S | S | 80272 |
| Safety Belt CE06 - Quick-release buckles - Size M | M | 80282 |
| Safety Belt CE06 - Quick-release buckles - Size XL | XL | 80292 |

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## Safety Belt CE01

### EN358

- Belt fits all harnesses with 2 pressed D ring of 45mm.

| Model | Size (Apparel) | Product Code |
|---|---|---|
| Safety Belt CE01 - Standard Buckles | S | 32882 |
| Safety Belt CE01 - Standard Buckles | M | 10052 |
| Safety Belt CE01 - Standard Buckles | XL | 10062 |
| Safety Belt CE01 - Quick-release buckles | S | 33202 |
| Safety Belt CE01 - Quick-release buckles | M | 33212 |
| Safety Belt CE01 - Quick-release buckles | XL | 33222 |

# Options

## Rescue lanyard option R

Rescue lanyard with 3 connectors M10 to evacuate a casualty. This 60 cm long webbing extension fits all Tractel® harnesses.

It is fixed directly onto the shoulder straps of the harness via two M10 connectors.

The rescue system is fixed onto the other end using a connector.

| Model | Product Code |
|---|---|
| Option R | 83892 |

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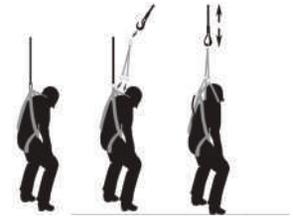
## Option RL

### EN354

45mm webbing anchorage extender that attaches to the back D-ring of a fall arrest harness. The extender is equipped with a plastic loop that allows the soft strand of the webbing to be positioned on one of the harness back straps when the extender is not in use.

**Dimensions (mm)**

- Webbing width 45 mm
- Total length: 260 mm
- 2 sewn loops
- Max. working load: 150 kg

**Material**

- Webbing: polyester

| Model | Product Code |
|---|---|
| Option RL | 32872 |

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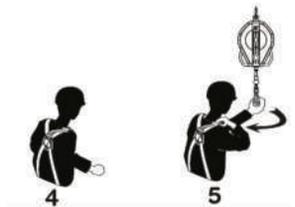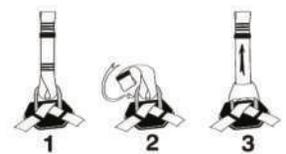
## Padded Shoulder Straps

- Extra comfort accessories.
- Kit of 2 padded shoulder straps.
- Can be fitted to any harness without an X-pad.

| Model | Product Code |
|---|---|
| Padded Shoulder Pads | 10112 |
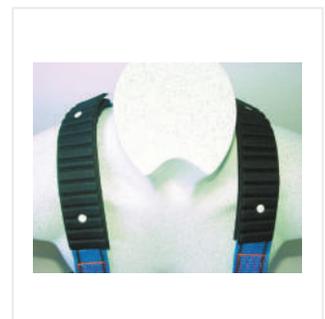
# Accessories

## Comfort strap

The comfort strap is a portable, lightweight accessory that fits onto any harness and can be deployed in the event of a fall. The comfort strap has a foot loop for the user to stand in while suspended. It allows the user to stand up straight, relieving any pressure on the legs.

Suspension syncope can occur when the user is left suspended in a hanging position following a fall. During this time the harness can cut into the thighs, restricting blood flow, which can cause a series of complications including fainting and even death.

### Specification

- Hardwearing zipped pouch, 80 mm diameter, 40 mm thick.
- Strap made from polyamide strap and zinc plated steel.
- Adjustment buckle.
- Easily adjustable up to 1.2 m to suit the height of the user.
- Weight: 100 g.
- User manual included within the pouch.
- Quick and easy to attach to the harness.
- Suitable for use with any Tractel® harness.

### Easy to Use

Step 1 - Unzip the pouch and deploy the leg loop.
Step 2 - Place both feet in the foot loop.
Step 3 - Adjust the strap as required.
Step 4 - Stand up straight to relieve pressure on the legs.

| Model | Product Code |
|---|---:|
| Comfort Strap | 66182 |
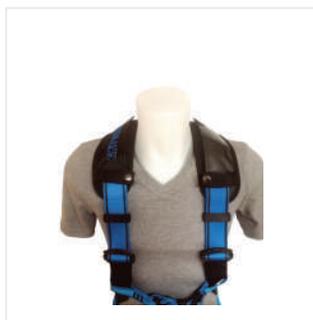
## X-Pad

### Removable X-Pad for Tractel harnesses

The X-Pad can be installed on all Tractel existing harnesses (except the HT Ladytrac and HT Access), including those with the Elastrac option, by the users themselves.

On the left shoulder strap, the X-Pad is equipped with a label holder designed to receive a traceability card dedicated to the user.

Following customers' feedback regarding the comfort around the neck, the 2 straps around the neck have now a wide opening.

Gives rigidity to hold the harness into a good shape for an easy put on.

The X-Pad is individually available.

The X-Pad is equipping our Specialties harness series and harness HT55 and HT56.

| Model | | Product Code |
|---|:---:|---:|
| X-Pad | N | 86612 |

# Accessories

## High-visibility vest

### EN471 - EC/ISO standard 20471, class 2

Comfortable lightweight high-visibility vest specifically developed for use with TRACTEL® harnesses without belt.

Reflective vests provide double security in those situations where there may not be enough light to be seen by others and by night. It makes the wearer visible at all times and in all weathers thanks to the retroreflective warning strips.

- Fluorescent outer fabric of polycotton (80% polyester / 20% cotton): resistant to all kinds of grease and dirt.
- Black honeycomb-structure lining, 100% polyester: reduces transpiration for the wearer's comfort.
- Two double pockets on the front of the vest , each with a flap that can be closed with press studs.
- Grey 50 mm-wide retro-reflective strip.
- Light weight: 660g.
- Easy to position the harness within the vest. Fast, simple and safe donning : once the harness has been set up in the vest, the user can easily slip on the garment with the harness fitted in.
- One size only : the sides can be let in or out thanks to clever inlays connected by an elastic cord, adjustable using a clip.
- Can be washed in a standard washing machine at 60°C.

| Model | Product Code |
| --- | --- |
| High-visibility vest - Orange | 75672 |
| High-visibility vest - Yellow | 75662 |

# Tool holding accessories

Tractel tool holders are compatible with a vast majority of standard tools, weighing up to 5 kg. When a tool holder is utilised, it eliminates the risk of a serious accident caused by falling tools. This line of accessories does not inhibit a person's ability to fully utilise the required tools and ensures complete safety by eliminating the risk of objects falling from height.

ETL   ETLS   TL

| Model | Product Code |
|---|---|
| ETL | 74782 |
| ETLS | 74812 |
| TL | 74842 |
| TLS | 74872 |
| TWB | 74902 |
| OAS | 75572 |

TWB   OAS

## Tool holding bag

Designed to be attached to Tractel harness belts.
It's thoughtfully designed to enable the user to safely carry the tools and small components required when working at height.

- A main, open compartment measuring 220mm wide x 70mm deep x 350mm high. The base of the pouch is leather-reinforced to prevent it from being cut or pierced by sharp tools.
- A Velcro-closable pocket measuring 220mm wide x 20mm deep x 180mm high.
- Two front pockets measuring 110mm wide x 20mm deep x 180mm high

| Model | Product Code |
|---|---|
| Tool holding bag | 75582 |

# Helmets

## TR2000 helmet with 4 point chinstrap

### EN397 - EN50365

Tractel's TR2000 helmet offers numerous advantages:

- Shell in polycarbonate for optimal protection from impacts and compression
- Short visor for easier upwards vision
- Available in 3 colours: blue, white and red
- Lightweight: 375 g
- Fast knurled wheel adjustment to head size 45 to 62 cm
- Fabric straps for ideal comfort
- Towelling all round sweatband
- Usage temperature -30°C to +40°C
- Service life: 5 years from the date of production
- Numerous accessories

| Model | Product Code |
|---|---|
| Helmet - blue colour | 60252 |
| Helmet - red colour | 60432 |
| Helmet - white colour | 60442 |
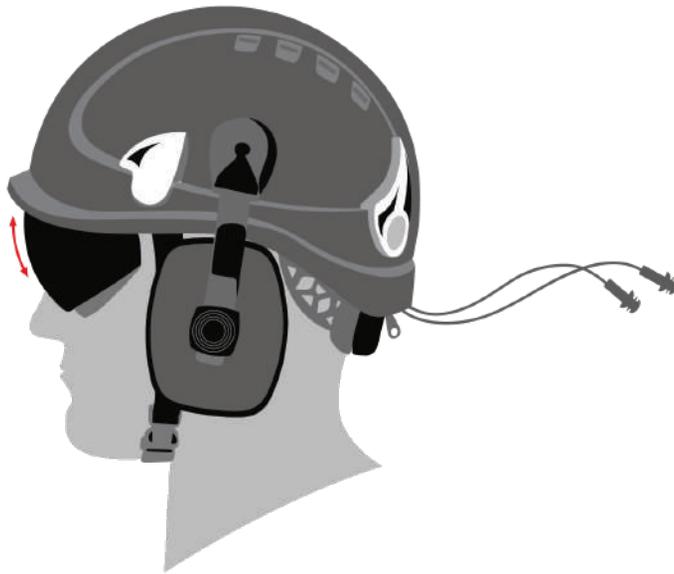
## TR2000 helmet accessories

| Model | Product Code |
|---|---|
| integrated visor, clear | 60272 |
| Integrated visor, tinted | 60262 |
| in-ear defender | 60292 |
| mounted ear defenders | 60282 |
| head torch clip | 60302 |

# How to choose your fall arrest device

## Selecting the right fall arrest device



**Self-retracting fall arrest: blocfor range**

These fall arrest devices are particularly well suited to all types of work involving vertical and horizontal movement. They facilitate the operator's horizontal movement over surfaces covered with obstacles such as flat roofs or industrial sites.

Conform to standard EN 360 and to European data sheets PPE-R/11.060 (for horizontal use) & PPE-R/11.062 (ofr use above 100 kg).

**Guided-type fall arrest on an anchor line: stopfor range**

These fall arrest devices are recommended for work involving vertical movements. Some of them have also been tested for horizontal movements, which require manual assistance.

Conform to standard EN 353-2 and to European data sheets PPE-R/11.060 (for horizontal use) & PPE-R/11.062 (for use above 100 kg).

**Shock-absorbing fall arrest: shock-absorbing lanyard range**

These fall arrest devices are suited to tasks where the operator must be connected to the ground or for work where there is limited freedom of movement.

Conform to European data sheets PPE-R/11.060 (for horizontal use) & PPE-R/11.062 (for use above 100 kg).

**WORK APPLICATIONS**

- Working on scaffolding, in cradles, etc.
- Working on flat roofs.
- Maintenance work.

**WORK APPLICATIONS**

- Working on ladders.
- Working on roofs.
- Cleaning windows.
- Rope access work.

**WORK APPLICATIONS**

- Working on roofs.

## Applicable standards

- ### EN 360 : (Blocfor range)

An automatic fall arrest device is a device equipped with a lanyard (cable or strap) kept constantly in tension. It allows for the movement of users without manual intervention. The system automatically locks when there is an acceleration of the lanyard and immobilizes the user in case of a fall. These fall arrest devices exist in different lengths and different materials are used for the lanyard.

- ### EN 353-2: (Stopfor range)

A fall arrest device on a flexible belay is a device that moves freely during ascent and descent and automatically hangs on the stand in case of a fall. The belaying support may be stranded rope or braided rope. These flexible supports must be weighted with a counterweight.

- ### EN 355: (shock absorber lanyard range)

An energy absorbing fall arrester makes it possible to arrest a fall in a short distance (max 2m). Its design ensures total safety for a drop coefficient of 2 that can generate trauma to the user. In case of a fall the absorber will tear reducing the force of the impact.

Each fall arrest described above, in the event of a fall,

will ensures that the user will not be subjected to an impact of more than 600 daN.

# Blocfor fall arrest devices

Tractel offers a wide range of Blocfor, self-retracting fall arrest device, from ranging from 1.8 m to 30 m with different material for the rope.

The versions up to 6 m included are equipped with a strap. The versions from 10 m to 30 m can be delivered with a galvanised steel, stainless steel or synthetic rope depending the application.

Tractel also offers Blocfor combined with rescue device. Only 2 versions are existing with the rescue combination, the Blocfor 20 and 30. These versions are designed to provided a simple and quick rescue solution. In the event of fall with a Blocfor rescue, the integrated rescue winch can be activated easily, the person can be rescued within minutes.

The choice of rope type for the versions between 10 m and 30 m depends on the application.

- The galvanised steel rope is an allrounder and can be used on most common application
- The stainless steel rope version should be preferred in food, humid or chemical environments
- The synthetic rope version should be preferred in anti-static and electrical environments as the rope is non-conductive.

On some of the Blocfor, the additional edge test specified in the PPE-R/11.060 are performed to ensure these Blocfor can be used on flat roof.

The Blocfor 1.8 EVO ESD is designed to withstand a fall with a fall factor 2. The certification tests are described in the PPE-R/11.085.

Most of our Blocfor are rated 150 kg, and to ensure their conformity, they are tested according to the PPE-R/11.062 which defines the tests for fall arrest device with a capacity higher than 100 kg.



*\* except stainless steel version*

# Blocfor 1.8 ESD

Fall arrest devices

Automatic fall arrester with strap 1.80 m for vertical or horizontal use.

For the user, the Blocfor 1.8A & 1.8B ESD has many advantages:

- Lightweight and compact, which makes it easy to carry and use.
- Aramid strap : Width of 15 mm, length of 1.45 m.
- Plastic housing, anti-UV, very resistant to shocks and ageing.
- Easy to install on different types of anchors thanks to several connectors (M10, M51 or M53).
- Easy to connect to the harness thanks to the M47 trunnion connector.
- Flexible unwinding system eliminates sticking or stopping during use.
- Presence of a swivel at the end of the strap allows for easy winding, the strap is free of any twists.
- In the event of a fall, the device triggers in less than 100 mm, reducing the distance of a fall.
- Shock-absorption system ESD is also a fall indicator, eliminating the risk of using the device after a fall. It ensures that the user will not be subjected to an impact of more than 600 daN even if the fall occurs when the cable is fully unwound.
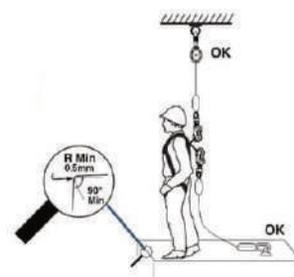
## Blocfor 1.8A ESD 150kg
### EN 360, PPE-R/11.060, PPE-R/11.062

| Model | Description | Weight (kg) | Product Code |
|---|---|---|---|
| Blocfor 1.8A ESD M10 M47 | 1.8 m – webbing – M10 and M47 connector | 1.36 | 70592 |
| Blocfor 1.8A ESD M11 M47 | 1.8 m – webbing – M11 and M47 connector | 1.36 | 75482 |
| Blocfor 1.8A ESD M51 M47 | 1.8 m – webbing – M51 and M47 connector | 1.63 | 70602 |
| Blocfor 1.8A ESD M53 M47 | 1.8 m – webbing – M53 and M47 connector | 1.69 | 70612 |
| Blocfor 1.8A ESD M24 M47 | 1.8 m – webbing – M24 and M47 connector | 1,41 | 86192 |
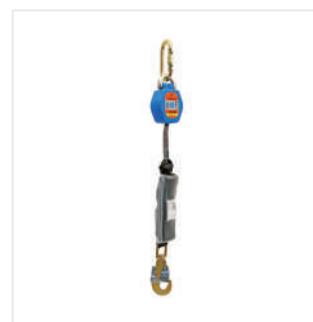
*Made in France*

## Blocfor 1.8B ESD 150kg
### EN 360, PPE-R/11.060, PPE-R/11.062

Unlike blocfor™ 1.8A ESD, the shock-absorption system ESD of the blocfor™ 1.8B ESD is positioned on the side of the attachment point of the harness, between the blocfor™ and the fall arrest point on the user's harness. The strap (fitted with an M51 connector) is connected to the anchor point of the blocfor™ on the structure.

| Model | Description | Weight (kg) | Product Code |
|---|---|---|---|
| Blocfor 1.8B ESD 150kg M51 M47 | 1.8 m – webbing – M51 and M47 connector | 1.63 | 72462 |
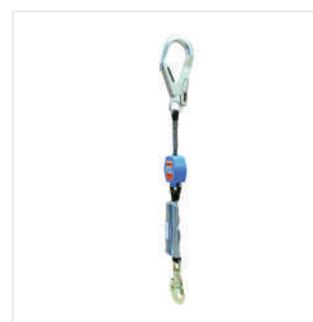
*Made in France*

# Blocfor 1.8 EVO ESD

Fall arrest devices

To minimise the impact on a user in case of a fall, an anchor point above their head is ideal. This means the fall arrest device used comes into action immediately and therefore reduces significantly the impact energy that needs to be absorbed.

However, such an anchoring point is not always possible and often the only place to anchor is at or even below the level of the feet of the user as well as close to the edge where you can fall. This means that in case of a fall the user can fall the length of the lanyard before the fall arrest device activates, therefore generating much higher energy levels that need to be absorbed so they cannot harm the user.

This situation is often described as Fall Factor 2 and many fall arrest blocks explicitly forbid this kind of use in the user manual.

Tractel has now developed the Blocfor 1.8 Evo to work specifically in this situation.

Fall arrest device with ESD technology, suitable for vertical or horizontal use. 1.8 meter webbing.

High Capacity Range 150 kg. Complies with CNB/P/11.062.

- Complies with EN 360 and CNB/P/11.060 standards for use on edges with a minimal 0.5 mm curve radius
- Can be used vertically or with a standard deviation of 20° in relation to vertical
- Can be used horizontally without the use of a lanyard between the end of the strap and harness
- **Can be used in FALL FACTOR 2**
- Flexible unwinding system which doesn't jerk during operator movement
- Responsive system which locks automatically in the event of a fall, reducing the total drop height
- Includes Energy System Dissipater (ESD) technology which enables the device to arrest a fall even when the webbing is fully unwound
- Integrated fall indicator
- Length 1.8 metres, webbing version
- Lightweight
- ABS fibre reinforced polyamide housing
- Standard M47 swivel connector at end of shock absorber
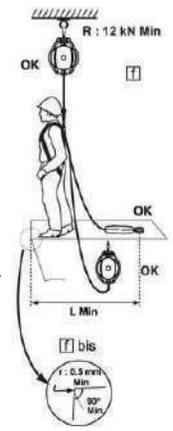
**NEW**

*Made in France*

## Blocfor 1.8A EVO ESD 150KG

### EN 360, CNB/P/11.060, CNB/P/11.062, CNB/P/11.085

| Model | Weight (kg) | Product Code |
|-------|------------|--------------|
| Blocfor 1.8A EVO ESD M10 M47 | 1,41 | 84052 |
| Blocfor 1.8A EVO ESD M24 M47 | 1,41 | 86082 |
| Blocfor 1.8A EVO ESD M53 M47 | 1,72 | 84062 |
| Blocfor 1.8A EVO ESD M51 M47 | 1,72 | 84072 |
| Blocfor 1.8A EVO ESD M23 M47 - DIN | 1.69 | 84092 |
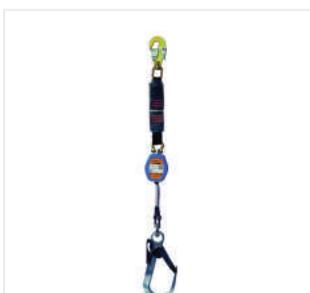
## Blocfor 1.8B EVO ESD 150KG

### EN 360, CNB/P/11.060, CNB/P/11.062, CNB/P/11.085

| Model | Weight (kg) | Product Code |
|-------|------------|--------------|
| Blocfor 1.8B EVO ESD M51 - M47 | 1.55 | 84082 |
| Blocfor 1.8B EVO ESD 150KG | | 86292 |

# Blocfor 1.8 DUO EVO ESD

Fall arrest devices

## Double SRL for scaffolding fall protection

Depending on your activity, you can be in situations where you have to regularly change to another anchorage point. Due to the fact you are probably in an area where you have a falling hazard you have to be connected constantly.

So we developed a double blocfor, the blocfor 1.8 duo evo ESD. With this new product, you can be connected with 1 hook to the structure and if you have to pass an obstacle or change to another anchorage point you attach the second hook to the structure. When the second hook is connected you can remove the first hook. If you work like this you will be always secured.

The Blocfor 1.8 duo evo ESD, self-retracting fall arrester is equipped with the new ESD system (Extremity System Dissipator). The ESD system ensures the user an impact of less than 600 daN, even if he falls when the lanyard is fully unrolled. The ESD system reduces the violence of the impact on the user's body in the event of a fall.

Can be used for maintenance operations in gondolas, on scaffolding, climbing in masts and pylons.

- Suitable for horizontal use with edges with a minimum radius of 0.5mm.
- Can be used in fall factor 2: possibility to work above the equipment anchorage point.
- Unit equipped with an M47 connector and an M51 connector. M51 is a connector with big opening, made in aluminium: universal and light.
- Reduced space requirement.
- Very low weight.
- Good ergonomics that ensures a perfect grip.
- One end is equipped with the Tractel ESD system.

This product comes equipped with **Tracinfo**, an online service that simplifies the way you access product documentation. With **Tracinfo**, you can get instant access to manuals, certificates, and more with just a few clicks.

| Model | Weight (kg) | Product Code |
|---|---|---|
| Blocfor 1.8B DUO ESD 150KG M47-M51 | 2.66 | 84762 |
| Blocfor 1.8B DUO ESD 150KG M47-M54 | | 86992 |

*Made in France*

# Blocfor 5 & 6 ESD

Fall arrest devices

Automatic fall arrester for **vertical and horizontal use**.

**For the user, the blocfor™ 5/6 ESD has many advantages:**

- Plastic housing made of a polyamide/ABS blend : very resistant to shocks and to UV.
- Aramid strap : Width of 25 mm. - length of 5 m (Blocfor 5 ESD). or 6 m (Blocfor 6 ESD).
- Simplified mechanism to optimize maintenance.
- Shock-absorption system ESD is also a fall indicator, eliminating the risk of using the device after a fall. It ensures that the user will not be subjected to an impact of more than 600 daN even if the fall occurs when the cable is fully unwound.
- Ergonomically shaped: easy to transport and to install.
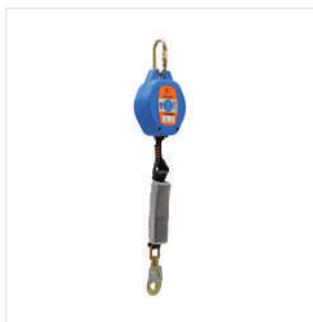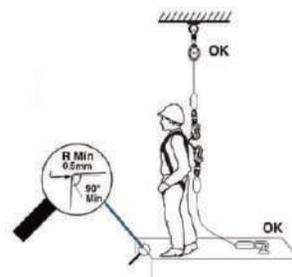
## EN 360, CNB/P/11.060, CNB/P/11.062

| Model | Description | Weight (kg) | Product Code |
|---|---|---|---|
| Blocfor 5 ESD M10 M47 | 5 m – webbing – M10 and M47 connector | 2.86 | 70652 |
| Blocfor 6 ESD M10 M47 | 6 m – webbing – M10 and M47 connector | 2.76 | 70662 |
| Blocfor 6 ESD M11 - M47 | 6 m – webbing – M11 and M47 connector | 2.76 | 74672 |
| Blocfor 6 ESD M24 M47 | 6 m – webbing – M24 and M47 connector | 2.76 | 86202 |

*Made in France*

# Blocfor 10 ESD

Fall arrest devices

Automatic fall arrester with rope (galvanised or synthetic) for vertical or horizontal use.

**For the user, the Blocfor 10 ESD has many advantages:**

- Plastic housing made of a polyamide/ ABS blend : very resistant to shocks and and to UV.
- Galvanised rope (Blocfor 10 ESD G) / Synthetic rope (Blocfor 10 ESD SR)
- Simplified mechanism to optimize maintenance.
- Shock-absorption system ESD is also a fall indicator, eliminating the risk of using the device after a fall. It ensures that the user will not be subjected to an impact of more than 600 daN even if the fall occurs when the cable is fully unwound.
- Ergonomically shaped.

## Blocfor 10 ESD 150kg

### EN 360, CNB/P/11.062, CNB/P/11.060

| Model | Description | Weight (kg) | Product Code |
|---|---|---|---|
| Blocfor 10 ESD G M10–M47 | Galvanised rope | 5.52 | 70572 |
| Blocfor 10 ESD G M24–M47 | Galvanised rope | 5.52 | 86092 |
| Blocfor ESD SR M10–M47 | Synthetic rope | 4.50 | 74372 |

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## Blocfor 10 ESD I 150kg

### EN 360, CNB/P/11.062

| Model | Weight (kg) | Product Code |
|---|---|---|
| Blocfor 10 I ESD 150kg M10I M10I | 4,86 | 79002 |

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# Blocfor 20 EVO ESD 150kg

EN 360, PPE-R/11.060, PPE-R/11.062

**NEW**

## Self-retracting fall arrest device

The **Blocfor 20 EVO ESD** is:

- A self-retracting fall arrest device
- With guaranteed 20 meters of wire rope made in:
  - Galvanised steel,
  - Stainless steel,
  - Or synthetic rope.
- Equipped with our ESD (Extremity System Dissipator) absorption system.
- Suitable for user with a weight up to 150kg
- That works in both vertical and horizontal (edge certification) applications.

The **latest innovation from Tractel** in self-retracting fall arrest device.

- A simple and proven mechanism to optimise its operation and maintenance.
- In the event of fall, its ESD system ensures that the impact on the operator is less than 600 daN. Even if the operator falls when the wire rope is unwound.
- Ergonomic handle for easy handling during transport and installation.
- Lightweight thanks to its plastic housing.
- Smooth to use. The proven mechanism prevents the unintentional locking of the system.
- A reinforced spring which ensures a perfect winding of the entire wire rope.
- Impact-resistant and UV-resistant housing

### Configuration in use

The Blocfor 20 EVO ESD fall arrest device can be used:

- For user with a weight up to 150kg including their equipment. Certified according to the PPE-R/11.062 "fall arrester with a capacity greater than 100kg",
- In vertical application with an angle up to 20° at the vertical of the anchor point.
- For horizontal application with edges having a radius of more than 0.5 mm, for galvanised and synthetic rope version only. Certified according to the PPE-R/11.060 "horizontal use"

### Connector

Galvanised and synthetic versions
M24 twin-lock connector on top and M47 automatic connector with integrated swivel on the absorber.

Stainless steel version
M10 manual connector in stainless steel on both ends. With an inline swivel on the absorber end.

*This product comes equipped with Tracinfo, an online service that simplifies the way you access product documentation. With Tracinfo, you can get instant access to manuals, certificates, and more with just a few clicks.*

*Find out more here.*

| Model | | Material | Weight (kg) | Product Code |
|---|---|---|---|---|
| Blocfor 20 EVO ESD G 150 kg | N | Galvanised steel | 9.4 | 86662 |
| Blocfor 20 EVO ESD I 150 kg | N | Stainless steel | 9.1 | 86672 |
| Blocfor 20 EVO ESD SR 150 kg | N | Synthetic rope | 8 | 86652 |

(Blocfor 20 EVO ESD I only suitable for vertical use)

HIGH CAPACITY RANGE
150 kg
www.tractel.com

# Blocfor 30 ESD

Fall arrest devices

## EN 360, CNB/P/11.060, CNB/P/11.062

- Fall arrest device with ESD technology suitable for use on flat roofs
- Can be used vertically or with a standard deviation of 20° in relation to vertical
- Can be used horizontally without the use of a lanyard between the end of the strap and harness
- Flexible unwinding system which doesn't jerk during operator movement
- Responsive system which locks automatically in the event of a fall, reducing the total drop height
- Includes Energy System Dissipater (ESD) technology which enables the device to arrest a fall even when the webbing is fully unwound
- Integrated fall indicator
- Length 30 metres, version with galvanised, stainless steel or synthetic cable
- Blocfor 30 housing made of coated aluminium: highly resistant to shocks and abrasion
- Lightweight
- M47 swivel connector at end of shock absorber (Stainless steel model with stainless steel M10 hook)
- A blocking mechanism with a double locking pin which reduces the activation time

| Model | Description | Weight (kg) | Product Code |
|---|---|---|---|
| Blocfor 30 ESD 150 kg M10 M47 | Galvanised rope | 16.6 | 74532 |
| Blocfor 30 ESD 150 kg M24 M47 | Galvanised rope | 16.6 | 86122 |
| Blocfor 30 ESD I 150kg | Stainless steel rope | 17.6 | 79032 |

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(Blocfor 30 ESD I only suitable for vertical use)

# Blocfor 20R & 30R ESD

Fall arrest devices with integrated rescue winch

## EN 360, EN 1496-B, PPE-R/11.062

**Automatic fall arrester with galvanised rope, with integrated winch that's highly effective and easy to operate.**

**This product can be used as a standard fall arrest device when the winch is not engaged and to lift a worker for a safe rescue when activated after a fall.**

For the user, the Blocfor 20 R ESD / 30 R ESD has many advantages:

- Plastic housing made of a polyamide/ABS blend (blocfor 20R) / Aluminium housing (blocfor 30R) : Anti-UV, very resistant to shocks and ageing.
- Shock-absorption system ESD is also a fall indicator, eliminating the risk of using the device after a fall. It ensures that the user will not be subjected to an impact of more than 600 daN even if the fall occurs when the cable is fully unwound.
- Integrate winch : Automatic fall protection device with integrated winch for ascending or decending during a possible rescue operation.

| Model | Weight (kg) | Product Code |
|---|---|---|
| Blocfor 20R ESD G 150kg | 11,62 | 75492 |
| Blocfor 30R ESD G 150kg | 20 | 75502 |

# Stopfor fall arrest devices

Tractel offers a complete range of Stopfor. It is primarily split in two:

- Stopfor on stranded rope Ø14mm
- Stopfor on braided rope Ø11mm

The choice between the two kinds of product depends on the use of the Stopfor.

The braided rope is much lighter than stranded increasing the comfort of use with a long rope. While the Stopfor with the stranded rope can all be used horizontally (e.g. flat roof).

Inside each category, different versions are available depending on the application.

| Product | Stopfor for stranded rope | | | |
| --- | --- | --- | --- | --- |
| | B | BF | MSP | SL |
| |  |  |  |  |
| 150kg | ✔ | ✔ | ✔ | ✔ |
| Anti-reversibility | - | - | ✔ | ✔ |
| Pre-installed on rope | - | ✔ | - | - |
| Can be installed and removed at any point on the rope | ✔ | - | ✔ | ✔ |
| Safety Park function | - | - | ✔ | ✔ |
| Vertical use | ✔ | ✔ | ✔ | ✔ |
| Horizontal use (e.g. on flat roof) | ✔ | ✔ | ✔ | ✔ |

| Product | Stopfor for braided rope | | | | |
| --- | --- | --- | --- | --- | --- |
| | KS 150kg | KSP 150kg | K | KS | KSP |
| |  |  |  |  |  |
| 150kg | ✔ | ✔ | - | - | - |
| Anti-reversibility | ✔ | ✔ | - | ✔ | ✔ |
| Pre-installed on rope | - | - | ✔ | - | - |
| Can be installed and removed at any point on the rope | ✔ | ✔ | - | ✔ | ✔ |
| Safety Park function | - | ✔ | - | - | ✔ |
| Vertical use | ✔ | ✔ | ✔ | ✔ | ✔ |
| Horizontal use (e.g. on flat roof) | - | - | ✔ | ✔ | ✔ |

The version with the safety park function will be preferred when working on a roof with high inclination and work positioning is required.

A pre-installed Stopfor on a rope will be preferred when it is important for the user or owner that the rope cannot be separated from the Stopfor.

High Capacity range 150 kg

Can be used on flat roof

# Fall Arresters - Stopfor

150 kg / Fall arresters on a flexible anchor line



## Stopfor B - 150 kg

### EN353-2 - CNB/P/11.075 - CNB/P/11.062

- Vertical & horizontal applications.
- Use on 14 mm diameter stranded rope.
- Installs & removes at any point of the rope.
- Lightweight & ergonomic.
- Easy to use & to transport.
- Aluminium.

| Model | Length (cm) | Product Code |
|---|---|---|
| Stopfor B M10 | - | 106189 |
| Stopfor B - strap + M41 | 30 | 106169 |
| Stopfor B - strap + M42 | 30 | 106179 |

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## Stopfor BF - 150 kg

### EN353-2 - CNB/P/11.075 - CNB/P/11.062

- Vertical & horizontal applications.
- Use on 14 mm diameter stranded rope.
- Product delvered already on the rope.
- Easy to use.
- Aluminium

| Model | Length (m) | Product Code |
|---|---|---|
| Stopfor BF - rope 10m - strap + M41 | 10 | 79992 |
| Stopfor BF - rope 15m - strap + M41 | 15 | 80002 |
| Stopfor BF - rope 20m - strap + M41 | 20 | 80012 |
| Stopfor BF - rope 30m - strap + M41 | 30 | 80072 |
| Stopfor BF - rope 40m - strap + M41 | 40 | 80082 |

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# Fall Arresters - Stopfor

150 kg / Fall arresters on a flexible anchor line

## Stopfor MSP - 150 kg

### EN353-2 - CNB/P/11.075 - CNB/P/11.062

- Vertical & horizontal applications.
- Use on 14 mm diameter stranded rope.
- Anti-reversibility system : impossible to assemble upside down, enhanced security.
- With park function : locks manually on the rope for a hold at the station.
- Easy to use & to transport.
- Installs & removes at any point of the rope.
- Galvanised steel.

| Model | Product Code |
|---|---|
| Stopfor MSP | 207018 |

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## Stopfor SL - 150 kg

### EN353-2 - CNB/P/11.062

- Vertical applications.
- Use on 14 mm diameter stranded rope.
- Anti-reversibility system : impossible to assemble upside down, enhanced security.
- Installs & removes at any point of the rope.
- Stainless steel.

| Model | Product Code |
|---|---|
| Stopfor SL - M10 | 276389 |
| Stopfor SL - strap + M10 | 206918 |
| Stopfor SL - strap + M41 | 206958 |
| Stopfor SL - strap + M11 | 206928 |
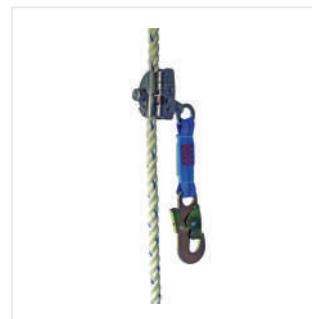
# Fall Arresters - Stopfor

150 kg / Fall arresters on a flexible anchor line

## Stopfor KS - 150 kg

### EN353-2 - CNB/P/11.062

- Vertical applications.
- Use on 10.5-12.5mm diameter braided rope.
- Lightweight & ergonomic.
- Anti-reversibility system : impossible to assemble upside down, enhanced security.
- Easy to use & to transport.
- Aluminium.

| Model | Product Code |
|---|---|
| Stopfor KS 150kg - M10 | 276279 |
| Stopfor KS 150kg - M11 | 86182 |

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## Stopfor KSP - 150 kg

### EN353-2 - CNB/P/11.062

- Vertical applications.
- Use on 10.5-12.5mm diameter braided rope.
- Lightweight & ergonomic.
- Anti-reversibility system : impossible to assemble upside down, enhanced security.
- With park function : locks manually on the rope for a hold at the station.
- Easy to use & to transport.
- Aluminium.

| Model | Product Code |
|---|---|
| Stopfor KSP 150kg - M10 | 79062 |
| Stopfor KSP 150 kg - M24 | 86172 |

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# Fall Arresters - Stopfor

100 kg / Fall arresters on a flexible anchor line

## Stopfor K - 100kg

### EN353-2 - CNB/P/11.075

- Vertical & horizontal applications.
- Use on 10.5 - 12.5 mm diameter braided rope.
- Lightweight & ergonomic.
- Easy to use & to transport.
- Installs & removes at any point of the rope.
- Aluminium.

| Model | Product Code |
|---|---:|
| Stopfor K - M10 - without lanyard | 79922 |
| Stopfor K LS30 M41 | 79932 |
| Stopfor K LS30 M42 | 79942 |

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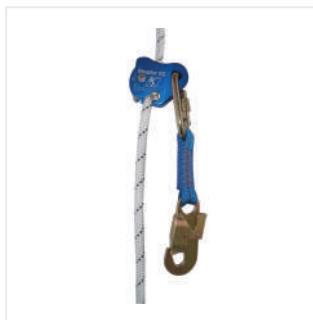
## Stopfor KS - 100kg

### EN353-2 - CNB/P/11.075

- Vertical & horizontal applications.
- Use on 10.5 - 12.5 mm diameter braided rope.
- Lightweight & ergonomic.
- Anti-reversibility system : impossible to assemble upside down, enhanced security.
- Easy to use & to transport.
- Installs & removes at any point of the rope.
- Aluminium.

| Model | Product Code |
|---|---:|
| Stopfor KS - M10 | 79952 |
| Stopfor KS - M24 | 86152 |
| Stopfor KS - strap + M41 | 79962 |
| Stopfor KS - strap + M42 | 79972 |

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# Fall Arresters - Stopfor

100 kg / Fall arresters on a flexible anchor line

## Stopfor KSP - 100kg

### EN353-2 - CNB/P/11.075

- Vertical & horizontal applications.
- Use on 10.5 - 12.5 mm diameter braided rope.
- Lightweight & ergonomic.
- Anti-reversibility system : impossible to assemble upside down, enhanced security.
- With park function : locks manually on the rope for a hold at the station.
- Easy to use & to transport.
- Installs & removes at any point of the rope.
- Aluminium.

| Model | Product Code |
|---|---|
| Stopfor KSP 100kg - M10 | 80022 |
| Stopfor KSP 100kg - M11 | 86162 |
| Stopfor KSP 100kg - strap + M41 | 79072 |
| Stopfor KSP 100kg - strap + M42 | 79082 |

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# Confined access range

## Davitrac

- Permanent anchor point (2 users of 150 kg each), compatible for working suspended on rope
- Lifting anchor point complying with machinery standards 2006/42/CE - WLL : 500 kg
- Permanent or semi-permanent installation
- Manual or motorised lifting
- Several bases available

## Davimast

- Permanent anchor point (2 users of 150 kg each)

- Lifting anchor point complying with machinery standards 2006/42/CE - WLL : 250 kg
- Permanent or semi-permanent installation
- Manual
- Compatible with davitrac bases

## Tracpode

- Material and people lifting (compatible for work in suspension)
- 150 kg people / WLL 500 kg material
- Semi-permanent installation
- Rugged mobile solution
- Manual and motorised

## Tracrod

- Permanent anchor point (150 kg)

- Semi-permanent installation
- Manual

## FABA ladder

# Davitrac

Davit arm for confined space entry, safe lifting solution

## EN795 & Machine directive 2006/42/CE

The Davitrac is a complete solution for safe vertical lifting of personnel and material in confined space situations.

Mobile and efficient solution for confined space situations.

It offers protection and total mobility for two people simultaneously, during work involving risk of falling

Its compatibility with the Tractel tool range allows a large number of possible configurations.

### Technical characteristics:

- Weight: 30 kg (without accessories & bases)
- Anchor points for fall arresters (2 users): 150kg each
- Maximum load capacity (materials): WLL 500 kg
- 360° rotating mast (with locking every 90° or 180° when using H-Base)

### Standards:

- Individual protection of operators against falls (EN 795 Class A and/or B + EN 360)
- CEN/TS 16415:2013 (Fall arrest for 2 users).
- EN 1496
- Machine Directive 2006/42/CE (Material lifting).

### Compatibles applications:

- Rescue
- Confined spaces access
- Rope works
- Manholes
- Pits
- Sewer access
- Pipes
- Oil and gas
- Civil engineering
- Industry
- Wind and solar installation

| Model | Material | Weight (kg) | Product Code |
|---|---|---|---|
| Davitrac | Aluminium | 29.5 | 286819 |
| Transport bag | Textile | 0.5 | 84582 |

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The trolley for Davitrac – Davimast is designed for the safe and ergonomic transport of davitrac or davimast confined-space anchor points to the working area. It can be used by one operator easily, reducing the amount of effort required.

It is made of carbon steel, coated with an anti-corrosion painting. On the inner part of the transport arm there is a silicon layer, to protect the painting and reduce the risk of scratching and wearing.

It has two independent rubber wheels, which allows its operation on any type of ground.

| Model | Product Code |
|---|---|
| Trolley for Davitrac / Davimast | 210618 |

# Davitrac

## Blocfor with bracket for Davitrac

Automatic fall arrester (**EN360**) with rope (galvanised or stainless steel), with integrated winch rescue (**EN1496**).

Can be easily integrated on the davitrac, without tools.

Allows to secure an operator up to 150 kg, equipped with his tools.

- Integrate winch : Automatic fall protection device with integrated winch for ascending or decending during a possible rescue operation.
- Shock-absorption system ESD : is also a fall indicator, eliminating the risk of using the device after a fall. It ensures that the user will not be subjected to an impact of more than 600 daN even if the fall occurs when the cable is fully unwound.
- The Blocfor cable is guided by equipped pulleys with an anti-jump cable fixed on the head of the davitrac.

| Model | Weight (kg) | Length (cm) | Product Code |
|-------|------------|-------------|--------------|
| Blocfor 20R galva ESD with bracket for Davitrac - 150kg range | 15.6 | 18 | 84122 |
| Blocfor 20R inox with bracket for Davitrac - 100kg range | 15.6 | 18 | 84132 |
| Blocfor 30R galva ESD with bracket for Davitrac - 150kg range | 24 | 30 | 84142 |
| Blocfor 30R inox with bracket for Davitrac - 100kg range | 24 | 30 | 84152 |

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## CaRol R with bracket for Davitrac

Rescue winch compliant with **EN 1496**, with a maximum load of 150 kg.

Carol R winch 150kg also meets the requirements of hoisting winches with a maximum load of 250 kg (**Directive 2006/42/CE**).

Can be easily integrated on the davitrac, without tools.

Allows to secure an operator up to 150 kg, equipped with his tools. Can also be used for lifting materials with a capacity of 250kg.

- Available cable lengths of 20m and 30m
- The winch cable is guided by equipped pulleys with an anti-jump cable fixed on the head of the davitrac.

| Model | Weight (kg) | Product Code |
|-------|------------|--------------|
| CaRol R 250kg with 20m of galvanized cable and bracket for Davitrac | 28.9 | 286949 |
| CaRol R 250kg with 30m of galvanized cable and bracket for Davitrac | 36.1 | 286959 |

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# Davitrac

## Scafor with bracket for Davitrac

Rescue winch compliant with **EN 1496**, with a maximum load of 150 kg.

Scafor also meets the requirements of hoisting winches with a maximum load of 500 kg (**Directive 2006/42/CE**).

Can be easily integrated on the davitrac, without tools.

Allows to secure an operator up to 150 kg, equipped with his tools. Can also be used for lifting materials with a capacity of 500kg. Thanks to its pass-through cable winch technology, it permits the installation of very long cables of more than 30m.

• The Scafor cable is guided by equipped pulleys with an anti-jump cable fixed on the head of the Davitrac.

*To secure the work of an operator on a length greater than 30m, use a Stopfor fall arrester with a suitable length of rope.*

| Model | Weight (kg) | Product Code |
|---|---|---|
| Scafor R 500kg without cable - with bracket for davitrac | 13.6 | 293019 |
| Galvanized wire rope - Ø 6, 5mm - 20m - equipped with M47 - for Scafor | 5 | 245899 |
| Galvanized wire rope - Ø 6, 5mm - 30m - equipped with M47 - for Scafor | 6.8 | 245909 |
| Galvanized wire rope - Ø 6, 5mm - 40m - equipped with M47 - for Scafor | 8.6 | 245919 |
| Galvanized wire rope - Ø 6, 5mm - 50m - equipped with M47 - for Scafor | 10.5 | 245929 |
| Galvanized wire rope - Ø 6, 5mm - 60m - equipped with M47 - for Scafor | 12.3 | 286929 |
| Galvanized wire rope - Ø 6, 5mm - 70m - equipped with M47 - for Scafor | 14.1 | 286939 |

*Made in France*

# Davitrac



*Made in France*

## CaRol TS 500 - lifting materials - with 18m of galvanized cable and bracket for Davitrac

Manual designed for simple lifting and pulling applications (**2006/42/CE**).

Can be easily integrated on the davitrac, without tools.

- The winch cable is guided by equipped pulleys with an anti-jump cable fixed on the head of the davitrac.

| Model | Product Code |
|---|---:|
| CaRol TS 500 - with 18m of galvanized cable and bracket for Davitrac | 286989 |



*Made in France*

## CaRol MO with console for Davitrac - lifting materials

Electric winch designed for simple lifting and pulling applications (**2006/42/CE**), ideal to replace a manual winch.

Can be easily integrated on the davitrac, without tools.

- Drum in mechanically welded steel
- Limit switch
- Capacity : 500kg max (depending of the model)
- The winch cable is guided by equipped pulleys with an anti-jump cable fixed on the head of the davitrac.

| Model | Product Code |
|---|---:|
| CaRol MO 500 - lifting materials - with 13m of galvanized cable and bracket for Davitrac | 293009 |



## Tralift

The tralift™ manual hand chain hoist has a unique Tractel® design which is compact, light yet robust, able to tackle the most extreme lifting conditions.

- Compact and lightweight
- Robust design with cast steel safety catches
- Easily portable for use anywhere
- Swivel hook with overload indication and robust cast steel safety catches

| Model | Product Code |
|---|---:|
| Tralift 500kg - 10m | 286849 |

# Davitrac

Adapters

## Permanent adapters for Davitrac

**Permanent adapters**



Mounted floor adapter



Clearance mural adapter



Flush floor adapter



Wall mounted adapter

| Model | Material | Weight (kg) | Product Code |
|---|---|---|---|
| Mounted floor adapter | Galvanised steel | 12.7 kg | 210108 |
| Clearance mural adapter | Galvanised steel | 18.7 kg | 210128 |
| Flush floor adapter with protective cap | Galvanised steel | 10.7 kg | 210138 |
| Wall mounted adapter | Galvanised steel | 13.7 kg | 210118 |
| Mounted floor adapter \| Stainless steel | Stainless steel | 13.4 kg | 218008 |
| Clearance mural adapter \| Stainless steel | Stainless steel | 15.6 kg | 218018 |
| Protective cap for adapters | Plastic | 0.2 kg | 294129 |

## Portable H base self-stabilizing for Davitrac

| Model | Material | Weight (kg) | Product Code |
|---|---|---|---|
| Portable H base self-stabilizing | Aluminium | 53 kg | 210098 |

# Davimast

## Davimast

davimast is a complete solution for safe vertical lifting of person and material in confined spaces situation.

Mobile and efficient solution for rescue situations, it offers protection and total mobility for two people simultaneously, during work involving risk of falling.

Its compatibility with the Tractel® tool range allows a large number of possible configurations.

| Model | Product Code | Model Name |
|---|---|---|
| Davimast - mast | 210188 | Davimast - mast |

| Model | Product Code |
|---|---|
| Bag for Davimast | 68752 |

*Made in France*

## Davimast equiped with 2 anchor points 360° to secure persons

**Technical characteristics:**

- Anchor point with a maximum capacity of 2 operators of 150 kg each.
- Bracket equiped with 2 anchor points  360°.
- Lightweight, easy storage, transport and set-up
- No tools required for assembly
- Uses the same bases as the davitrac (except self-stabilizing base)

| Model | Product Code |
|---|---|
| Davimast - mast | 210188 |
| bracket with 2 anchor points | 210198 |

*Made in France*

# Davimast

## Davimast equiped with Blocfor R fall arrest and rescue system

Automatic fall arrester (**EN360**) with rope (galvanised or stainless steel), with integrated winch (**EN1496**).

Can be easily integrated on the davimast, without tools.

Anchor point with a maximum capacity of 2 operators of 150 kg each.

- Integrate winch : Automatic fall protection device with integrated winch for ascending or decending during a possible rescue operation.
- Shock-absorption system ESD : is also a fall indicator, eliminating the risk of using the device after a fall. It ensures that the user will not be subjected to an impact of more than 600 daN even if the fall occurs when the cable is fully unwound.
- The blocfor$^{TM}$ cable is guided by equipped pulleys with an anti-jump cable fixed on the head of davimast.

**Technical characteristics:**

- Anchor point with a maximum capacity of 2 operators of 150 kg.
- Bracket equipped with blocfor$^{TM}$ R (automatic fall arrester with rescue winch 20m or 30m length)
- Bracket equipped of 1 PPE anchor point 150kg (allows person staying on surface to be secured)
- Lightweight, easy storage, transport and set-up
- No tools required for assembly
- Same bases than davitrac (except self-stabilizing base)

**Standards:**

- EN 795-A : 2012 (bracket + base  anchor point)
- CEN/TS 16415:2013-B (bracket + base multiuser).
- EN 1496 / EN 360 ( blocfor™ R)



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| Model | Product Code |
|---|---|
| Davimast - mast | 210188 |
| Blocfor 20R galva ESD with backet for Davimast - 150kg range | 84362 |
| Blocfor 20R inox with bracket for Davimast - 100kg range | 84372 |
| Blocfor 30R galva ESD with backet for Davimast - 150kg range | 84382 |
| Blocfor 30R stainless steel with bracket for Davimast - 100kg range | 84392 |

# Davimast



*Made in France*

## Davimast with CaRol TS 250 winch for lifting material

### Machine directive 2006/42/CE - EN795-A - CEN/TS 16415

Carol winch 150kg also meets the requirements of hoisting winches with a maximum load of 250 kg (**Directive 2006/42/CE**).

Can be easily integrated on the davimast, without tools.
Allows to secure an operator up to 150 kg, equipped with his tools. Can also be used for lifting materials with a capacity of 250kg.

- Available cable lengths of 20m and 30m
- The winch cable is guided by equipped pulleys with an anti-jump cable fixed on the head of the davimast

#### Technical characteristics:

- Bracket equipped with Carol winch TS250: WLL 250kg / 20 m or 30 m length
- Bracket equipped of 1 PPE anchor point 150 kg
- Lightweight, easy storage, transport and set-up
- No tools required for assembly
- Uses the same bases as the davitrac (except self-stabilizing base)

| Model | Product Code |
|---|---|
| Davimast - mast | 210188 |
| CaRol TS 250kg with 20m of galvanized cable galva and bracket for davimast | 293799 |
| CaRol TS 250kg with 30m of galvanized cable galva and bracket for davimast | 293809 |







## Davimast equiped with 2 anchor points 360° for horizontal lifeline

#### Technical characteristics:

- Anchor point with a maximum capacity of 2 operators of 150 kg each connected directly on the PPE anchor point 360°.
- Bracket equiped with 2 anchor points 360° has braking load R</=1500daN
- Can be used with temporary lifeline tempo 3 with 3 users of 150 kg connected on the lifeline.
- Lightweight, easy storage, transport and set-up.
- No tools required for assembly
- Same bases than davitrac (except self-stabilizing base)

#### Standards:

- EN 795-A : 2012 (bracket + base anchor point)
- CEN/TS 16415:2013-B (bracket + base multiuser)

| Model | Product Code |
|---|---|
| Davimast - mast | 210188 |
| bracket with 2 anchor points | 210198 |
| Tempo III kit | 62862 |

# Tracpode

## EN795-B - Machine directive 2006/42/CE

Tracpode 150 kg is a temporary anchor point.
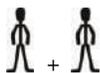
It is tested to stop the fall of two operators weighing 150 kg each; including the weight of their equipment and tools. It allows two users to work safely.

It may also be used as an anchor point for lifting with the ability to lift a maximum load of 500 kg.
It can be folded up and it is small enough to be transported in light "site vehicles". It is easy to handle.
The Tracpode 150 kg is intended for persons who need to access confined spaces such as storage silos, sewers, etc.

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# Tracpode

## Tracpode

- Adjustable to 1.53m - 1.72m - 1.91m - 2.10m - 2.29m - 2.48m (mas height)
- Width (depending of the height choosed) : 1.20m - 1.33m - 1.46m - 1.59m - 1.72m - 1.85m

| Model | Weight (kg) | Product Code |
|---|---|---|
| Tracpode | 23 | 273739 |
| Tracpode + PPE pulley kit | 24,38 | 273749 |
| Tracpode + 2 PPE pulley kits | 25,76 | 273769 |
| Tracpode + 1 PPE pulley kit + 1 lifting pulley kit | 25,76 | 273779 |
| Tracpode + 2 PPE + 1 lifting pulley kits | 27,14 | 273789 |
| PPE pulley kit | 1,38 | 196968 |
| Lifting pulley kit | 1,38 | 196958 |

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## Tracpode - short model

- Adjustable to 1.28m - 1.47m - 1.66m - 1.85m - 2.04m - 2.23m (mas height)
- Width (depending of the height choosed) : 1.01m - 1.15m - 1.28m - 1.41m - 1.54m - 1.67m

| Model | Product Code |
|---|---|
| Tracpode - short model | 278039 |
| Tracpode + PPE pulley kit | 278049 |
| Tracpode + 2 PPE pulley kits | 278059 |
| PPE pulley kit | 196968 |
| Lifting pulley kit | 196958 |

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## Bag : tracpode

| Model | Product Code |
|---|---|
| tracpode canvas bag | 31572 |

# Tracpode

Accessories: safety & rescue

## Blocfor with bracket for Tracpode

### EN360 - EN1496 - CNB/P/11.062

Automatic fall arrester (**EN360**) with rope (galvanised or stainless steel), with integrated winch (**EN1496**).

Can be easily integrated on the Tracpode, without tools.

Allows to secure an operator up to 150 kg, equipped with his tools.

- Integrated winch : Automatic fall protection device with integrated winch for ascending or descending during a possible rescue operation.
- Shock-absorption system ESD : is also a fall indicator, eliminating the risk of using the device after a fall. It ensures that the user will not be subjected to an impact of more than 600 daN even if the fall occurs when the cable is fully unwound.
- The Blocfor cable is guided by equipped pulleys with an anti-jump cable fixed on the head of tracpode.

| Model | Weight (kg) | Product Code |
|---|---|---|
| Blocfor 20R - galvanized - 150kg range - without bracket | 7.6 | 75492 |
| Blocfor 20R I - stainless steel - 100kg range - without bracket | 7.6 | 28612 |
| Blocfor 30R - galvanized - 150kg range - without bracket | 14.3 | 75502 |
| Blocfor 30R I - stainless steel - 100kg range - without bracket | 14.3 | 42972 |
| Blocfor leg bracket | 3 | 200368 |

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## CaRol R with bracket for Tracpode

### EN1496 - CNB/P/11.062 - 2006/42/CE

Rescue winch compliant with **EN 1496**, with a maximum load of 150 kg.

Carol R winch 150kg also meets the requirements of hoisting winches with a maximum load of 250 kg (**Directive 2006/42/CE**).

Can be easily integrated on the tracpode, without tools.

Allows to secure an operator up to 150 kg, equipped with his tools. Can also be used for lifting materials with a capacity of 250kg.

- Rescue winch.
- Lifting material winch.
- 250 kg capacity for materials handling
- 5 mm galvanised ø cable length available in 20 m and 30 m.
- Rotation-resistant wire rope
- Can be used for work in suspension, if you use a second safety fall arrest conforming to EN 360
- The winch cable is guided by equipped pulleys with an anti-jump cable fixed on the head of tracpode.

| Model | Product Code |
|---|---|
| CaRol 20 + leg bracket + 20m cable | 280589 |
| CaRol 30 + leg bracket + 30m cable | 280599 |

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# Tracpode

Accessories: safety & rescue

## Derope with bracket for tracpode

### EN341 - EN1496

Derope is a descent device (**EN341**) with recovery winch (**EN 1496**).

The Derope descent device is a controlled speed descent evacuation system.

Can be easily integrated on the tracpode, without tools. Thanks to its conception, it permits the installation of very long cables of more than 30m.

It can be used to evacuate either one person (up to 150 kg) at heights of up to 400 meters or 2 persons (up to 225 kg) at heights of up to 200 meters, if the operator is equipped with a fall arrester.

- The braided rope is guided by pulleys equipped with an anti-jump cable fixed on the head of Tracpode



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| Model | Product Code |
|---|---|
| Derope with bracket for tracpode | 87498 |
| Rope (1m) | 50962 |

## Drill attachment

The UP range is equipped with a drill attachment for use with a battery operated drill of 14 V, 300 W.
The Derope UP descender can be used with a battery powered drill, opening up many more applications for the product.

- The drill attachment enables the fast lifting of a person over a great height in a rescue operation or vertical displacement. It is recommended for companies that work in silos, tanker vats, drains, etc.
- The Derope UP descender can be used to move rope access technicians and raise them, effortlessly, to a greater height. It is ideal for window cleaners, bill stickers and aerial installers.

# Tracpode

Accessories: safety & rescue





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## Scafor with bracket for Tracpode

### EN 1496 - 2006/42/CE

Rescue winch compliant with **EN 1496**, with a maximum load of 150 kg.

Scafor also meets the requirements of hoisting winches with a maximum load of 250 kg (**Directive 2006/42/CE**).

Can be easily integrated on the leg of Tracpode, without tools.

Allows to secure an operator up to 150 kg, equipped with his tools. Can also be used for lifting materials with a capacity of 250kg. Thanks to its pass-through cable winch technology, it permits the installation of very long cables of more than 30m.

• The Scafor cable is guided by equipped pulleys with an anti-jump cable fixed on the head of the Tracpode.

*To secure the work of an operator on a length greater than 30m, use a Stopfor fall arrester with a suitable length of rope.*

| Model | Product Code |
|---|---|
| Scafor 250kg without cable - with bracket for tracpode | 251079 |
| Galvanized wire rope - Ø 6, 5mm - 20m - equipped with M47 - for Scafor | 245899 |
| Galvanized wire rope - Ø 6, 5mm - 30m - equipped with M47 - for Scafor | 245909 |
| Galvanized wire rope - Ø 6, 5mm - 40m - equipped with M47 - for Scafor | 245919 |
| Galvanized wire rope - Ø 6, 5mm - 50m - equipped with M47 - for Scafor | 245929 |
| Galvanized wire rope - Ø 6, 5mm - 60m - equipped with M47 - for Scafor | 286929 |
| Galvanized wire rope - Ø 6, 5mm - 70m - equipped with M47 - for Scafor | 286939 |

# "Confined space" range



## Comfort
## Frequency of use
## Integrated options

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## Harness HT55 Confined Space
### EN 361



The HT55 harness can be used for confined space. It is particularly suited for use with a respiratory system which slides easily onto the belt.

Enhanced comfort is ensured by the back XPad, the mountaineering-type thigh straps, and the linkage between the shoulder straps and thigh straps by connecting buckles.

The harness is very easy to slip on as it opens fully at the front with the X-Pad preserving the harness form.

- Universal and very comfortable harness, automatic with extra comfort for long periods of work
- 1 dorsal with a big forged D anchorage to eliminate the risk of carabiner disconnection
- 1 sternal anchorage
- 1 special belt for respiratory system
- 1 comfort sub-pelvic strap
- Sliders for strap adjustment. Cannot be removed for security reasons
- 3 adjustment points
- Independent mountain leg strap High-comfort
- X-pad comfort back pad: Breathable and flexible - it gives the harness shape to make it easier to put on.
- Fall indicator in each anchorage
- Label holder



|  | S | M | XL |
|---|---|---|---|
| HT55 AE Confined space | 83902 | 83912 | 83922 |

# Pro series

## Harness HT22R

### EN361 - EN1497

Universal harness with standard buckles and rescue straps.

The HT22R is a harness specifically designed to rescue an operator working in a confined space. It is equipped with an emergency strap attached to the shoulder straps. This strap allows the operator to be raised in a perfect vertical position which facilitates the exit of the body through the manhole.

- 1 dorsal anchor point.
- 1 sternal anchorage point in textile loop.
- 1 sub-pelvic strap.
- 5 adjustment loops.

| | S | M | XL |
|---|---|---|---|
| HT22R - Standard buckles | 44952 | 44962 | 44972 |

| Comfort | |
| Frequency of use | |
| Integrated options | |

## HT9 Evacuation triangle

### EN1497

Special harness for evacuation operations, easy to install, even with a person lying on the ground.
Due to its 3 adjustment settings, the HT9 can be used with both children and adults.

- EN 1497.

| Model | Product Code |
|---|---|
| HT9 Evacuation Harness | 17622 |

# Lifeline

# Temporary lifelines

EN 795 B/C - 2012

## Tempo 2 - Temporary Lifeline

### EN795 - CEN/TS16415

Tempo 2 is a temporary lifeline, easy and quick to install when there
are two anchoring points offering sufficient resistance (28 kN). Lightweight, it
allows total freedom of horizontal movement. The Tempo 2 lifeline can be installed on the ridge
tiling of a roof or onto a metal structure.

- Synthetic fibre webbing straps, adjustable from 5 to 20 m.
- Can be used by 2 people.
- 7 metres clearance.
- Supplied with 2 AS30S webbing strap rings, 2 MR9 connectors and a shoulder bag.

| Model | Product Code |
|-------|-------------:|
| Tempo 2 kit | 206018 |
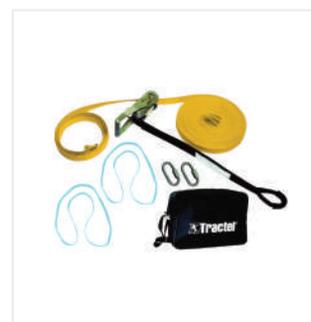
*Made in France*

## Tempo 3 - Braided Rope - Temporary Lifeline

### EN795-B - CEN/TS16415

Tempo 3 is a compact, temporary lifeline, and is the fastest, most efficient lifeline available on the market.
Using a static rope, N.G.R reinforced, and a tensioning system, the tempo 3 allows for simultaneous use by 3 users. This lifeline offers the possibility of setting up a temporary lifeline with a maximum length of 18 metres between two anchor points of sufficient strength (15 kN).

- Static rope line, N.G.R reinforced, adjustable from 5 to 18 m.
- Supplied with two AS30S webbing strap rings, 2 M10 connectors and a shoulder bag.

| Model | Product Code |
|-------|-------------:|
| Tempo III kit | 62862 |
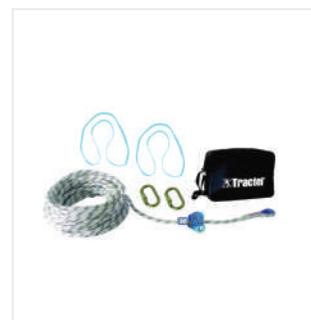
*Made in France*

# Temporary lifelines

EN 795 B/C - 2012

## Tirsafe Wire Rope Temporary Lifeline

### EN795 - CEN/TS16415

Tirsafe T3 is a temporary lifeline that is easy and quick to install when there are two anchoring points offering sufficient support (30 kN). It allows for total freedom of horizontal movement. Adjustable from 5 to 30 m.

The Tirsafe T3 temporary lifeline includes:

- 1 anchoring point with Tirsafe T3 energy shock-absorber.
- 1 tirfor T3 cable winch.
- 2 x 2 metre slings.
- The Tirsafe T3 temporary lifeline guarantees the safety of 3 people.

| Model | Description | Product Code |
|---|---|---|
| Tirsafe kit | with a 20m, 8.3 mm diameter cable | 280559 |
| Tirsafe kit | with a 30m, 8.3 mm diameter cable | 276149 |

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# Permanent lifelines

EN 795-C:2012, CEN/TS 16415:2013

Permanent lifelines are part of fall arrest systems when they are used as the anchor solutions. As an anchor solution, their certification is related to the norm EN 795 of 2012 for single user and CEN/TS 16415 of 2013 for multi users.

Permanent lifelines are designed to stop the fall of one (or more, as specified below) users and to absorb part of the energy transmitted to the supporting structure. When used as a part of a fall arrest system, the user must always wear a safety harness and a fall arrester with shock absorber limiting the impact of the fall to 600daN on his body.

Tractel offers a wide range of permanent lifelines including a rigid rail solution to suit best each application.

| | Travsafe | Travrail | Travflex 2 | Travsmart | Travspring | Travspring One |
|---|---|---|---|---|---|---|
| Intermediate anchor crossing (Comfort of use) | Excellent, away from the lifeline | Excellent, away from the lifeline | Good, away from the lifeline | Good, away from the lifeline | Manual and near to the lifeline | Manual, near to the lifeline & disconnecting from the lifeline |
| Lifeline length | Up and above 200m | | Up to 200m | | | |
| Frequency of use | Daily | | Regular | | Occasional | |
| Sliders availability | Standard, Opening, Rollsafe for overhead | Standard, Rolling/rope access, Rope access for wall | Bi-directional slider [3] | | Not available | |
| Installation type | | | | | | |
| Overhead | ☑ | ☑ | - | ☑ | - | - |
| Wall and floor | ☑ | | | | | |
| Distance between anchor[1] | 30 m | 6 m | 15 m | | | |
| Deflection of the lifeline[1] (Configuration: 5x 15m, 1 user 150kg) | 1,4 m (with bi material absorber ring 2.94 m) | 0 m (with 6m between brackets) | 3 m | 2,8 m | 2,8 m | 2,8 m |
| Force on end anchor[1] (Configuration: 5x 15m, 1 user 150kg) | High 28 kN | Low 7 kN[2] | Lowest 6 kN | Low 7 kN | Medium 10 kN | Medium 10 kN |
| Specific installation | Heavy structure | Standard structure | Lightweight structure | Standard structure | | |
| Maximum of simultaneous user | 3 x 150 kg or 5 x 100 kg | 3 x 100 kg | 2 x 150 kg or 3 x 100 kg | 3 x 150 kg or 5 x 100 kg | | |
| Main material | Stainless steel or galvanised steel | Aluminium | Stainless steel or galvanised steel | | | Galvanised steel |

[1] (depending on the specific configuration of the lifeline)

[2] (irrelevant of the number of simulatenous user with max weight of 100 kg)

[3] (switch from one side to the other side of the wire rope without disconnecting)

# Travsafe

Twin cables lifeline
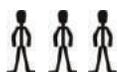




Tested to stop the fall of

3 users, 150kg

OR
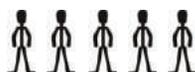
5 users, 100kg
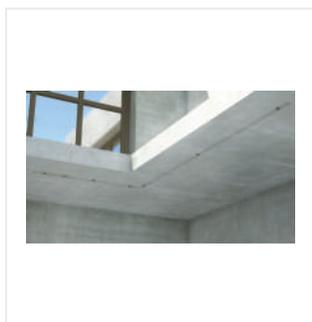


## EN795-C - CEN/TS16415

The new Travsafe lifeline is an evolution of the previous version. It complies with the European norm EN795-C and the CEN/TS16415 for multi-user. The Travsafe lifeline with its two cables is the most efficient and sophisticated lifeline on the market.

As an extension of Tractel High Capacity Range, the Travsafe lifeline is now certified for user weighing up to 150kg including all their equipment.

This lifeline is certified for a simultaneous use for a maximum of 5 users 100kg or 3 users 150kg.

Tractel has performed compatibility tests for all of its self-retracting fall arrester (EN360) and guided type fall arresters (EN353-2) rated 150kg on the Travsafe lifeline. All lanyards certified EN 355 can be used with the Travsafe lifeline.

Thanks to its specific design, the slider easily moves past the intermediate cable brackets, with no need for any manual intervention.

Two versions are now available:

- Travsafe with stainless steel shock absorber rings
- Travsafe with two-material shock absorber ring

These two Travsafe lifeline versions are designed for overhead, on wall or ground installations. The anchors can be installed on any structure or by using post interfaces. Intermediate anchors must be positioned no more than 15 meters apart.

When configured in stainless steel (anchors, wire ropes and absorber rings), the Travsafe offers the possibility to have a distance between anchors from **0.8m to 30m** in both single span and multi spans configuration.

The Travsafe is particularly well suited for long applications (over 200m). On overhead application, the Rollsafe slider ensures a smooth gliding of any fall arrester (including heavy self-retracting block) on the twin system.

For more information please contact Tractel.

# Travsmart



The Travsmart lifeline complies with the European norm EN795-C and the CEN/TS16415 for multi-user.

As an extension of Tractel High Capcity Range, the Travsmart lifeline is now certified for user weighing up to 150kg inclduing all their equipment.

This lifeline is certified for a simultaneous use for a maximum of 5 users 100kg or 3 users 150kg.

Intermediate anchors must be positioned no more than 15 meters apart.

In single span configuration (without intermediate anchor), Tractel has certified the travsmart lifeline with a maximum distance between end anchors of **30m**!

Tractel has performed compatibility tests for all of its self-retracting fall arrester (EN360) and guided type fall arresters (EN353-2) rated 150kg on the Travsmart lifeline. All lanyards certified EN 355 can be used with the Travsmart lifeline.

Travsmart is the most polyvalent lifeline of Tractel' portfolio. The Travsmart lifeline is certified for the following installation: overhead, on a wall, on an inclined surface up to 15°, on the ground or on a post.

The Travsmart lifeline advantages:

**MEETS THE USER'S NEEDS:**
- Choices of installations and uses (ergonomics).
- Automatic anchor crossing thanks to the travsmart slider.
- The user can work on either side of the lifeline without the need to disconnect (improved safety).
- Wire rope available in galvanised steel or stainless steel.

**MEETS THE INSTALLER'S NEEDS:**
- No special tools are required for the installation of the lifeline.
- Thanks to the wedge socket, the risk of the cable clamp nuts coming loose over time is fully eliminated.
- Quick and easy installation of the lifeline thanks to the design of the intermediate anchor.
- In the event of a fall, there is no need to fully dismantle the lifeline. Simply loosen the cable to remove and reinstall the failed intermediate supports (installation time reduced).

For more information please contact Tractel.



Tested to stop the fall of

3 users, 150kg

OR

5 users, 100kg

# Travsmart



Start kits and kits allow you to have the basic elements to build your lifeline.

Then add the length of cable needed for your project, as well as two end anchors.

If applicable, you should also incorporate compatible intermediate anchors and turn kits.

Don't forget your Travsmart slider.

| Model | Product Code |
|---|---|
| Kit travsmart stainless steel 150kg | 277167 |
| Start kit stainless steel | 57262 |
| Addiational meter of stainless steel wire rope | 277137 |
| travsmart slider | 251349 |

* except additional meter of cable

| Model | Product Code |
|---|---|
| kit travsmart galvanised 150kg | 277157 |
| Start kit galvanised | 57252 |
| Additional meter galvanised wire rope | 238497 |
| travsmart slider | 251349 |

* except additional meter of cable

| Model | Product Code |
|---|---|
| travsmart end anchor for ground, wall and overhead | 193897 |
| End anchor for post | 66698 |

* except additional meter of cable

| Model | Product Code |
|---|---|
| travsmart standard intermediate anchor | 193847 |
| travsmart overhead intermediate anchor | 193857 |
| travsmart standard corner kit | 193867 |
| travsmart overhead corner kit | 193877 |
| travsmart corner plate for standard corner kit on post | 193887 |
| Additional sign plate | 277127 |

* except additional meter of cable



*Made in France\**

Example:

**I would like to install a travsmart lifeline with stainless steel cable for wall application, 45m.**

I have to order :

• 1 kit travsmart stainless steel
• 1 start kit stainless steel
• 40 meters of stainless steel wire rope (start kit has already 5 m of wire rope)
• 2 travsmart end anchors for ground, wall and overhead
• 2 intermediate anchors
• 1 travsmart slider

# Travflex 2



The new Travflex 2 lifeline is an evolution of the previous version. It complies with the European norm EN795-C and the CEN/TS16415 for multi-user.

As an extension of Tractel High Capacity Range, the Travflex 2 lifeline is now certified for user weighing up to 150kg including all their equipment.
This lifeline is certified for a simultaneous use for a maximum of 3 users 100kg or 2 users 150kg.

Intermediate anchors must be positioned no more than 15 meters apart.

Tractel has performed compatibility tests for all of its self-retracting fall arrester (EN360) and guided type fall arresters (EN353-2) rated 150kg on the Travflex 2 lifeline. All lanyards certified EN 355 can be used with the Travflex 2 lifeline.

Travflex 2 is the dedicated Tractel lifeline for light structure. Combined with the universal plate, it can be installed on a large range of light structures such as steel deck, sandwich panel and standing seem.

The Travflex 2 lifeline is certified for the following installation:  on a wall, on an inclined surface up to 15° or on the ground.

The Travflex 2 lifeline advantages:

**MEETS THE USER'S NEEDS:**
• Choices of installations and uses (ergonomics).
• Automatic anchor crossing thanks to the travsmart slider.
• The user can work on either side of the lifeline without the need to disconnect (improved safety).
• Wire rope available in galvanized steel or stainless steel.

**MEETS THE INSTALLER'S NEEDS:**
• No special tools are required for the installation of the lifeline.
• Thanks to the wedge socket, the risk of the cable clamp nuts coming loose over time is fully eliminated.
• Quick and easy installation of the lifeline thanks to the design of the intermediate anchor.
• In the event of a fall, there is no need to fully dismantle the lifeline. Simply loosen the cable to remove and reinstall the failed intermediate supports (installation time reduced).
The kits Travflex 2 include two end anchors repectively in stainless steel or galvanised steel.

For more information please contact Tractel.



Tested to stop the fall of
2 users, 150kg
OR
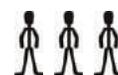
3 users, 100kg

# Travflex 2
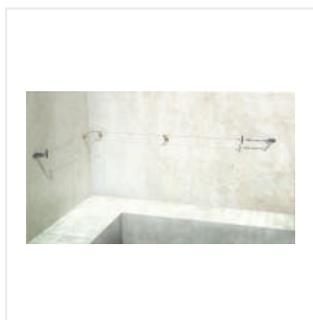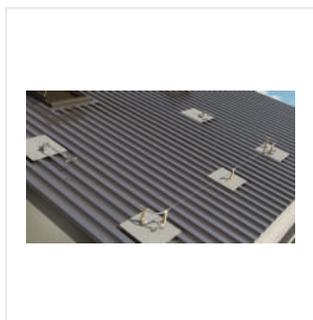
Start kits and kits allow you to have the basic elements to build your lifeline.

Then add the length of cable needed for your project.

If applicable, you should also incorporate compatible intermediate and turn anchors.

Don't forget your slider.

| Model | Product Code |
|---|---:|
| Kit travflex™ 2 stainless steel | 293639 |
| Start kit stainless steel | 57262 |
| Additional meter of stainless steel wire rope | 277137 |
| Travsmart / Travflex II slider | 251349 |

* except additional meter of cable

| Model | Product Code |
|---|---:|
| Kit travflex™ 2 galva | 293629 |
| Start kit galvanised 5M | 57252 |
| Additional meter galvanised wire rope | 238497 |
| Travsmart / Travflex II slider | 251349 |

* except additional meter of cable

| Model | Product Code |
|---|---:|
| Intermediate anchor | 100398 |
| Curve kit stainless steel for installation on concrete | 100628 |
| Curve kit stainless steel for installation on plate | 100418 |
| Curve kit galvanised for installation on concrete | 100618 |
| Curve kit galvanised for installation on plate | 100408 |
| Additional sign plate | 277127 |
| Riveter machine | 100568 |

* except additional meter of cable

Exemple:

**I wish to install a Travflex 2 lifeline with galvanized cable for application on rigid structure, 45 m.**

I have to order :

- 1 kit Travflex 2 galva
- 1 start kit galva
- 40 meters of galva cable (start kit has already 5 m of cable)
- 2 Intermediate anchor
- 1 slider

*Made in France\**

# Travflex 2

Universal plate



## Universal mounting plate for Travflex 2 on light structures

The universal plate is designed to be installed on light structures for our Travflex 2 lifeline and ringflex anchor point.

There are two versions availabe, depending on the intended use:

• Plate for extremity & intermediate bracket or anchor point.
• Plate for curved bracket.

The plate can be mounted on a wide range of roofs:

• Metal sheet roofing.
• Sandwich panel.
• Aluminium standing seam.

Depending on the application, the plate is supplied with a set of 4 clamps or a set of 12 rivets.
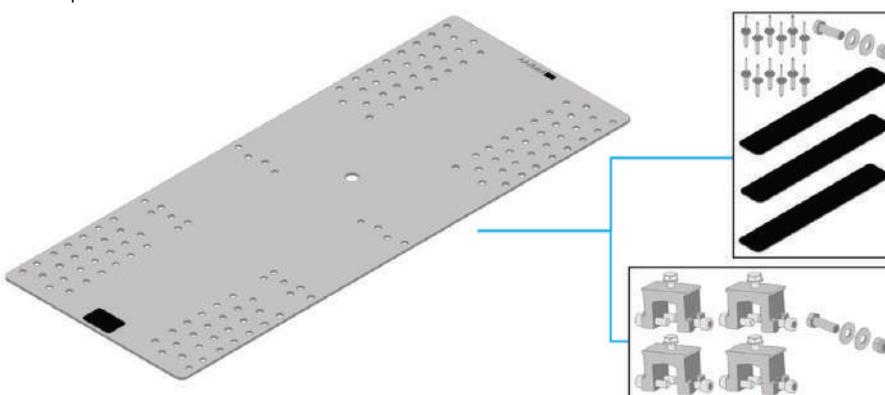


| Model | Product Code |
|---|---|
| Extremity & intermediate universal plate in stainless steel | 206888 |
| Extremity & intermediate universal plate in galvanized steel | 207788 |
| Curve universal plate in stainless steel | 206878 |

*Made in France*

| Model | Product Code |
|---|---|
| Kit 4 clamps + 1 bolt M16 | 232577 |
| Kit 12 rivets + rubber sealing bands + 1 bolt M16 | 232587 |

### Delivery

Every universal plate is supplied with the installation manual

Both the 4 clamp kit and the 12 rivet kit are delivered with 1x screw HM16, 2x M16 washers, 1x M16 locknut.

# Travspring
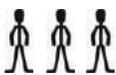




Tested to stop the fall of

3 users, 150kg

OR
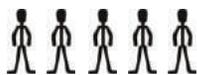


5 users, 100kg





The Travspring lifeline complies with the European norm EN795-C and the CEN/TS16415 for multi-user.

As an extension of Tractel High Capcity Range, the Travspring lifeline is now certified for user weighing up to 150kg inclduing all their equipment.
This lifeline is certified for a simultaneous use for a maximum of 5 users 100kg or 3 users 150kg.

When configured with one INRS absorber, intermediate anchors can be positioned from **1.8 to 28.5m.** In a configuration with 2 INRS absorbers, intermediates must be positioned no more than 15 meters apart.
In single span configuration (without intermediate anchor), Tractel has certified the Travspring lifeline with a maximum distance between end anchors of **30m!**

Tractel has performed compatibility tests for all of its self-retracting fall arrester (EN360) and guided type fall arresters (EN353-2) rated 150kg on the Travspring lifeline. All lanyards certified EN 355 can be used with the Travspring lifeline.

Travspring is a simple yet engineered solution. It is designed to be proximity lifeline as the intermediate anchor must be crossed manually.
The Travspring lifeline is certified for the following installation: on a wall, on an inclined surface up to 15°, on the ground or on a post. In addition, in a single span configuration, Travspring can be installed overhead.
The Travspring lifeline advantages:

**MEETS THE USER'S NEEDS:**
- Proximity lifeline
- Choices of installations and uses (ergonomics).
- The user can work on either side of the lifeline without the need to disconnect (improved safety).
- Wire rope available in galvanised steel or stainless steel.

**MEETS THE INSTALLER'S NEEDS:**
- No special tools are required for the installation of the lifeline.
- Thanks to the wedge socket, the risk of the cable clamp nuts coming loose over time is fully eliminated.
- Quick and easy installation of the lifeline thanks to the design of the intermediate anchor.
- In the event of a fall, there is no need to fully dismantle the lifeline. Simply loosen the cable to remove and reinstall the failed intermediate supports (installation time reduced).

For more information please contact Tractel.

# Travspring

Start kits and kits allow you to have the basic elements to build your lifeline.

Then add the length of cable needed for your project.

If applicable, you should also incorporate compatible intermediate and turn anchors.

| Model | Product Code |
|---|---|
| Kit travspring™ stainless steel 150kg | 276977 |
| Start kit stainless steel | 57262 |
| Addiational meter of stainless steel wire rope | 277137 |

* sauf mètre de câble additionnel

| Model | Product Code |
|---|---|
| Kit travspring™ galva 150kg | 276967 |
| Start kit galvanised | 57252 |
| Additional meter galvanised wire rope | 238497 |

* sauf mètre de câble additionnel

| Model | Product Code |
|---|---|
| travspring™ end anchor ground and wall | 66848 |
| End anchor for post | 66698 |
| travspring™ intermediate anchor | 66868 |
| travspring™ corner kit | 66878 |
| travspring™ corner plate | 66998 |
| Additional sign plate | 277127 |

Exemple:

**I would like to install a travspring™ lifeline with galvanized cable for application on post, 122m, and a total of two INRS shock absorbers.**

I have to order :

- 1 kit travspring™ galva
- 1 start kit galva
- 117 meters of galva cable (start kit have already 5 m of cable)
- 2 End anchor for post
- 8 intermediate anchor
- 1 INRS absorber
- 1 Additional sign plate
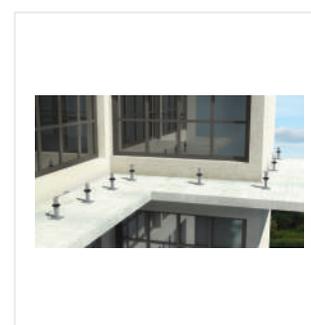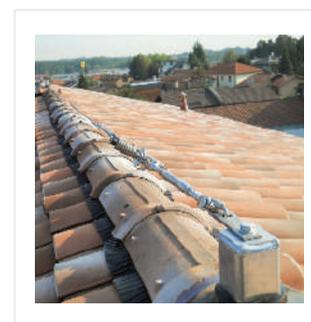




*Made in France\**

## Potelets galvanisés - Section 70x70 mm

| Model | Product Code |
|---|---|
| with pulley 500mm for travspring™ | 68478 |
| Counter plate for square base post 250mm and 500mm | 130995 |
| Counter plate for square base post 750mm | 133295 |

*Made in France\**

# Travspring one
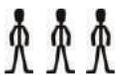
Tested to stop the fall of

3 users, 150kg

OR

5 users, 100kg

The new Travspring One lifeline is a derivative of the Travspring lifeline. It complies with the European norm EN792-C:2012 and the CEN/TS16415:2013 for multi-user.

It is designed as a simple and inexpensive lifeline for occasional use. The system requires a double lifeline to pass the intermediate supports and curves.

**150kg High Capacity Range**

As an extension of Tractel High Capcity Range, the Travspring One lifeline is now certified for user weighing up to 150kg including all their equipment. This lifeline is certified for a simultaneous use for a maximum of 5 users 100kg or 3 users 150kg. In order to comply with the 150 kg classification, the harness and connection (lifelines, automatic fall arrest devices or guided fall arresters with flexible anchor line) must all have a 150 kg classification.

**Specifications**

Intermediate anchors must be positioned no more than 15 meters apart. In single span configuration (without intermediate anchor), Tractel has certified the Travspring lifeline with a maximum distance between end anchors of 30 meter.

The Travspring lifeline is certified for the following installation: on a wall, on an inclined surface up to 15°, on the ground or on a post. In addition, in a single span configuration, travspring™ can be installed overhead.

The system is supplied with a visual tension indicator and an in-line energy absorber.

Tractel has performed compatibility tests for all of its self-retracting fall arrester (EN360) and guided type fall arresters (EN353-2) rated 150kg on the Travspring One lifeline. All lanyards certified EN 355 can be used with the Travspring One lifeline.

**Benefits**

- Thanks to the wedge socket, the risk of the cable clamp nuts coming loose over time is fully eliminated.
- No special tools are required for the installation of the lifeline.
- Few components to install.

# Travspring one

Start kits and kits allow you to have the basic elements to build your lifeline.

Then add the length of cable needed for your project.

If applicable, you should also incorporate compatible intermediate and turn anchors.

| Model | Product Code |
|---|---|
| Kit travspring™ One galva 150kg | 277177 |
| Start kit galvanised | 57252 |
| Additional meter galvanised wire rope | 238497 |

| Model | Product Code |
|---|---|
| travspring™ end anchor ground and wall | 66848 |
| travspring™ One end anchor for post | 87368 |
| travspring™ One intermediate anchor for post | 113297 |
| travspring™ One intermediate anchor for wall | 113247 |
| travspring™ corner kit | 66878 |
| travspring™ corner plate | 66998 |
| Additional sign plate | 277127 |

Exemple:

**I would like to install a travspring™ lifeline with galvanized cable, 122m.**

I have to order :

- 1 kit travspring™ One galva
- 1 start kit galva
- 117 meters of galva cable (start kit have already 5 m of cable)
- 2 End anchors
- 8 intermediate anchors

## Galvanised post

- Interface posts for the end or intermediate anchors, including curves for the travsmart, travspring™ or travspring™ one lifelines.
- 70x70 mm cross-section, made of galvanised steel.

| Model | Product Code |
|---|---|
| with pulley 500mm for travspring™ | 68478 |
| Counter plate for square base post 250mm and 500mm | 130995 |
| Counter plate for square base post 750mm | 133295 |

# Stopcable 150 kg

EN 353-1 - EN 353-2

## EN 353-1 - EN 353-2 - CNB/P/11.062

The use of a ladder to gain access to a high level workstation can pose an element of risk. The purpose of the Stopcable S system is to ensure the safety of personnel throughout their ascent. The Stopcable S vertical lifeline is a mobile anchoring device to enable a person to move on a vertical axis in perfect safety and without having to disconnect themselves. It consists of a fixed point and individual mobile equipment. The Stopcable S vertical lifeline was designed, created and tested to comply with the requirements of the EN353-1 and EN 353-2 standards.

| Model | Product Code |
|---|---|
| Start kit stopcable™ stainless steel - 3m | 281737 |
| 1m of cable stainless steel | 281757 |
| Start kit stopcable™ galva - 3m | 281747 |
| 1m of cable galva | 281767 |

*Fabriqué en France*

| Model | Product Code |
|---|---|
| Slider stopcable™ S 150kg | 72272 |
| counterweight | 129445 |
| Galvanised anchor | 17872 |
| Stainless steel anchor | 32902 |
| Kit of anchor for side bar | 87378 |
| diameter 27 mm | 18132 |
| diameter 34 mm | 18142 |
| tensioning device | 261809 |
| cable guide | 108857 |
| Energy shock-absorber | 90049 |
| sign plate | 146465 |

## See our harnesses, especially dedicated and patented for being used with FABA ladders

# Permanent safety ladders

## FABA system
### EN353-1

The FABA range is a fall arrest system on a rail for vertical movements. The vertical rails are separately available for mounting on an existing ladder or can be supplied with an integrated ladder. The FABA systems include accessories such as rest platforms or access blocking systems. They are built to be adapted to all types of supports. These products can be supplied in galvanized steel, stainless steel or aluminium.

FABA ladders are complete systems in which all components are aligned with each other. The rigid rail allows the user to better control the movement of the slider.Unlike cable systems, several people can climb up the ladder one after the other (with sufficient spacing). Ideal for use over long distances.

The products of the FABA range have been tested to meet the requirements of the European EN 353-1 standard. Areas of application: along towers, chimneys, tanks, bridge piers, masts, antenna supports, access to mines, pits, sludge lagoons, cat walks, dams, tank lorries, cranes, roof terraces, waste water systems, etc.

For more information please contact Tractel.

See our harnesses, especially dedicated and patented for being used with FABA ladders :



HT120



HT Easyclimb

# FABA

## FABA System AL2

The FABA AL2 System has been on the market since 2000. It is based on the principle of the FABA A12 System and is suitable for material in anodised aluminum. The design of the safety rail and sliders is asymmetrical and guarantees sliders are always used in the right direction.

- Dimensions rail profile (H-shaped): 48 x 65 x 3-6mm
- Material: Anodised aluminum
- Design: Ladder with a central upright or with additional side uprights or just rail
- Spacing in between stops: 70 mm
- Spacing in between rungs: 280 mm
- Rungs: Straight, inserted and set on the back of the rail
- Ladder width: 414 mm
- Primary lengths: 5600 and 2800 mm
- Adjustment lengths: 560, 840, 1120, 1400, 1680, 1960, 2240, 2520, 3080, 3360, 3640, 3920, 4200, 4480, 4760, 5040 and 5320 mm
- Maximum distance between fixings: 1680 mm for the ladder with central upright, 2520 mm suitable for ladder with side uprights or the rail.

For more information please contact Tractel® .
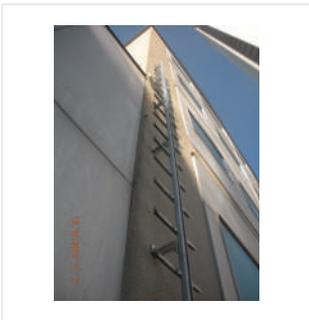
## FABA System A12

The FABA A12 System has been on the market since 1995. It is a logical evolution of the FABA A11 System but a lighter and smaller version. The design of the safety rail and carriages is asymmetrical and guarantees that the carriages are always used in the right direction.

- Dimensions rail profile: 48 x 32 x 3 mm
- Material: Hot-dipped galvanised steel or stainless steel (1.4571)
- Design: Ladder with central upright or just rail
- Spacing in between stops: 40 mm
- Spacing in between rungs: 280 mm
- Rungs: Straight and welded on the back of the rail
- Width of the ladder: 380 mm
- Primary lengths: 5600 and 2800 mm
- Adjustment lengths: 560, 840, 1120, 1400, 1680, 1960, 2240, 2520, 3080, 3360, 3640, 3920, 4200, 4480, 4760, 5040 and 5320 mm
- Maximum distance between fixings: 1400 mm for the ladder and 1960 mm for the rail.

# Temporary safety ladders
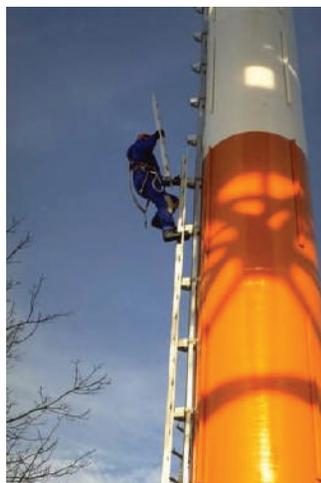
## FABA System AL2 MOBIL

**The FABA AL2 Mobil system**
Safety ladder for temporary use on various structure types. The fasteners that accommodate the ladder are permanently fixed. In the standard version, wall and post clamp brackets are supplied for the posts.

**Features FABA AL2 Mobil:**
- Dimensions rail profil (H-shaped): 48 x 65 x 3-6mm
- Material: Anodised aluminum
- Design: Ladder with a central upright or with additional side upright
- Spacing in beetween stops: 70 mm
- Spacing in between rungs: 280 mm
- Rungs: Straight, inserted and set on the back of the rail
- Ladder width: 414 mm

**Delivery Tractel:**
- Supplied in managable lengths of: 2800, 2520, 2240, 1960 and 1680 mm

## FABA System AL2 MOBIL-F

**The FABA AL2 MOBIL-F system**
Designed for access to posts or masts with a circular cross-section. The fasteners are pre-installed on the ladder sections and provided with fastening straps to enable the ladder sections to be tightened and positioned directly on the post or mast.

**Features FABA AL2 MOBIL-F:**
- Dimensions rail profil (H-shaped): 48 x 65 x 3-6mm
- Material: Anodised aluminum
- Design: Ladder with a central upright or with additional side upright
- Spacing in beetween stops: 70 mm
- Spacing in between rungs: 280 mm
- Rungs: Straight, inserted and set on the back of the rail
- Ladder width: 414 mm

**Delivery Tractel:**
- Supplied in managable lengths of: 1960 and 1680 mm
- Maximum distance between fixings: 1680 mm
- Characteristics of connectors: Automatic release of the upper end stops when fitting the next Ladder section.

# FABA

## FABA System A11

Introduced in 1965, the FABA A11 System is the precursor to the vertical access safety devices. The safety rail and slider designs are symmetrical. The slider can be inserted in either direction in the safety rail.

- Rail profile dimension: 68 x 56 x 2.8mm
- Material: Hot-dipped galvanised steel or stainless steel (1.4571)
- 3 versions of the FABA A11 exist:
  - Ladder with central rail,
  - Ladder with side bars,
  - Central rail or just a rail.
- Distance catching stops: 140 mm
- Distance between rungs: 280 mm
- Rungs: Inclined forward and welded on the back of the rail.
- Ladder width: 408 mm
- Primary Length: 2800 mm
- Maximum distance between fixings: 1960 mm

FABA A11 is particularly well suited for installation on round manhole. The bent rungs (20°) help to reduce the required space for the installation of the ladder and offer more place to the user.

On request, customer made solutions can be designed to fit perfectly to the installation site.

For more information please contact Tractel.

## FABA Klassik 150kg

### FABA System A11

We are introducing the new slider FABA Klassik 150kg. It is an upgrade to the actual FABA Klassik. This new version conforms to the latest applicable standard EN 353-1 and to the European Regulation 2016/425 and is certified for a user weighing up to 150kg.

This slider is a part of the process of upgrading our range of PPE fall protection products and an extension of the FABA range.

The slider is certified and compatible with the rail and ladder of FABA A11 galvanized steel or stainless steel its related accessories.

This rigid vertical fall arrester is tested to stop the fall of one operator, with its tools and equipment, weighing up to 150 kg. It enables several operators to work in safety (each operator having his own FABA Klassik slider) if there are no more than two operators within 10m and at least 3m between them.

In order to provide protection for the user up to the maximum allowed weight, all the products of the system must be HIGH CAPACITY RANGE 150 KG (Please note: The component with the lowest capacity always determines the maximum capacity of the entire fall arrest system.)
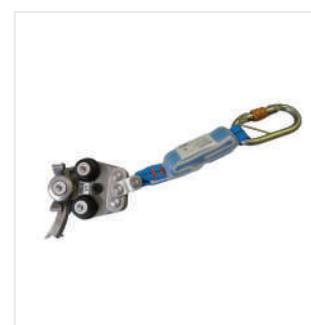
| Model | Product Code |
|---|---|
| FABA Klassik M10 | 514208 |
| FABA Klassik - M23 | 514218 |

# Tractelift
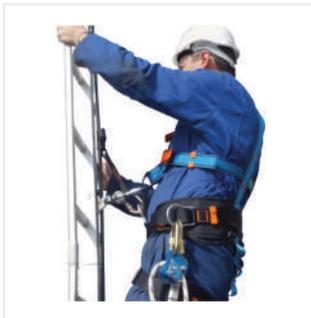
The Tractelift is a climb assist system that relieves the weight of single or multiple climbers while ascending and descending the wind turbine ladder. The Tractelift gives traction relief in an adjustable pulling force up to 90 lbs (40 kg).

The Tractelift is easy to install, offers a continuous run rope loop and can fit onto virtually any kind of vertical ladder. With an adjustable clutch allowing the user to choose their own pulling force, this feature gives the Tractelift more advantages over the competition. The Tractelift can be fitted with a fixed or detachable motor, depending on the user's preference.

**THE Tractelift IS NOT FALL ARRESTER EQUIPMENT.**
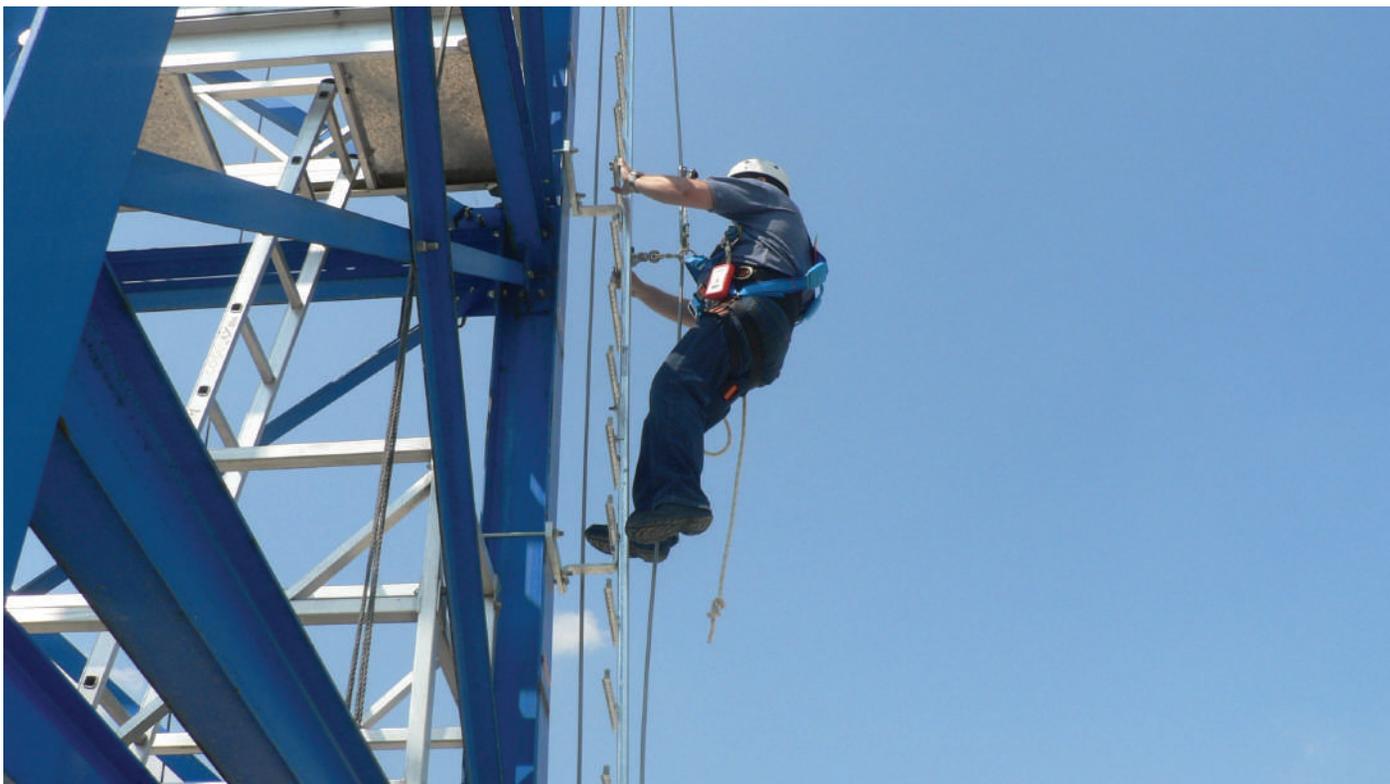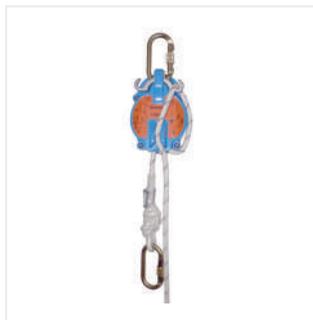
# Derope



*Made in France*

## Derope STD

### EN341

The Derope descent device is a controlled speed descent evacuation system. It can be used to evacuate either one person (up to 150 kg) at heights of up to 400 meters or 2 persons (up to 225 kg) at heights of up to 200 meters.

Standard Derope allows multiple descents, designed for downward evacuation. Descent only.

- Height 400m for max 150 kg
- Height 200m for max 225 kg

| Model | Product Code |
|-------|-------------:|
| Derope STD | 279499 |
| Rope (1m) | 50962 |



*Made in France*

## Derope UPA

### EN341 - EN1496

The derope descent device is a controlled speed descent evacuation system. It can be used to evacuate either one person (up to 150 kg) at heights of up to 400 meters or 2 persons (up to 225 kg) at heights of up to 200 meters.

The Derope UPA is equipped with a recovery winch

- Height 400m for max 150 kg
- Height 200m for max 225 kg

| Model | Product Code |
|-------|-------------:|
| Derope UPA | 279509 |
| Rope (1m) | 50962 |