



# Travsafe Essential

Presentation

# Introduction

The **Travsafe Essential** lifeline is an innovative addition to the Travsafe range, designed to ensure safety when working at height.

Fully compatible with **Travsafe** sliders and anchor points, for easy integration into existing systems.

It uses a different cable, that enables lesser effort on anchor points.

The **Travsafe Essential** lifeline enables users and installers to select an alternative effort / deflection compromise.

Available only in straight lines, with no bends, simplifying installation and use.

It complies with the European norm **EN795-C** and the **CEN/TS16415** for multi-user.

The **Travsafe Essential** lifeline can secure up to 5 users, with a maximum weight of 100 kg each. Or 3 users, with a maximum weight of 150 kg each (including tools).



## Travsafe Essential

High Capacity Range 150 kg



### HIGH CAPACITY RANGE 150 kg PPE

has been tested to withstand a fall of 150 kg, corresponding to the weight of a person equipped with his or her gear.  
They are identified on the packaging by the following logo:

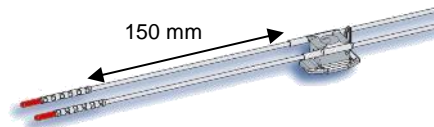
### Caution:

The component of a safety line with the lowest permissible mass always determines the maximum strength of the assembly. It is therefore essential to ensure that the other components of the system (harness, anchorage, etc.) can support a mass equivalent to that of 3 users weighing up to 150 kg each. Otherwise, the system will only be able to support a mass equivalent to that of 5 users each weighing up to 100 kg.

## Main characteristics

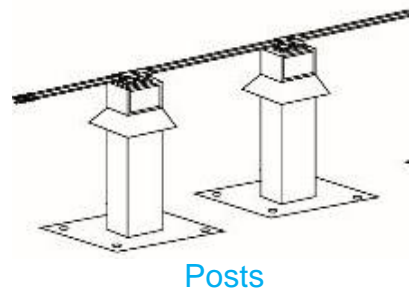
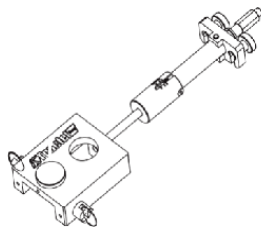
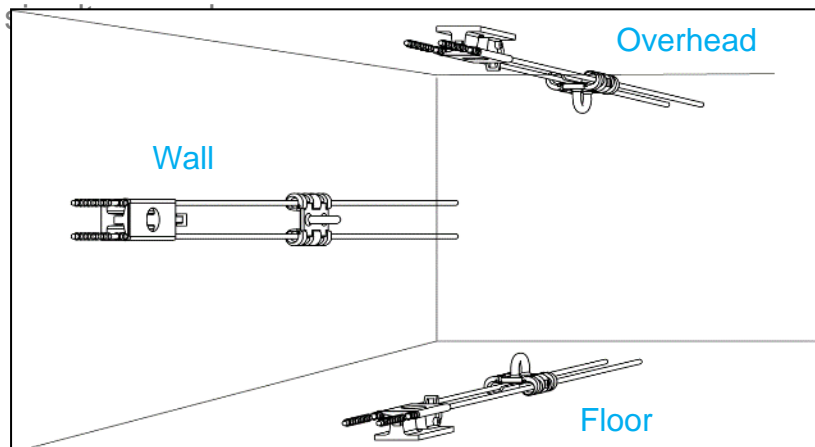
### Technical information

- Spans between 1,50m and 15m for **stainless steel or galvanized** version (bracket, wire rope and absorber)
- *Bracket/ anchor* made from stainless steel
- *Absorber* made from brass and stainless steel (bi-material)
- *Wire rope* made from galvanised or stainless steel
- **Travsafe Essential** lifeline can be adapted for different structures :
  - **Standard and Heavy structure** = Bi-material absorber ring (reduce the force on the anchors)
  - **Every 45m**, additional rings (4) must be installed to ensure the tension in the cables



# Application

- **Travsafe Essential** can be used up to 5 users (100kg each) or 3 users (150kg each)
- **Travsafe Essential** can be installed on:
  - Wall
  - Floor
  - Overhead
  - On post (same as Travsafe, code: 104565, H = 500mm)
- Quick installation with Tractel tools (same as Travsafe)
  - Wire rope tensioner & crimping wrench
  - Require an installation training by Tractel
  - Tools available to sell or to rent (from Tractel partners or installer)



## Travsafe Essential welcomes the same sliders\* as Travsafe

### Standard slider



- Entry and exit at the end of the lifeline only
- 316L stainless steel

### Opening slider



- Entry and exit at any point of the lifeline
- Safety feature to block the exit while used
- 316L stainless steel

### Rollsafe slider



- Entry and exit at the end of the lifeline
- Special slider for a lifeline installed overhead, compatible only with stainless anchor
- 316L stainless steel

\* Other options are also possible. To refer to Annexe 1

## Travsafe Essential main features

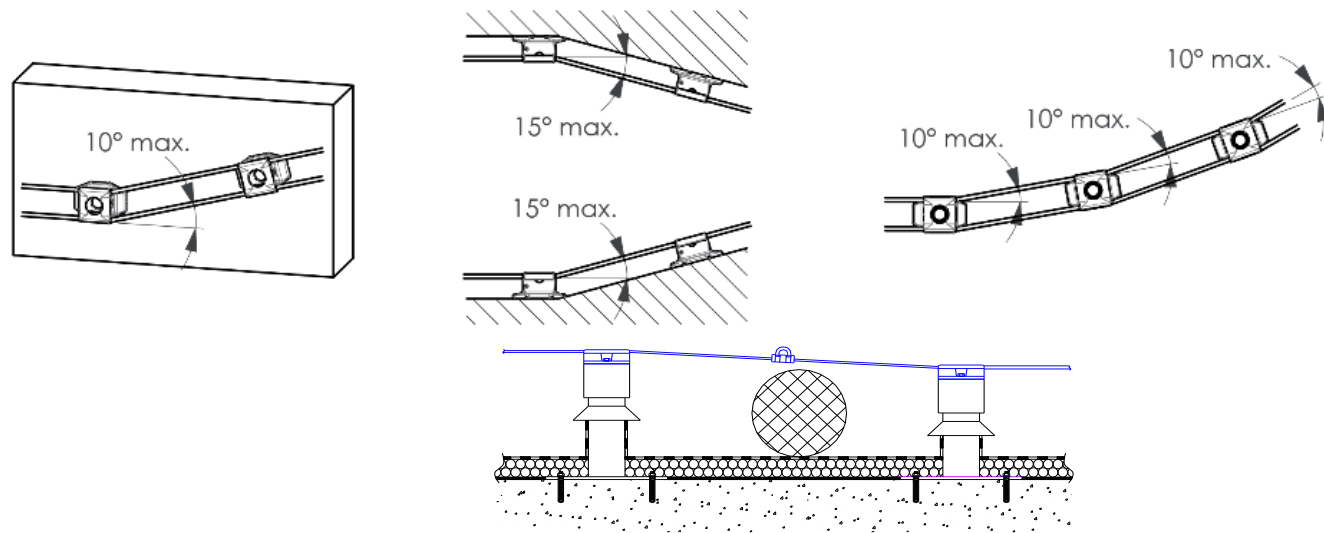
- **Travsafe Essential** offers the best solutions for long, straight lifeline, with no bends:
  - Twin cable system
  - Several combinations can be done depending the environment
  - Repair possible on isolated section
  - Installation in factories with work at height (airplane, steel...)
  - Comfort of use with the double cable system
  - Can be installed in corrosive environments
  - Large choice of sliders
- **Travsafe Essential** is certified according to EN795-C:2012 for 1 user and according to CEN/TS 16415 for multi-users :
  - Up to 5 users of 100 kg each or 3 users of 150 kg each
  - Same sliders as Travsafe and also M53
  - Same robustness as Travsafe
  - Versatile : adapts to different structures

Only downsides :

- Posts every 15 m (same as Galvanized cable Travsafe but less than stainless steel Travsafe (30m))
- More deflection, **but less effort on the structure**

# Configurations

## Maximum inclination and angle



**Warning :** no bends on Travsafe Essential



# Travsafe Essential

## The kits

- 1 kit allowing the traceability thanks to a QR code which leads to Tracinfo platform.

Configuration of the new **Travsafe Essential** lifeline:

Galvanised steel cable	Stainless steel cable
<ul style="list-style-type: none"><li>• Kit Travsafe Essential : stainless steel anchors and bi-material rings for galvanised wire ropes</li><li>• 2 x Start kit ½ lifeline 1,5 m Travsafe Essential galvanised</li></ul>	<ul style="list-style-type: none"><li>• Kit Travsafe Essential : stainless steel anchors and bi-material rings for stainless steel wire ropes</li><li>• 2 x Start kit ½ lifeline 1,5 m Travsafe Essential stainless steel</li></ul>

The composition of the Kit Travsafe Essential (galvanised or stainless steel):

- Sign plate
- 6 red caps
- 2 end anchors
- 4 absorber rings
- 4 stop rings
- 1 user manual (EN/FR/DE/NL/ES/IT/PT/DK/PL)

The composition of the Start kit ½ lifeline 1,5 m Travsafe Essential (galvanised or stainless steel):

- 3 m of cable

## Comparison Travsafe – Travsafe Essential

*What is the difference between these 2 lifelines?*

Travsafe Essential	Travsafe
<ul style="list-style-type: none"><li>Minimum 1,5 m and maximum 15 m span for stainless steel or galvanized version</li></ul>	<ul style="list-style-type: none"><li>Minimum 0,8 m and maximum 30 m span for full stainless steel version</li><li>Minimum 5 m and maximum 15 m span for galvanized version</li></ul>
Distance between <ul style="list-style-type: none"><li>Absorber rings in bi-material : 150 mm</li></ul>	Distance between <ul style="list-style-type: none"><li>Absorber rings in stainless steel : 25 mm</li><li>Absorber rings in bi-material : 500 mm</li></ul>
Multi users certified: <ul style="list-style-type: none"><li>3 users 150 kg each</li><li>5 users 100 kg each</li></ul>	Multi users certified: <ul style="list-style-type: none"><li>3 users 150 kg each</li><li>5 users 100 kg each</li></ul>
Maximum dynamic load: <ul style="list-style-type: none"><li>33 kN</li></ul>	Maximum dynamic load: <ul style="list-style-type: none"><li>43 kN (with stainless steel absorber)</li><li>21 kN (with bi-material absorbers)</li></ul>
Straight line only, with no bends	Bends available

# How to order a Travsafe Essential lifeline ?

## Practical example:

I need Travsafe Essential with stainless steel anchors and wire ropes and bi-material rings for overhead application.  
The total length would be 20 m. I need it for 2 users 100 kg each.

*What should I order?*

- **298117** Start kit ½ LL 1,5m Travsafe Essential stainless steel  
Needed quantity: 2
- **298147** Kit Travsafe Essential with stainless steel anchors and bi-material rings for stainless steel wire ropes  
Needed quantity: 1
- **298137** 1M Travsafe Essential lifeline stainless steel wire rope  
Needed quantity: 37
- **126435** Stainless steel intermediate anchor  
Needed quantity: 1
- **251649** Rollsafe slider  
Needed quantity : 2





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### Bill of Materials :

N°	Code	Designation	Quantity
1	298117	Start kit 1/2 LL 1,5m Travsafes Essential stainless steel	2
2	298147	Kit Travsafes Essential stainless steel anchors bi-material rings stainless steel	1
3	298137	1M Travsafes Essential lifeline stainless steel wire rope	37
4	126435	Stainless steel intermediate anchor	1
5	251649	Rollsafe slider	2

### Lifeline calculation note

### Input parameters for calculation :

#### TRAVSAFE ESSENTIAL SS2R

Total length :	20,00 m	Wire rope :	Stainless	Diameter	8,25 mm
Maximal distance between 2 brackets :	10,00 m	Type of absorber :	Bi material ring		
Maximum number of simultaneous users :	2 x 150 kg	Quantity of absorbers :	2		
Pre-tension :	400 kg	Fall arrester :	Compatible with the lifeline		



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### Drawing (Page 1) :



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### Calculation results (Page 1) :

Section #	Span #	Component #	Property	Type	Detail	Value	Unit
01	001	A01	Force	Anchorage	Extremity	1820	daN
		L001	Length	Spacing		10,00	m
		F001	Deflection	Spacing		1,28	m
	002	A02	Force	Anchorage	Intermediate	600	daN
		L002	Length	Spacing		10,00	m
		F002	Deflection	Spacing		1,28	m
		A03	Force	Anchorage	Extremity	1818	daN

20 m lifeline with 1 intermediate anchor for 2 users 100 kg

Lifeline	Travsafe stainless steel absorbers version	Travsafe bi-material absorbers version	Travsafe Essential
Force at the ends	3710 daN	1301 daN	1820 daN
Deflexion	0,82 m	2,0 m	1,28 m

# Q&A : Questions & Answers

# Travsafe Essential - FAQ

## Installation questions

### ❑ **What are the available cables for Travsafe Essential?**

=> There are two multistrand cables versions: stainless steel and galvanized cables

### ❑ **What are the available rings?**

=> We propose the bi-material rings

### ❑ **Is it possible to use intermediate tensioning eg. every 50-60 m ?**

=> Yes, it is possible

### ❑ **Can it be installed as overhead lifeline?**

=> Yes, however deflection must be considered for each application eg in case of low working height

### ❑ **What is the capacity of the Travsafe Essential ?**

=> Travsafe Essential can be used simultaneous by 5 users of max. 100 kg each, or by 3 users of max. 150 kg each (weight including tools).

# Travsafe Essential - FAQ

Frequently asked questions and answers

## • How can I check the conformity of Travsafe Essential ?

=> Every documentation is available on Tracinfo, when scanning the QR Code on the product: certificate of conformity; installation, operating and maintenance manual; technical data sheet.

## • What is the maximum length of a lifeline?

=> It is suggested to limit the length to 200m, but there is no limitation.

On the practical side, if 1 lifeline of 1km is installed, and a fall happens, the entire lifeline cannot be used before repairs and commissioning are done. If instead, 5 lifelines were installed, in the event of a fall, only 1 lifeline would be out of order.

## • How often should I perform the safety inspection of the lifeline?

=> A visual control must be performed before each use of the lifeline.

The inspection must be performed once a year according to the annual safety inspection sheet in the installation manual.

## • What kind of post do we offer?

=> We offer a standard post for Travsafe Essential in galvanized steel, with a height of 500 mm and a square base.



# Travsafe Essential - FAQ

Frequently asked questions and answers

## • Can we use fall arrest lanyard from another manufacturer?

⇒ Any lanyard complying with EN355 can be used

## • Can we use any self-retracting fall arrest device ?

⇒ The standard EN795:2012 specifies that the manufacturer is required to explicitly states which fall arrester is tested together with the specific lifeline.

Travsafe Essential lifelines are a component of a horizontal fall arrest system that must comply with **EN363**.

They can be used in conjunction with:

1. Fall arrest harnesses compliant with **EN361**.
2. Connectors compliant with **EN362** connected to the mobile anchor point which are Travsafe Essential sliders depending on the type of lifeline.
3. Lanyards LD, LDF LS LSD LSE compliant with **EN354**.

Fall arresters specially tested for use on these lifelines:

- Fall arresters blocfor : B1.8A ESD - B1.8B ESD - B5 ESD - B6 ESD - B10 ESD compliant with **EN360**
- Fall arresters stopfor K; stopfor B compliant with **EN353-2**
- Fall arresters lanyard absorber LDA - LDAD - LSA - LSAD LSEA compliant with **EN355**.

**Any other combination is prohibited.**



Travsafe Essential is compatible with all Travsafe sliders (Standard, Open, Rollsafe), as well as with an M53 lanyard (except for overhead applications).

M53 should be used with fork or double connection lanyards for the passage of intermediate anchors.

This product is available on request, in several configurations.

# Travsafe Essential

