

The Travspring™ One single-cable system is a proximity and sporadic use lifeline. It requires a double lanyard to cross the intermediate and corner anchors.

The Travspring™ One is a permanent horizontal lifeline system that is easy to install and can allow up to five users with a maximum weight of 100kg or 3 users with a maximum weight of 150kg. To be compliant with the 150kg rating, the harness and the connection (lanyards, retractable fall arresters or guided type fall arresters including a flexible anchor line) must all be rated 150kg. The system comes with a visual tension indicator and an in-line energy absorber.

#### BENEFITS

- Permanently installed
- The system length is unlimited and can go around corners
- Maximum spacing between anchor points is 15 m
- Maximum distance between end anchor for single span is 30m.
- Up to 5 users on one system weighing 100kg each.
- Up to 3 users on one system weighing 150kg each.
- Easy to install with common tools

#### FEATURES

- Simple solution
- Ideal for sporadic use of the lifeline
- Minimalist solution to secure an area
- Limited number of components
- The system can be secured to walls, on ground and on posts
- Lightweight components
- Can be used for fall arrest or fall restraint
- Installation with standard market tools only

#### APPLICATIONS

- Building maintenance (rooftops without guardrails or parapets)
- Bridges and viaducts
- Oil and gas installations
- Distribution facilities
- Industrial plants
- Private housing

#### APPLICABLE STANDARDS

- EN 795:2012 Personal fall protection equipment - Anchor devices
- CEN/TS 16415:2013 Recommendations for anchor devices for use by more than one person simultaneously
- EN 360 Retractable type fall arresters
- EN 353-2 Guided type fall arresters including a flexible anchor line

- EN 355 Energy absorbers and shock absorbing lanyards
- EN 361 Full body harnesses

#### COMPATIBLE PERSONAL FALL PROTECTION EQUIPMENT ALSO REQUIRED

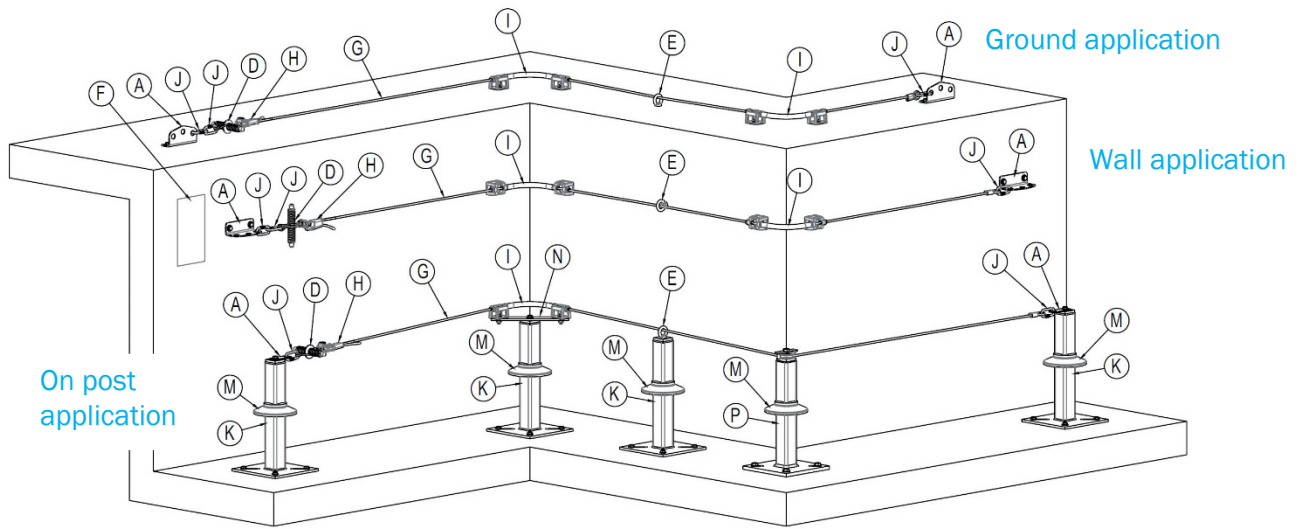
- Full-body harness
- Shock-absorbing lanyard, retractable fall arresters or guided type fall arresters including a flexible anchor line
- All Tractel® PPE certified EN 360 and EN 353-2 rated 150kg are tested and certified together with the Travspring™ One lifeline.
- All lanyards certified EN 355 can be used with the Travspring™ One lifeline.

#### ⚠ WARNING

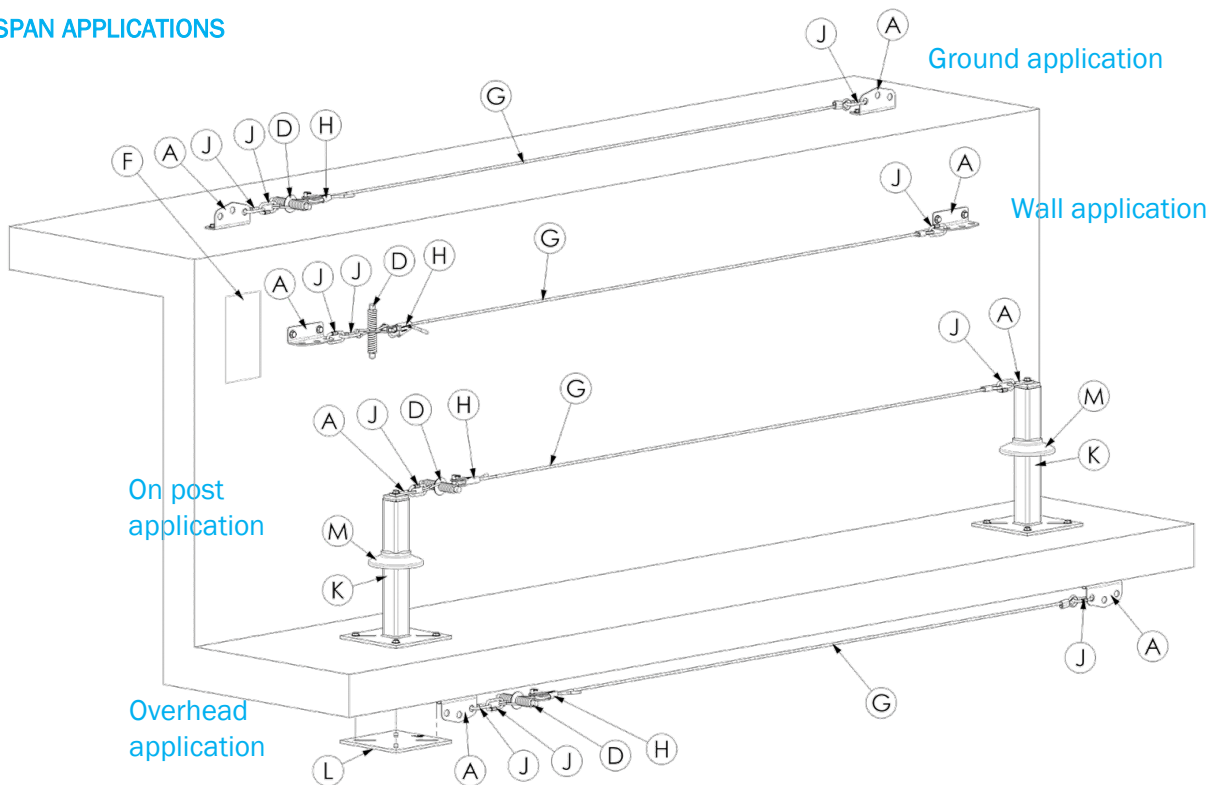
- When using a horizontal lifeline as a fall arrest system, you must ensure that there is enough space below the walking/working surface to fall and not hit anything. Tractel® can supply you with system deflection if you contact us.
- When used as a permanent installation, the Travspring™ One horizontal lifeline system is an engineered designed system. This means that before any installation commences, a specific technical study of the site must be undertaken. This would include a shop drawing showing the system layout, general notes, connection details and expected loading. These shop drawings are to be reviewed by a professional engineer licensed to work locally where the project is in. A site study may be required if drawings are not available to use when preparing these shop drawing. The shop drawings will also show the total fall height required if the system is designed for fall arrest. Tractel® or the Tractel® calculation loading program will determine system loading.



**MULTI SPANS APPLICATIONS**



**SINGLE SPAN APPLICATIONS**



- A. End anchor
- D. INRS energy absorber
- E. Intermediate anchor
- F. Information plate
- G. Wire rope

- H. Wedge socket
- I. Corner kit
- J. Quick link connector
- K. Tractel® standard post

- L. Counter plate for post
- M. Sealing flange
- N. Corner plate
- P. Pulley post

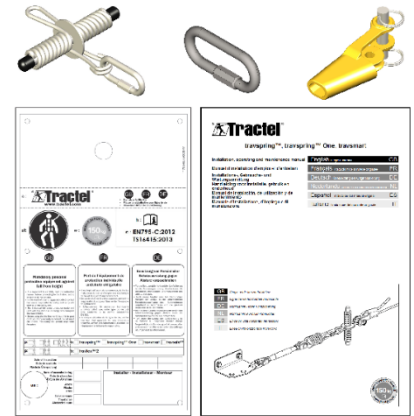
### KIT TRAVSPRING™ ONE GALVANIZED 277177

The Travspring™ One kit includes all components required to create a lifeline and are listed below. Detailed information of each component can be found further in this technical sheet.

1 Travspring™ One kit is existing: for galvanized steel wire rope.

The kits include:



- 1x 66688 INRS absorber (incl. quick link)
- 1x 193837 Wedge socket
- 1x 39822 Quick link
- 1x 228745 Information plate in EN/FR/DE/NL/IT/SP
- 1x 250025 Installation manual in EN/FR/DE/NL/IT/SP

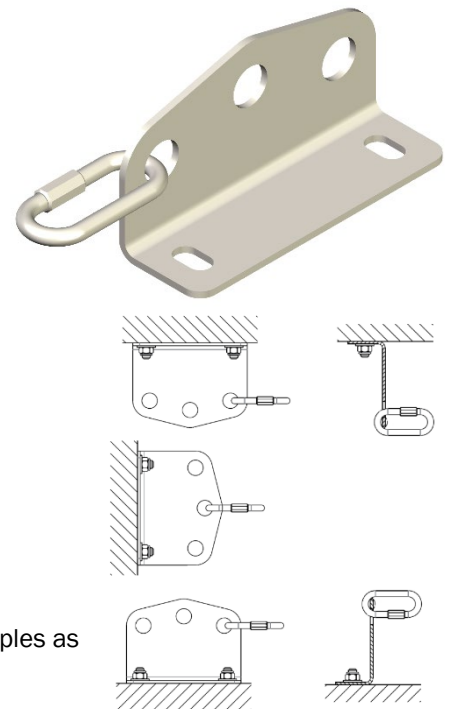


### END ANCHOR (ground, wall and overhead applications) – 66848

The end anchors are designed to be attached to the supporting structure on ground or wall application with two bolts (specifications to be set by prior study) through the holes shown on the adjoining drawing. The end anchor includes 1 quick link connector. The look is very similar to the travsmart end anchor, but dimensions are different.

- Torque M12 bolts: 20 ± 2 Nm
- Material: Stainless steel – 304L
- Size: 85 x 126 x 55 mm
- Minimum breaking strength: 30 kN
- Fixing holes distance: 130 mm
- Fixing holes diameter: Ø13 (for screw M12)
- Net weight: 734 g
- Marking:

Description	Marking
▪ Component number	66848
▪ Manual must be read	
▪ Tractel® logo	
▪ Serial number	YYWW
▪ Minimum breaking load	30kN





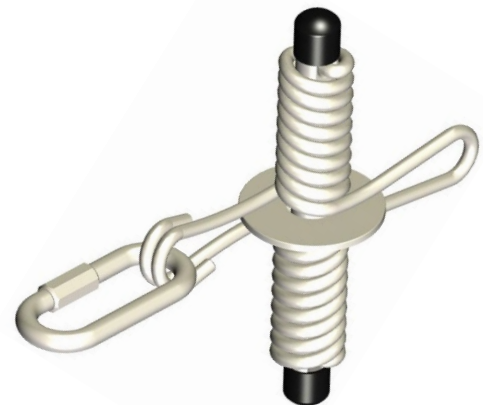
The end anchor is tested by Tractel® for an installation all possible positions. Examples as following:

### INRS ENERGY ABSORBER – 66688

The INRS energy absorber is designed to dissipate the energy transmitted to the supporting structure by the fall of a user connected to the system. It is disposable (once used). It does not negate the necessity of equipping every user with personal fall arrest equipment. Each INRS energy absorber is supplied with a quick-link connector. Patented by INRS

- Material: Stainless steel – 304CU
- Size: 190 x 110 mm
- Minimum breaking strength: 30 kN
- Net weight: 400 g
- Maximum arrest force: 600 daN
- Average dynamic pull-out: 500 daN
- Maximum deployment: 905 mm
- Quick-link connector: Stainless steel – 304L
- Marking:

Description	Marking
▪ Component number	66688
▪ Standard	EN795-C:2012
▪ Manual must be read	
▪ Tractel® logo	
▪ Serial number	YYxxxx



**WEDGE SOCKET – 193837**

The wedge socket is used to secure the free end of the wire rope to the energy absorber. The wedge socket is formed by 5 parts:

- 1 casing
- 1 wedge
- 1 securing pin
- 2 split rings to lock the securing pin on the casing
  
- Material: copper-aluminium and stainless steel (hardware)
- Minimum breaking strength: 30 kN when used with Tractel® specified wire rope
- Net weight: 430 g
- Marking:
 

Description	Marking
▪ Component number	193837
▪ Standard	EN795-C:2012
▪ Manual must be read	
▪ Tractel® logo	
▪ Production batch number	Date stamp



**INTERMEDIATE ANCHOR FOR WALL – 113247 / FOR POST– 113297**

The simple design of the Travspring™ One intermediate bracket focuses on the cost aspect of the product. It requires a double lanyard in order to cross the anchors. Intermediate anchors should be placed so that the distance between anchors from one end of the system to the other is always between 5m and 15m.

- Torque M12 bolts: 20 ± 2 Nm
- Material: galvanized steel
- Minimum breaking strength: 12 kN
- Net weight of standard intermediate anchor: 170 g
- Marking:
 

Description	Marking
▪ Standard	EN795-C:2012
▪ Manual must be read	
▪ Tractel® logo	



**INFORMATION PLATE – 228745**

The information plate is included in the Travspring™ One kit and includes 6 languages: EN, FR, DE, ES, IT, NL

- Size: 170 x 300 mm
- Material: aluminium

At the top of the information plate, a unique QR code is printed. This unique number should be written on the technical documentation. When the QR code is scanned, it forwards to Tractel® traceability platform and the following documents will be available:

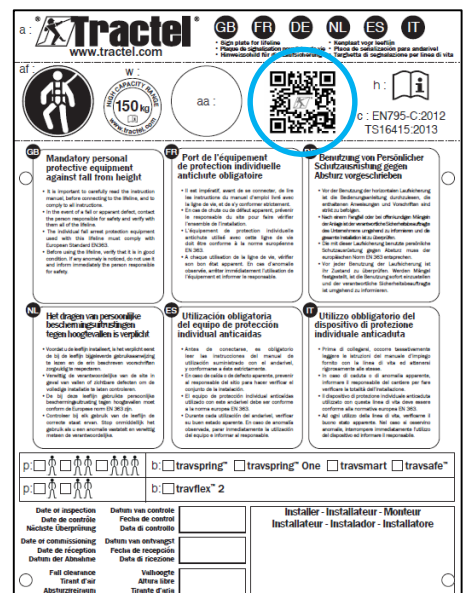
- Installation, user and maintenance manual
- Technical sheet
- Certificate of conformity

**ADDITIONAL INFORMATION PLATE – 277127**

Additional information plate can be ordered if the multiple accesses to the lifeline are possible.

A generic QR code is printed on the additional information plate. When scanned, it forwards to Tractel® traceability platform and the following documents will be available:

- Installation, user and maintenance manual
- Technical sheets
- Certificates of conformity



**KIT LANGUAGE EN/RU/PT/PL/DK – 277227**

This kit includes the installation, user and maintenance manual and the information plate in EN/RU/PT/PL/DK. The information plate contains a unique QR code as described above.

**ADDITIONAL INFORMATION PLATE EN/RU/PT/PL/DK – 277237**

Additional information plate can be ordered if the multiple accesses to the lifeline are possible. A generic QR is printed on the additional information plate as described above.

**WIRE ROPE**

- **START KIT GALVANIZED STEEL – 57252**
- **ADDITIONAL METER OF GALVANIZED STEEL – 238497**

The start kit includes 5m of wire ropes, a quick-link connector and additional wire rope length to ensure a shortage of wire rope never happen. The wire rope is sleeved, looped and fitted with a thimble at one end. The other end is brazed and ground smooth in the factory.



Travspring™ One offers the wire rope in galvanized steel only.

Only this specific Tractel® wire rope can be installed on the Travspring™ One lifeline to be compliant with the certification performed.

Tractel® wire ropes are manufactured with an integrated traceability mean.

- Material: Galvanized steel
- Net linear weight: 243g/m
- Diameter: 8 mm
- The marking is applied on the cable sleeve.



Description	Marking
<ul style="list-style-type: none"> <li>▪ Manual must be read</li> <li>▪ Tractel® logo</li> <li>▪ Cable diameter and construction                             <ul style="list-style-type: none"> <li>○ Galvanized steel</li> </ul> </li> </ul>	  Ø8-7X19

**CORNER KIT – 66878**



This sub-assembly is only used when the system has corners with a standard opening of 90°. Each corner kit acts as an intermediate anchor. The kits are supplied for assembly by the installer. For installation on post, a corner plate (66998) is needed to install the corner kit.

This corner kit is compatible with the Travspring™ and Travspring™ One lifelines.

Corner kits are formed by 3 parts:

- 2 corner anchors
- 1 corner tube
- Torque M12 bolts: 20 ± 2 Nm
- Material: brass and stainless steel (hardware and tube)
- Net weight of corner kit: 1,300 g
- Marking



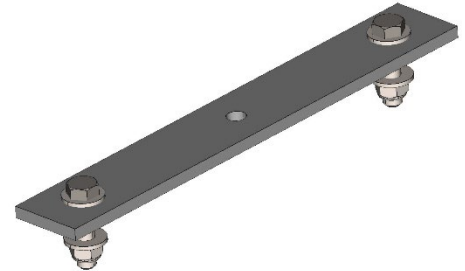
Description	Marking
<ul style="list-style-type: none"> <li>▪ Component number</li> <li>▪ Standard</li> <li>▪ Manual must be read</li> <li>▪ Tractel® logo</li> <li>▪ Serial number</li> <li>▪ Production batch number</li> </ul>	66878 EN795-C:2012   YYWW Date stamp



### CORNER PLATE – 66998

The corner plate is used to suit the corner kit assembly which will be on a standard anchor post for a 90° angle. The corner plate is not part of the certification.

Each corner plate includes:

- 1 plate
- 2 HM12 x 45 mm bolts
- 4 washers Ø12
- 2 locknuts
  
- Torque M12 bolts: 20 ± 2 Nm
- Material: stainless steel
- Size: 50 x 342 x 8 mm
- Net weight: 1200 g



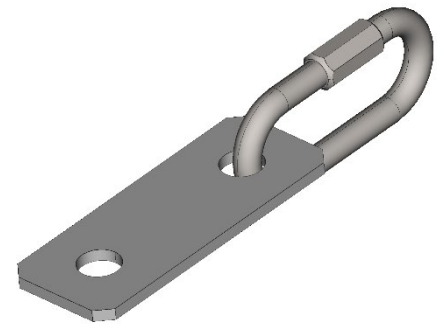
Marking	Description	Marking
	▪ Component number	66998
	▪ Manual must be read	
	▪ Tractel® logo	
	▪ Serial number	YYWW



### END ANCHOR FOR POST – 87368

Comes with two holes for 12 mm fasteners.

It is supplied with a quick-link connector.

- Torque M12 bolts: 20 ± 2 Nm
- Material: galvanized steel
- Size: 105 x 40 x 4 mm
- Fixing holes distance: 65 mm
- Fixing holes diameter: Ø14.5 mm
- Net weight: 119 g



Marking	Description	Marking
	▪ Component number	87368
	▪ Manual must be read	
	▪ Tractel® logo	
	▪ Serial number	YYWW
	▪ Minimum breaking load	30 kN

### STANDARD ANCHOR POST



Anchor posts are designed to be installed on a concrete or metal support. The standard posts allow the end anchors, the intermediates and corner plates.

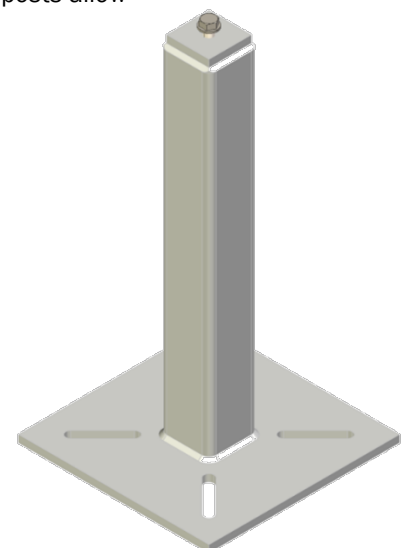
A wide range of Tractel® standard posts are existing and includes a mix of:

- 3 different height: 250mm, 500mm, 750mm
- 3 different base plate: square, rectangular, 20° inclined, for ridge pole
- 3 different material: galvanized steel, stainless steel or insulated

Standard anchor posts for lifeline interface are delivered with 1 HM12 x 30 mm bolts and 1 washer Ø12

Please refer to the relevant technical data sheet or contact Tractel®.

Marking	Description	Marking
	▪ Minimum breaking strength: 30 kN	
	▪ Component number	Acc to the component
	▪ Manual must be read	
	▪ Tractel® brand	
	▪ Serial number	YYWW
	▪ Minimum breaking load	30 kN



## PULLEY POST – 68478



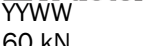
This pulley post is designed to replace the corner kit of Travspring™ or Travspring™ One lifelines. It offers the possibility to do any angle between 10° and 120°.

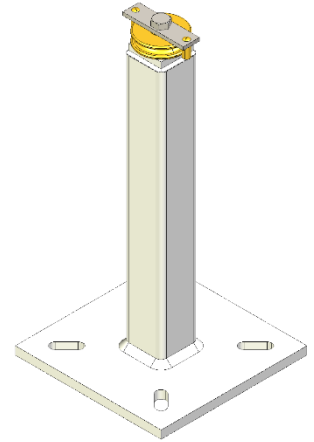
It is available only in galvanized steel, with a height of 500mm and square base plate.

The pulley post is delivered assembled with the pulley installed on the post.

A specific counter plate is designed for this post: 133295

- Minimum breaking strength: 60 kN
- Size: 270 x 270 x 500 mm
- Net weight: 17 kg

Marking	Description	Marking
	▪ Component number	68478
	▪ Standard	EN795-C:2012
	▪ Manual must be read	
	▪ Tractel® logo	
	▪ Tractel® brand	
	▪ Serial number	YYWW
	▪ Minimum breaking load	60 kN



## SYSTEM LOADING AND DEFLECTION

If you design, install and use one of a Travspring™ One lifeline according to the manual, the maximum force on end anchor, intermediate and corner kit will not be greater than the following values:

Contact Tractel® for system deflection and site-specific loading.

End anchor	18 kN
Intermediate anchor	6 kN
Corner kit	21 kN

## DOCUMENTATION

According to the applicable standard EN 795:2012 the following installation documentation must be provided to the users after the installation. This documentation should be kept in the building for later examination/inspection of the fall arrest system:

- the address and location of the installation;
- the name and address of the company that carried out the installation;
- the name of the person responsible for the installation;
- the product identification;
- the fastening device;
- the schematic plan of the installation,

The relevant document can be found in the user manual 250025 of Tractel®.

Tractel® can also provide the installation documentation together with the system deflection and site loading.