



The Travflex™ 2 single-cable system provides a smooth travel. It allows the slider to move freely over the intermediate anchors, minimizing wear and eliminating user assistance. The user's hands remain free to accomplish whatever task is required. It is designed to limit the forces transmitted to the structure in the event of a fall for installation on light structures such as steel deck roof.

The Travflex™ 2 is a permanent horizontal lifeline system that is easy to install and can allow up to 3 users with a maximum weight of 100kg or 2 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 2 in-line energy absorbers.

BENEFITS

- Permanently installed
- The system length is unlimited and can go around corners
- Max span in multi spans configuration: 15 meters
- Up to 3 users on one system weighing 100kg each.
- Up to 2 users on one system weighing 150kg each.
- Easy to install with common tools

FEATURES

- The slider ensures smooth hands-free travel over anchors and around corners
- The system can be installed on walls or on ground application
- Comes with a tension indicator and tensioner
- Lightweight components
- Can be used for fall arrest or fall restraint
- Can be installed with the Tractel Universal plate

APPLICATIONS

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

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 361 Full body harnesses
- 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

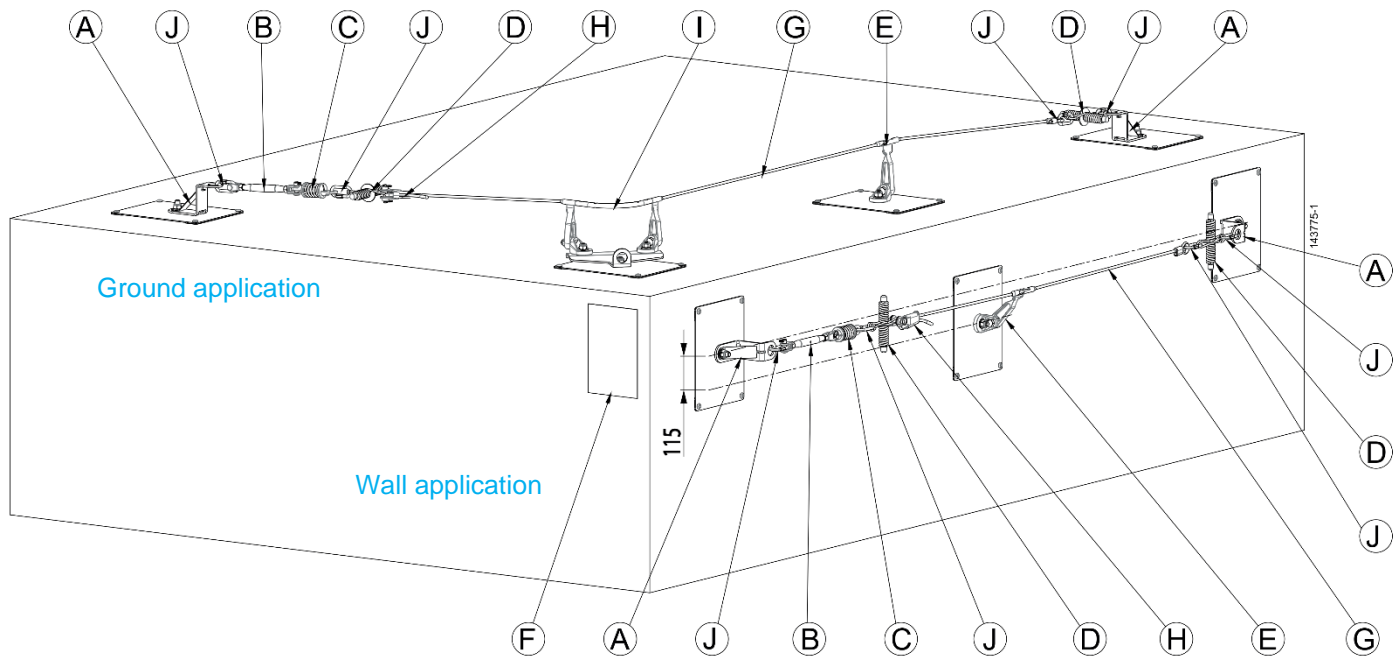
COMPATIBLE PERSONAL FALL PROTECTION EQUIPMENT ALSO REQUIRED

- 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 Travflex™ 2 lifeline.
- All lanyards certified EN 355 can be used with the Travflex™ 2 lifeline.
- Universal plate

⚠ WARNINGS

- When using a horizontal lifeline as a fall arrest system, it necessary to ensure that there is enough space below the walking/working surface in case of a fall and that there is no obstacle on the fall trajectory. Tractel® can supply the system deflection upon request.
- When used as a permanent installation, the Travflex™ 2 horizontal lifeline system is an engineered 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® can supply the system loading calculation upon request.

MULTI SPANS APPLICATIONS (with universal plate)



- | | | |
|-------------------------|-------------------------|---|
| A. End anchor | F. Information plate | Not shown |
| B. Tensioner | G. Wire rope | O. Slider |
| C. Tension indicator | H. Wedge socket | Universal plate extremity and intermediate anchor |
| D. INRS energy absorber | I. Corner kit | Universal plate for curve |
| E. Intermediate anchor | J. Quick link connector | |

KIT TRAVFLEX™ 2 – GALVANIZED 293629 / STAINLESS STEEL 293639

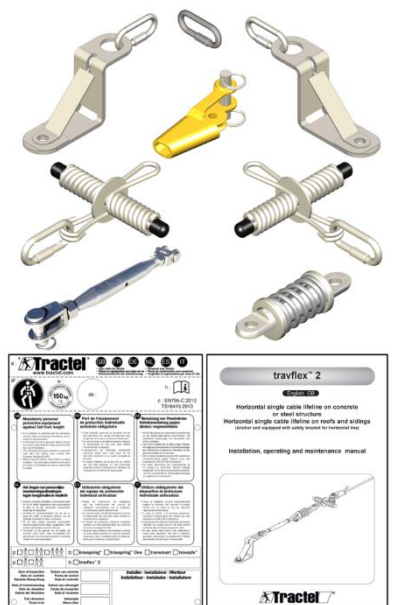
The Travflex™ 2 kit includes all components required to create a lifeline and are listed below. Detailed information of each component can be found further in this technical sheet.

2 kits Travflex™ are existing: for galvanized or stainless steel wire rope.

The kits include:

- 2x 66688 INRS absorbers (incl. quick link)
- 2x 100378 Galvanized end anchors or 2x 100388 Stainless steel end anchors
- 1x 40742 tensioner
- 1x 66858 tension indicator
- 1x 193837 wedge socket
- 1x 39822 quick link
- 1x 228745 information plate in EN/FR/DE/NL/IT/SP
- 1x installation manual in EN/FR/DE/NL/IT/SP/PT



These kits are linked to the start kit galvanized and stainless steel. The end anchors are part of the certification, available in galvanized and stainless steel.



END ANCHOR – GALVANIZED 100378 / STAINLESS STEEL 100388

The end anchors are designed to be installed on Tractel® universal plate or directly on the concrete or steel structure on ground or wall application with 1 M16 bolt. The end anchor includes 1 quick link connector.

- Torque M16 bolts: 60Nm +/-10
- Material: Stainless steel – 316L
Galvanized steel
- Size: 205 x 107 x 60 mm
- Minimum breaking strength: 30 kN
- Net weight: 830 g

Marking:	Description	Marking
	<ul style="list-style-type: none"> ▪ Manual must be read ▪ Tractel® logo ▪ Serial number ▪ Brand ▪ Standard 	<ul style="list-style-type: none">   YYWW Travflex™ 2 EN795- A/C:2012





The end anchor certified according to EN 795-C:2012 as part of the lifeline, and according to EN 795-A:2012 as an anchor point. It can be used during the installation process before the wire rope is installed.

TENSIONER – 40742

The tensioner enables adjustment of the wire rope tension to the required value. The tensioner must always be connected to the end anchor through a quick-link connector to ensure its free movement in the event of a fall. The quick-link connector is always supplied together with the end anchor.

- Material: Stainless steel – 316L
- Minimum breaking strength: 30 kN
- Extends from 270 to 400 mm
- Net weight: 580 g



Marking:	Description	Marking
	<ul style="list-style-type: none"> ▪ Standard ▪ Manual must be read ▪ Tractel® logo ▪ Serial number 	<ul style="list-style-type: none"> EN795-C:2012   YYWW



TENSION INDICATOR – 66858

The tension indicator enables to check that the wire rope pre-tension is at 100 daN by simply aligning a hole and a notch. The correct wire rope tension is to be applied during the installation.

- Material: Stainless steel – 316L
- Size: 144 x 50 mm
- Minimum breaking strength: 30 kN
- Net weight: 900 g



Marking:	Description	Marking
	<ul style="list-style-type: none"> ▪ Standard ▪ Manual must be read ▪ Tractel® logo ▪ Serial number 	<ul style="list-style-type: none"> EN795-C:2012   YYWW

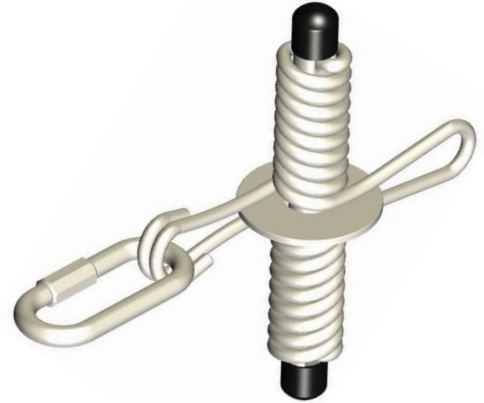


INRS ENERGY ABSORBER – 66688

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.

- 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
	▪ Standard	EN795-C:2012
	▪ Manual must be read	
	▪ Tractel® logo	
	▪ Serial number	YYxxxxx





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	





SLIDER – 251349

The slider slides along the wire rope and moves hands free.

Important: the slider is the only means for connecting the PPE of a user to the Travflex™ 2 system.

- Material: Martensitic stainless steel grade 431
- Net weight: 658 g

Marking	Description	Marking
	▪ Component number	251349
	▪ Standard	EN795-C:2012
	▪ Manual must be read	
	▪ Tractel® logo	
	▪ Serial number	YYxxxxx
	▪ Patent number	1055789



INTERMEDIATE ANCHOR: STANDARD – 100398

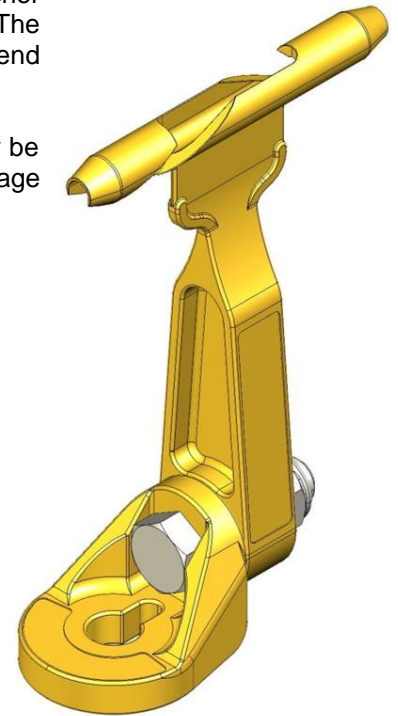
With its original design and combined with the slider, the Travflex™ 2 intermediate anchor allows each user to easily cross it without the need to disconnect from the system. The intermediate anchors must be set up so that the distance between anchors, from one end of the system to the other, is always between 5m and 15m

Depending on the type of mounting configuration used, the intermediate anchor may be installed, considering the 45° indentations on the bracket, to achieve optimum passage of the slider. For installation on the ground the angle must be 90° and on a wall 135°

The intermediate anchors are formed by four parts:

- 1 intermediate piece
 - 1 intermediate fixing bracket
 - 1 HM16 x 55 mm bolt
 - 1 locknut
-
- Torque M16 bolts: 60Nm +/-10
 - Material: copper-aluminium (anchor) and stainless steel (hardware)
 - Minimum breaking strength: 12 kN
 - Net weight: 1 160 g

Marking	Description	Marking
	▪ Component number	100398
	▪ Standard	EN795-C:2012
	▪ Manual must be read	
	▪ Tractel® logo	
	▪ Brand	Travflex™ 2



INFORMATION PLATE – 228745

The information plate is included in the Travflex™ 2 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 are 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 are available:

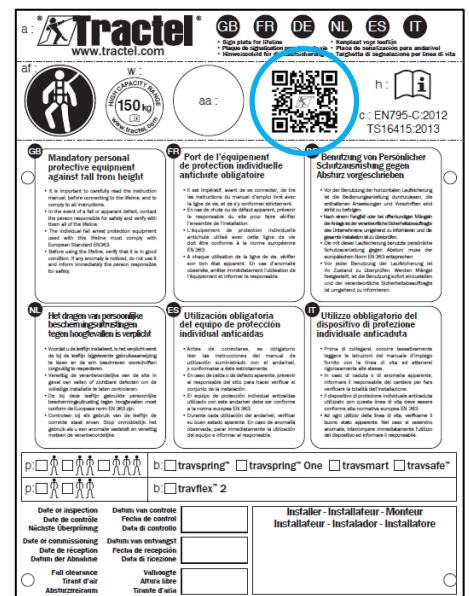
- Installation, user and maintenance manual
- Technical sheets
- Certificates of conformity

KIT LANGUAGE PT – 293619

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 code is printed on the additional information plate as described above.



WIRE ROPE

- **START KIT GALVANIZED STEEL – 57252**
- **ADDITIONAL METER OF GALVANIZED STEEL – 238497**
- **START KIT STAINLESS STEEL – 57262**
- **ADDITIONAL METER OF STAINLESS STEEL – 277137**

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.



Material choice: a stainless steel wire rope is to be preferred in a sea-side environment while a traditional working environment the galvanized steel is preferred.

Only these 2 specific Tractel® wire ropes can be installed on the **Travflex™ 2** lifeline to be compliant with the certification.

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

- Material: Galvanized steel
Stainless steel 316
- Net linear weight: 243g/m
- Diameter: 8 mm
- The marking is applied on the cable sleeve.



Description	Marking
▪ Manual must be read	
▪ Tractel® logo	
▪ Cable diameter and construction	
○ Stainless steel	Ø8-5X19
○ Galvanized steel	Ø8-7X19

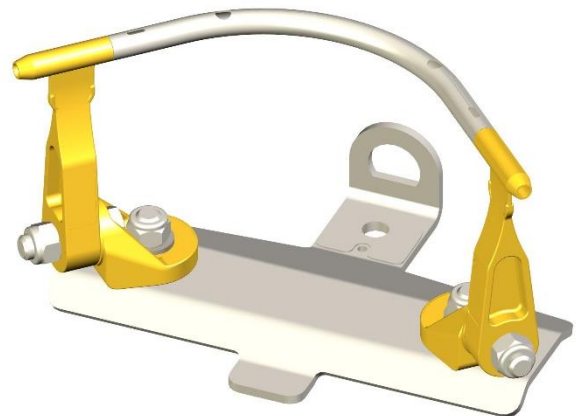
CORNER KIT

These sub-assemblies are 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. The corner kit can only be installed on ground application.

There are 4 types of corner kits:

- Installation on universal plate:
 - Corner kit with stainless steel plate (100418).
 - Corner kit with galvanized steel plate (100408).
- Installation on concrete or steel structure:
 - Corner kit with stainless steel plate (100628).
 - Corner kit with galvanized steel plate (100618).



An additional anchor point certified EN 795-A:2012 is integrated on the corner plate. It can be used as a traditional PPE anchor point to reach specific areas.



Corner kits are formed by 8 parts:

- 2 corner anchors
- 2 mounting brackets
- 2 M16 x 45 mm bolts
- 2 M16 x 55 mm bolts
- 4 locknuts
- 4 washers
- 1 corner tube
- 1 corner plate (galvanized or stainless steel)

- Torque M16 bolts: 60Nm +/-10
- Material: Cupro-aluminium (anchor), stainless steel (hardware and tube) & galva or stainless steel (corner plate)
- Net weight: 4 680 g

Marking	Description	Marking
	▪ Component number	According to type
	▪ Standard	EN795-C:2012 TS16415:2013
	▪ Manual must be read	
	▪ Tractel® logo	
	▪ Serial number	YYWW
	▪ Brand	Travflex™ 2

SYSTEM LOADING AND DEFLECTION

When designing, installing and using a Travflex™ 2 lifeline according to the manual, the maximum force on end anchors, intermediate anchors and corner kits will not be greater than the following values:
Contact Tractel® for the system deflection and site-specific loading.

End anchor	10 kN
Intermediate anchor	10 kN
Corner kit	12 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 234895 of Tractel®.

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

Specifications are subject to change without notice. Images are for illustrative purposes only.