

The Travsafe bimaterial version is very similar to the original Travsafe system. It is designed to reduce the higher loading that was generated by the original version. This is done with the use of different kinds of energy absorbers.

This is a horizontal lifeline system that provides a permanent engineered solution to your fall protection needs. These permanent systems are designed and installed by Travsafe certified representatives and have custom designed solutions to meet site-specific requirements. The Travsafe bimaterial version is a hands free system that allows up to five users (maximum if conditions allow) simultaneously. The system can be designed to allow unhindered travel for unlimited distances with out the need to disconnect and reconnect at the anchorages.

The Travsafe bimaterial version twin wire rope horizontal lifeline system provides for smooth travel compared to single line systems. The twin wire ropes allow the traveller to sit true and move freely over the intermediate anchors, minimizing wear and eliminating user assistance. The user's hands remain free to accomplish whatever task is required.

When a fall occurs, the new energy absorbers slip or deploy acting as the visual indicator that something has happened.

**Benefits**

- Permanently installed
- System length is unlimited and it can go around corners
- Maximum spacing between anchor points is 50 ft. (15 m)
- Up to five users on one system

**Features**

- Can be used for fall arrest or fall restraint
- The twin lines ensure smooth hands free travel over anchors and around corners
- When a fall occurs, the traveller's jaws close tightly around the lines
- System can be mounted to walls, floors or ceilings
- Variety of component options, from all stainless steel to galvanized and aluminum parts
- Lightweight components
- Sold in component parts
- Visual impact indication at energy absorbers
- System has a large tolerance. Anchors can be offset and travel remains smooth
- Meets all OSHA, ANSI and CSA standards

**Applications**

- Building maintenance (rooftops with out guardrails or parapets)
- Aircraft hangers (overhead systems to service the top of the fuselage and wings)
- Bridges and viaducts
- Oil and gas installations
- Distribution facilities
- Overhead cranes
- Industrial plants

**Applicable standards**

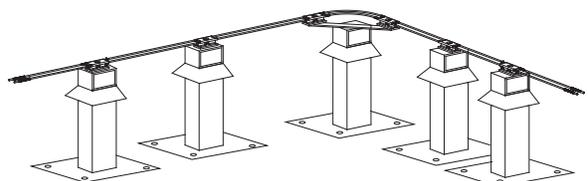
- OSHA 1910, subpart D: *Walking and working surfaces*
- OSHA 1910, subpart F: *Powered platforms, manlifts and vehicle-mounted work platforms*, appendix C
- ANSI Z359.1 safety requirements for personal fall arrest systems, sub-systems, and components
- Provincial Occupational Health and Safety Act and Regulations
- CSA Z259.16-04: *Design of active fall protection systems*

**⚠ WARNING**

When using a horizontal lifeline system 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 Ltd. can supply you with system deflection if you contact us.

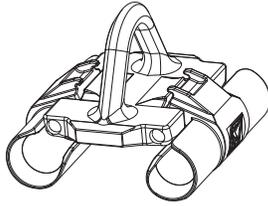
**⚠ WARNING**

This 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 in the state or province that 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 Ltd. or the Tractel Ltd. computer loading program will determine system loading.



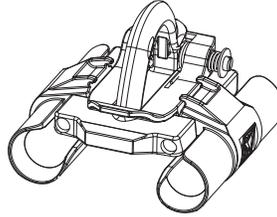
**The Travsafe® traveller**

The Travsafe® Traveller is a mobile anchor point. It is comprised of two jaws that hold the traveller onto the wire ropes and automatically grip when a fall occurs. The traveller is made entirely out of stainless steel and comes in three models.



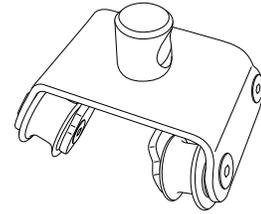
**Traveller**

The standard traveller is captive along the lifeline and can only be inserted or removed at end anchors that are found at each end of the system.



**Removable traveller**

The removable traveller (optional) can be engaged or disengaged anywhere along the lifeline, provided the means of access and egress are safe.

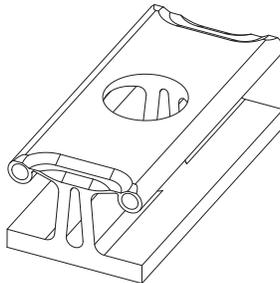


**Rollsafe traveller**

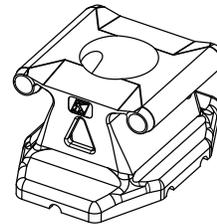
The rollsafe traveller is for use with overhead systems. It insures the smooth travel of heavy retractable blocks and long lanyards.

**The intermediate anchors**

The Travsafe® lifelines are supported by either a custom extruded aluminum intermediate anchor or a cast stainless steel one. They are anchored to the structure by a type A325 (M16) or equivalent mounting fastener. They have two parallel borings along their length for passage of the wire ropes.



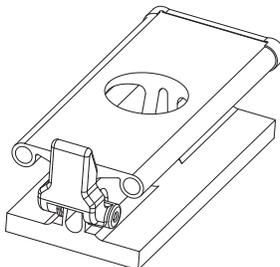
**Aluminium intermediate anchor**



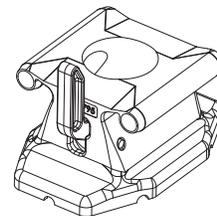
**Stainless steel intermediate anchor**

**The end anchors**

The end anchor is similar to the intermediate anchor with the addition of an end stop. This end stop or anti return lever allows a traveller to easily enter the system but does not allow it to come off unintentionally. The end stop is equipped with a spring located at the rotation axis that returns the stop back to the closed position after the traveller has been inserted.



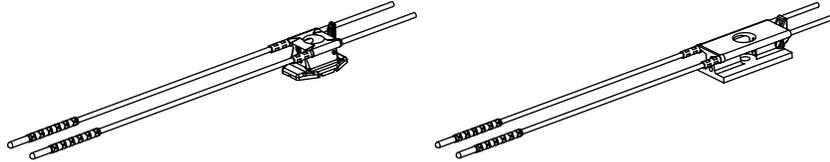
**Aluminium end anchor**



**Stainless steel end anchor**

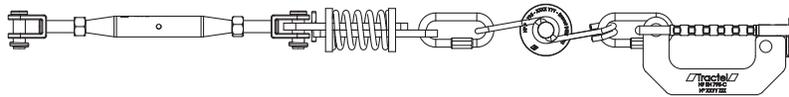
**Bimetal shock-absorbing sleeves**

The end anchors, corners and specific intermediate anchors are equipped with the new bimetal shock-absorbing sleeve. They are designed to reduce the impact force of a fall on the horizontal lifeline. The cables slip thru them when a load is applied.

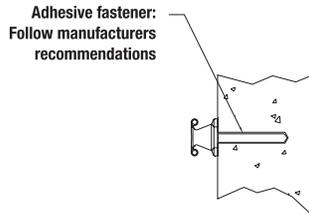
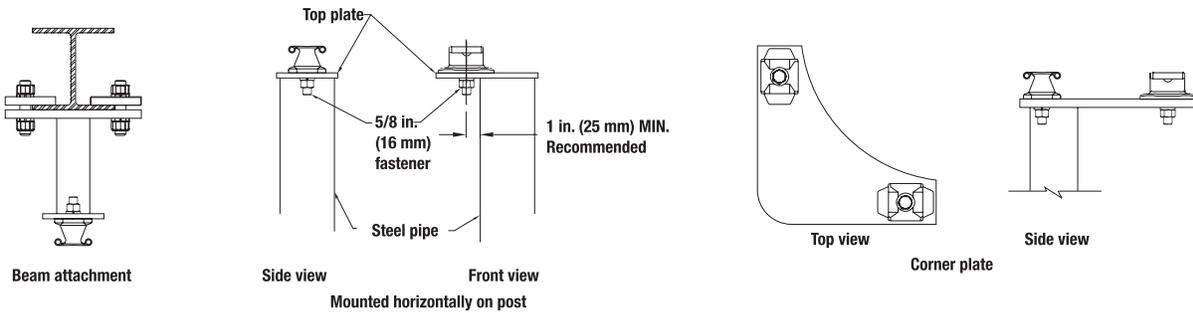


**INRS shock absorber Travsafe kit with tensioner and tension indicator**

These kits were designed to go onto the end of systems in lieu of the end anchors as shown above. One kit placed at each end of the system. They are to be used as a last resort, when loading on the structure must be reduced the most. You don't use them if the structure can take the loading of a regular end anchor.

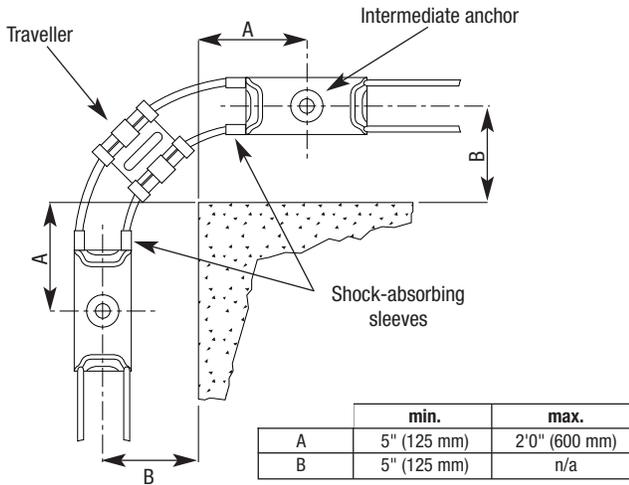


**Anchor mounting**

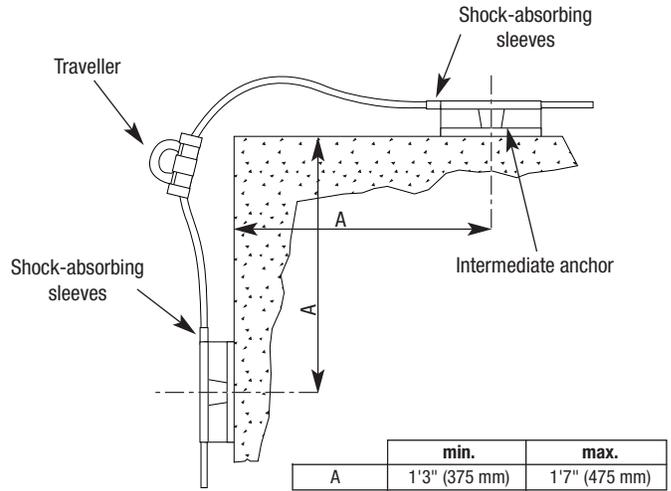


**Corners**

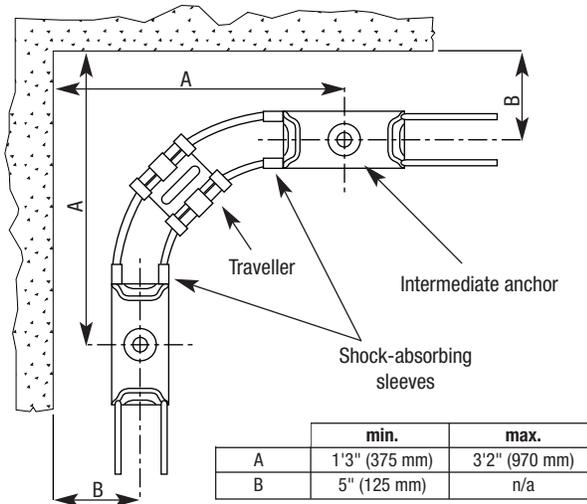
Travsafe® permits the lifeline to negotiate the angles of internal, external and flat (floor) corners. Standard and removable travellers smoothly passes all corner variations. The Rollsafe traveller do not do corners.



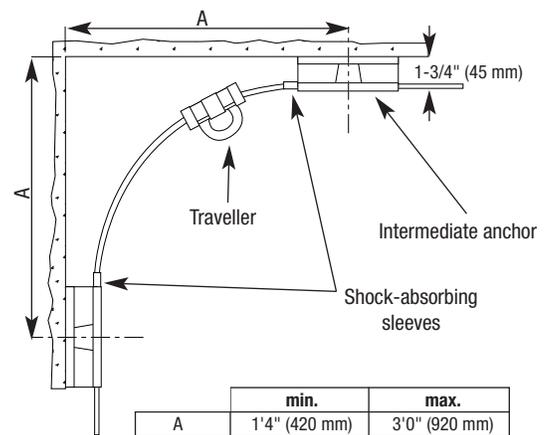
**Horizontal outside corner**



**Vertical outside corner**



**Horizontal inside corner**



**Vertical inside corner**

