

## DESCRIPTION

Travrail is a horizontal lifeline on a stiff rail. It allows the slider to move freely over the intermediate anchors, allowing the user to switch easily from one side to the other of the rail. This eases the tasks to be carried out by the users.

Whether it is for cleaning or maintenance operations, checking an installation or accessing safely to a work, Travrail represents the best option for workers protection in case of fall. The rail can be used by 3 persons up to 100 kg each.

It can be installed in several positions: on wall, overhead and on ground. This makes Travrail a polyvalent solution that can fit in almost any situation.



## TECHNICAL CHARACTERISTICS

- Rail and rail connection made in anodised aluminium
- Linear weight of 2.1 kg/m (rail only)
- Stainless steel bracket with grey thermo-lacquering to avoid electrolytic couples, suitable for installation on either concrete or metallic layer. A special bracket version allows a longitudinal movement of the rail, to absorb thermal expansion.
- Attached to the structure with M12 stainless steel fasteners.
- The rail can be used by up to 3 operators simultaneously weight each 100 kg maximum.
- Cantilever of 200 mm maximum.
- Maximum distance between bracket of 6m in fall arrest configuration
- Maximum distance between bracket of 3 m in rope access configuration

### Configuration as a fall arrest system




The fall arrest system configuration requires bracket every 6 m maximum irrelevant of the position of the rail connection. One standard-slider per operator is required.

### Configuration as a rope access system

Travrail offer the possibility to do rope access according to the EU directive 2001/45/EC.

In this configuration, the **maximum span** between brackets must be **3 m**.

To do rope access, the operator must be trained and equipped with the proper PPE, specifically a harness that is certified for rope access. The operator must as well use **two separated sliders**: one for the fall arrest PPE (e.g. blocfor™) and one for the work rope.

Rail installation	2 sliders must be used by each user		
	To connect the fall arrest PPE (stopfor™ or blocfor™)		To connect the work rope
Overhead	 Standard slider	+	 Overhead slider*
On Wall			 Wall slider*

**\*ATTENTION:** These sliders are not fall arrest sliders, they must never be used to connect a fall arrest PPE.

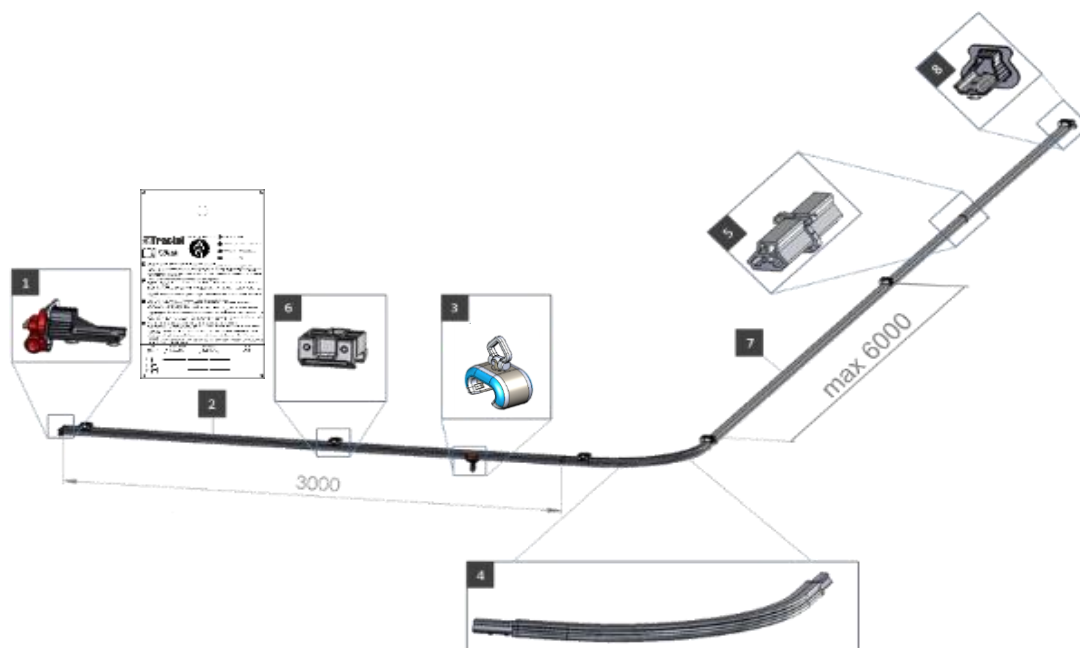
## APPLICABLE STANDARDS

- 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 813 Sit harness
- 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

## MAIN COMPONENTS

Pos	Code	Description
1	232655	Detachable end stop
2	232665	Aluminium rail 3000mm
3	232675	Standard slider
4	232705	Curve 90° aluminium overhead or floor application
	232695	Curve 90° aluminium inside wall application
	232685	Curve 90° aluminium outside wall application
5	232715	Rail connection
6	232725	Standard bracket
	232785	Expansion bracket
7	232665	Aluminium rail 3000mm
8	232745	Fixed end stop
9	233245	Sign plate
<b>Accessories &amp; operations</b>		
	232765	Drilling kit
	223306	Special bending (R550 or R1000)
	223326	Special cutting
	232795	Rope access slider for wall application. Not a fall arrester
	242485	Rope access slider for overhead application. Not a fall arrester

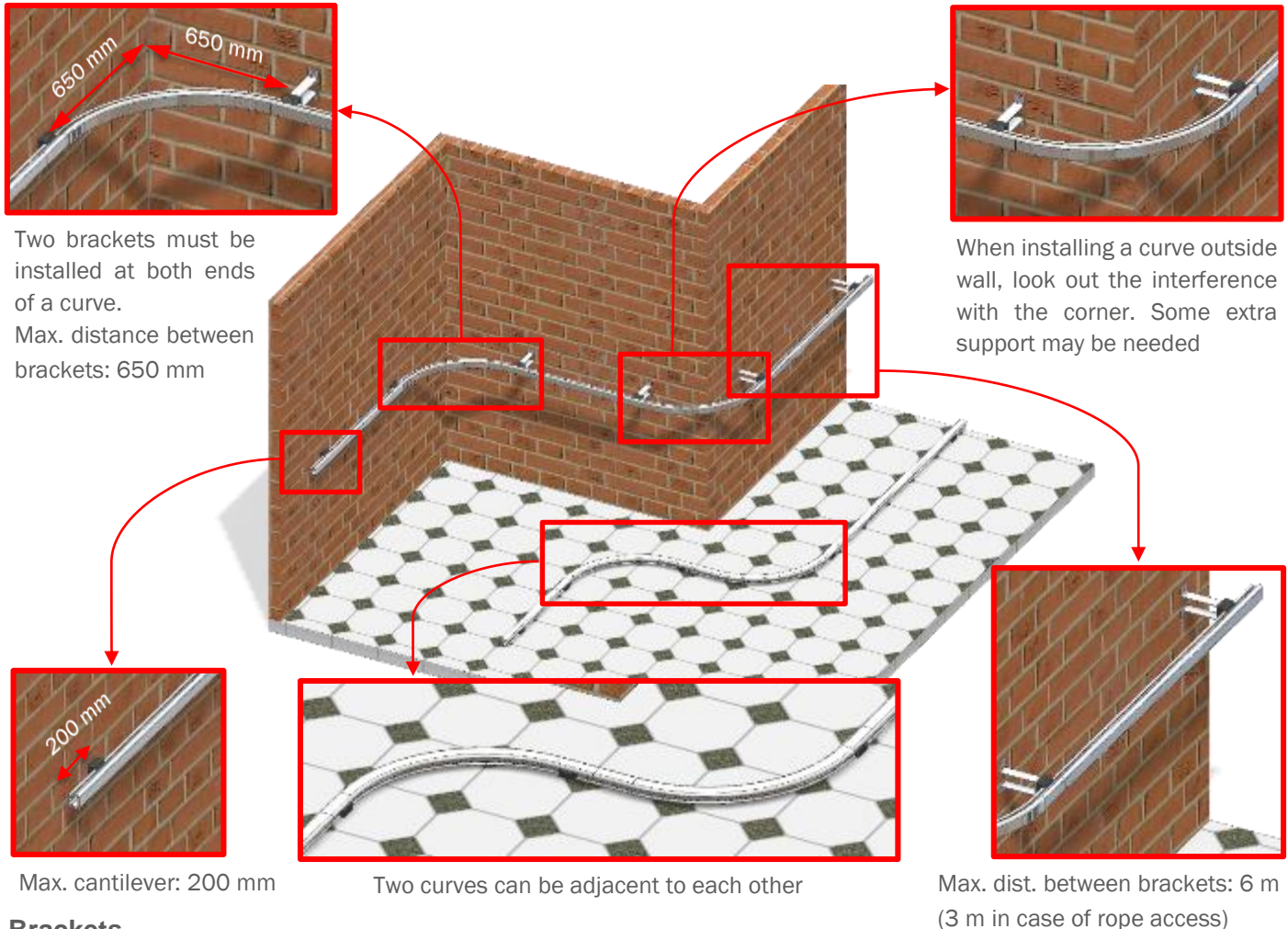
The drilling kit must be used when a rail section is cut on site to fit the installation. The drilling kit includes: a jig to drill at the correct position, all necessary drill bits and thread tap.



## INSTALLATION GUIDELINES

### Layout

The standard bracket (code 232725) can be used for wall, ground or overhead installation. Nevertheless, some tips have to be taken into account at the designing phase:

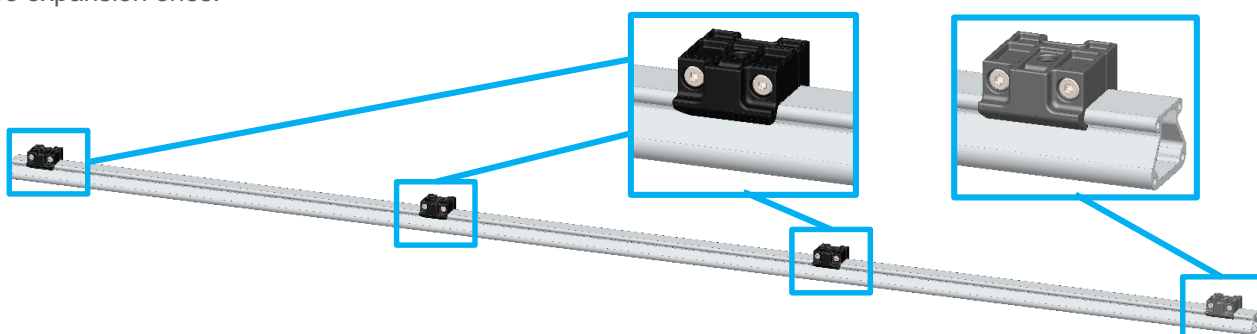


### Brackets

There are two types of brackets:


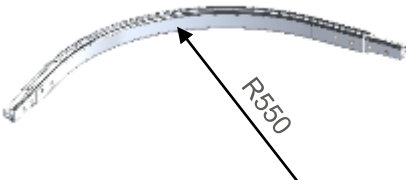

Standard bracket (232725)	Expansion bracket (232785)
<ul style="list-style-type: none"> <li>• Greyish coating</li> <li>• Clamped tightly on the rail</li> </ul>	<ul style="list-style-type: none"> <li>• Black coating</li> <li>• Holding the rail but allowing some longitudinal sliding (recommended when there is differential thermal expansion between the rail and the structural support).</li> </ul>

In consequence, to avoid additional efforts on the rail, in a rigid lifeline, only one standard bracket and all the rest shall be expansion ones.

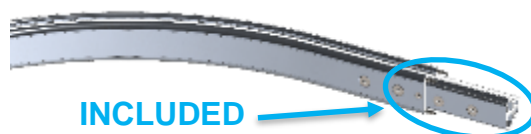


## Standard curves

Travrail can be installed horizontally (although a slope of maximum 5° is allowed), on walls, overhead and on ground. In order to fit every configuration, Travrail has three different type of curves:

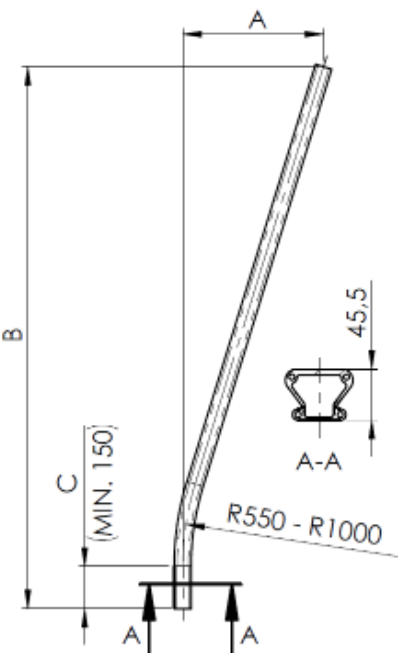
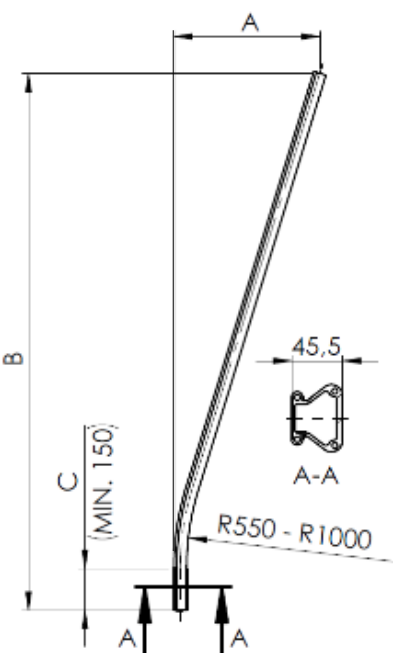
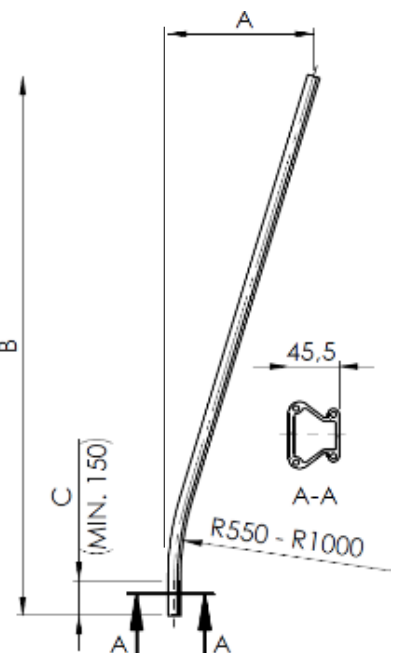
Curve overhead or ground	Curve inside wall	Curve outside wall
Used to turn left or right at overhead or on the ground installations.	Used when the walls in the corner make an angle of 90° (inner corner).	Used when walls on the corner make an angle of 270° (outer corner)
		

Each curve includes two joint unions, so they can be connected directly on a rail without any extra part.



## Special bending

For those applications where standard curves do not suit the layout, special bending can be provided at R550 or R1000:

Bend overhead or on ground	Bend inside wall	Bend outside wall
 <p>Requested data for manufacturing: A, B, C (150 min.), R (550 or 1000)</p>	 <p>Requested data for manufacturing: A, B, C (150 min.), R (550 or 1000)</p>	 <p>Requested data for manufacturing: A, B, C (150 min.), R (550 or 1000)</p>

Out of these common bends, other layouts can be provided on demand. Ask TRACTEL for advice.

## Special length

The straight rail section can be cut and machined on request in our factory. When ordering, please specify the required length for each rail when shorter than 3 m.