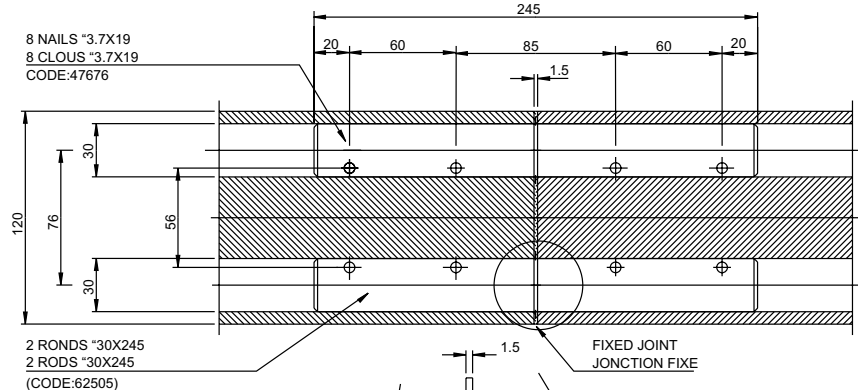
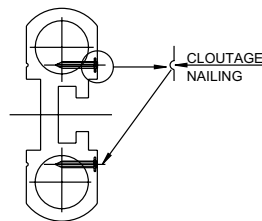


5. RAIL CONNECTIONS

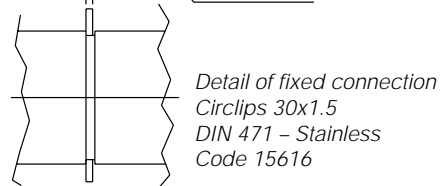
5.1. Fixed connection

The connection between two rails is by 2 aluminium rods, dia. 30x245 mm, fixed by 8 pins, dia. 3.7x19 mm. This type of connection should be done with a maximum distance of 500 mm from the bracket.

Fig. 2
Fixed connecting two rails



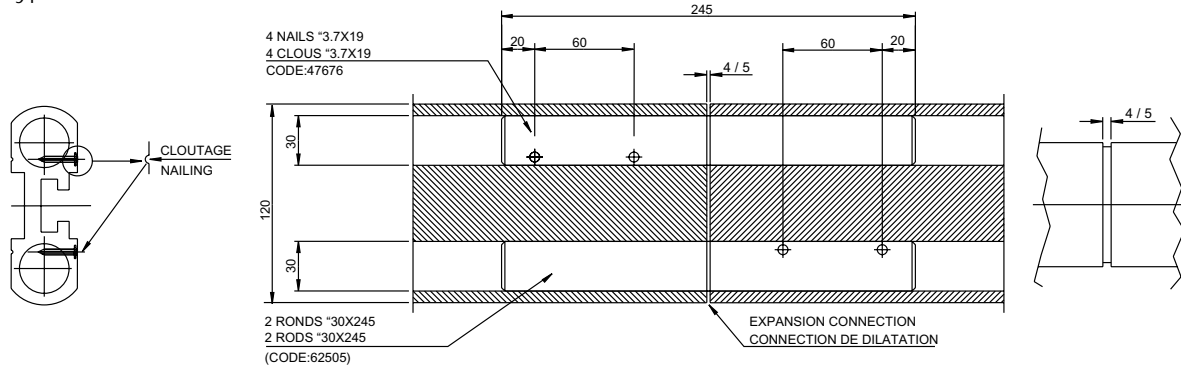
Pinning is only done on one side, and in principle on the side facing the facade (i.e. on the bracket side).
Pinning machine: DX 36M-HILTI
Pin: EDN-19-P8-HILTI, dia. 3.7x19, code 47676
Cartridge: 6.8/11M-RED-HILTI, code 47686



5.2. Expansion connections

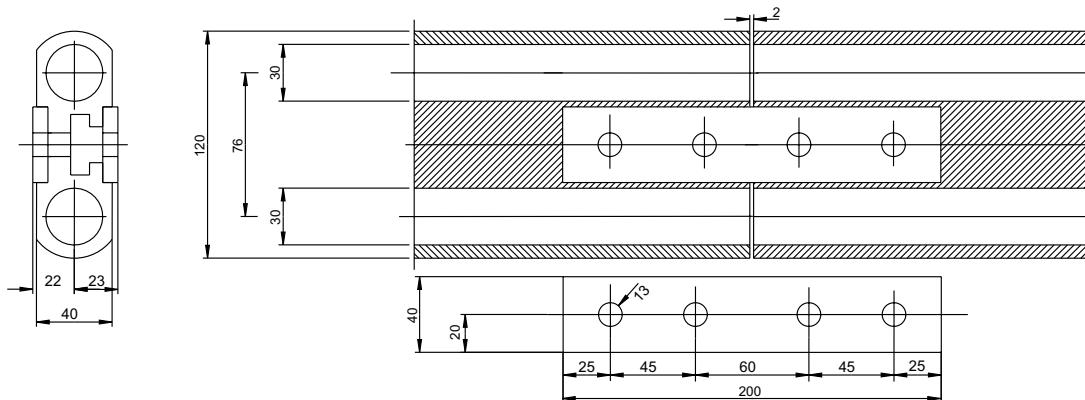
An expansion connection is fitted after two fix connections (= every 17.40 m). The connection between two rails is by 2 aluminium rods.

This type of connection should be done with a maximum distance of 500 mm from the bracket.



5.3. Connection with 2 fish plates

Only used at the end of a closed travelling track. The connection between two rails is by 2 fish plates 40x8x200. This type of connection should be done with a maximum distance of 500 mm from the bracket.



6. RAIL END STOP

On "open" trackways an end stop (11) must be fitted at the end of the rails. It is fixed by screws.

End limit sensors (12) fitted on the motorised trolley stop the trolley at the end of the trackway, approaching the end stop.

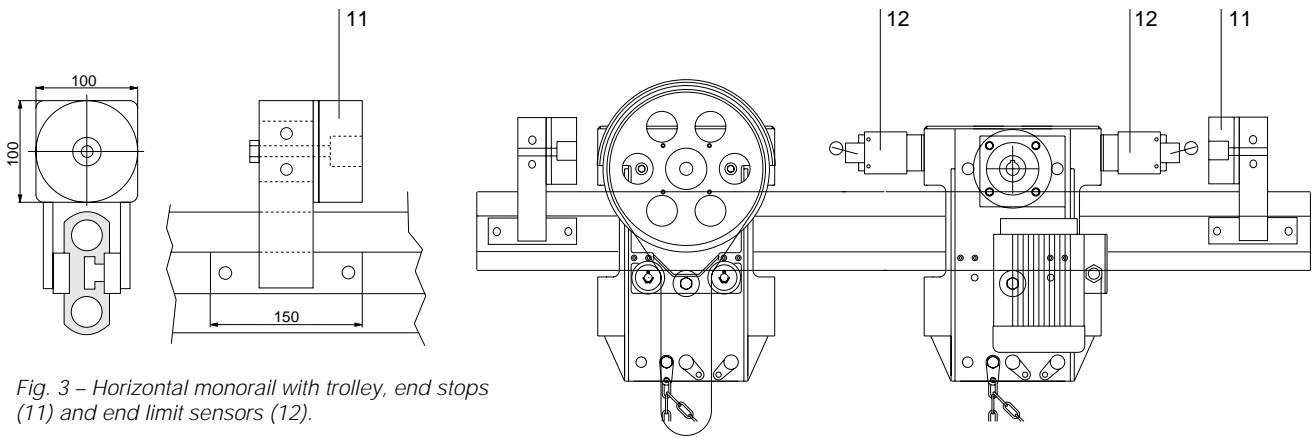


Fig. 3 - Horizontal monorail with trolley, end stops (11) and end limit sensors (12).

7. BRACKETS

The brackets (Fig. 4) which support the rail, are positioned every 3 m on the straight sections and as set out in figures 7 to 12 for the curved sections. The brackets are galvanised or stainless steel. The fixing plate of the bracket itself has a ± 10 mm vertical adjustment.

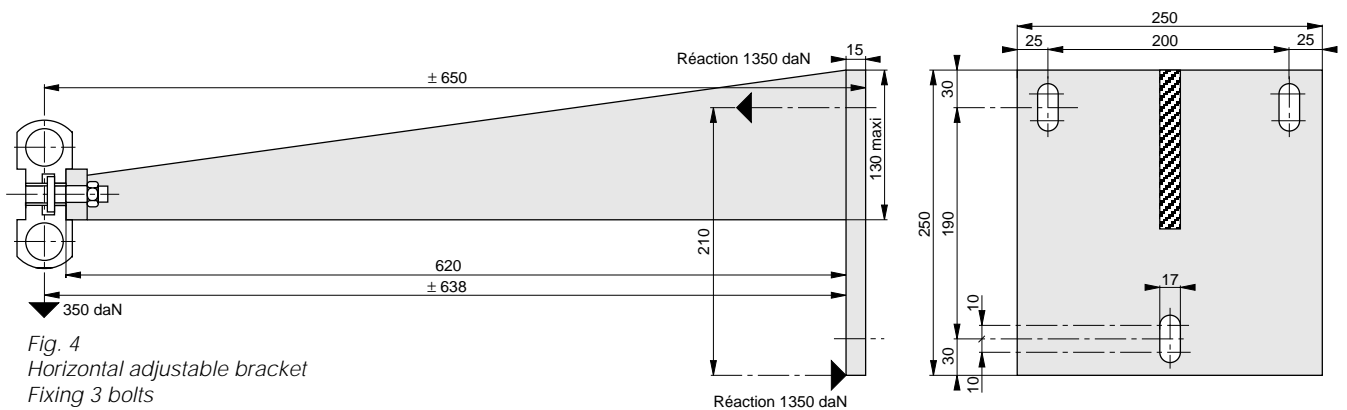
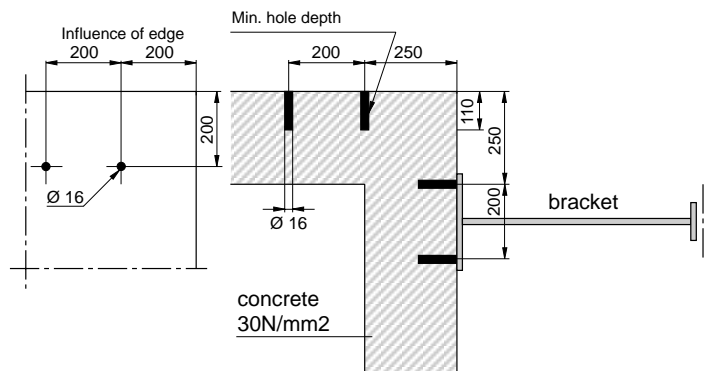


Fig. 4
Horizontal adjustable bracket
Fixing 3 bolts
HST M16x140/25-44521/2 - HILTI (concrete 30N/mm2).
Max. tightness 125 Nm.
Loading bolt 675 daN.

8. TRAVERSING TROLLEY

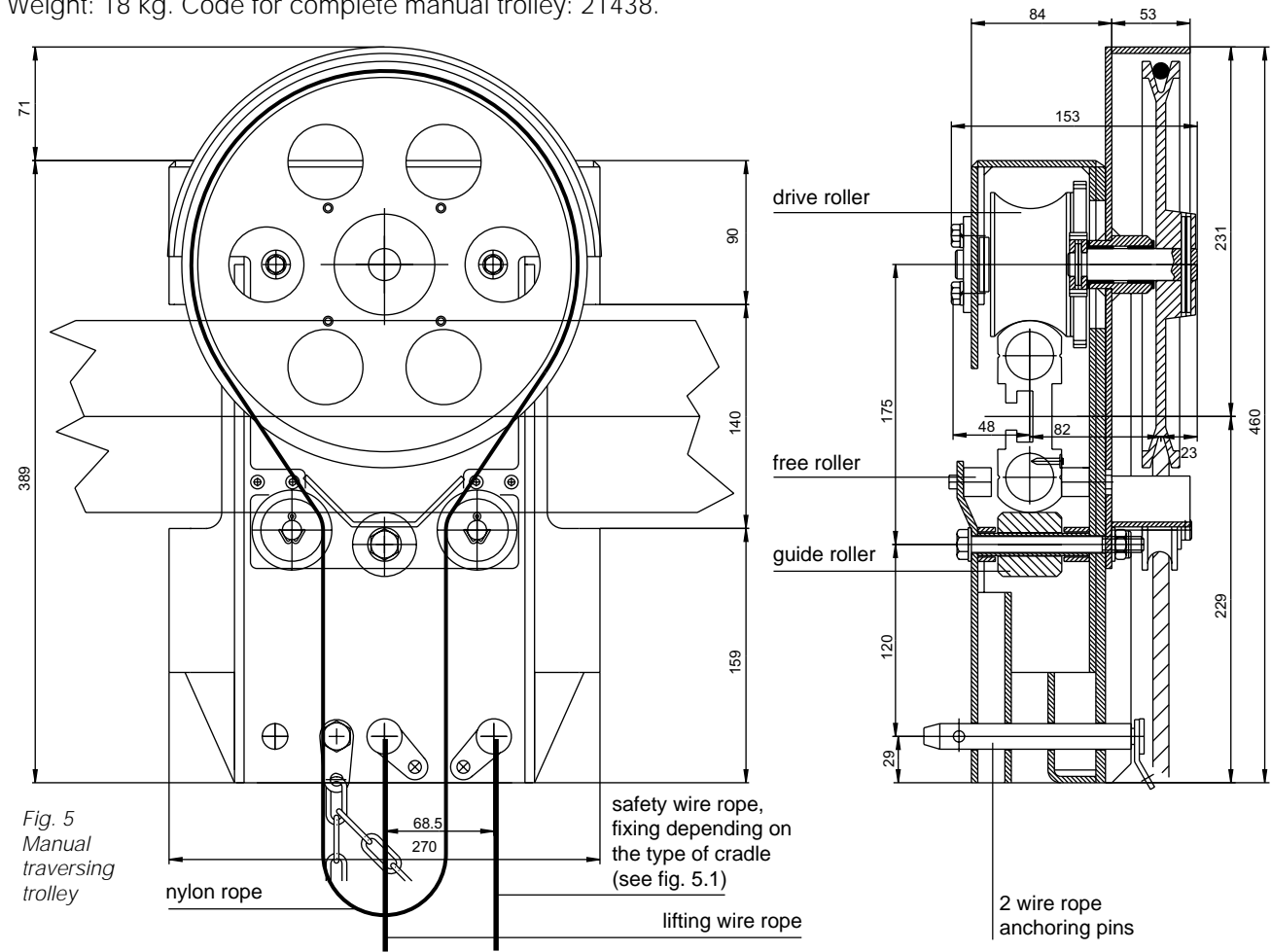
The traversing trolley is designed for a solo cradle or SOLSIT powered seat, **on a single suspension system**, to pass around the corners of buildings. On straight parts 2 m or 3 m platforms may be used on two suspension points. The trolley comprises 2 travelling rollers and 1 guide roller, fitting around the rail. The rollers have a polyurethane tread to prevent wear to the rail.

The casing of the trolley is in stainless steel.

The trolley is either manually or power traversed.

8.1. Manual traversing trolley by endless rope (Fig. 5)

Generally, a manual traversing trolley is sufficient, since the effort required to traverse the trolley is low. Weight: 18 kg. Code for complete manual trolley: 21438.



8.2. Powered trolley (Fig. 6)

The trolley is powered using a completely enclosed geared motor with brake; level of protection IP 54, Class F insulation, suitable for use in tropical conditions. 3 phase 220/380 V or 240/415 V, 50 Hz.

Traversing controls right, left by push-button pendant control box on 3 m cable, including emergency stop.

Weight: 24 kg. Code for complete powered trolley: 21448.

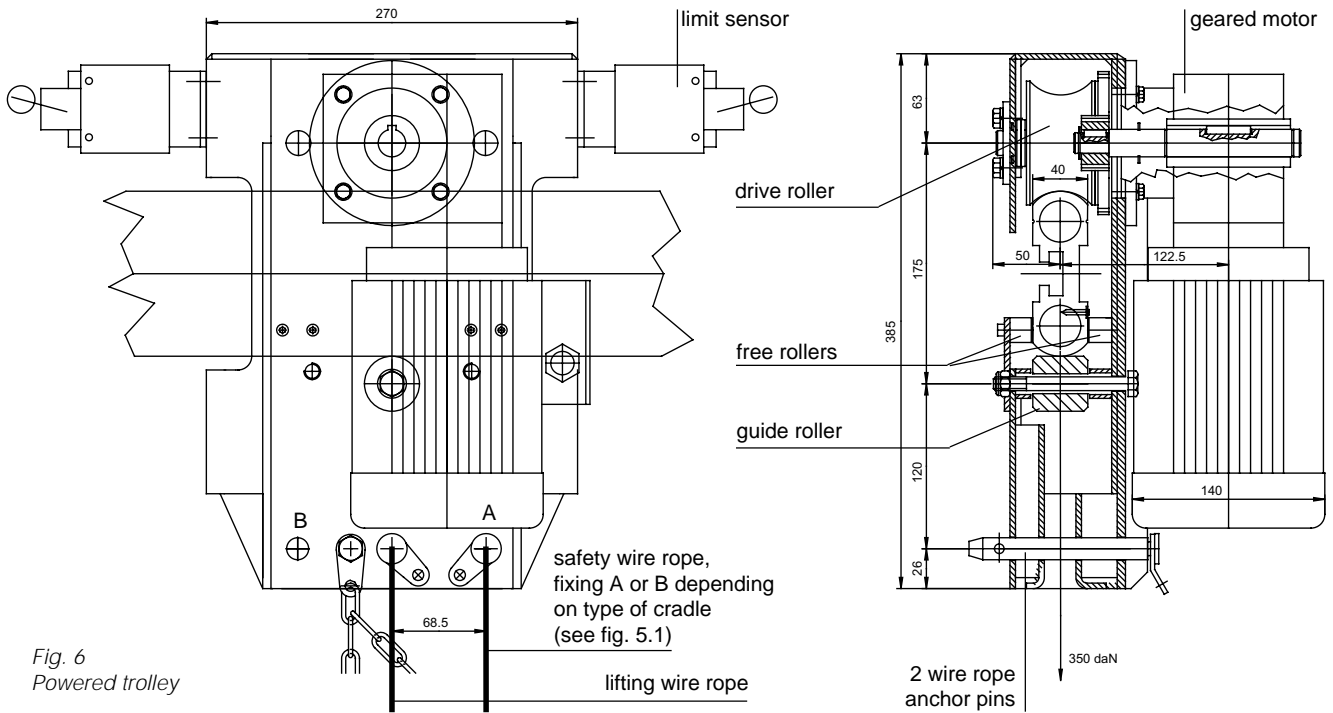


Fig. 6
Powered trolley

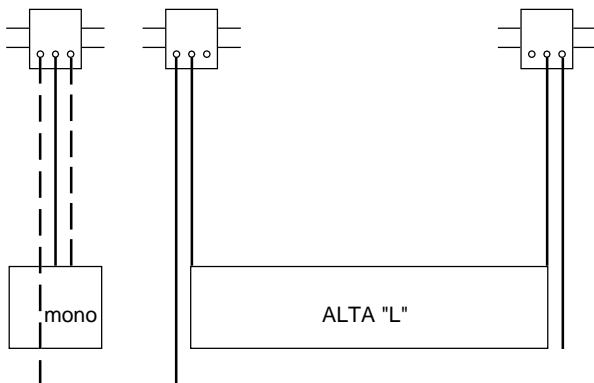
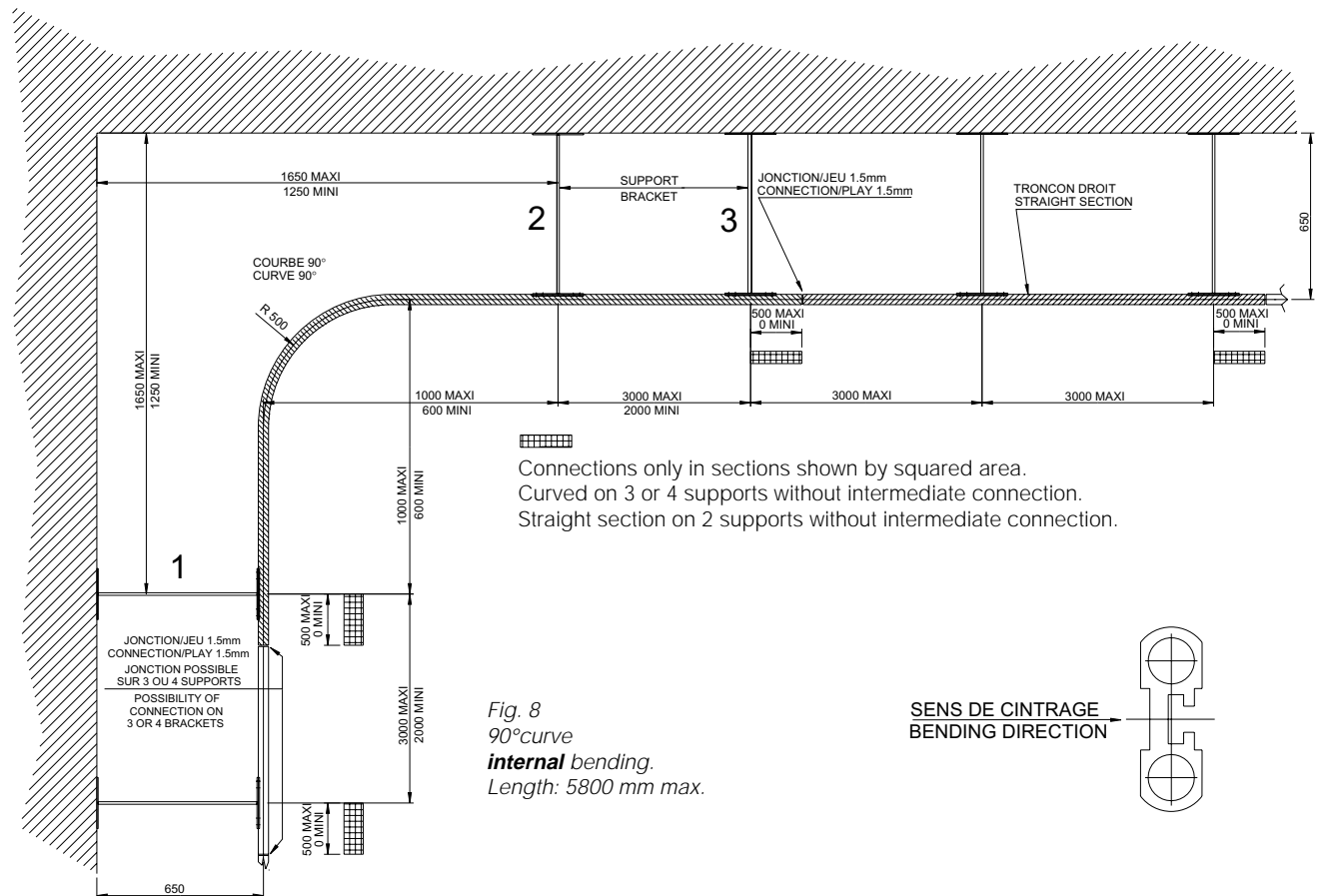
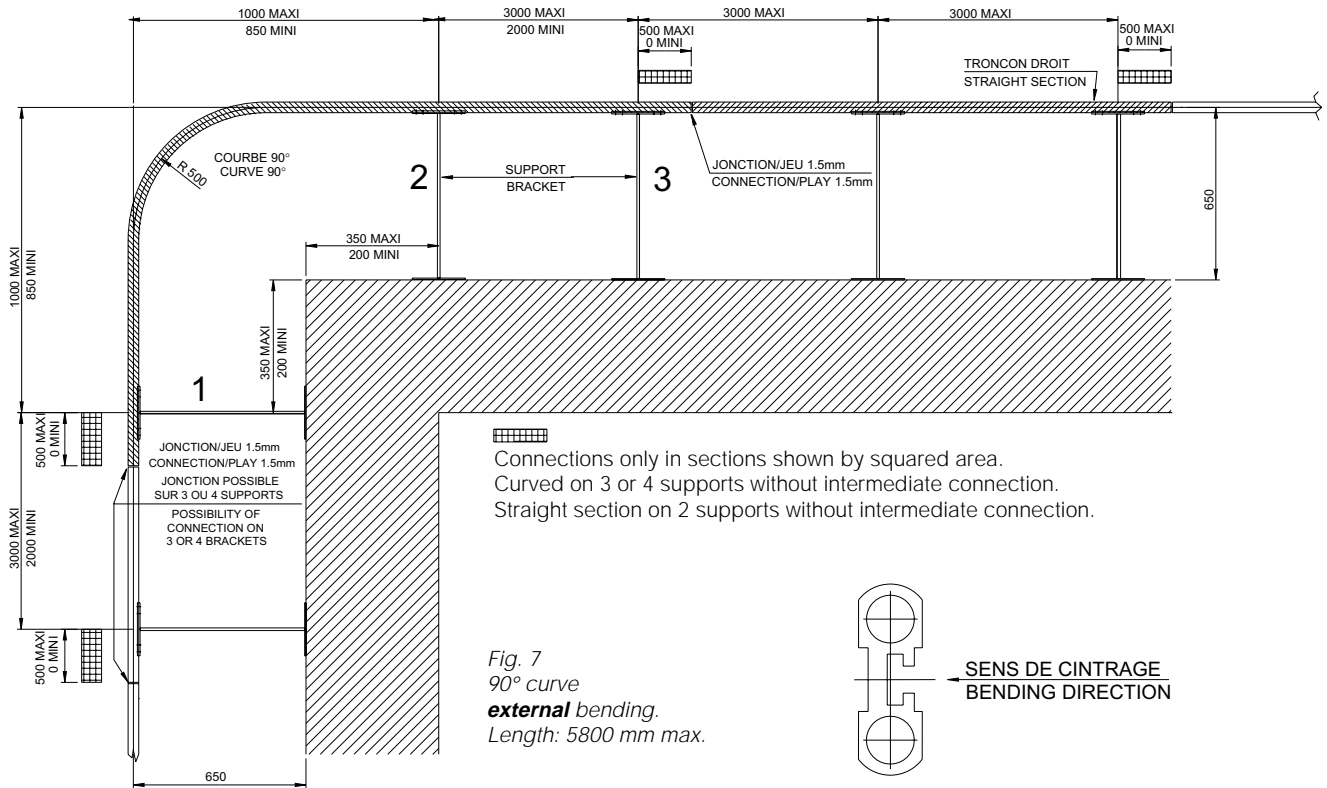
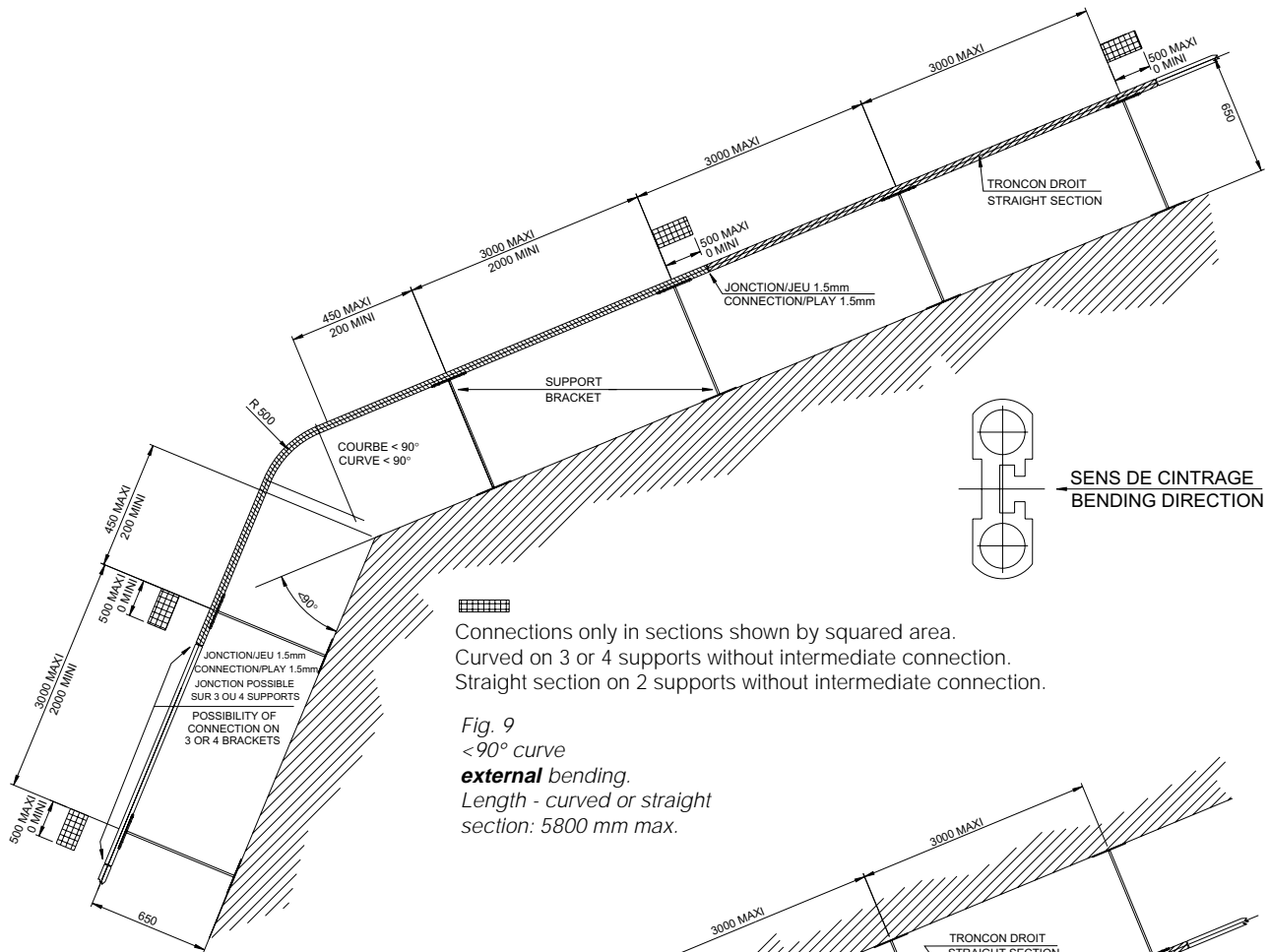


Fig. 6.1 - Arrangement of the lifting and safety wire ropes on the mono cradle or with two suspension points.

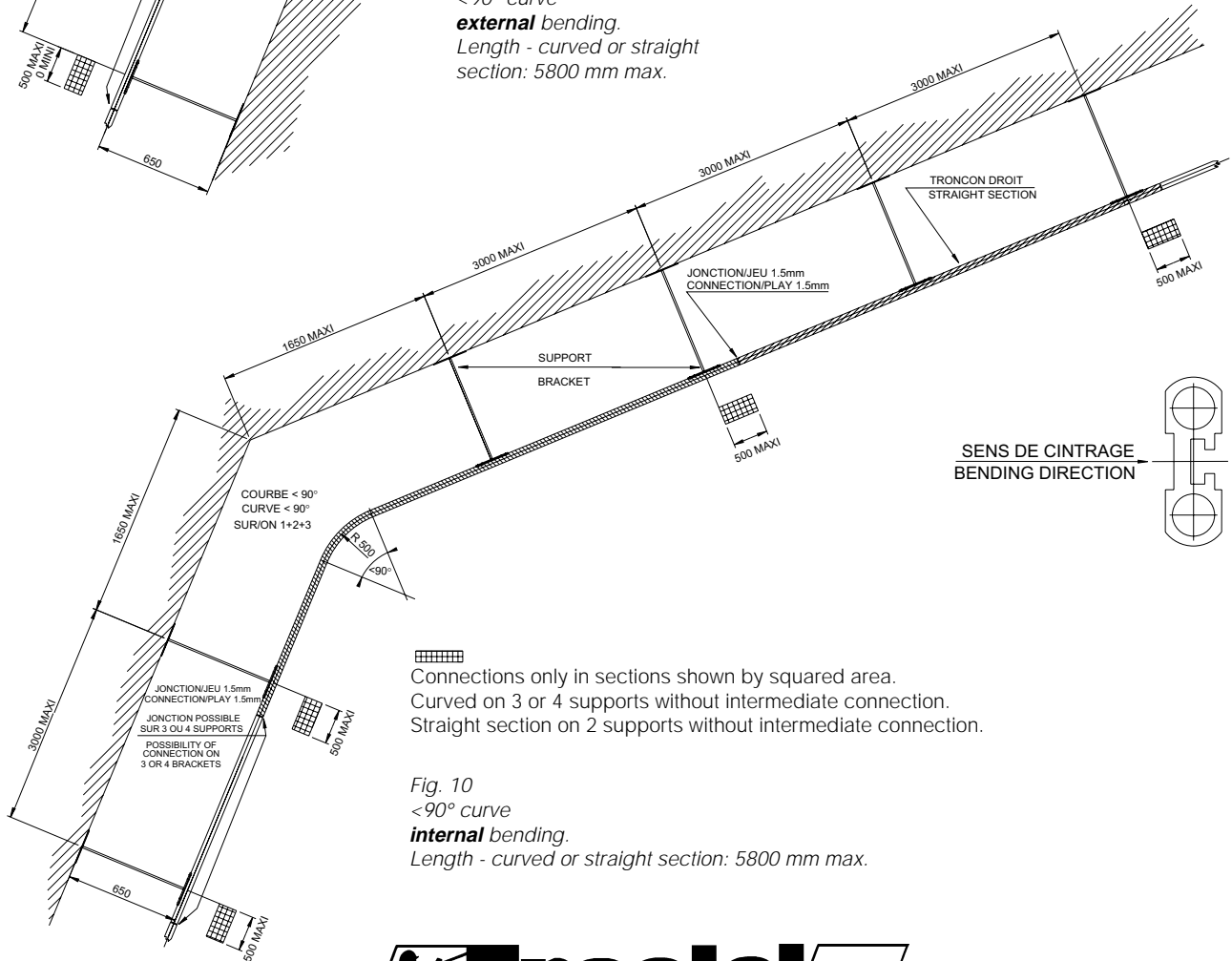
9. SEVERAL EXAMPLES OF APPLICATIONS





Connections only in sections shown by squared area.
Curved on 3 or 4 supports without intermediate connection.
Straight section on 2 supports without intermediate connection.

Fig. 9
<math>< 90^\circ</math> curve
external bending.
Length - curved or straight section: 5800 mm max.



Connections only in sections shown by squared area.
Curved on 3 or 4 supports without intermediate connection.
Straight section on 2 supports without intermediate connection.

Fig. 10
<math>< 90^\circ</math> curve
internal bending.
Length - curved or straight section: 5800 mm max.

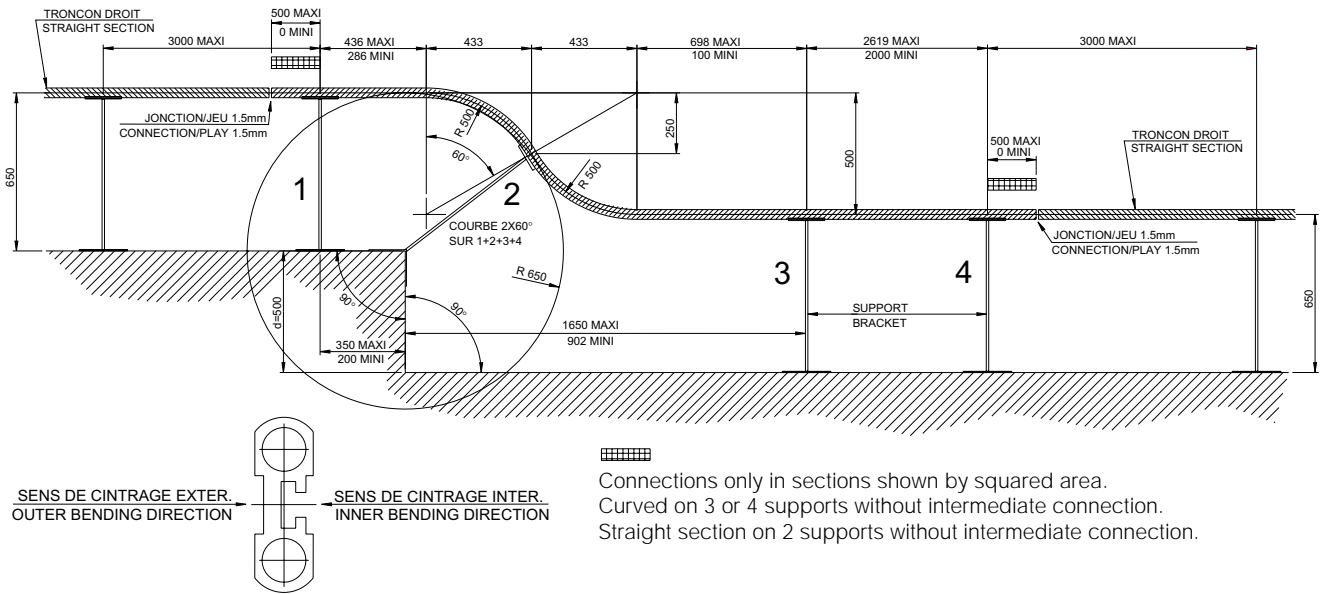


Fig. 11 - 2 x 60° for horizontal profile.
external and **internal** bending.
Length - curved or straight section: 5800 mm max.

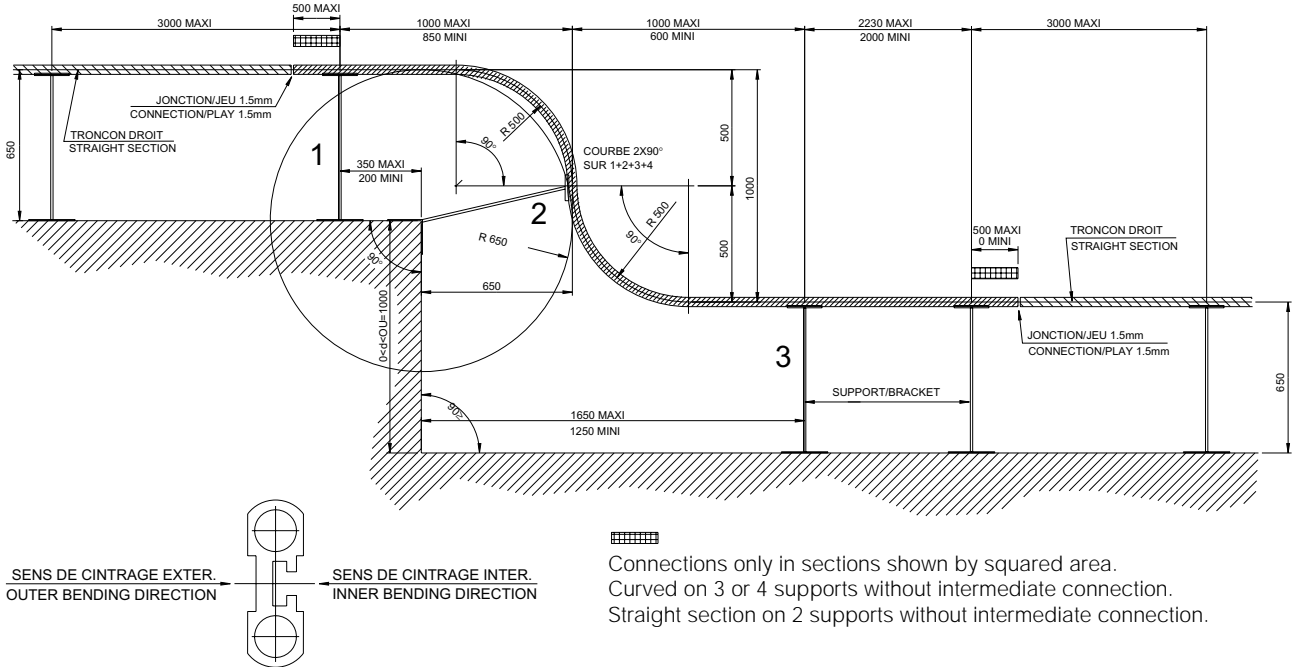


Fig. 12 - 2 x 90° for horizontal profile.
external and **internal** bending.
Length - curved or straight section: 5800 mm max.