

## **General tender text for CURVE MARKING SYSTEMS**

### **Technical delivery conditions:**

Manufacture and install the curve marking systems in accordance with the DIN EN 12676 - 1 and DIN EN 12676 - 2 standards.

Curve marking systems consisting of support tube holders, support tube, slat holders and glare protection slats.

The support tube bracket for mounting on the substructure must not be firmly connected to the support tube. The connection of the support tube holder/support tube must be made by clamping with two screws/support tube. The support tube bracket must be designed in such a way that there is an option for dilation and that differences in length of +/- 60 mm that have arisen during the installation of the substructure can be compensated for.

Support tube brackets for mounting on concrete sliding walls (New Jersey Barrier) must be designed in such a way that they are mounted on the concrete sliding wall (New Jersey Barrier) using 2 dowels or concrete screws at a distance of 4 m in the middle of the New Jersey Barrier. Fastening the support tube brackets outside the middle of the New Jersey Barrier is not permitted, nor is individual fastening of the glare protection slats on the New Jersey Barrier.

No parts may be welded to the support tube with the dimensions 45 x 45 x 2 mm. All connections on the support tube must be made by clamping.

The curve marking slats must be made of high-molecular low-pressure polyethylene (PE-HD-HM). They must be white and be sufficiently UV stabilized.

The curve marking systems slats must be designed as hollow bodies, they must be closed at the top and rounded on all sides. To ensure a good self-to achieve an effect, the Curve marking slats should be smooth on the outside (no ribs or reinforcements)

The curve marking systems slats must be spread at the bottom so that they do not bend when the sun shines on one side and spring back to their original position in the event of mechanical deformation.

The curve marking systems slats are to be clamped onto the supporting tube with a screw using slat holders. The connection between curve marking slats and support tube brackets must be made with 4 individual screw connections with nuts and washers.

A corresponding certificate of conformity with regard to DIN EN 12676 -1 -2 must be submitted when the offer is submitted.

Compared to DIN EN 12676 -1 -2, a speed of 44 m/s is required for testing in the wind tunnel instead of 40 m/s.

A corresponding certificate must also be submitted with the tender.

**Tender text:**

Supply and install curve marking systems consisting of support tubes and slats complete with accessories and brackets.

Slats made of low-pressure polyethylene (PE-HD-HM) smooth on the outside without ribs.

The slats must be spread out at the bottom and connected to the slat holder with 4 screws, nuts and washers.

Curve marking system slat width:	222mm
Colour:	white according to RAL 9016
Curve marking systems slats spacing:	666 mm
Curve marking systems slat height:	1,200 mm or 900 mm or 600 mm
Support tube:	45 x 45 x 2 mm

All metal parts, including screws and accessories, must be hot-dip galvanized.

The curve marking systems must be designed in such a way that it can withstand a wind speed of 44 m/s (160 km/h).

A corresponding certificate must be enclosed with the offer

xxx m	Deliver and assemble on EDSP/DDSP
xxx m	Deliver and assemble on ESP (Sigma post)
xxx m	Deliver and assemble on ESP (IPE 100 posts)
xxx m	Deliver and assemble on DSP
xxx m	Deliver and assemble on concrete sliding wall
xxx m	Deliver and assemble on the box section of the guard