GLÖTZL Baumeßtechnik

PLATE SETTLEMENT LEVEL - mechanical

- Complete system
- Bars of steel, galvanized
- Bars lengths 1 and 2 m with telescopic protection tubes

Type: GPSP – S 40/1
- V 40/1
Art. No.: 84.90

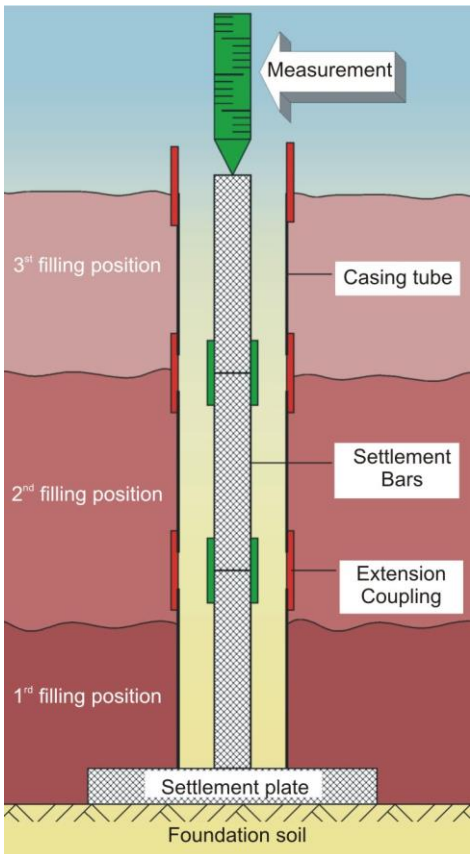

Plate settlement levels are simple auxiliary aids for the geodetic measurements to record the settlement in the backfill body and foundation base.

A well visible identification of the settlement levels is necessary for not being destroyed or damaged by construction activity.

For recording of the consolidation over a longer time, this is a simple equipment to determine – in connection with the conventional surface measurements – the consolidation in the backfield area and the underground behaviour regarding settlements.

The plate settlement levels are availabe with bars ½“, in models of steel, galvanized (water tube), material No. 1.4571 and can be delivered in lengths of 1 or 2 m.

Assemblage and function:

The assemblage is shown in the illustration opposite. The measuring level consists of a sole plate (settlement plate) with attached bars, which is elongated dependent on filling height. In order to keep away the influence of bulk material from measuring rod, a casing tube is slipped on it. This casing tube is available in two different diameters and with a length of 1 m and is inserted. By this, a telesopic-like connection is produced. This connection can absorb the settlement araising in the backfilling and ensure the free mobility of the settlement bars.

Measurement:

The upper end of the settlement bars is included in the geodetic height measurement. By the fix length of the bars, the altitude of the sole plate can de determined and thus also the height change of the embankment. Thus it is possible to judge the consolidation of the underground and also that of the embankment by corresponding measurement of the prevailing outline.

For protection during construction activities, it is recommended to put a shaft ring around, with which the measuring point is better marked and - to the greatest possible extent - is protected against influences by construction operation.

For adaption of the casing tube, it can always be attached in a shortened type.

Models and article numbers:

84.90	**Type GPSP-S40/1, model of steel, galvanized with ½ inch bars**
84.90.01	Sole plate of sheet steel, 400x400x5 mm, with protection tube 0.75 m long
84.90.02	Bars of steel, galvanized, ½ inch, in lengths of 1 m, complete with casing tube
84.90.03	Bars of steel, galvanized, ½ inch, in lengths of 2 m, complete with casing tube
84.90.04	Head point protection tube, Ø 40x2.4 mm, with cap 0.75 m long

Special models on request

Assembly:

- Lay settlement plate on a flat machined aera and assemble the first part of bars of 200 mm (accessories of settlement plate).
- Survey the geographic level of the plate.
- Screw on the first bars in a length of 1 or 2 m.
- Slip on the first casing tube and additionally the first telescopic casing tube at 2 m bars.
- Back-fill a protection angle of repose of bulk material and eventually install shaft ring for protection.
- Before reaching the end point of protection tube, elongate level with bars, and, if required, with casing tube or telescopic casing tube, and record it.
- In each case, fit level end with head point protection tube to prevent the dropping in of pollutants.
- According to requirement, the end of bars and the filling height have to be surveyed at ground-line.

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