

Settlement Plate

GA –SP Model V.1.01

Top Cap: GA-SP-TC

Coupler: GA-SP-CP

Base Plate: GA-SP-BP

Reference Pipe: GA-SP-RP



OVERVIEW

The Settlement Plate is an inexpensive system that can be utilized to monitor settlement in areas that are prone to significant deformation.

A base plate, a reference rod, galvanized steel couplers (used to connect the rod sections) and a top cap are included in the system, it can be assembled within minutes to trace deformation on dams, roadways, surcharges, embankments, foundations, as well as many more.

The settlement plate system can also be used in conjunction with other instrumentation to monitor the deformation.

you can order a GeoAnts “settlement plate set” which includes all the pieces necessary for proper assembling and use at the construction site. Your orders will be shipped immediately from our in-house stock.



Easy Setup and Use

Once the base plate is connected with one section of the reference pipe, it is placed on the surface of interest, the elevation of the ground and the reference pipe are then determined and surveyed to act as a benchmark. The base plate is then covered with the embankment fill and the other sections of the reference pipe are connected incrementally.

After the placement of the embankment, the elevation of the top of the reference pipe is surveyed and the elevation of the top of the embankment and the reference pipe are monitored regularly.

FEATURES

- Easy installation and cost efficiency.
- Dimensions: 60 cm x 60 cm with a 10 mm thick steel base plate.
- Reference Pipe: a 1 m long galvanized steel with 20 mm diameter, male threaded both ends.
- Coupler: Galvanized steel, female threaded at both ends.
- Top Cap: Galvanized steel, female threaded.

Application

- Fills and embankments
- Storage tanks
- Surcharges
- Dams
- Foundations
- Roadways

Ordering Details

- Please indicate the number of base plates required and the total number of reference pipes (each having 1 m length) needed to conform with fill height requirements at each location.
- Base plate comes with a special attachment piece and an extra protective steel section of $L=0.5$ m attached near the base.
- Base plates of different material (plywood) and dimensions are manufactured upon request.

