

HYDROSTATIC PROFILER METHODOLOGY

MODEL 4875

MS4875-01

The Geotechnical Systems Australia Pty Ltd [Hydrostatic Profiler](#) has been designed to measure vertical displacements at intervals along a semi-rigid access tubing.

The consumables are relatively low cost and the measuring instrument can be used on any number of installations.

MANUFACTURE AND SUPPLY

Geotechnical Systems manufacture the Hydrostatic Profiler. Profilers are held in stock in component form. Most orders can be supplied within two weeks of order. Should the order be in excess of our standard stock level then Geotechnical Systems will prepare an acceptable schedule of deliveries in consultation with the client to suit the construction program. The instrument is supplied by nominated courier or delivered to site by Geotechnical Systems staff. Geotechnical Systems is a Quality Endorsed Company conforming to AS/NZS ISO 9002:1994 and AS/NZS ISO 9001:2000.

INSTALLATION

Polypipe

Dig a trench 450(W) x 250(D) for the profiler access pipe to sit in. This trench should be dug with a low point at the centre and a gentle even gradient towards the edges, an increase in elevation should be included at each end of the trench where the pipe will exit the ground. The two end points should be surveyed to ensure that they are at the same elevation. At no point should the difference in elevation between the ends of the pipe and the lowest point of the pipe plus 150% of the expected settlement be greater than the range of the probe. The flatter the initial installation the greater the available range of settlement however more time will be spent de-airing the pipe. A 100mm layer of sand should be placed in the trench and levelled off. The poly pipe should be unrolled and laid out flat adjacent to the trench. Lengths greater than 100m can be made using a mechanical coupler or a butt-weld. The pipe should be laid on the prepared sand bed and piles of sand placed on top to hold it in position. Backfill may now commence. A concrete pad should no less than 400 x 400 x 200(D) should be constructed.

Filling

The pipe should be filled with clean water from one end only. The other end should be open to the atmosphere. Filling should be slow and constant. The filling should continue until the water runs clear of bubbles at the other end.

Operation

Operation of the instrument is detailed in the Model 4875 Hydrostatic Profiler Operation Manual.

COMMISSIONING

Geotechnical Systems will commission instrumentation in the presence of the client's representative. Training will be given in the use of the equipment as required. A record of all installation data will be kept and provided to the client after commissioning is complete.

WARRANTY

All Geotechnical Systems products are warranted for a period of 3 months from date of supply.



ISO 9002 Lic 4022
Standards Australia

GEOTECHNICAL SYSTEMS AUSTRALIA PTY. LTD.

Specialists in Geotechnical Instrumentation

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