

STANDPIPE PIEZOMETER METHODOLOGY

MODEL 1000







MS1000-01

The Geotechnical Systems Australia Pty Ltd [Standpipe Piezometer](#) is installed in a drill hole. This document details our standard methodology.

MANUFACTURE AND SUPPLY

Geotechnical Systems manufacture Standpipe Piezometers at our Melbourne factory. Piezometers are held in stock. Piezometers and associated equipment are shipped as per the client's requirement when the order is placed. 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. Piezometers are 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

-  The borehole should be of a minimum 75mm diameter, the optimal diameter is 100mm to allow placement of bentonite and sand. The borehole should be over-drilled by 300-500mm to ensure that the hole has enough depth for installation. The hole should be dipped with a weighted tape to ensure the depth is correct.
-  Pull the casing (if used) to allow placement of the lower bentonite plug. Slowly add Model 1100-14 Bentonite Pellets to bring the pellets up to the required level. Use the weighted tape to confirm the depth. Add sufficient water to wet.
-  Measure the length of conduit required and glue a connector onto each length (Always place glue on male end and push into female end). Pull the casing (if used) to allow placement of the filter sand.
-  Assemble the lengths onto the piezometer tip as the instrument is lowered down the hole, pausing to allow the glue to set at each connection. When the piezometer is at the right elevation hold firmly in place and slowly pour filter sand around the piezometer until the correct sand elevation is reached.
-  Pull the casing (if used) to allow placement of the upper bentonite plug. Add sufficient water to wet. Allow the bentonite to hydrate for 4 hours or alternatively tamp the upper seal to form a solid crust that will withstand grout ingress.
-  Withdraw the casing (if used) and tremmie grout the hole with a 10:1 Cement/Bentonite Grout with sufficient water to pump. Install a Model 8012 Well Cover and Mass Concrete Surround. Clearly identify the instrument for future monitoring.

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.



GEOTECHNICAL SYSTEMS AUSTRALIA PTY. LTD.

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