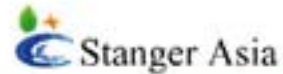


Static Load Test



STANGER ASIA can provide the complete monitoring service for the Static Load Test on pile up to the designed load of 1500t.

The compression load test was carried on a steel H-pile utilized the kentledge as a reaction system. In principle, the ultimate bearing capacity of a pile were determined by increasing the vertical load on the pile until failure occurs; the load at failure was the ultimate bearing capacity.

The maintained load test:- the load is applied in increments by jacking against a reaction. Under each increment the settlement of the head of the pile is measured as a function of time until the rate of settlement becomes very small. A new increment is then added. The rise of the head of pile is also measured when the load is removed. The result of the maintained load tests in which the test load is plotted as a function of the settlement of the pile head.



TEST Equipment

Measurement of load: the measuring system consists of hydraulic jack system, load cell and LVDT linked to electronic data logger. The hydraulic jack used is a large diameter low pressure jacks with a max travel of 180mm. Capacity to 15000t.



The pressure is applied (max 15000 ton) by the hydraulic jack using motorized pump unit and pressure gauges are fitted to check on the load. The load cell with a capacity range up to 15000 tons is used as an independent load measuring device.

Measurement of the pile head movement - four numbers of LVDT (linear variable differential transducer) are used for measuring pile head settlement. These LVDT sit on the pile head or on brackets mounted on the side of pile. The vertical displacement readings are taken and recorded by the electronic data logger automatically.



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