

LOAD TESTING SOLUTIONS

CAPABILITY STATEMENT

Our reputation as being an innovative solution provider is based on our demonstrated ability to develop and adopt contemporary construction technologies to broaden the application, improve the quality, and enhance the efficiency of the delivery of civil and commercial construction projects.

PilePro are capable of assessing the physical performance of piles and offer both static and dynamic pile load testing services in compression and tension up to 10,000 kN (1,000 tonnes) on production and/or test piles.

Static pile load testing directly measures the pile head displacement in response to a physically applied test load using either weights or jacks to allow the serviceability, or design load plus overload, of the pile to be proven. Advanced instrumentation is used to monitor the pile during testing, and with the use of additional instrumentation the capacity profile along the length of the pile can be measured. Our static pile load testing services have performed physical assessment of pile performance up to 10,000 kN (1,000 tonnes).

Alternatively, the direct monitoring of the pile acceleration and displacement to a hammer mass acting against the pile allows dynamic pile load testing to prove the serviceability, or design load plus overload, of a pile. PilePro can perform these complex calculations and interpret the results using either the Hiley Formula, or through the use of strain and acceleration transducers, record the stress waves travelling through the pile for interpretation (PDA testing). Production piles are tested to prove the serviceability or design load plus overload, and sacrificial piles can be loaded to failure.

We use our excavator mounted accelerated hammer to perform dynamic pile load testing to demonstrate capacities in excess of 3,000 kN (300 tonnes). This is a cost effective solution for testing on most sites from open areas to confined spaces or limited headroom.

As the ram is driven down as well as lifted up it enables the hammer to operate at any angle to demonstrate capacities.

If required, PilePro are also able to provide drop hammers up to 8 tonnes in weight for demonstrating pile capacities up to 8,000 kN.



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