



FONDYTEST

PILE DYNAMIC LOAD TESTING

A pile dynamic load test is a reliable alternative to a static load test for a fraction of the time and cost. The test result, a load-bearing curve per tested pile, allows the contractor to assess the performance of the pile. Thanks to our team's experience, Fondytest offers efficient, reliable, and cost-effective dynamic load tests.

A dynamic load test (DLT) consists of applying a dynamic load on a pile, using a suitable ram or drop weight, while measuring signals from top-mounted sensors connected to a Pile Driving Analyser (PDA).

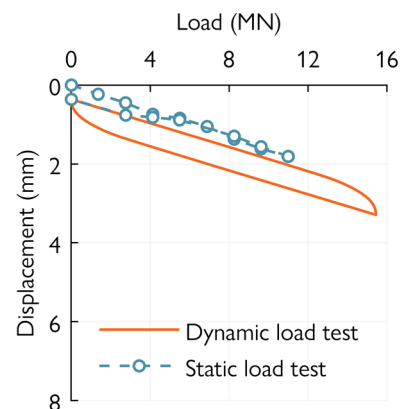
The acquired signals are then analysed with the CAPWAP software to determine the static load-settlement behaviour of the pile.

Combined with static load test, a dynamic load test campaign enables a

rigorous quality control of the performance of piled foundations.

A dynamic load test can be performed on any pile type as long as it has full length reinforcement.

Our team has over 30 years of experience in dynamic load testing and a LEAN culture. This enables us to tackle any project with great confidence.



Static and dynamic load test results on the same pile

ADVANTAGES

A Fondytest pile dynamic load test is:

Efficient

Depending on the site conditions, our team can perform up to 8 dynamic load tests per day. As a comparison, it takes 3 days to perform one static load test.

Reliable

Fondytest is a spin-off company of the Université catholique de Louvain, in Belgium, and its founders have over 30 years of experience in dynamic load testing.

Cost-effective

You get more results than a static load test for a fraction of the cost.



PRESENCE

We are available in the following countries: Angola, Botswana, Burundi, Ethiopia, Eswatini, Gabon, Lesotho, Mauritius, Namibia, Réunion, Rwanda, South Africa, Seychelles, Uganda, Zambia, and Zimbabwe.

PILE TYPES

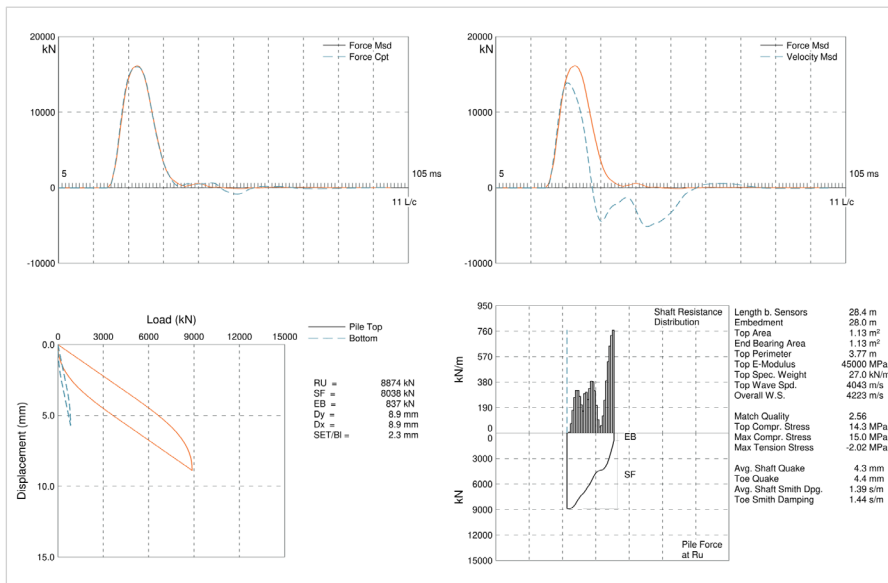
All pile types are eligible for a dynamic load test: bored, CFA, screw, driven cast-in-situ, precast driven... assuming they have full length reinforcement.

There is no limitation with regards to length, diameter, or test load. We have successfully mobilised static capacities in excess of 40 MN (4000 tons).

REPORTING

Our report include:

- Simulated static load test plot
- Pile integrity
- Shaft friction distribution
- Shaft vs base resistance
- Pile stresses during the test



The test is standardised by the XP P 94-152, ISO 22477-4, and ASTM D4945 standards. Our operators have at least passed the Advanced level of the Pile Driving Contractors Association's PDA Proficiency test.

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