



Geo Jarf Azma Consulting Engineers

Established from 2011 with the mission to implement geophysical studies related to geotechnical engineering.

Today, the company's main activity targets specialized geophysical projects within geotechnical schemes and other relevant fields such as mine exploration and other subsurface detecting approaches by highly trained geophysicists and geological experts and technicians with Doctoral and Master Degrees in geophysics, mine engineering and other geological sub branches.

Pile Integrity Test (PIT)

Method and Application

PIT test is an example of non-destructive approach for investigating pile integrity and well-being, which has become conventional due to its ease and cost-effective benefits.

The Pile Integrity Tester gives a high level of reassurance that a pile or shaft is free of major cracks and voids prior to construction of the superstructure, additionally it may be used on most concrete foundations.

The PIT test consists of setting one accelerometers to the foundation, and using a hand held hammer to apply the impact. The PIT collects the acceleration data and displays curves which reveals any significant changes in cross section that may exist along the shaft of the actual pile length.



PIT Services

1. Actual pile length, or depth to anomalies, pile head stiffness, pile shaft mobility.
2. Fluctuations in pile diameter.
3. Mapping the cross section of the pile.
4. Finding unusual and damaged piles.

Facilities and Appliances

1. Sonic pile appliances for long wave (sonic) acoustic method.
2. Ultrasonic appliance and subsidiary tools for short wave (ultrasonic) acoustic method.

