

HOLE PROFILING PILE IMAGING TEST

SOUND WAVE THEORY

CN/DBJ32/TJ117

Technical Specification for the Quality Inspection of the Hole of Deep Foundations

The HPPIT detects the internal diameter of the hole for drilled bored piles, caissons, barrettes, diaphragm walls and other concrete structures prior to commencing concrete placement.

Test Tip

To check pile verticality within the allowable limit of $V < 1/75$; where V: verticality of pile.

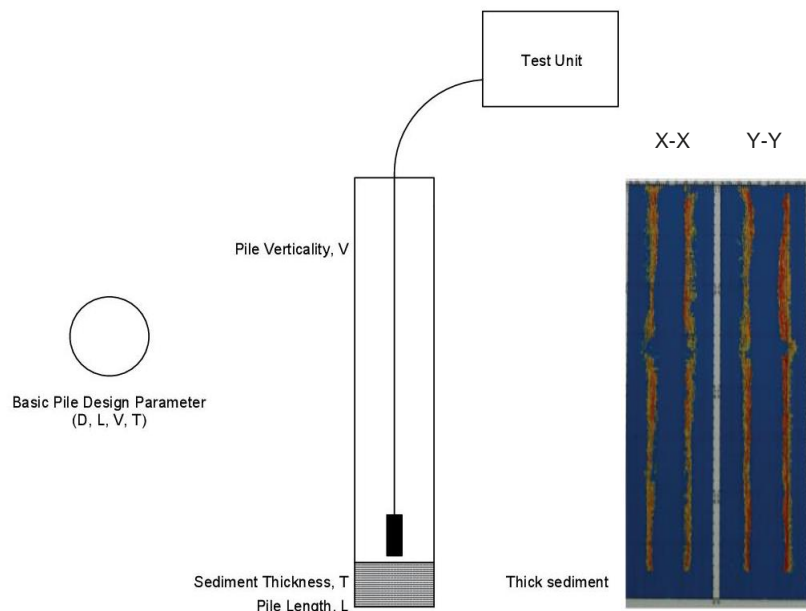
To check soil sediment thickness within the allowable limit of $T < 50\text{mm}$ for bearing pile or $T < 300\text{mm}$ for skin friction pile; where T: thickness of sediment.

The soil sediment thickness, T, will increase with time to ready the borehole to concreting. To eliminate the soil sediment thickness problems, use the innovative technology.



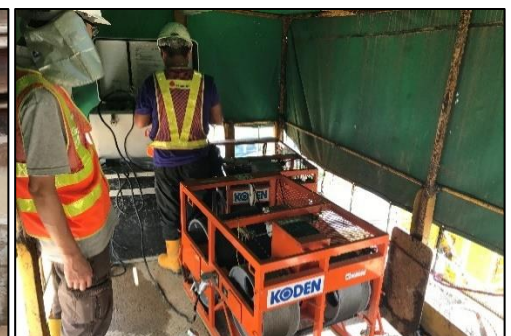
Hole Profiling Pile Imaging Test

The Hole Profiling Pile Imaging Tester (HPPIT) is a state-of-the-art testing equipment to perform hole profile (or shape) of a drilled bore hole (or spun pile hole) by plotting the hole profiling to verify the pile verticality (or alignment) prior to concrete placement.



Pile Design	Pile Verticality, V	Sediment Thickness, T
Skin Friction	$V < 1/75$	$T < 300\text{mm}$
Base Bearing	$V < 1/75$	$T < 50\text{mm}$

The soil sediment thickness will be determined by sediment sensor. The pile base cleaning shall be continue if the sediment thickness exceeding the allowable thickness. To guarantee the solid base, please use TremieMATE.



*Pictures are from Internet



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