



TTT SED and Uglie Poles

TTT SED and Uglie Poles were used to provide several solutions on a challenging building site - deep piles, in-ground and above-ground retaining walls. The site was located in Coatesville, Auckland.

Project background:

- A new dwelling was to be built on a challenging site.
- The project was completed by the contractor in 2017.

Why use TTT Poles:

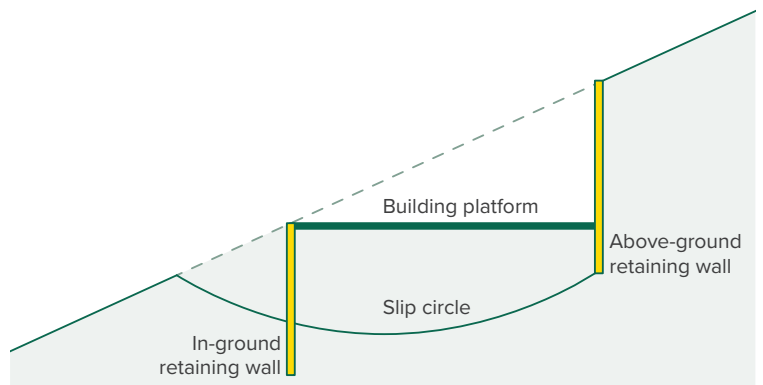
- The ground conditions were soft, uncertified fill.
- The site was sloping.
- The site needed to be stabilised to provide a flat building platform.
- The customer required a fast installation solution with minimal disturbance to the site.
- TTT Poles were identified by the contractor as being the best, most cost effective solution that would satisfy the project requirements of deep piles, in-ground and above-ground retaining walls.

How TTT Poles were used:

- TTT SED and Uglie Poles were ordered by the contractor.
- TTT SED Poles are naturally tapered, machine-peeled poles. Minimal wood is removed during processing so each pole retains its strength.
- TTT Uglie Poles are similar to SED poles but are debarked rather than peeled. They offer greater skin friction when used as piles, and are stronger than SED Poles.
- TTT supplied 6.0-9.0m x 200mm SED Poles for the deep piles. These piles were installed under where the concrete slab and load bearing walls for the dwelling were to be constructed.
- TTT supplied SED Poles in a range of lengths and diameters for the above-ground retaining wall. This wall was constructed on the up hill side of the site where the cut had been made.
- TTT supplied 4.8m x 300mm Uglie Poles for the in-ground retaining wall. This wall was required to create slope stability on the site. The Uglies were installed at 750mm centres, on the down hill side of the site at the toe of an identified slip circle.
- The contractor installed the poles using high frequency vibration.



Photos courtesy of Markovina Pile Driving



Slip circle diagram