



Key achievements

- Alternative solution
- Green solution
- Provided Keller niche product to market sector

• Project

This area is a reclaimed dump site, bulk earthworks were used in cut to fill operation to provide prospective clients with large platforms to construct their warehouses on. The area is ideally positioned to feed the attractive Durban North area.

• The challenge

The fill operations consisted of backfill up to 30m depth with potential settlements of 500mm. The cut exposed in-situ soft rock areas with zero expected settlement, thus the worst possible soil properties for a single warehouse to be constructed on.

• The solution

We offered an alternative soil improvement solution instead of a piling solution, thus making the project economically viable.

Our solution consisted of Vibro Stone Columns in grids to varied depths, depending on the depths of the fill on the specific platform as required for each individual warehouse. We designed and installed a customized soil treatment solution for each warehouse. A total of 5 632 vibro stone columns were installed.

Application

Ground improvement

Technique

Vibro Stone Columns

Market

Industrial / Warehouses

Client

JT Ross

Main contractor

WBHO & Keller

Contract Value

R19 170 000.00

Keller companies

Keller Geotechnics SA (Pty)
Ltd. – Durban Branch

“Thanks for your professional service” Andre Procter from JT Ross