



Key achievements

- Contract was successfully completed on a strict contractual program.
- Excellent load deflection performance of Franki enlarged-base piles verified by pile load testing.
- Zero LTI was achieved through well established and stringently monitored HSEQ procedures.

The project

Extension of existing Ballito Junction shopping centre in Durban, South Africa with 55 000m² leasable area. Franki Africa was responsible for the design and construction of the 14m high permanent lateral support wall and foundation piles.

The solution

Lateral support included continuous flight auger piles installed at 2.5m spacing with gunite arch between soldier piles. Strand type ground anchors with capacities of between 450 and 750kN were used to provide lateral restraint to the soldier piles. Foundation piles were 6m, predrilled Franki enlarged-base piles with diameters ranging from 410 to 610mm and compressive load capacities of between 1000 to 2000kN. Pile load test indicated good performance with settlements within 5mm under service load conditions.

The challenges

The project is located on a steeply sloped site where earthworks filling operation were required to create piling/building platforms. Careful planning and constant communication with the professional team and other contractors was required to manage the interface and operations of all parties on site and ultimately meeting the stringent programme agreed with the client.

Application

Piling & Lateral Support

Technique

Pre-drilled Franki Piles, Soldier Piles, Soil Anchors, Gunite

Market

Shopping Centre

Client

Flanagan & Gerard Property Developers

Main contractor

N/a

Contract Value

R35m

Keller companies

Franki Africa – Central Region

“Well done on an excellent job FRANKI!”

Commercial Director, Residential Developer