

Werksmans Office Block

Design and Construct of Lateral Support System in Sandton, Gauteng, South Africa



Project Facts

Owner

Investec Properties

Client

Investec Properties

Consultants

Pure Consulting (Engineers)

Quantity

- 72 No. Soldier Piles
- 3 130m² Gunite & Anchors
- 110 000m³ Excavations

Period of time

June to November 2015

Franki Africa

674 Pretoria Main Road,
Wynberg, Sandton

P.O. Box 39075, Bramley, 2018
South Africa
Tel. +27 11 531 2700
info@franki.co.za

www.franki.co.za

The site was predominantly underlain by the Sandton Granites of the Archaean Group with the majority of the basement excavation taken place within the deeply weathered residual granite.

After the demolition of the old structure was concluded, a portion of the basements were left in place, the walls propped by building rubble. The proposed basement position clashed with the old basement walls and the lateral support design had to integrate this condition. A combination of heavy whaler sections were installed to support the old basement walls and combine this with the new basement design.

To the east of the works, another basement project was simultaneously underway. Careful, considerate planning and co-ordination was implemented to allow for safe and uninterrupted construction programmes on both projects.

A scraped gunite finish was applied to the walls culminating in a high quality product offering a saving to the client as no additional work was necessary as in the form of brick walls to the basement.

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