

# Stefanutti Stocks Geotechnical

celebrates a few  
milestones since inception

Source: Tiaan Erasmus, Stefanutti Stocks Geotechnical commercial director

*As a leading Southern African geotechnical contractor, Stefanutti Stocks Geotechnical continues to pursue excellence in execution by putting its years of experience across multidisciplinary geotechnical capabilities and services to work to the benefit of its clients.*

## 2003

In 2003 Stefanutti & Bressan established a piling division.



## 2005

Two years later the company made a substantial capital investment into modern equipment and with this equipment it established an independent piling company in Gauteng. Named S&B Geotechnical & Piling to reflect its multidisciplinary geotechnical offering, this new company offered the market piling works, lateral support and consolidation and compaction grouting.

One of its first major contracts in the Gauteng area was for the PFG glass factory in Springs. This project consisted of bulk earthworks, lateral support and piling, and required:

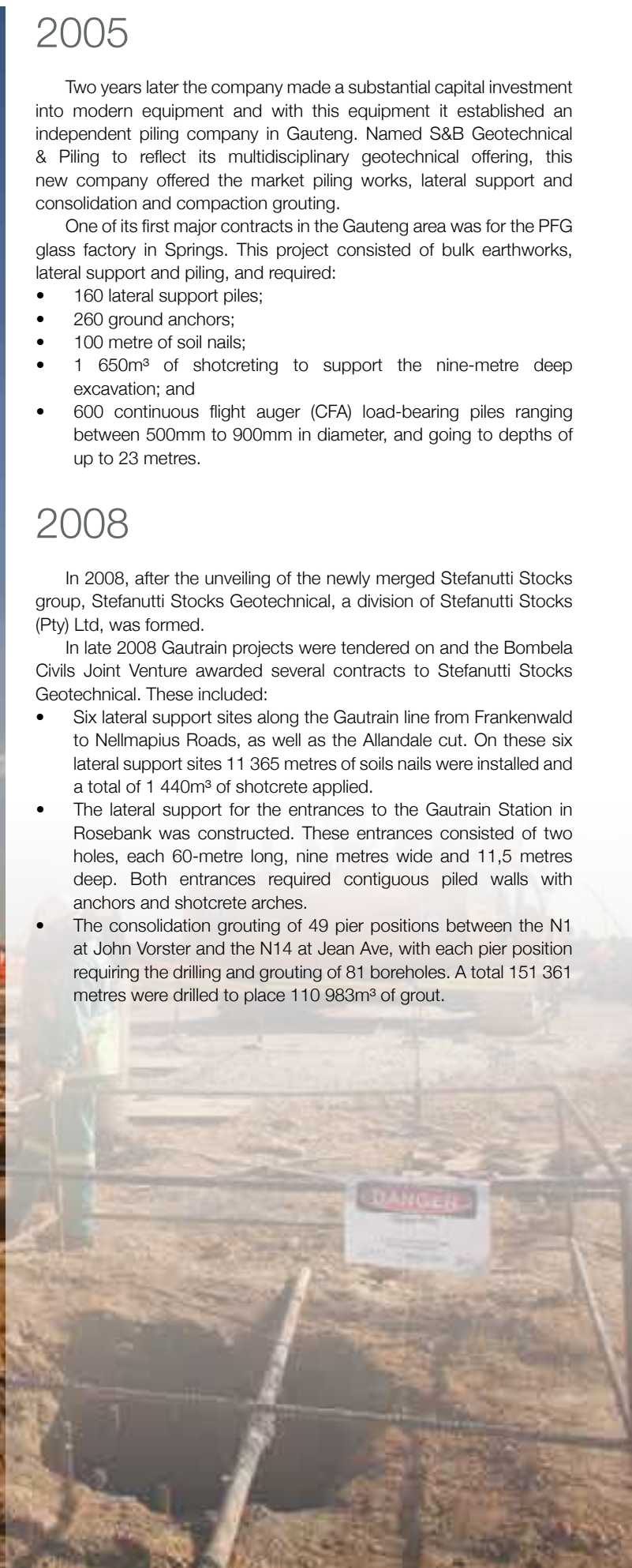
- 160 lateral support piles;
- 260 ground anchors;
- 100 metre of soil nails;
- 1 650m<sup>3</sup> of shotcreting to support the nine-metre deep excavation; and
- 600 continuous flight auger (CFA) load-bearing piles ranging between 500mm to 900mm in diameter, and going to depths of up to 23 metres.

## 2008

In 2008, after the unveiling of the newly merged Stefanutti Stocks group, Stefanutti Stocks Geotechnical, a division of Stefanutti Stocks (Pty) Ltd, was formed.

In late 2008 Gautrain projects were tendered on and the Bombela Civils Joint Venture awarded several contracts to Stefanutti Stocks Geotechnical. These included:

- Six lateral support sites along the Gautrain line from Frankenwald to Nellmapius Roads, as well as the Allandale cut. On these six lateral support sites 11 365 metres of soils nails were installed and a total of 1 440m<sup>3</sup> of shotcrete applied.
- The lateral support for the entrances to the Gautrain Station in Rosebank was constructed. These entrances consisted of two holes, each 60-metre long, nine metres wide and 11,5 metres deep. Both entrances required contiguous piled walls with anchors and shotcrete arches.
- The consolidation grouting of 49 pier positions between the N1 at John Vorster and the N14 at Jean Ave, with each pier position requiring the drilling and grouting of 81 boreholes. A total 151 361 metres were drilled to place 110 983m<sup>3</sup> of grout.





2012



## 2010

Stefanutti Stocks Geotechnical, as the lead partner in a 50/50 joint venture, was awarded the piling to the Kusile Power Station. The in-situ ground conditions at the power station necessitated extensive piling including the casting of some auger in-situ piles up to 25 metre deep. These varied from 800mm to 1200mm in diameter.

At the end of an almost five-year programme, which saw the civil contractors working on various work packages across the power station, the joint venture had installed a total of 8 540 piles, used 777 725m<sup>3</sup> of concrete and 9 229 tons of reinforcement, as well as having drilled 12 882 metres for the installation of the piles.

In 2010 Stefanutti Stocks Geotechnical also successfully completed their first major cross-border project in the Tonkolili district in Sierra Leone. The success of this project saw Stefanutti Stocks Geotechnical expand their geographical footprint into Africa

## 2012

During this period, an increase in basement development in upmarket areas like Sandton, Menlyn, Brooklyn and Rosebank was experienced.

Some of the basement construction completed, within a relatively short period of time, included:

- Sandton City Repositioning Project;
- Menlyn Maine Epsilon Building;
- Menlyn Maine Falcon Building;
- Menlyn Maine Pegasus Building;
- Brooklyn Point Office Block;
- Corobay Corner Office Block; and
- Boardwalk Hotel, Port Elizabeth.

2015



## 2015

Stefanutti Stocks Geotechnical successfully completed the design and supply contract for the deep foundations to the Kazerne Transit-Oriented Development project in Newtown, Johannesburg. This comprised of 25 039m<sup>3</sup> of bulk earthworks, 1 750m<sup>2</sup> of permanent lateral support, 440 structural piles and temporary traffic diversion.

The piling work comprised of 242 Continuous Flight Auger (CFA) piles, installed up to 23 metres deep; 133 polymer-technology drilled piles installed to a depth of up to 30 metres deep; as well as 65 Auger Cast In Situ (ACIS) Soldier piles installed to depths of up to nine metres.

2017



## 2017

“We have, since the beginning of 2017, been awarded thirteen contracts across South Africa,” says Tiaan Erasmus, Stefanutti Stocks Geotechnical commercial director. “These include the award of the lateral support, bulk earthworks and dynamic compaction contract for the Lakeside Towers development in West Avenue, Centurion.” The geotechnical project for Exxaro’s new head office is due for completion at the end of July 2017.

What makes this project particularly challenging is the fact that Centurion is classified as a high risk dolomite area. It has a high inherent risk of very large size sinkhole and doline formation, which required the implementation of a dolomite risk management strategy, including the appointment for a dolomite risk manager to the project.

“We have previously worked in the Centurion area and are looking forward to applying our geotechnical skills to the benefit of this project, as well as to all present and future projects,” concludes Erasmus.