

Olievenhout Plaza

Client: McCormick Property Development

Consultant: Hannes Hattingh

Consulting Engineers

Main bulk earthworks contractor: Infracor

Block Supplier: Aveng Manufacturing Infracor

Contract duration: 4 Months

Face Area: 1150 m²

Hannes Hattingh Consulting Engineers approached EIS during the design stage of the project, to construct an 85° concrete block retaining wall. The purpose of the wall was to retain the fill embankment for a Shoprite Checkers which was constructed 1m from the edge, at the highest section of the retaining wall. The height of the retaining wall varies from 1.5m to 6.5m. Infracor InfraBlok™ 350, split face, Sahara was used for the facing. High tenacity polymer coated polyester reinforcement was used as soil reinforcement. EIS worked closely with Infracor to finish the retaining wall at the same time as the platform.

Infracor Terrace Blok® TB300, open face, Grey concrete block walls were constructed at critical sections on the cut embankment face. There was a high amount of subsurface water on the site and water naturally filtered through the embankments. A bidim and stone blanket drain were installed behind the geosynthetic reinforced backfill, to drain the water to subsurface drains in front of the retaining walls.

