



# Razormart, Linbro Park

**Consultant: Civil Consult**

**Main Contractor: Liviero Building**

**Client: Razormart**

**Block supplier: Aveng Manufacturing Infraset**

**Approximate time: 2 Months**

**Face Area: 1880 m<sup>2</sup>**

During the tender stage of this project, EIS presented an Infraset RidgeBlok™, closed face retaining wall with geosynthetic reinforced soil as an alternative to the conventional concrete retaining wall. This choice of wall is firstly economically more viable and secondly faster to construct. The wall reaches a height of 8.5m and has an 85° face angle. The ultimate goal was to design a wall that could carry the load of a concrete beam for a slab that forms part of the building.

An existing sewer line restricted the construction of a normal geosynthetic reinforced soil concrete block retaining wall, therefore EIS had to come up with another strategy. The result was double skin concrete blocks, with short lengths of geogrid and cement stabilise soil to retain the embankment slope. As the front face, Infraset RidgeBlok™, open face configuration was used.

A 3.5m high Infraset Terrace Blok® TB300 geosynthetic reinforced wall was constructed around the lower level of the site, to retain the fill embankment. A parking area will be built on top of the wall.

