

## CASE STUDY

**Reinforcement | Retaining Wall | International Convention Centre, eZulwini, Swaziland**

March 2015

Client Ministry of Economic Planning

Contractor Inyatsi Construction

Consultant Gibb

Product **RockGrid® PC** | 7000m<sup>2</sup>

### Problem

Construction of the new International Convention Centre and five star resort required working around the steep slopes of the site.

This necessitated the construction of a safe, durable, flexible retaining structure.

### Solution

Terraforce walls were designed as terraces with the first level being 2m, followed by 4m steps up to a total height of 18m. The first terrace is being constructed at 85° and the 4m steps thereafter at 80°, with reinforced concrete infill. Double skin walls are also utilised at specific places. **RockGrid® PC** reinforcement of the backfill, at specified intervals, provides additional stability.

### Benefits

The concrete infill contains seedling bags with compost to allow for plant growth to take hold and soften the impact of retaining walls once completed. The blocks contain red oxide that will allow them to blend into the surrounding landscape, an effect that will be enhanced with plant cover.



*The Terraforce walls once completed, with the reinforcement of **RockGrid® PC***



*Retaining wall under construction at the new International Convention Centre and five star resort.*