



Tidal Erosion Prevention Erosion Control Pescatori Wall, Ballito, KwaZulu-Natal

Case Study

Project: Pescatori Wall Tidal Erosion

Client: Ballito Municipality

Date: May 2009

Consultant: Struwig Mendes and Associates

Product: Geocontainer®

Contractor: EBS Civils

Quantity: 1 100 bags

Located in the north of Durban in Kwa Zulu Natal, the Pescatori restaurant car park was another victim of the Indian Ocean's high tidal action. The car park was not designed to tolerate such erratic tidal behavior and massive underscoring of the foundation layers became evident. In a relatively short space of time, this underscoring caused a collapse in the asphalt layers and sink holes became evident.

Struwig Mendes and Associates, a consulting engineering firm in Stanger, was approached by the Ballito Municipality to submit a proposal for the rehabilitation of this car park. In conjunction with the Kaytech Design team, Struwig Mendes and Associates came up with a proposal to suit both the soft engineering required by the Environmentalists as well as a secure structural design to protect the integrity of the car park in the event of repeat heavy tidal action.



The design accepted for this project was a wrap around wall designed with Kaytech RockGrid® PC 100/100 geogrid and the Kaytech EnviroRock® Geocontainer® bags. Designed to protect the integrity of the base layers of the car park, the wrap around wall was installed from the face of the car park progressing under the car park. The EnviroRock® geocontainers were then designed in a stepped formation in front of the RockGrid® PC 100/100 wrap around wall to

absorb the force of tidal surges.



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EBS Civils were nominated as contractors to carry out the installation and Kaytech technical staff was present on site during the installation to assist. The primary advantage of this system is the ease of installation. EBS Civils built a filling apparatus which was required to fill the EnviroRock® Geocontainer® bags and the positioning of the bags was done with the use of an excavator.

The first phase of this project is now complete and due to the huge success of the ease of installation and soft engineering coupled with huge cost savings, this design is now being implemented on other damaged sections of the KZN coastline.

