



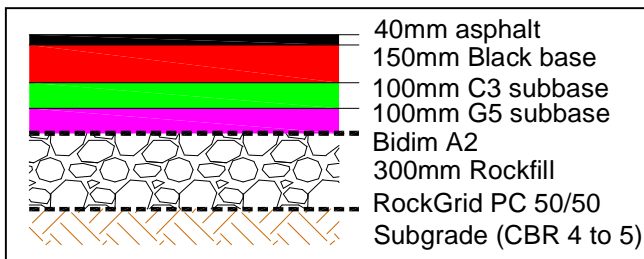
## Roads Reinforcement Sub-grade Stabilisation N6 Section D Griffiths St – R61, Queenstown

### Case Study

<b>Project:</b>	N6 Section 3 & 4 Rehab Ezibeleni - JJ Serfontein Phase 2	<b>Date:</b>	May 2011
<b>Client:</b>	SANRAL	<b>Product:</b>	RockGrid PC 50/50
<b>Consultant:</b>	Goba	<b>Quantity:</b>	27 509 m <sup>2</sup>
<b>Contractor:</b>	Norland Construction	<b>Rep:</b>	Julian Maastrecht

#### Problem

This section of the N6 passes directly through the centre of Queenstown, Eastern Cape. Rehabilitation was restricted due to space constraints, existing services and traffic



accommodation. Problems were further encountered when higher than average rainfall and expansive in situ clay sub-grade soils of CBR 4 - 5 and  $PI \geq 9$ . This resulted in a waterlogged box cut condition.

#### Solution

A proposed rock layer was placed on the sub-grade, but found to be heaving during compaction. Kaytech **Rockgrid PC 50/50** was then placed between the rock fill and sub-grade to separate, stiffen and reinforce the rock fill layer.

#### Benefits

The **Rockgrid PC 50/50** worked well, allowing for subsequent layers to be properly placed and for heavy machinery to move over the layers. This resulted in time-saving and a successfully completed project. The technique was adapted for a greater portion of the contract.



*Waterlogged box cut*



*Rockgrid PC reinforcing laid in trench*



*G5 sub-grade placed on reinforced layer*