

### ALBANY CYCLEWAY ALBANY, AUCKLAND

#### REINFORCED SOIL - GREEN TERRAMESH®

**Product:** Green Terramesh®, Megaflo®, Enkadrain SL®

##### Problem

The Strategic Cycle Plan for Albany on Auckland's North Shore is part of the Strategic Regional Cycle network aimed at encouraging a safe and enjoyable cycling environment.

The construction of the strategic cycle path linking Rosedale Road to Rooks Place in Albany forms part of this plan. The route passes through varying terrain necessitating the need to build up the pathway to span over stream and gully's.

##### Solution

Green Terramesh® was selected as the most appropriate solution for construction of the reinforced steep slopes to support the pathway. Green Terramesh® is durable in a modular form which makes it easy to construct. The ability of the front face to be grassed was an important consideration to create a more natural environment for cyclists in this urban area.

Maccaferri technical staff provided design support to the engineers for the project through the use of the Macstars software. The final solution incorporated Green Terramesh® units for these low height slopes to form the stable reinforced soil structure. Enkadrain SL®, a flexible sheet drainage system, was located at the rear of the reinforced soil block to intercept groundwater flow and divert it away from the structure via Megaflo® Panel Drains.

Opie Contractors Ltd, the successful contractor for this project, had no experience with the Green Terramesh® system. Maccaferri staff provided installation training through the use of video footage from previously construction projects as well as explaining how the system works to the Project Manager. At the start of construction a toolbox meeting was held with the contractors covering the installation process. Opie had a crew of three men working on the structures, usually with one operating plant and the other two setting up and connecting the Green Terramesh® units through the use of Maccaferri supplied pneumatic lacing tools.

##### Client:

AUCKLAND COUNCIL

##### Main contractor:

OPIE CONTRACTORS LTD

##### Engineer:

AUCKLAND CITY COUNCIL

##### Products used:

GREEN TERRAMESH®, MEGAFLO®, ENKADRAIN SL®, GRASSTRIKE, SS RINGS

##### Date of construction:

FEBRUARY - APRIL 2010



Footpath construction over the completed Green Terramesh®



Vegetated face of Green Terramesh® System



Cycleway route

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Quality System AS/NZS ISO 9001:2008.

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