

## RIVERSDALE SUBDIVISION MASTERTON

### RETAINING WALLS, PAVEMENT REINFORCEMENT, EROSION CONTROL, REINFORCED SOIL

#### Products: Gabions, Tensar Geogrids, Bidim Geotextiles

##### Problem

Riversdale is a new coastal subdivision located 45 minutes east of Masterton, right beside the sea. This is now a sought after area for lifestyle living, with residents commuting from as far away as Wellington. The first stage of the development comprising of 79 sections has extensive views. The roads for the subdivision are founded on clays and sands with parts of the site on existing old dams. Strict conditions were placed on the contractor for dust and erosion control, so vegetation cover was an integral part of the development programme.

##### Solution

Working with the contractor throughout the construction process Maccaferri NZ Ltd were able to offer numerous products for this subdivision. Frequent wet weather during the construction made access very difficult resulting in the need to use bidim geotextiles and Tensar SS30 geogrid to construct the access ways. This approach, taken by the contractor, ensured that they could keep to the construction program. Gabions were located along the base of slopes to provide toe stability. The slopes also had to be revegetated quickly to limit any erosion taken place, so the Biomac C was used extensively. Biomac made it possible to establish vegetation on the slopes consisting of mainly sand or clay even during the cooler periods of the year.

Polyester geogrids were used in the construction of a wrap around steep slope 175m long x 4.5m in height below one of the access roads. The soft face vegetated green slope provided by this method of construction was in keeping with the development programme. Pavement geogrids were used on all the roads due to poor soil conditions and wet weather. Heavy bidim geotextile was also used under 500mm rock rip rap on the upstream face of the detention dam for secondary erosion protection.

##### Main Contractor:

OLDFIELD ASPHALTS MASTERTON

##### Consultant:

GHD LTD LOWER HUTT

##### Products used:

GABIONS PVC, TENSAR SS30, BIDIM A19 & A64,  
BIOMAC C300, POLYESTER GEOGRID

##### Construction date:

MAY 2007 - FEBRUARY 2008



Tensar geogrid for subbase stabilisation



Biomac erosion control



Bidim geotextile under rock rip rap

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