

CASS BAY TERRAMESH WALL CASS BAY

RETAINING WALL

Products: Gabions, Green Terramesh, Bidim Geotextile

Problem

Set amongst outstanding coastal scenery, Cass Bay Heights offers superb panoramic views of Cass Bay to Quail Island and the wider harbour and surrounding peninsula. The location is just a 3 minute drive from Lyttleton Township and a 15 - 20 minute drive to Christchurch CBD. There are 14 sections within this coastal subdivision spanning steep Canterbury Peninsula hillside and requiring retaining walls that are suited for the site conditions.

Solution

The Galmac PVC Terramesh System option was chosen over timber or crib wall for durability and aesthetic value. Vaughan McMillan Consulting Ltd designed the walls with a Galmac Gabion facing fully connected to horizontal Galmac PVC Terramesh panels designed to reinforce the soil backfill. The mesh twist in the Terramesh reinforcement panel are orientated perpendicular to the front face to provide the full design strength. The Maccaferri Terramesh system has BBA approval.

The Terramesh system reinforcement is manufactured from Galmac (Zn-5%AL MM alloy) coated wire with an additional polymer protective coating applied over the Galmac coating to maximise the level of protection against environmental affects.

The flexibility in construction of this system is clearly illustrated when you notice how the gabion facing has been shaped to follow the contours of the site. This flexibility has the added benefit of removing the need for foundation footing which is a requirement for most other retaining wall types.

Client:

M J BEDFORD DEVELOPMENTS LTD

Engineers name:

MCMILLAN CONSULTING LTD

Contractors name:

LANDFORM NZ LTD

Products used:

TERRAMESH SYSTEM, BIDIM A19

Construction date:

AUGUST 2007 - FEBRUARY 2008



Terramesh System with gabion facing



Terramesh Walls Construction



Terramesh Wall

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Quality System AS/NZS ISO 9001:2000

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