

Project: Green Terramesh Mohaka Coach Rd
Date: May - June 2014
Client: Wairoa District Council
Location: Christchurch



Tensar RE

Wairoa district is on the East Coast of the North Island and prone to frequent periods of heavy rainfall, which due to the nature of the soils, is subject to numerous slips. Due to increasing rock shortage for **Gabion** construction and subsequent increasing costs for both rock and freight, alternative solutions were required for the repairs. Product that can utilise on site materials offer huge cost savings, ease of construction is an important consideration. **Green Terramesh** is a permanent, cost effective option.

Green Terramesh units are used on their own for slips under 3m in height. Once over 3m high **Tensar RE** geogrid is used for primary reinforcement, with the use of **Grasstrike R300** inside the front face for vegetation growth. The modular system is easy to put together, and speed of construction in 2 x 300mm layers for each layer of **Green Terramesh** is quick, making it a cost effective system. Joining of the modules is made easy with the use of a Lacing Tool and the Stainless Steel rings. The **Green Terramesh** system has a BBA certificate for a long term structure.

The grade and reinforcement length of **Tensar RE** used in the construction is determined by the height of the structure, and the backfill that is to be used. Most backfill in these regions is the clay material on site, obtaining the required compaction is the key.

With **Green Terramesh**, there is the rock face option, in most areas however the vegetated option is more common. The system has its own formwork in front of the construction crew, which aids as a safety barrier while working at height. Once construction is completed, the structure is hydro seeded, and after a while blends in with the natural surroundings.



Construction of Green Terramesh wall



Constructed Green Terramesh wall



Close up view of completed wall

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