Project: Margaret Mahy Family Playground

Date: January 2015

Client: CERA (Canterbury Earthquake Recovery Authority)

Location: Christchurch CBD



Tensar Uniaxial Geogrid

In 2013, 6,000 incredible Canterbury children put forward their ideas and visions for an amazing playground as part of the BNZ Amazing Place Playground Competition. The winning entry in the Year 6 category was based on the stories of New Zealand author Margaret Mahy.

This playground is an amazing place that's full of the newest and coolest playground equipment around, including a 4-metre-wide slide, double flying fox, water cannons, splash pad, sand play, dunes, climbing web and a story arc.

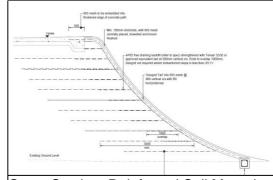
The playground is believed to be one of the largest in the Southern Hemisphere. It has been designed with input from the city's school children to reflect Canterbury's four main habitat types with a forest zone, a peninsula zone, a plains zone and a wetlands area.

City Care John Fillmore Contracting Joint Venture were awarded the contract. Geofabrics New Zealand Ltd were invited to submit an offer to supply the geogrid and geotextile for the geogrid reinforced soil mound that incorporates the slides, tunnels and other climbing equipment. After reviewing the original geogrid specification for reinforcement of the soil slopes, **Tensar RE520 Uniaxial geogrid** was submitted on the basis that this geogrid has a higher design strength and is more suited for this application. The narrower roll widths at 1.3m offers easier construction for this site with its many small radiuses when compared to the original 4m wide biaxial geogrid rolls specified.

2730m² of **Tensar RE520** geogrid and 4500m² of **bidim® A29** were supplied to this project. Construction of the soil reinforced mound took less than 4 weeks. A steel mesh was then laid and tied into the **Tensar RE520** geogrid followed by 100mm of shotcrete. The surface was finished with a 40mm layer of polyurethane rubber.

The project was completed on time and opened to the public for Christmas 2015. The public use of the playground has been a great success for all ages, not just children.

The information contained herein is general in nature. In particular, the content herein does not take account of specific conditions that may be present at your site. Site conditions may alter the performance and longevity of the product. Actual dimensions and performance may vary. This document should not be used for construction purposes and in all cases, we recommend that advice be obtained from a suitably qualified consulting engineer or industry specialist before proceeding with installation. © Copyright held by Geofabrics New Zealand Ltd. All rights are reserved and no part of this publication may be copied without prior permission.



Cross Section: Reinforced Soil Mound



Tensar uniaxial geogrid installed



Completed mound

QUALITY - SUPPORT - EXPERTISE

