**Geoweb® Cellular Confinement**

The Waikanae Estuary Scientific Reserve is reached by two tracks. One takes in the Waikanae River and associated wetland, the other to the salt water of the Kapiti Coast. The area attracts a large number of birdlife. Access to the Waikanae Estuary was cleared with a towed scrub roller, with part of the track benched which will be backfilled when completed. A curved timber frame allows visitors to meander through the area, slowing down to fully appreciate the surroundings.

Geoweb® has been used extensively overseas in the construction of tracks through sandy soils and was accepted by Department of Conservation for this application.

bidim® A14 placed inside the timber frame, provided a separation layer between sand track and the Geoweb® 110mm.

The separation layer is critical to the performance of load support system.

Geotextile may also function as a lateral drainage medium.

The 2.6m x 8.3m panel was cut in half resulting in 2 pieces from each panel. The A14, 4m wide roll was also cut in half - This has helped to reduce costs and works well with the standard track width of 1.2m.

Geoweb® was placed over geotextile, expanded and anchored into place using 400mm galvanised steel pins 12mm in diameter. Atra keys secured the panels together - this is a turn key device which reduces construction time significantly and offers cost-savings compared to stapling operations.

The fill was made up of a combination base containing various rock sizes and clay fines, compacted using a dead weight compactor. The basecourse locked together well forming an excellent surface. This has been cov- ered with a wearing surface of light aggregate.

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The Geoweb® system is the most advanced soil stabilisation technology available on the market today. Initially developed by the US army to allow trafficking of heavy vehicles over very soft ground.

The Geoweb® system consists of a flexible, high-strength network of interconnected cells that confine and stabilise soil. Geoweb® is widely used around Australia as a support platform in unsealed roads, on slopes and in low velocity channels.

A variety of infill materials can be used depending on the problem, including topsoil with selected vegetation, sand and gravel, larger rock and stone and concrete.

The system is made from high-quality polyethylene in collapsed, lightweight panels that are easily and safely handled onsite. Geoweb® has a solid reputation for quality and innovation and is manufactured to the highest international standard with ISO9001:2008 accreditation.

Geofabrics supports the Geoweb® system with design support and installation tools.