

## CASE STUDIES

These projects have been undertaken in New Zealand by an Austral Comnia Holdings Group company.



Botany Downs Town Centre, New Zealand

**Botany Downs Town Centre**  
GEOROCK® was introduced to the New Zealand market when it was used for a large project at the Botany Downs Town Centre – in this case GEOROCK® was used primarily in the protection of existing underground services (storm water pipe). On this project Tonkin & Taylor Ltd were the geotechnical design engineers, with the main contractor being Mainzeal Construction.

**Arthur's Pass SH73 Rock Shelter**  
The road widening project between Candy's Bend and Starvation Point in the Arthur's Pass region of the Southern Alps was a challenging engineering project. Fulton Hogan Civil were given the task of constructing the rock shelter, using concrete pillars, concrete slabs and GEOROCK®. The GEOROCK® fill is sandwiched between the 'ceiling' slab and the 'roof' slab of the shelter. Its job is to absorb the impact of rockfalls. GEOROCK® had all the right qualities for this job: good strength to weight ratio, elasticity, and prefinished nature allowing quick and easy installation.



Arthur's Pass SH73 Rock Shelter

### Glamorgan Drive, Torbay

In order to access a new subdivision at 276-280 Glamorgan Drive, Torbay, on the North Shore of Auckland, a cul-de-sac right-of-way would need to be constructed over a poor load bearing soil. In fact the underlying soil was so unstable, that additional load would certainly result in failure. To alleviate these additional loads, in excess of 350 cubic metres of GEOROCK® were laid as the foundation for the right-of-way, offering both a suitable light weight in the vertical plane, as well as offering almost no lateral loading to the retaining structure constructed to contain this new roadway. This project was designed by McGuigan Syme Chilcott Ltd consulting engineers and site work was carried out by Boss Construction Ltd of Albany.



Glamorgan Drive, Torbay



Harvey Norman Building, Whangarei

**Harvey Norman Building, Whangarei**  
2400m<sup>3</sup> of GEOROCK® used to support the foundation for the concrete slab. GEOROCK® was used to avoid problems associated with Onerahi Chaos soil type, and differential settlement. The lightweight nature, cost effectiveness and strength of GEOROCK® provided a unique lightweight geotechnical fill solution.

### ALPURT SH1 Project

The combined effort of W Stevenson & Son Ltd, Connell Wagner and Bondor New Zealand Limited resulted in a new benchmark for roading construction in the future. The ALPURT (Albany to Puhoi Realignment) SH1 A1 Section near Oteha Valley Road has had its share of difficulties - such as time constraints in filling a 30m high earth embankment. Rapid earth filling could have caused embankment failure. GEOROCK® was chosen as the fast and simple solution to increase the safe filling speed and to form the pavement subgrade.



AlpurT SH1 Project

GEOROCK® is an Austral Insulation registered trade name.

The Bondor NZ equivalent product has the trade name POLYROCK®

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