

Geotechnical Services

Stabilising cliffs and steep ground



New Zealand is a mountainous and geologically active country. In many regions, cliffs and steep unstable slopes pose significant safety risks to people, building, roads and footpaths. Abseil Access Ltd are specialists in using rope access systems to carry out stabilisation programmes on these hazardous and difficult-to-access sites.

The flexibility and comparatively low cost of rope access systems make them ideal for carrying stabilisation programmes on cliffs and steep ground. They have been adopted worldwide for geotechnical slope and cliff stabilisation.

Abseil Access Ltd have successfully completed projects on some of the most dangerous sections of highway throughout the country. These include the Manawatu Gorge, the Otira Viaduct and Gorge, Nevis Bluff and the Lindis Pass highway. We have carried out several projects in National Parks, including the Hooker Valley Track in Mount Cook National Park and access to Westland National Park's Fox Glacier. In addition, Abseil Access Ltd has worked on many other sites to stabilise the ground behind buildings and above minor roads.

Abseil Access Ltd pioneered the use of industrial rope access techniques in New Zealand and is a leader in the rope access industry. Our comprehensive knowledge of the materials and systems available means we can design the best and most cost effective solution for any situation.

Abseil Access Ltd offers the following services:

- Scaling cliffs and batters using hand tools
- Removing unstable boulders
- 'Explosive popping' of unstable boulders
- Installing curtain wire mesh across unstable sites: we use both single twist and Maccaferri double twist mesh
- Drilling: pneumatic, hydraulic and 'down-the-hole-hammer'
- Grouting: rock anchors and soil pins
- Installing catch fences
- Use of explosives: both drill and blast
- Shotcreting
- Surveying and Geological mapping.

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