



1 Captain Robert Falcon Scott Memorial Statue before the Canterbury Earthquakes. 2 The statue's feet and ankles which broke during the Christchurch Earthquake. 3 Slow cycle load testing the replica/prototype leg.

## SCOTT STATUE REMEDIATION

Ruamoko for Christchurch City Council

Project Location: Christchurch



The reinstatement of the damaged Captain Robert Falcon Scott Statue in central Christchurch is an excellent example of innovative engineering used for a complex and unique project. The Captain Robert Falcon Scott Statue fell off its plinth and was badly damaged in the 22 February 2011 Christchurch earthquake. Ruamoko Solutions was a key member of a project team assembled to optioneer multiple solutions for the conservation, repair and strengthening of this priceless and internationally important heritage statue.

The agreed solution addressed the complex challenge to repair and strengthen the severely damaged statue, while absolutely minimising the visual effects of the repair work and any adverse impact on the heritage material. The statue broke both ankles when it fell and the broken surfaces were steep and multi-faceted making the repair and strengthening particularly complex and challenging. The elegant solution adopted relatively new technologies in a novel manner to achieve a stunning outcome that met and exceeded all stakeholder expectations.

The solution required extensive research, full scale prototype testing and utilised carbon fibre rods, carbon tow, specialised epoxy adhesives and a spring loaded rocking base fixing to its supporting stone plinth. The project gained a large public interest leading to a documentary being produced which includes footage of the full scale prototype testing.

The project was completed on time and to budget. The repair and strengthening solution has been widely praised by many of the stakeholders and specifically by the Mayor, Lianne Dalziel.

### Judging & Copyright Statement

This project is an entrant in the 2018 INNOVATE NZ Awards of Excellence competition. The winners will be celebrated at our Awards Gala Dinner on Friday, 3rd August 2018 in Hamilton.

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