

# **Victoria University - Seismic Strengthening**

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**Client:** Victoria University

**Date:** January, 2020 to March, 2020

**Type:** Construct

**Location:** Wellington

New Zealand

**Consultant:** Beca

Located in the Wellington CBD, this project was for a building of Victoria University, the Wellington Faculty of Architecture. Undergoing seismic strengthening in multiple stages, the purpose was to achieve a minimum 80% of the New Building Standards in accordance with NZ guidelines.

Freyssinet were engaged for three different scopes of supply and install

1. 1r15 additional prestressing anchorages for transversal stressing of 5 grids, consisting of:

- 84no. Freyssinet 1r15 active and passive anchorages
- 1416m of grease and sheathed galvanised 15.7mm diameter 279kN strand
- 42no. 26.5mm diameter Freyssibar, washers and nuts, zinc coated
- 114no. machine grooved 300x150x50mm plates
- 22no. deviators allowing both vertical and horizontal deflection

### 2. Freyssibars for longitudinal stressing of 3 grids

- 36no. 5.8m long 50mm diameter Freyssibars with nuts and washers, zinc coated
- stressing of the above to 975kN

### 3. Flatjacking and jacking works on the front facade for load transfer

- 6no. 100t jacks for the propping works
- 6no. 300mm diameter 1010kN flatjacks, permanent application with epoxy resin injection