



THOMAS GILBERT
STRUCTURAL ENGINEER
CURRICULUM VITAE

THOMAS GILBERT CV



PROFILE

Thomas is a structural engineer with 2 years of experience in New Zealand. He has strong technical skills in the assessment, analysis, design and construction monitoring of commercial and industrial buildings.

Thomas is highly motivated to deliver high quality projects.

QUALIFICATIONS

BE(Hons) – Bachelor of Civil Engineering with Honours, University of Auckland, 2019

Member of Engineering New Zealand (MEng)

CAREER HISTORY

May 2022 – Present, Structural Engineer – Structus Consulting Limited

November 2019 – May 2022, Structural Engineer – Beca – Wellington, New Zealand

TECHNICAL SKILLS

- Experience in Structural design of concrete, steel and timber framed structural elements
- Knowledge of engineering design process and consent documentation
- Experience in construction supervision of structural works
- Knowledge of New Zealand Design Standards and Codes

PROJECT EXPERIENCE

COMMERCIAL PROJECTS

Bowen House Seismic Retrofit, Wellington, 2022

22-storey reinforced concrete building designed in the late 1980's with precast panels and hollowcore floors. Strengthening includes: hollowcore seating brackets, column ties, additional precast panel brackets and stair landing supports. Thomas's role was construction monitoring.

22 The Terrace Seismic Retrofit, Wellington, 2021

10-storey reinforced concrete building designed in the early 1980's with a single storey basement, precast panels and hollow core floors. Strengthening included: hollowcore seating brackets, column ties, additional precast panel brackets and stair landing supports, block wall infill supports. Thomas's role was construction monitoring, and redesign strengthening scheme where clashes occurred.

NIWA Future Property Programme, Wellington, 2021

Two sites in Hamilton and Wellington consisting of a main office building, laboratory building, store warehouse building and various ancillary structures. Design of precast panels and partition wall restraints for the main office building across both the Hamilton and Wellington sites. Analyse and design raft foundation for the Hamilton main building using Etabs to model the effects of liquefaction and differential settlement. Thomas was involved in the design phase

1 Grey Street Seismic Retrofit, Wellington, 2021

Site consists of a 14-storey concrete tower building and a 4-storey concrete podium building. Strengthening design of tower PC panels and podium plant room lateral system. Thomas was involved in design and construction monitoring phases.

Supermarket Refurbishments, NZ wide, present, \$2-10m

Refurbishment of 1 no. Countdown supermarkets to date for Woolworths NZ, including new pharmacy, mezzanines, concrete slabs, extensions, canopies, store frontages, structural bracing, rooftop plantrooms, bulkheads, partition walls, pylon signs, building component seismic restraints and floor trenches and setdowns. Structural engineering design, Revit documentation and construction monitoring.

INDUSTRIAL PROJECTS

KiwiRail Plant 3 Seismic Strengthening, Wellington, 2021

Single-storey two-bay steel warehouse building design in 1925 with a concrete mezzanine floor designed pre-1984.

Strengthening included: additional wall and roof bracing, new steel portal frame structure and foundations to support the concrete mezzanine floor. Thomas's role was construction monitoring, and redesign strengthening scheme where clashes occurred.

Construction Monitoring, New Zealand, 2021

Confidential industrial site consisting of a large warehouse building, store buildings and various ancillary buildings. Thomas was involved in construction monitoring.

Analysis and Design, New Zealand, 2021

Confidential industrial site consisting of a main warehouse building and multiple plant buildings. Role was to design single story steel framed plant building with eccentrically braced frame (EBF) lateral system

DETAILED SEISMIC ASSESSMENTS AND STRENGTHENING

UCOL Block C DSA, Whanganui, 2021

Two-storey unreinforced masonry (URM) building constructed circa 1916. Role was to assess %NBS rating of lateral system which consisted of URM walls, concrete moment frames, timber shear walls, timber and steel roof truss diaphragms, and timber floors diaphragms.

Victoria University of Wellington Murphy Annexe DSA, Wellington, 2021

4-storey reinforced concrete moment frame building with a 2-storey steel framed extension at roof level. Role was to assess the %NBS rating using initial SLAMA analysis of concrete moment-resisting frames. Assess hollowcore diaphragms and non-ductile columns.

