



ENGCO
Consulting Engineers
STRUCTURAL | CIVIL | GEOTECHNICAL

Expertise. Innovation. Solutions.

The Engineering Company Limited ("ENGCO") has successfully executed a wide range of projects across New Zealand. Our team comprises experienced and qualified structural, civil and geotechnical engineers who collaborate with surveyors, planners, architects, project managers, and other engineering professionals to deliver exceptional results.

Offering services in structural, civil, and geotechnical engineering allows ENGCO to provide our clients with a holistic approach to engineering, ensuring that all aspects of a project are considered and integrated into the final solution.

Our strong relationships with industry and contractors enable us to stay up to date with current construction market trends, which helps us provide insightful solutions to our clients. We understand that each project is unique, and we take the time to understand our client's goals and aspirations to provide the best possible engineering solutions.

We offer the following:

Leading technical expertise and innovation

across timber, steel and concrete structural systems, assisting with New Zealand Design Standards development and new product development.

Expert testing and strong ties with the University of Canterbury, directing and analysing test data in timber products.

Proven modelling and design strategies in complex stiffness and capacity modelling for materials such as timber with non-homogeneous properties (CLT).

Clear and effective communication
Issues are identified, raised and resolved early in the design process with challenging and robust conversations where required to achieve the best result for our client.

ENGCO is dedicated to your success through excellent service and timely delivery to our valued clients.

The projects we have peer-reviewed to date demonstrate the trust and reputation ENGCO has built in New Zealand.

ENGCO are committed to our values of:

Passion

- for engineering
- always learning
- solving client challenges
- getting it right
- humbly being the best at what we do

Principles

- keep agreements
- pride in our work
- take ownership
- trusted partner
- high standards and ethics
- accountable for results

People

- better together
- positive attitude
- open, honest, transparent
- support each other
- embrace diversity
- work hard and have fun



Our Directors:
Julian Addington, Andy Lind,
Matt Cusiel and Mike Cusiel



Structural.



Civil.



Geotechnical.



Structural Design

Experienced designers of:

- Concrete, steel and timber structures
- Architectural homes
- Multi-storey commercial buildings
- Industrial buildings
- Warehousing
- Streamlined design of waffle raft house foundations

Specialist Knowledge

- Design of timber structures

Seismic Experience

- Detailed seismic assessments
- Low-damage seismic systems (viscous dampers, buckling-restrained braces)

Civil Structures

- Retaining walls
- Culverts
- Bridges and wells

Project Management and Coordination

- Multidisciplinary coordination with architects, structural engineers, and other consultants
- Stakeholder management and communication to ensure project requirements are met

Infrastructure Design

- Design of roads, pavements, and pathways for both public and private developments
- Stormwater, wastewater and water infrastructure design
- Stormwater attenuation and treatment design
- Design of retaining walls, culverts, and bridges
- Greenfield and brownfield infrastructure design

Flood Risk Assessments

- Hydraulic and hydrologic modelling of catchments and mitigation of flood risk
- Design of flood mitigation structures, incl. retention basins
- Flood analysis and risk management for rural and urban developments

Earthworks Design and Optimisation

- Cut-and-fill design with the development of 3D ground models

Environmental and Sustainability Initiatives

- Integration of sustainable practices in civil engineering designs, such as low-impact development (LID) and green infrastructure

Desktop Assessments

- Summarise all desktop information into a report, quantify potential liquefaction susceptibility & ground damage, hazards on-site and potential foundation recommendations

Intrusive Investigations

- Organisation, manage and report all types of intrusive investigations from simple shallow investigations, to deep investigations comprising machine boreholes and Cone Penetration Testing (CPTs)

Geotechnical Assessments

- Residential/commercial/ industrial developments
- Liquefaction analysis and ground damage analysis
- Slope stability analysis
- Ground improvement design
- Foundation recommendations for new builds including shallow and deep foundation designs (screw piles, driven timber piles)

Hazard Identification & Analysis

- Land stability assessments and remedial measures, such as landslip remediations
- Earthquake damage analysis and appropriate foundation design



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