



**FIFTH
DIMENSION**
Consulting Engineers

COMPANY PROFILE



INTRODUCTION

5DCE is a boutique Engineering Design Consultancy located in Central Christchurch.

5DCE is a team of highly experienced professionals, committed to providing a personalised, client focused service to build on-going enduring relationships. The team possess a great depth of knowledge and experience in the local market across a variety of sector which we believe can add real value to your projects.

We are more than just a structural engineering consultancy; we are a collaborative place for you. A place where concepts transform from fragments to tangible form. We believe in challenging the status quo in everything we do to create elegant, simple designs. Together with our client focused approach creates a more enjoyable working environment to ensure successful project outcomes.

OUR APPROACH

At 5DCE we focus on ensuring that designs are fit for purpose and will fit within the project budget. This process starts at conceptual design stage. We take the time to understand the clients' needs and to a develop structural form and scheme which is fully integrated with other project consultants and is underpinned by buildability, simplicity and repeatability. For all concept designs, we go beyond only defining the primary structural elements and prefer to define as much secondary and tertiary elements as possible. This allows the concept structure to be more accurately costed and to be best reflect final costs for the project.

On all projects we strive to combine pragmatic engineering principles with innovative ideas to solve technically challenging problems. We regularly engage local building contractors to get their input on how best to build a specific element in a building and tailor the design to suit. Whilst this may result in a more complex design approach for

us, our focus is always on what is best for the client and project team and not what is easiest for us. This way you can be sure you are receiving the best value for money.

A point of difference for 5DCE compared with other competitors is that fixed fees mean exactly that. Whilst we may need to explore several design options or need to alter the design to suit other project consultants, we understand that this is part of a standard project life cycle. As such we do not seek to claim numerous variations and additional fees, particularly if there are aspects that we did not foresee. You can be sure that our fees can be relied on for the duration of the project.

We recognise that our reputation and the success of the construction phase of the project is built on the quality of the documentation that we deliver. At 5DCE we take pride in delivering easy to interpret, comprehensive structural plans which show the design in full. For all projects we model to LOD350. The additional 3D modelling mutually benefits other project consultants to enable a fully coordinated drawing set. With our plans you can be sure that the contractor will be able to accurately tender the project and construct the building rapidly without numerous RFIs and variation claims.

It is in our DNA to provide the highest quality services to clients through prompt and timely communication. We understand the importance of delivering on time, listening to our clients and exceeding their expectations. As a smaller engineering company we value our clients and are proud of being able to provide a personalised approach with each and every project.

CAPABILITY

Structural Engineering Services

5DCE's team is a small, yet experienced team of engineers who have all worked in



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leading structural engineering
consultancies.

Team members experience includes the design of:

- High rise apartments
- Commercial office buildings
- Aged Care Facilities
- School buildings
- Industrial buildings
- Community buildings
- Complex DSA and strengthening
- High end architectural houses
- Multi Unit residences
- Office fit outs
- Peer Reviews

Architectural Houses & Multi-Unit

At 5DCE, we have extensive experience across New Zealand in the residential sector designing numerous high-end architectural new homes inclusive of existing residence alterations and extensions.

We have close relationships with well-known architects and developers across the country underpinned by mutual trust and respect to exceed expectations. We understand unique client needs to provide pragmatic, well considered, and innovative yet buildable and economic designs that are sympathetic to architectural restraints.

Industrial

5DCE work with many specialist building construction companies to produce economical building structures.

5DCE offer a wealth of specialist structural knowledge and experience in cold rolled portal frame design and construction, as well as conventional hot rolled or fabricated steel sections.

Commercial

Our team have a diverse range of experience with commercial and multi storey developments across New Zealand.

We ensure that we provide simple, yet robust designs, utilising our expertise of optimising materials and buildability for the local market. We have a passion for finding economic solutions to unique problems and draw on our expert attention to detail.

Peer Review

Our team of structural engineers are all experienced in undertaking peer reviews for a diverse range of clients and projects across New Zealand.

We provide an unbiased, independent review of designs to provide peace of mind to clients embarking on complex and technically challenging projects.

INSURANCES

We have \$2,000,000 Professional Indemnity and Public Liability insurances. Copies of the associated certificates can be made available on request.

If required, we are able to arrange higher levels of insurance, although it is likely there will be significant additional annual premiums for additional Professional Indemnity insurance. In such instances we may therefore look to pass on all or some of the premiums to the end client.

FEES

Our fees are uniquely tailored on a project-by-project basis which can be discussed at the time. Our current charge out hourly rates are as follows:

- Director \$220 + GST
- Structural Engineer \$170 + GST
- Structural Drafter \$130 + GST