Design
Build
Maintain

Structural Steel and Modularisation

DIALOG Fitzroy delivers world-class structural steel solutions across Australia and New Zealand, combining over six decades of engineering excellence with cutting-edge fabrication technology. From seismic-strengthened hospitals to offshore platforms, iconic infrastructure and ready to install modules, our team of engineers, welders, and technicians design and construct robust steel components tailored to the most demanding environments.

DIALOG Fitzroy

Structural Steel and Modularisation

Global Standards & Certifications

Our structural steel works comply with:

- AS/NZS 5131 (Structural Steelwork – Fabrication and Erection)
- AS/NZS 3678, 3679.1 (Hot-rolled steel plates and sections)
- ISO 9001, ISO 45001

Materials & Processing Capabilities

We work with a wide range of materials and processes:

- Carbon Steel, Stainless Steel, Duplex & Super Duplex
- Plate forming, beam rolling, and custom fabrication
- Precision welding and assembly to meet exacting design tolerances
- Digital Weld Control System QA Traceability

End to End Solutions

Applications Across Industries

Our structural steel and modularisation services supports critical infrastructure across:

Sector	Examples
Commercial & Civic	Building frameworks, hospitals, schools
Transportation & Infrastructure	Bridges, tunnels, terminals, stations
Industrial & Energy	Refineries, geothermal facilities, tank and terminal plants
Food Grade Facilities	Processing and bio-containment plants
Entertainment & Public Use	Stadiums, venue frames, towers

Innovations in Fabrication

We integrate advanced technologies to deliver precision and efficiency:

- FICEP CNC Drilling & Thermal Coping Line
- 3D modelling and BIM integration for clash-free design
- Barcode-based material tracking and digital weld control systems
- Blast & paint facility with full intumescent and thermal spray capability

Safety & Quality Assurance

- Non-Destructive Testing (NDT) of welds and joints
- Dimensional accuracy checks and material traceability
- Surface treatment and coating inspections
- Seismic compliance and load testing
- Full lifecycle Fitness-for-Service assessments

Modularisation

- Construction of components off site for rapid onsite delivery
- Repeatable, consistent welding and bolting quality systems
- Parallel off-site fabrication and on-site civil works capability
- Lift points, rigging plans, and stability built into designs for efficient road/sea transport
- Off-site controlled environment testing of key components before shipment

End to End Solutions

Flagship Project Highlight

Modular Oil Refinery

- **Construction driven modular design** that minimised fabrication/installation cost, accelerated the schedule, reduced site risk, and enabled “plug and play” commissioning.
- **End to end EPC delivery** including mechanical/ process design, multi site fabrication, civil works, SMP construction, E&I pre commissioning, logistics, commissioning, and final handover.
- **Integrated 3D engineering** of structural modules, pressure vessels, piping systems, and a large NZ fabricated process module—driving efficient component fabrication and clash free installation.
- **Coordinated transportation program** from design stage to installation to allow for structural steel modules transportation from multiple DIALOG Fitzroy fabrication facilities to site

End to End Solutions

Why Choose DIALOG Fitzroy?

- End to end service solution incorporating engineering, design, fabrication and construction services
- Digital weld control system that delivers full traceability, quality assurance and streamlined reporting across all welding operations
- Dedicated carbon steel and stainless-steel fabrication shops to remove cross contamination defects.
- Fabrication facilities located close to major heavy traffic transportation routes and with direct access to local ports

Past Projects

Pipe Support System

Fabrication, industrial coating and installation of a structural steel pipe support system on an active dairy processing plant.

Iconic Bridge

Fabrication, industrial coating and regular maintenance of the Te Rewa Rewa Bridge. An iconic bridge installed in New Plymouth Taranaki over a environmentally sensitive waterway and in a culturally significant area.

Hospital Structure

Fabrication and installation of 6,000 tonnes of primary structural steel constructed to Importance Level 4 (IL4) – 180% of NZ Building Code with an integrated base isolation system for a new hospital.

Telecommunication Towers

Fabrication and industrial coating of a 56m tall radio tower complete with guide wire brackets and mounting frame.

Design Build Maintain

www.dialogfitzroy.com/contact-us/

Contact Us

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