

CAPABILITY STATEMENT

**PROVIDING STEEL &
CONSTRUCTION DETAILING**
A First-Class Workshop Detailing Service



▶ **Steelcad Drafting was established in 1993 to provide a professional detailing service to the Australian steel construction marketplace. Since that time we have built on our successes and realised a steady growth, both in size and capacity, to become one of the largest detail drawing offices operating in Australia.**

As well as offering the quality of deliverables expected from one of the nations most experienced detailing firms. Steelcad is widely recognised as market leaders and innovators of Integrated Project Delivery (IPD) for 3D modelling of structural steelwork and precast concrete.



DELIVERING GREATER CERTAINTY

YOUR PARTNER FOR SUCCESS IN THE CONSTRUCTION INDUSTRY.

Steelcad has a long history of delivering an impressive array of construction projects varying widely in size and complexity.

Mining and Materials Handling

Coal, iron ore, gold, mineral sands, oil, gas, copper, sugar, and even diamonds.

We've detailed projects up to 4,000 tonnes of structural and mechanical steelwork in sites all over the world.

Industrial and Commercial

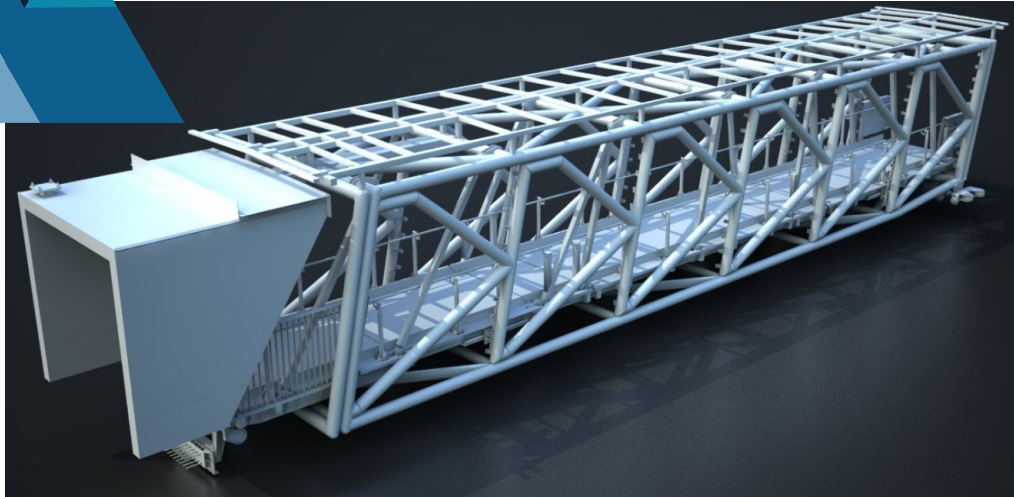
We've seen a huge variety of design solutions for the basic portal structure. Often considered the industry bread and butter but every one is unique. The devil is always in the detail.

Retail

From the Brisbane airport DFO to high-end, upmarket, premium shopping centres, from whole new developments to small extensions, the team at Steelcad has covered a lot of bases in this market.

Government and Public Infrastructure

Defence, desalination, recycling, waste processing and management, transport and logistics, health, education and corrective services. We understand the need for sensitivity concerning documentation and communication, particularly on these projects.



SUCCESS IN THE CONSTRUCTION INDUSTRY IS MEASURED BY PERFORMANCE, COLLABORATIVE EFFORT AND OUTCOMES.

3D Structural Modelling

Based in Brisbane, our experienced staff utilise the very latest technology to specialise in 3D structural modelling and detailing of structural steel and pre-cast concrete.

Steelcad can bring productivity improvements and intelligent supply chain solutions to your construction projects by working collaboratively with project stake-holders and deliver a technical and commercial success to the development proponents.

A long history of working closely with builders, fabricators and design consultants has provided us with an understanding of their specific discipline requirements and helped us develop a knowledge base upon which our clients can rely.

BIM Management

Maintaining control of design from development through to construction is an important factor in successful project delivery. Traditional contract methodology ignores the value of integrating shop detailing into design and misses the opportunities collaborative processes can deliver, such as;

- Facilitate program certainty by expediting design coordination
- Gross reduction in quantity of RFI's and constructability risk
- Mutually beneficial ways to mitigate risk
- Steel fabrication and precast concrete shop drawings available at tender
- Enhanced subcontractor scope definition
- Develop opportunities to exploit intelligent supply chain solutions
- Survey and site set-out, data overlay and review.
- Erection sequencing and construction methodology
- A competitive advantage through process leadership
- Site safety risk identification and mitigation
- Logistics management

Animation and Renders

Steelcad offers far more to a construction project than just steel detailing. We can also provide practical solutions to problematic design considerations, geometrical and constructability issues, architectural and aesthetic visualizations. 4D timeline simulations provide greater clarity to a construction schedule. Give us a call to see how we can bring your project to life.

Technology

Over recent decades, the Australian Steel Construction industry has witnessed a rapid uptake of technology throughout the structural steel supply chain, from designers and detailers to fabricators and processors. This uptake in technology is seen most predominantly in three areas:

1. Design - 3D design models develop a realistic impression of the proposed structure—LOD 100 to 300
2. Detailing - 3D Integrated Construction Models (ICM) develop shop drawings for fabrication—LOD 400 to 500
3. Fabrication - NC Machinery for fast, accurate and cost effective material processing

Steelcad has had decades of experience in developing BIM models for fabrication. We have the skill sets to work with design consultants and maximise the benefits which can be had from various 3D model file types.

Listening and understanding is the key to success, and is what is most important when working in a collaborative BIM environment.

Early Engagement of Shop Detailing

The advantage of early engagement of Steelcad Drafting is that the detailing process can be prepared and managed in a finely controlled environment that is accessible to all sectors in the supply chain and allows targeted, two-way information transfer for all stakeholders earlier than traditional methods.

The fundamental nature of our ICM is to ensure that project data is current, available and reliable. Fortunately, innovators who've embraced BIM early have seen significant increases in productivity providing them with a considerable edge over the 'exchange of paper' industry.

AS MARGINS CONTINUE TO TIGHTEN, DUPLICATION AND WASTED EFFORT MUST BE REDUCED

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Relationship building is what sets Steelcad apart from the competition.

We strive for perfection and aim to deliver a quality product to our clients every time.