



idec

idec
CREW WEAR

CAPABILITY STATEMENT

ideas
design
engineering
construction



“One stop shop”

Our Vision

idec will be known as an industry leader in design, fabrication and construction activities. We will be renowned for our quality, cost effectiveness, innovative approach and professional manner.

Our Values

Ethical standards.

Recognition and respect of all stakeholders.

Quality.

Trust & Loyalty.

Commitment & Passion.

Teamwork.

Company Profile

idec's reputation for unrivalled outcomes is a consequence of more than twenty years of exceptional service to a wide variety of clients such as builders, individuals, corporate entities, community groups, etc.. Over this period we have amassed considerable experience and expertise in the design, fabrication and erection of steel structures both domestically and internationally.

Corporate **idec** began in 1990 as Big Country Buildings by partners Peter Gartshore and Ross Leggatt. Management has now shifted to a board of directors with Glenn Gibson as Chief Executive Officer. Glenn is an engineer by profession and comes with local and international experience.

“Consolidating and maintaining growth, continuous staff training and staff integration are high on my agenda as we see the company forge ahead.”

Glenn Gibson (idec CEO).

The fundamental ethos of achieving as a team underpins the daily life at **idec**. Since it takes the effective working of every section to see a project through to a timely completion, an emphasis on working as a team is essential to the **idec** way. Staff at **idec** totals more than 100 and includes engineers, drafting personnel, project managers, pre-construction consultants, structural steel fabricators, administration personnel, riggers and construction teams.

We are the only custom engineered building company in Australia that offers this 'one stop shop' service with our own people.

Our inherent understanding of site specific construction principles, a resolute attitude demanding continual corporate and individual improvement, together with stringent workplace health and safety requirements (federally accredited) ensures that **idec** is ideally placed to meet all conditions required by government and non-government entities.

Capability Matrix

MARKET SECTORS	CAPABILITIES/SERVICES			
	Design	Fabricate	Construction	Supply only
Industrial	•	•	•	•
Resources & Mining	•	•	•	•
Major Infrastructure	•	•	•	•
Aviation	•	•	•	•
Defence	•	•	•	•
Rail	•	•	•	•
Communication/Power	•	•	•	•
Recreation/Education	•	•	•	•

“The capability to prepare the engineering design and workshop detail drawings in-house provides an extra level of control and streamlines communication between the builder, engineer and fabricator.”



MARKET SECTORS

Industrial
Resources & Mining
Major Infrastructure
Aviation

Defence
Rail
Communication/Power
Recreation/Education





Industrial

Specialising in custom engineered, steel framed industrial buildings and structures, **idec** can provide all or part of your complete building solution.

Our specialty is large buildings, whether it's wide clear span or very high building requirements. With our flexibility to meet your requirements, we are able to design and construct your next industrial project with up to 65+m clear span.

Heavy industrial buildings

idec has a wealth of experience in designing and constructing large heavy industrial buildings. In recent years the company has delivered several large industrial buildings for 2 major road projects in Brisbane, Airport Link and Legacy Way, as well as large casting yard facilities for 2 major interstate infrastructure projects.

Whether it is a long, wide and/or tall heavy industrial building that is required, **idec** has the experience that enables it to take a client's ideas and concepts and make them a reality.

Warehouses

The effective design of a warehouse can affect the efficiency of a company's operations and activities, particularly where it involves the storage and distribution of materials. **idec** can design and construct a warehouse that not only meets a client's current business needs, but also futureproofs for possible later changes. Office space can also be incorporated into such a warehouse.

idec has experience in constructing warehouses ranging in size from small (1,000m²) right through to 10,000+m² industrial warehouses.

Workshops

idec can provide workshops for a variety of industries including Manufacturing, Automotive, Utilities, Aviation, Transport and Technology. The design of a workshop is customised to meet a client's requirements and the demands of their business and specific industry.

PAST PROJECTS

Heavy industrial

Tunnel Boring Machine (TBM) building - Brisbane, QLD

Metro Northwest Rail Casting Yard facility - Sydney, NSW

North-South Motorway road - project - Adelaide, SA

Warehouses

Zacpac warehouse - Staplyton, QLD

Chiorino warehouse - Parkinson, QLD

Bestlan Bananas warehouse - Townsville, QLD

Workshops

Bradken workshop - Mt Isa, QLD

Humes Reo building - Darwin, NT

Komatsu paint booth building - Brisbane, QLD

Resources & Mining

idec has a long history of expertise in the mining, oil and gas industries, and in recent times has been active in the construction of camp buildings at the downstream end of Curtis Island for all three LNG producers (APLNG, GLNG and QCLNG).

Workshops

idec can design and construct maintenance workshops of varying sizes and heights to accommodate a client's functional requirements. This includes constructing workshops that permit large mine trucks to be serviced whilst undercover.

Camp buildings

idec has considerable experience in designing and constructing buildings for workers' camps and construction sites for resources and mining projects.

As such, **idec** is capable of providing clients with a variety of camps buildings including:

- Site operations buildings such as construction, fabrication, equipment, maintenance and storage facilities.
- Support service buildings such as Locker rooms and Laundries.
- Recreation buildings such as Beer Gardens, Gyms and Pavilions.

Pipe racks and supports

A variety of pipe racks and stands can be developed by **idec** to support pipework at a mine or resources site. Such pipe racks and supports are typically fabricated and preassembled in our Brisbane factory and transported to site, or for larger units, they can be developed as modules for final assembly by **idec** on site.



PAST PROJECTS

Workshops

Yarrabee Mine workshop -
Blackwater area, QLD

Lake Vermont Mine workshop
-Dysart area, QLD

Lady Annie Copper Mine
workshop – Mt Isa area, QLD

Camp buildings

GLNG, APLNG and QCLNG
camp- buildings -
Curtis Island, QLD

Wheatstone LNG camp
buildings -Onslow, WA

Pipe racks and supports

Pipe racks for GLNG Upstream
project -Roma, QLD

Pipe supports for Yarraman
Water Main Creek Crossing –
Yarraman, QLD



Major infrastructure

Providing building solutions to tier 1 contractors for major road and rail infrastructure projects is one of ideo's strengths. Our industrial building background, 'one-stop shop' capability and ability to adhere to all requirements of major projects means we are well placed to deliver support infrastructure for such projects. To date we have provided building solutions for road projects in Brisbane, Sydney and Adelaide and a rail project in Sydney.

Acoustic buildings

With noise sensitivity being a major issue for tunnelling works of road projects, **ideo** can provide acoustic building solutions that will enable 24 hour operations, minimise noise risk and assist contractors in maintaining a positive public profile during construction.

We have developed a number of acoustic systems that have been laboratory tested by an independent NATA accredited acoustic consultancy firm. As such we have the ability to provide clients with a customised solution that will achieve their desired level of noise reduction.

Casting yard facilities

ideo can design and construct industrial buildings of varying sizes and heights that will support the manufacture of precast concrete segments for road and rail projects. Where required, such buildings can be designed to support large overhead gantry cranes.

Miscellaneous functional structures

A variety of other functional structures can be constructed by **ideo** to support major infrastructure projects. These include:

- Temporary buildings for a project's construction phase such as spoil sheds and dive covers.
- Permanent structures for a project's operational phase such as cut and cover steel for tunnel portals, water treatment buildings and equipment shelters.

PAST PROJECTS

Acoustic buildings

WestConnex M4 East road project - Sydney, NSW

WestConnex M5 East road project - Sydney, NSW

Sydney Metro - Chatswood, Crowsnest

Casting yard facilities

Metro Northwest rail project - Sydney, NSW

Legacy Way road project Brisbane, QLD

North-South Motorway road project - Adelaide, SA

North-West Rail project

Miscellaneous

WestConnex road project - (Dive covers) - Sydney, NSW

Airport Link road project (Spoil sheds) - Brisbane, QLD

Legacy Way road project (Portalcut and cover steel) - Brisbane, QLD

Aviation

idec has a wealth of experience in the aviation sector. As such we offer clients a wide range of building solutions and services for both airport and off-airport sites across the country.

Radar Towers

We have completed a number of radar tower projects in rural and remote locations across Australia and offer clients a comprehensive service for both new and existing radar tower sites.

New sites

- Earthworks, foundations, fabrication and erection of steel towers, installation of equipment shelters and building services, concrete hardstands, car parks and site fencing.

Upgrades to existing sites

- Structural upgrades to existing towers, foundation modifications, building upgrades, installation of radomes, new antennas and feeders, and site fencing.

Air Navigation Towers

Having installed air navigation towers at over 50 airports around Australia, **idec** has the experience and understands the constraints of working airside at operational airports. The services we offer include:

New sites

- Earthworks, foundations, fabrication and erection of steel towers and site fencing.

Decommissioned sites

- Disassembly of towers and removal of associated infrastructure.

In this field, **idec's** point of difference is that we typically self-perform the majority of these key activities.

Airside and landside buildings

Our industrial building background enables us to design and construct a range of functional buildings suitable for both airside and landside at major and regional airports. Such facilities can include hangars, warehouses, workshops and undercover car parks.



PAST PROJECTS

Radar Towers

30m Radar Tower -
Cecil Park, NSW

Upgrade to Mt Alma tower -
Rockhampton, QLD

Upgrade to Tabletop tower -
Townsville, QLD

Air Navigation Towers

NDB Towers -
Ballina Airport, NSW

NDB Towers -
Cunnamulla Airport, QLD

NDB Towers -
Wynyard Airport, TAS

Airside/landside buildings

Talbot Group hangar -
Brisbane Airport, QLD

RFDS hangar -
Cairns Airport, QLD

Undercover carpark -
Coffs Harbour Airport, NSW



Defence

idec's experience undertaking construction activities on operational Defence sites combined with our expertise in towers and large clear span industrial buildings makes us a natural choice for Defence projects.

Towers

From our considerable civilian experience in the field of tower installations, we have gained a well-developed understanding of how to erect towers safely and efficiently in a variety of locations and settings. This skillset means that **idec** is well qualified to supply and install a range of functional towers for the Department of Defence including:

- Radar towers
- Air navigation towers
- Communication towers
- Climbing and rappelling towers

Functional buildings

idec has the capability of designing and constructing an array of buildings varying in size, complexity and functionality.

Our defence experience extends to the construction of:

- Vehicle shelters
- QStores
- Workshops
- Headquarters (HQ)
- Base Command Posts (BCP)

This experience is complimented by our work constructing large industrial buildings including:

- Warehouses
- Hangars
- Acoustic buildings

PAST PROJECTS

Towers and Cabling Works project -
RAAF Base Amberley, QLD

C17 Aircraft Hanger
Amberley, QLD

Enhanced Land Force (ELF) -
Stage 2 Phase 2B
Gallipoli Army Barracks
Brisbane, QLD

Land 121 Ennoger, QLD

RAAF Amberley Redevelopment
Stage 3 package 3
RAAF Base Amberley, QLD

Battlefield Airlifter
Amberley, QLD

Communication/ Power

We offer a variety of building refurbishment solutions for the upgrade of existing critical communication and power infrastructure sites.

Communication site upgrades

With experience as an Ergon Energy panel contractor, **idec** has the capability to undertake upgrade works to communication sites in urban, rural and remote locations. These works can include:

- Earthworks and foundations;
- Installation of steel towers, concrete monopoles, equipment shelters, antennas and feeders, earthing grids and site fencing;
- Decommissioning and removal of redundant structures; and
- Commissioning and testing of new equipment.

Substation enclosures

idec's offering for transformer enclosures at power substations extends beyond structural steel solutions. We can also provide a range of roof and walling solutions that will provide weather protection whilst maintaining suitable ventilation for equipment.



PAST PROJECTS

Comm. Site upgrades

Black Mountain -
near Croydon, QLD

Westwood Range -
near Miriam Vale, QLD

Round Mountain -
near Mt Surprise, QLD

Mt Stirling -
near Stanthorpe, QLD

Itchthys, Bens Hill, MT

Substation enclosures

Energex substation
Birtinya, QLD



Rail

idec can provide a range of building solutions to the rail sector including both new and refurbishment works. All key **idec** staff and subcontractors are appropriately licensed to operate in a rail environment and we have experience at undertaking construction activities during both:

- Scheduled line closures; and
- In a live rail environment when stations remain operational during construction works.

Train station upgrades

For the upgrade of train stations within Queensland's Citytrain network, **idec** offers a wide ranging building service including:

- Fabrication and erection of steel structures including lift shafts, overpasses, staircases and platform awnings;
- Installation of cladding and rainwater systems; and
- Installation of safety systems including security screens, handrail and balustrading.

Railway bridge access upgrades

For upgrade projects to existing railway bridges, **idec** offers civil construction companies a supply and install service for steel and metal work items. This can include:

- Fabrication and erection of maintenance walkway structures; and
- Installation of walkway decking, balustrades and other safety systems.

Rail support facilities

idec can design and construct industrial buildings (eg. workshops) for a variety of rail support facilities including depots and maintenance facilities. This service extends to:

- New buildings; and
- Extensions to existing buildings.

PAST PROJECTS

Train station upgrades

Dinmore station accessibility upgrade - Brisbane, QLD

Graceville station accessibility upgrade - Brisbane, QLD

Bridge access upgrades

Sadliers Crossing rail bridge - Ipswich, QLD

Rail support facilities

Aurizon rail weld facility - Brisbane, QLD

Extension to Aurizon facility - Brisbane, QLD

Recreational / Education

Protection from sun and weather and providing a year round sporting and recreational facility is high on the agenda of many sporting, community and educational groups.

Sports covers

idec is capable of providing sports covers for a range of sporting infrastructure including bowling clubs, swimming pools and equestrian centres. Each cover is custom designed to accommodate the client's individual requirements in terms of functionality, aesthetics and maintenance.

The addition of a sport cover can provide a venue with protection from the elements, with the potential for flow-on effects including improved user appeal and levels of patronage.

Multi-purpose halls

The development of all-weather, multi-purpose halls can provide schools and organisations with buildings capable of use all year round by them and the wider community. **idec** has experience in constructing multi-purpose halls at locations across Queensland and can work with clients to design a building that meets their needs and budget.



PAST PROJECTS

Sports covers

State Equestrian Centre -
Caboolture, QLD

Urangan Bows Club cover -
Urangan, QLD

Rockhampton High School
cover - Rockhampton, QLD

Multi-purpose halls

PCYC Sports Stadium -
Mackay, QLD

Redlands College Sports Hall -
Wellington Point, QLD

Kuraby State School MPH -
Kuraby, QLD



CAPABILITIES

Design
Engineering
Workshop Drawings
Fabrication
Construction

Design

Design & Engineering

All our design work is carried out in Australia and is fully compliant with all relevant Australian Standards.

Our qualified personnel can help develop your ideas and needs by preparing design documents such as:

- Structural engineering documentation for all types of structural steelwork.
- Supporting concrete (foundations, slab, tilt panels, etc).
- Structural engineering design and certification for building construction and approval.
- Built up plate (BUP) non-prismatic portal frames for wide clear spans.

Our engineering and drafting team also provide structural and civil engineering services in the following areas:

- Materials handling industry.
- Cranes, hoists and lifting structures.
- Communication towers.
- Structural audit and reporting.
- Mobile energy generation and communications modules.

The latest software applications utilised in our design and drafting include:

- STAAD.Pro
- TEDDS
- AutoCad
- Tekla Structures
- Revit

Workshop Drawings

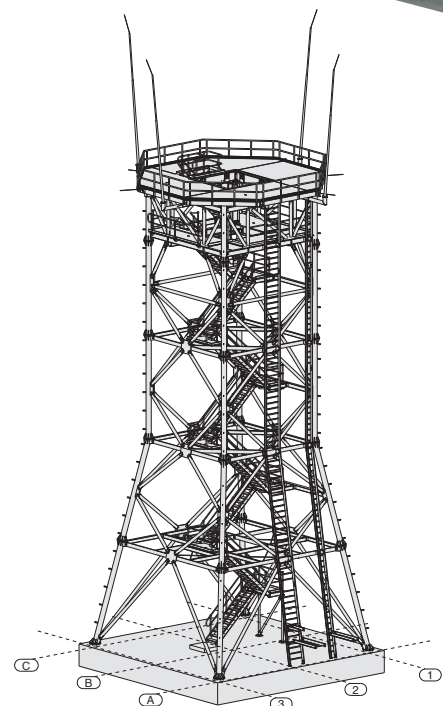
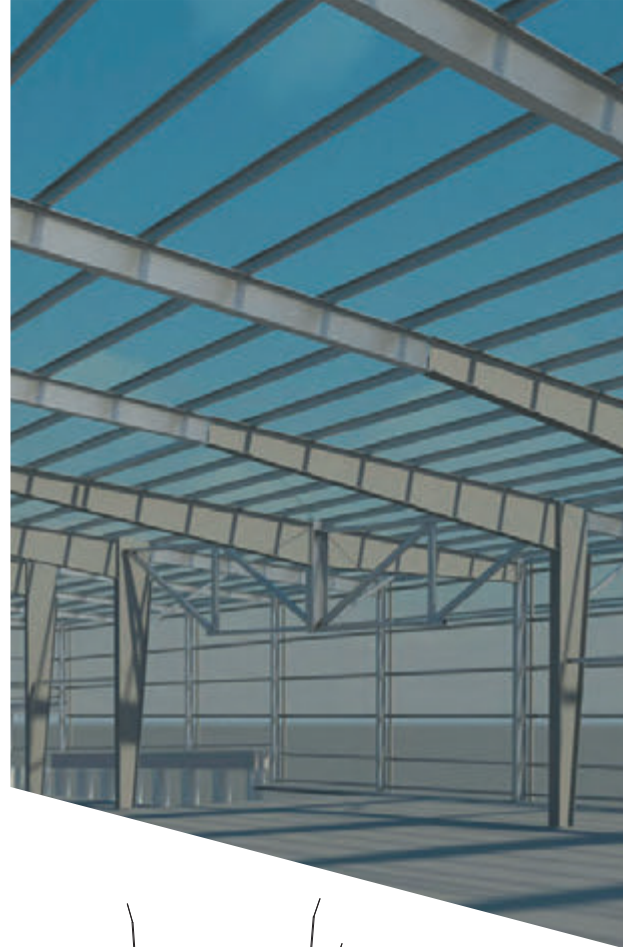
With in-house Steel Detailers in Brisbane, idec has the ability to produce workshop drawings for any size job. The quality of the drawings produced by our professional detailers ensures that the fabrication of steel in our workshop proceeds without issue.

Utilising advanced 3D modelling software (Tekla Structures) and with in-house customisation abilities, we produce an intelligent Building Information Model (BIM).

Customised reports, assembly drawings, single part drawings and 3D erection drawings are all linked to the 3D model to ensure all documentation is integrated and accurate to assist with fabrication and erection. For complex projects, we also utilise 3D scanning and are able to incorporate the results in our 3D models.

Many types of electronic data can be provided to suit individual workshop requirements and steel suppliers. For example:

- Assembly drawings
- Erection drawings
- Single part drawings
- CNC Data
- DXF
- BIM Modelling



3D SETOUT VIEW



Fabrication

Our modern, purpose built workshop facilities with overhead cranes, automated beamline and tractor welding machines and experienced, qualified tradesmen ensure that the finished product is fabricated and manufactured accurately and on time.

Qualified and certified welders, welding procedures, full time QA staff and internal NDT testing are all part of our internal QA systems.

We have capacity for up to 1,800 person hours per week and 7,000t per year. Our 3000m² workshop contains the following equipment:

- 3 x 5t overhead cranes
- 1 x 10t overhead crane
- Beamline welding machine
- Oxy cutting equipment
- Plasma cutter
- 115t punch and shear machine

All **idec** fabrication complies with:

- AS4100 – Steel Structures
- AS1554 – Welding of Steel Structures
- AS5131 – Structural Steelwork – Fabrication and Erection

Specialised fabrication

For your high end fabrication needs, **idec** is the perfect choice for the fabrication of items such as:

- Pipe stands, crossovers and platforms
- Chutes
- Skids
- Crane beams
- Intricate stair frames
- Communications and electrical generation module frames
- Any structure that require welding to AS/NZS 1554.1:2011

We have highly qualified fabricators and welders together with a full time team of QA personnel.



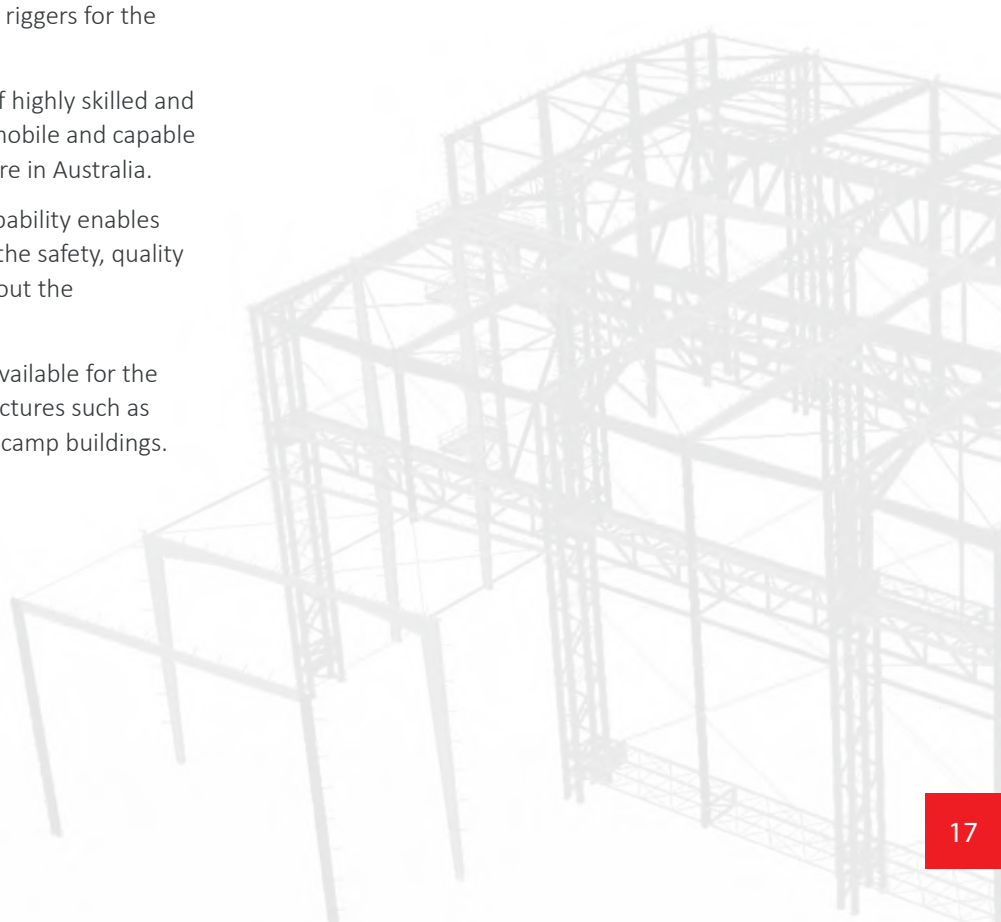
Construction

As part of **idec**'s "one stop shop" solution, **idec** typically relies on its own riggers for the delivery of its projects.

idec has a number of teams of highly skilled and experienced riggers that are mobile and capable of erecting structures anywhere in Australia.

Having an in-house rigging capability enables **idec** to maintain control over the safety, quality and time of a project throughout the construction process.

idec's rigging teams are also available for the dismantling of temporary structures such as acoustic buildings and mining camp buildings.



Quality

We are accredited to ISO 9001 Quality Management System.

Continual improvement through the Quality Management System keeps idec's focus upon the goal of sustained, yet ever increasing, quality.

From design through drafting, detailing, fabrication, protective coating and erection, our clients are confident in our ability to deliver a first class product.

Safety

We are accredited to AS/NZS 4801:2001 – Occupational Health and Safety Management Systems.

Workplace health and safety is of critical importance in the planning, organisation and undertaking of idec's operations.

It is the policy of idec to conduct its activities in such a way that the health, safety and well-being of all employees, sub-contractors and other stake holders are not in any way impaired or prejudiced as a result of works done within or for the organisation.

We are also accredited to the Australian Government Building and Construction OH&S Accreditation Scheme.

Environmental

We are accredited to ISO 14001 Environmental Management System.

It is the policy of idec to conduct its activities in such a way that recognises the importance of environmental protection and sustainability. This includes actively seeking to minimise waste, prevent pollution and reduce the carbon footprint of our business and activities.





Licenses and Accreditations

Builder's Licences: 707347 (QLD); CB-L 46101 (VIC); 101097 (WA); 212014 (SA)

ISO 9001 Quality Assurance

AS/NZS 4801:2001 – Occupational Health and Safety Management Systems

ISO 14001 Environmental Management System

ASI ESC Member – Sustainability in Steel Construction

Steelwork Compliance Australia (SCA) certification

Australian Government Building and Construction OH&S Accreditation Scheme

Queensland Government prequalification (PQC) Registration No. 1905

Queensland Government Transport and Main Roads Fabrication and Bus Shelters accreditation

NSW Government Roads and Maritime Services (RMS) Registered Contractor

Building Code 2016 compliant

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