



InfraBuild

Building futures through sustainable steel

Mining, Oil & Gas Capability Document

Proudly supporting customers in mining, oil and gas with steel products, processing and solutions.

SEPTEMBER 2021



National Network of Operations - Mining



National Network of Operations

Our parent company, GFG Alliance, owns iron ore mining assets in Whyalla and iron ore bulk handling facilities at the Whyalla port which are part of LIBERTY. Our national network of operations has significant experience and expertise in integrated steel manufacturing, processing and distribution within the mining sector. InfraBuild Steel Centre is Australia's only fully integrated supplier of metals and building products, with an extensive network of branches covering all major cities and regional areas.

InfraBuild Steel Centre

InfraBuild Steel Centre is the distribution arm of the business and Australia's only truly integrated steel supplier, with an extensive network of branches covering all major cities and regional areas. This means we can provide our mining, oil and gas customers with end to end solutions.

Our Products

Across our branch network, InfraBuild Steel Centre can provide a comprehensive range of mining steel products to help support you and your project. These products include Hot Rolled Structural, Merchant Bar, Pipe, Plate, Mechanical Jointing Systems, Valves, Bore Hole Casing and more. Our mining products have been used in exploration activities, camp construction, excavation and plenty more mining related projects.

Our Capabilities

With the support and stability of one of Australia's largest steel organizations, InfraBuild Steel Centre provides a comprehensive mining product range with a full-service package.

This includes our national processing footprint and the ability to source both local and international products within short lead times. Through our integrated supply chain, we can truly add value to our customers by delivering products in an order which suits their requirements.

As part of the broader InfraBuild network we also have significant expertise in working with our customers to provide engineering and design optimisation assistance to minimise risk while reducing waste and cost. Our regionally based teams have a deep and rich understanding of the local mining industries, enabling them to consistently provide solutions tailored specifically to the needs of our customers.

Over 100 Years in the Making

We have 100+ years experience as a miner, manufacturer, and supplier of product into the Australian mining industry.

Our Support

Our staff recognise that you require efficiency and flexibility to maximise the potential of your business and that providing high-quality, Australian-made steel is only the beginning.

InfraBuild Steel Centre staff are focused on safely providing you solutions from the conception of your project, right through to the completion.

Supply Capability

Product Ranges

- Angles
- Bar
- Bore Hole Casing
- Building Services Products (HVAC)
- Fittings – Black, Galvanised, Gal Mal, Buttweld, Shouldered
- Fencing
- Flat Bar
- Gaskets – Table D, Clamps
- Grating
- Hanging Gear
- Linepipe ERW - Screwed, Buttweld, Flanges (Carbon and Stainless Steel)
- Manifolds – Air and Water
- Merchant Bar (Flat, Rounds and Square)
- Pipes – Black, Galvanised, Plain End, Shouldered
- Plastic Pipes, Valves and Fittings
- Plate (Carbon and Stainless Steel)
- Plate Abrasion and High Strength
- Rail and Sleepers and Track Accessories
- Reinforcing
- RHS
- Roadside Barriers

- Round
- Sheet, Coil and Aluminium
- Stanchions
- Structural Beams
- U Bolts
- Valve Actuation and Automation
- Valves – Ball, Wafer, Globe, Butterfly, Knife Gate
- Wear Products

Value Add

- CustomerOne® Program
- Material and Price Forecasts
- Nesting
- Processing
- Profile Cutting
- Project Management
- Recycling Services
- Supply and Installation
- Total Cost of Ownership Program
- Vendor Managed Inventory (VMI)
- Warehouse Management
- Wear solutions package

InfraBuild Steel Centre Mining Program

At InfraBuild, we understand the importance of meeting deadlines and reducing the stresses on contract managers, we do this by appointing a single point of contact, a corporate relationship manager, from InfraBuild Steel Centre. This appointed manager will:

- Manage the contract and communication between the different stakeholders within your Company and InfraBuild
- Act as a single point of contact at the contract level
- Act as a facilitator across all the programs agreed with you.

InfraBuild Steel Centre's Mining Mining Program draws on extensive experience and knowledge across the sector, including:

- 100+ years experience as a miner, manufacturer, and supplier of product into the Australian mining industry
- Broad range of steel, piping and wear products, along with complementary products and expertise to provide solutions and options for all mining and contractor needs
- Thorough understanding of remoteness with our Steel Centre branches in regional communities and our own mining operations. JIT stock supply, shutdowns and emergencies are part of our everyday.
- Automation, price and stock accuracy and integration with ERP systems for seamless supply to meet all valid MRO and project requirements.

InfraBuild Steel Centre can help businesses like yours, which are often cost and time constrained, through our full-service approach for steel and aluminium supply. We offer a package of exclusive 'tools' and resources aimed at adding value to your business through innovation and continuous improvement. Areas of focus include:

- Customised service offer; innovative solutions
- Cost saving initiative generation
- 'Total Cost of Ownership' (TCO) analysis
- Gap analysis
- Undertaking reporting requirements
- Risk reduction

We believe in delivering on the important foundations of business such as on-time and in-fully delivery performance, product compliance and traceability and price predictability through forward pricing agreements, whilst creating value with a continuous improvement philosophy and experienced local representation.

InfraBuild has unique capabilities required to have a successful partnership with your Company. InfraBuild's strength is our ability to meet the needs of both your corporate procurement and contracts objectives and satisfy the operations needs of your mine sites.

Compliance & Accreditation

Accreditation formally recognises that InfraBuild meets authorised third-party's manufacturing standards. Manufacturing steel products requires highly controlled inputs and processes to ensure the end products are safe, strong and reliable. Our products are manufactured to the highest level of Australian and New Zealand Standards to give you the confidence you have the right steel product for the job at hand.

ACRS Accreditation

Our accreditation with the Australasian Certification Authority for Reinforcing and Structural Steels (ACRS) guarantees:

- Independent testing free from any commercial interests or influence
- You get the most up-to-date safety and testing measures
- The products you use are safe, strong and reliable
- Peace of mind that you're buying quality structural steel products made to Australian and New Zealand Standards, backed by multiple independent industry bodies.

ACRS third-party certification also provides additional assurance that the manufacturer has demonstrated the capability to consistently manufacture and supply compliant product.

ISO Accreditation

InfraBuild has ISO 14001 Environmental Management System (EMS) Certification for all its major manufacturing sites. To be eligible for Steel Credit Points in the Green Star Tool, the steel must be supplied by a manufacturer with EMS Certification.

Worldsteel CAP Certificates

InfraBuild is a member of the Climate Action Program (CAP).

The World Steel Climate Action Recognition Program recognises that steel producers such as InfraBuild have fulfilled their commitment to participate in the World Steel CO2 emissions data collection program.

Environmental Product Declarations

InfraBuild products can be supplied with Environmental Product Declarations (EPDs) for its structural and reinforcing ranges. These EPDs are independently verified and registered documents that are recognised by the Infrastructure Sustainability Council of Australia and the Green Building Council of Australia and can be used to gain IS rating tool points and Green Star rating tool points. InfraBuild's five EPDs can be downloaded here: <https://www.infrabuild.com/sustainability/environmental-product-declarations/>

Product Quality

Whilst our product range and supply services to the Mining sector has been developed and refined over the past 100 years, InfraBuild still has a unique position in managing product quality given its alignment to InfraBuild's vertical integration steelmaking value chain.

InfraBuild has Process Engineers and Quality Assurance and Technical staff involved with maintaining the process to the highest possible standard and efficient manner. These manufacturing sites have consistently attained third party accreditation to Quality Management System ISO 9001 and Environmental Management System ISO 14001.

Additionally, InfraBuild Steel Centre operates a fully compliant NATA laboratory in Newcastle. The quality of products is constantly checked by skilled technical staff using proven equipment. Strict metallurgical control is maintained, from receipt of raw materials to despatch of finish product. The quality of products is rigorously tested and certified, with Test Certificates and Certificates of Compliance providing assurance that InfraBuild Steel Centre sections meet all required specifications.

InfraBuild Steel Centre supplies products that are compliant to the relevant Australian Standards or InfraBuild's own high quality standards. InfraBuild Steel Centre's aim is to supply consistent high quality mining product. The National Procurement Manager oversees the management of manufacturers, quality assurance processes as well as continuous improvement in the business.

InfraBuild Steel Centre will be pleased to present product standards should these be required.

Quality Management

InfraBuild's manufacturing quality systems cover the following processes:

- Product material, chemical composition and test certificates can be generated, according to site requirements, in a timely manner to meet delivery or fabrication schedules.

Standards

InfraBuild Steel Centre sources from our integrated manufacturing businesses and external vendors only steel products which meet or are an equivalent standard to the following:

Category	Standard	Standard Description
Structural	AS/NZS 3679	Structural steel Part 1: Hot-rolled bars and sections
	AS/NZS 3679	Structural steel Part 2: Welded I sections
	AS/NZS 4600	Cold-formed steel structures
	SA TS 102	Structural steel – (Technical Specification) Limits on elements added
	SA TS 103	Structural steel – (Technical Specification) Limits on boron in parent materials.
Tubular	AS/NZS 1074	Steel tubes and tubulars for ordinary service
	AS/NZS 1163	Cold-formed structural steel hollow sections
	AS/NZS 1450	Steel tubes for mechanical purposes
Category	STANDARD	STANDARD DESCRIPTION
Bar	AS/NZS 1442	Carbon steels and carbon-manganese steels - Hot rolled bars and semi-finished products
	AS/NZS 1443	Carbon and carbon-manganese steel - Cold-finished bars
	AS/NZS 1444	Wrought alloy steels - Standard, hardenability (H) series and hardened and tempered to designated mechanical properties
Reinforcing	AS/NZS 4671	Steel reinforcing materials
Sheet-Plate	AS/NZS 1365	Tolerances for flat-rolled steel products
	AS/NZS 1397	Continuous hot-dip metallic coated steel sheet and strip - Coatings of zinc and zinc alloyed with aluminium and magnesium
	AS/NZS 1445	Hot-dipped zinc-coated, aluminium/zinc-coated or aluminium/zinc/magnesium-coated steel sheet — 76 mm pitch corrugated
	AS/NZS 1594	Hot-rolled steel flat products
	AS/NZS 1595	Cold-rolled, unalloyed, steel sheet and strip
	AS/NZS 2551	Steel sheet and strip - Cold-rolled, electrolytic zinc-coated
	AS/NZS 3597	Structural and pressure vessel steel - Quenched and tempered plate
	AS/NZS 3678	Structural steel – Hot-rolled plates, floorplates and slabs

Price Management

InfraBuild Steel Centre, in building a relationship of trust and transparency with you will quantify the link between cost, value delivered and price. We believe that we can do this by analysing:

- The cost to serve site, and the account as a whole
- The value delivered to you through all elements of our offer from each InfraBuild Steel Centre site to the local asset
- The value derived from our price, and understanding market competitiveness, supply and demand conditions locally and globally, steel trends and future movements.

We recommend our Western Australian regional supply governance process manages your contract more intimately, maintaining an effective price strategy and value exchange for the account; this may include sharing emerging markets sourcing data, alternative and substitute products, maximising project competitiveness to increase volumes, and potentially investigating volume based pricing models.

Inventory Management

InfraBuild Steel Centre Distribution has a dedicated team of Inventory Controllers who are engaged in managing inventory. Primary focus of inventory controllers is to maintain optimum inventory levels and determine order/replenishment schedules and quantities. They try to balance inventory all the time and maintain optimum levels to avoid inappropriate which can be damaging to the business and its customers.

InfraBuild Steel Centre has deployed a dynamic stocking policy to reflect the lead time from suppliers as well as demand variability across the product range. In general, our product range is categorised into A, B & C categories and periodically reviewed. This categorization of inventory helps us manage the entire volume and assign relative priority to the right category.

- **A category items:**
We identify these stocks as high value items and ensure tight control in terms of process control, physical security as well as audit frequency.
- **B category items:**
These are given second priority but with adequate documentation and audit controls in place.
- **C category items:**
Can be managed with basic and simple records. Inventory quantities can be larger with fewer periodic reviews.

This is supplemented by input from the sales team who provide specific customer demand needs. This information together with normalized demand profile provides optimal inventory holdings to match specific customer needs.

Stock Allocation

Any stock requirements agreed between yourself and InfraBuild Steel Centre to be maintained on an exclusive basis will be complied on the understanding that you will take responsibility for a stock forecast of subject material. InfraBuild Steel Centre has many instances of this type of vendor-managed inventory with key customers.

Order Fulfilment

The magnitude of order value and lead time is specified within the Request for Quotation (RFQ) and is being automated through the SAP integration process. Lead times for a limited range of product groups may benefit by a larger volume, and hence, value of order. The value in better lead times is to be found in an earlier forecast, which will enable our mills to plan and, in some cases, reserve capacity for your forecast requirements. This is particularly true of your project needs.

Risk Mitigation

The InfraBuild Steel Centre Distribution chain has the capacity to cope with demand variations, because each location is supported by the strength of InfraBuild Steel Centre's supply relationships, and a national stockholding of steel. The cornerstones of this network are formed by the InfraBuild Steel Centre regional centres, the network of 200 individual outlets, and supply relationships with local and international suppliers. Our expertise, history, and relationships in the market place have allowed us to create alternative supply chains, in the event of demand increases or stock scarcity.

Each individual InfraBuild Steel Centre site holds stock according to historical market usage rates. Stock range and inventory levels can be adjusted to support validated needs.

InfraBuild Steel Centre Availability

Lead times can be stipulated in the proposed supply arrangement.

For any additional items lead times will depend on where the item is sourced. InfraBuild Steel Centre will provide your Contract Manager and Purchasing Officer with optimal combinations of prices and lead times. For metropolitan delivery points for ex-stock items, these will general be next day delivery.

Processing Capability

InfraBuild Steel Centre's national branch network offers you an expansive range of processing solutions, combined with our entire range of products, project management and technical expertise; we can seamlessly access additional processing and

finishing resources as required. InfraBuild Steel Centre has a comprehensive range of in-house processing equipment and proven experience that aims to reduce your risk on projects whilst maximising the quality of results.

Western Australia

Machine	Capability
Kinetic K4000 Drill & Bevel Sections: Plate	Etching, Plasma cutting, Oxy cutting, Drilling, Countersinking. Max length 18000mm. Max Width 4000mm
High Definition Plasma x 2 Sections: Plate	Plasma Cutting, Plasma etching. Max length 18000mm. Max Width 3900mm
FICEP 1101 DZB Beamline Sections: UB, UC, Welded Sections, Structural Angles, RHS, Pipe & Flat Bar	Drilling, Saw Cutting, Mitre Cutting, Stamping, Etching, Countersinking, Tapping & Slot Cutting Max Width 1015mm Max Height 450mm
FICEP LTB 950B Bandsaws Sections: UB, UC, Welded Sections, Structural Angles, RHS, Pipe & Flat Bar	Saw Cutting, Mitre Cutting, Pack Cutting

Victoria

Machine	Capability
ESAB Oxy Profiler Sections: Plate	Flame Cutting (up to 200mm thick) Max length 21500mm. Max Width 3200mm
ESAB High Definition Plasma Cutter Sections: Plate	Plasma Cutting, Plasma etching. Max length 21500mm. Max Width 3200mm
FICEP Beamline 1203 DD Sections: UB, UC, Welded Sections, Channels, Structural Angles, RHS	Cutting, Drilling, Mitre Cutting, Marking, CNC programming Maximum Length: 20000mm. Drill Sizes 5 to 50mm
FICEP Coping Beamline 1201 RC Sections: UB, UC, Welded Sections, Channels, Structural Angles	Oxy HD Plasma, Cutting, Drilling, Stitch & Slot Cutting, Haunching, Coping, Notching. Maximum Length: 12000mm Beam Height min/max 80/1220mm

New South Wales

Machine	Capability
ProARC Profiler Sections: Plate	Flame Cutting Thickness range: 5 – 180mm Maximum Plate Size: 3200mm x 16500mm
ESAB High Definition Plasma Cutter Sections: Plate	Plasma Cutting, Plasma etching. Max length 12000mm. Max Width 3500mm
TIPO B251 Plateline Sections: Plate	Plasma & Flame Cutting, Punching, Drilling, Tapping & Counter Boring. Thicknesses: 5 – 100mm. Plasma cut & punch up to 25mm Max length 6000mm. Max Width 2400mm
FICEP Beamline 1203 DD Sections: UB, UC, Welded Sections, Channels, Structural Angles, RHS	Saw Cutting, Drilling, Mitre Cutting. Maximum Length: 18000mm. Drill Sizes 10 to 40mm
FICEP Beamline 603 Sections: UB, UC, Welded Sections, Channels, Structural Angles, RHS	Cutting, Drilling, Saw Cutting, Stamping. Maximum Length: 18000mm. Drill Sizes 10 to 40mm
Coping Beamline DTT 1225 Sections: UB, UC, Welded Sections, Channels, Structural Angles	Oxy Cutting, Drilling, Stitch & Slot Cutting, Coping, Penetrations & Stamping. Maximum Length: 18000mm Drill Sizes 10 to 40mm
Angle Line Section: Angles, Flat Bar	Min: 30mm, Max: 150mm
Bandsaws Sections: UB, UC, Welded Sections, Structural Angles, RHS, Pipe & Flat Bar	Saw Cutting Maximum Length: 18000mm

South Australia

Machine	Capability
ESAB Oxy Profiler Sections: Plate	Flame Cutting (up to 200mm thick) Max length 21500mm. Max Width 3200mm
ESAB High Definition Plasma Cutter Sections: Plate	Plasma Cutting, Plasma etching Max length 21500mm. Max Width 3200mm
Peddinghaus Beamline Sections: UB, UC, Welded Sections, Channels, Structural Angles, RHS	Drilling, Saw Cutting, Mitre Cutting, Stamping, Scribing Maximum Length: 20000mm. Drill Sizes 12 to 40mm
Kinetic K5000xmc Sections: Plate	HD Plasma Cutting, Oxy Profiling, Punching, Drilling, Tapping, Beveling, Chamfering, Hole Interpolation, Thread Milling, Part Marking, Counter Boring, Sinking & Counter Boring Thickness Range: 5mm – 200mm
Hydmech V-25APC Vertical Bandsaw Sections: UB, UC, Structural Angles, RHS, Pipe & Flat Bar	Saw Cutting, Mitre Cutting, Pack Cutting Maximum Length: 15000mm. Beam Height min/max 80/1220mm

Queensland

Machine	Capability
Profile Cutting System (PCS) Sections: Plate	Plasma Cutting, Gas Cutting, Etch Marking, Drilling, Beveling, CNC Programming Thickness range: 5 – 100mm Maximum Length: 14000mm
Specialised Plate Beveling Sections: Plate	Beveling plate 16mm – 200mm Max width: 3200mm. Max Length: 12000mm Angles: from 45 deg to 75 deg from through thickness face.
HD Plasma x 2 & Standard Plasma Sections: Plate	Plasma Cutting, Plasma etching, Pop Marking, CNC Programming Thickness range: 3 – 38mm. Max length 15000mm – 24000mm (depending on machine). Max Width 3600mm
Oxy Gas Cutting x2 Sections: Plate, UB, UC	Oxy Gas Cutting, Multi-Head Cutting, CNC Programming Max length 15000mm – 24000mm (depending on machine). Max Width 3600mm
FICEP Beamlines x 3 Sections: UB, UC, Welded Sections, Channels, Structural Angles, RHS	Cutting, Drilling, Mitre Cutting, Marking, CNC Programming Maximum Length: 16000mm to 18000mm. Drill Sizes 5 to 50mm
Bandsaws Sections: UB, UC, Welded Sections, Structural Angles, RHS, Pipe & Flat Bar	Saw Cutting Maximum Length: 8000mm – 15000mm (depending on machine).
Angle Line Section: Angles, Flat Bar	Angle Min: 50x50x5mm, Max: 150x150x12mm Flats: 50mm to 300mm width, 6mm to 25mm thickness

Tasmania

Machine	Capability
PCS HD Plasma Sections: Plate	Plasma Cutting, Gas Cutting, Etch Marking, Drilling, Tapping, Beveling. Thickness range: up to 60mm. Drilling up to 35mm Maximum Length: 17500mm. Maximum Width: 3200mm
Oxy Gas Cutting x 2 Sections: Plate, UB, UC	Oxy Gas Cutting, Multi-Head Cutting, CNC Programming Max length 13500mm. Max Width 3200mm
FICEP Beamline 1203 DD Sections: UB, UC, Welded Sections, Channels, Structural Angles, RHS	Saw Cutting, Drilling, Mitre Cutting, Marking Maximum Length: 18000mm. Drill Sizes 5 to 50mm
FICEP Coping Beamline 1201 RC Sections: UB, UC, Welded Sections, Channels, Structural Angles	Oxy HD Plasma, Cutting, Drilling, Stitch & Slot Cutting, Haunching, Coping, Notching Maximum Length: 12000mm Beam Height min/max 80/1220mm
Robro Cold Saw RHS, Pipe, SHS, Bar	Square Cutting Thickness Range: 8mm to 102mm Maximum Cut Length: 20mm – 4500mm
Marvall MKII Bandsaw Sections: UB, UC, Angles, RHS, Pipe & Flat Bar	Short Lengths, Pack Cutting Maximum Length: 20000mm Maximum Height: 10mm – 500mm Cut Length: 50mm – 18000mm
Mitre Cutting Sections: Structural	Mitre Cutting Maximum Length: 18000mm Maximum Height: 50mm – 400mm Cut Length: 1500mm – 18000mm

Support & Expertise

InfraBuild Steel Centre consistently provides technical information regarding products and the standards to which they may comply. Additionally, InfraBuild Steel Centre may also call upon the support of our suppliers including our own manufacturing mills in Australia and other suppliers locally and offshore, to ensure appropriate service and application of technical support to operators and maintenance personnel.

InfraBuild Steel Centre, particularly through InfraBuild Steel actively develops core engineering reliability skills and holds a core group of subject matter experts available to all business units and on occasion to customers. Recent examples of customers tapping into InfraBuild Steel Centre technical capability include Rio Tinto Pacific Aluminium Gove and BHP Mitsubishi Alliance (BMA).

Core skills held in the subject matter experts and to some degree in the plants include: reliability management and improvement, critical equipment management, production selection, product optimisation as well as process improvement.

The use of such persons shall be upon arrangement or be recorded against any agreed savings programme at an agreed rate.

Value Add

In addition, the following is offered:

- Project management expertise
- InfraBuild Steel Centre personnel expertise – process engineers, steel engineers
- Supply chain management
- Supply network design and capacity planning
- Process analysis and design of stock handling
- Capacity management and aggregate planning
- Inventory management expertise e.g. layouts etc.
- Resource planning, scheduling and control
- Lean synchronisation of required stock approach
- Servicing of products
- SAP integration and Digital Engagement Strategy
- Total Cost of Ownership Analysis and Needs Analysis Survey



InfraBuild

Building futures through sustainable steel

For further information
on your local branch:

www.infrabuild.com

Please note that any specifications or technical data referred to in this publication are subject to change and/or variation or improvement without notice and no warranty as to their suitability for any use is made. Photographs shown are representative only of typical applications. This brochure is not an offer to trade and shall not form any part of the trading terms in any transaction. Copyright 2021 InfraBuild Trading Pty Limited (ABN 50 007 519 646).