


# PERMAcast

Engineered for Efficiency





# The Leading Supplier of manufactured reinforcement

A nighttime photograph of a city skyline with several illuminated skyscrapers. In the foreground, there is a large, paved plaza with a curved, patterned design. The plaza is lit with warm, yellow light from street lamps. A large, white, umbrella-like structure is visible in the middle ground. The overall scene is a vibrant urban environment at night.

With a dynamic and highly skilled engineering team, an impressive storage yard and the capacity to simultaneously manufacture and manage multiple large-scale projects, PERMAcast truly is the leading supplier of manufactured reinforcement.



# At PERMAcast our robust Business Management Systems complement our skilled workforce and form the foundations of everything we do.

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Our well organised Quality and Safety Management Systems are critical in our proven ability to safely deliver high quality products, on time, on budget and to specification. In doing so, we mitigate risk for our clients and play a crucial role in their overall project success. In short, your success becomes our success.

PERMAcast's technical, manufacturing and storage capacities are the envy of the industry. A winning combination of highly skilled in-house engineers and large scale modern manufacturing and storage facilities allows PERMAcast to engineer efficiencies into manufacturing methodologies, which ultimately provides cost benefits for our clients projects.

Combining robust effective Business Systems with extensive engineering, production and storage capacities has allowed PERMAcast to build a reputation as the leading industry specialist in supply of manufactured reinforcement solutions for Australia's major Oil & Gas, Infrastructure and Resource projects.

The quality and reliability of PERMAcast products and services are the foundation of the success of the organisation. We aim to constantly develop and improve the business, whilst striving to continually meet or exceed the expectations of our customers. We look forward to working collaboratively with you to provide positive outcomes for your next project.





# MANUFACTURED REINFORCEMENT

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For over a decade PERMAcast has been a leading supplier of manufactured reinforcement solutions across multiple industries ranging from Oil & Gas, Resource and large scale Infrastructure projects. Our capabilities are applicable to both precast and prestressed concrete products and in-situ applications alike.



We have patented industry best practice design and manufacture technologies to ensure we provide you with the most cost effective reinforcement solutions. Our engineers and in house drafting staff commence all our projects with 3D modelling. This allows a smooth transition to the manufacturing process using purpose built reinforcement jigs which in turn ensure conformance to strict tolerances as well as quality assured outcomes for the final products.

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# MANUFACTURED REINFORCEMENT

“Our well developed processes allow us to manufacture reinforcement cages ranging from 50KG up to 20 tonne and beyond. These processes in combination with our welding procedures (in accordance with AS1554 Part3), ensure that we manufacture to strict project specifications. Typical tolerances are  $\pm 10\text{mm}$  with even more stringent requirements ( $\pm 5$ ) for products such as tunnel liner cages. Our robust business management systems ensure that all our staff are trained and continually tested to maintain competence with these procedures.

Efficiency in design and manufacture enables us to produce thousands of tonnes of reinforcement per annum in our purpose built high volume factories. It also allows us to accommodate fast ramp up requirements imposed by our clients.



By only using ACRS accredited steel we provide a high level of traceability with mill certificates for all our raw materials.

Upon completion we provide extensive storage and logistics solutions for our clients. We provide purpose built transport stillages to ensure all products arrive on site within tolerance specifications and without damage. Our in house fleet of prime movers and trailers gives us additional flexibility in coordinating with and meeting our clients required delivery schedules.



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# BUSINESS SYSTEMS

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Our well organised Quality and Safety Management Systems are critical in our proven ability to safely deliver high quality products, on time, on budget and to specification. In doing so, we mitigate risk for our clients and play a crucial role in their overall project success.



## Quality

The quality and reliability of PERMAcast products and services are the foundation of the success of the organisation. We aim to constantly develop and improve the business, whilst striving to continually meet or exceed the expectations of our customers. PERMAcast's continual success is made possible with the aid of a well organised Third Party Certified Quality Management System.

Having delivered thousands of custom products to Australia's largest Infrastructure, Oil & Gas and Resource projects over many years is testimony to the robust nature of PERMAcasts Quality Management System.

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# BUSINESS SYSTEMS

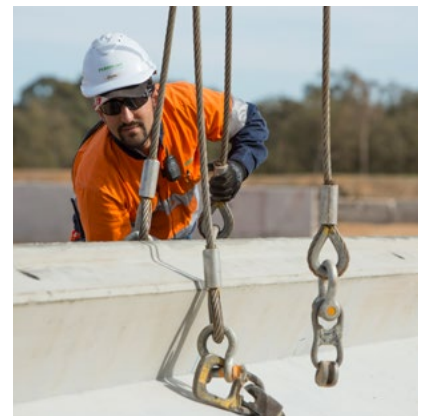
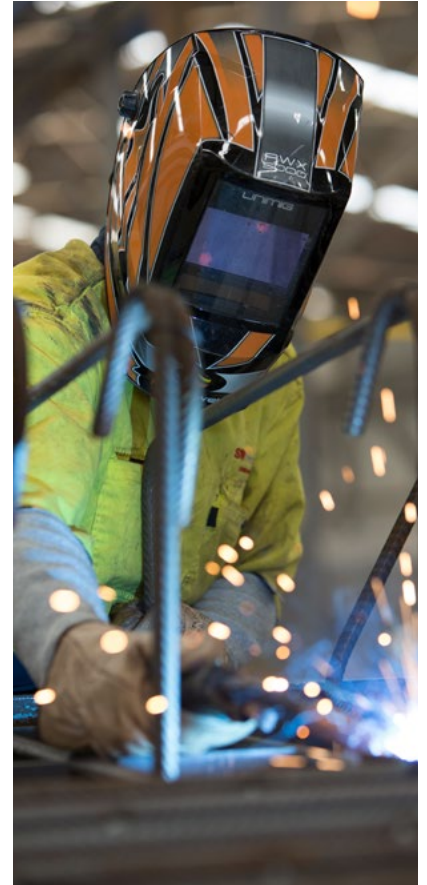
## Safety

PERMAcast is committed to protecting the safety and health of all employees, contractors, visitors and the community who are impacted by our activities and believes that all injuries, industry related diseases and incidents are preventable.

Our commitment to health and safety is paramount and a vital factor in PERMAcast's expansion to date and into the future.

PERMAcast recognises strong health, safety and environmental performance is vital for efficient operation of large scale precast facilities.

PERMAcast's Safety and Quality Procedures have previously been approved for use by BHP, Woodside, Rio Tinto, KJV, Chevron, Water Corporation, Main Roads WA, Apache Energy, SKM, CPB, Brookfield Multiplex and Laing O'Rourke to name a few.



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# CAPACITY

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As the supplier of manufactured reinforcement, PERMAcast's technical, manufacturing and storage capacities are the envy of the industry. A winning combination of highly skilled in house engineers and large scale modern manufacturing and storage facilities allows PERMAcast to engineer efficiencies into manufacturing methodologies, which ultimately provides cost benefits for our clients projects.



## Manufacturing Capacity

PERMAcast operates a large scale state of the art manufacturing facility forty five minutes south of the Perth CBD. PERMAcast's manufacturing facilities include a large 3700m<sup>2</sup> undercover factory. Additionally we have a sizable modern outdoor production area incorporating large scale 25t portal cranes and modern equipment suitable for manufacturing multiples of bespoke reinforcement concrete products.

With the capacity to simultaneously manufacture and manage multiple large-scale projects, PERMAcast truly is the leading supplier of manufactured reinforcement.



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# CAPACITY

## Technical Capacity

PERMAcast's engineering capacity and capabilities are unrivaled in the industry. Our entire management team are qualified engineers with several decades of specific precast experience. Therefore, when our engineers are involved at the design stage the result is a more efficient and cost effective construction for our clients.

Our team of qualified QA engineers are dedicated to ensuring the highest quality standards are met on every project and our dedicated in house design staff ensure continuity and open communication from design to production, further enhancing quality outcomes and operational efficiencies.

We have patented industry best practice design and manufacture technologies to ensure we provide you with the most efficient cost effective reinforcement solutions.



## Storage & Logistics Capacity

PERMAcast provides an enviable 250,000m<sup>2</sup> of storage space. This allows us to maximise production efficiencies and thus provide clients with the most cost competitive production solutions.

The benefits in terms of maximising our clients own project efficiencies and simplifying their project logistics are therefore as endless as our storage capacity. PERMAcast boast an inhouse fleet of prime movers & trailers as well as purpose built cage stillages to assist with all your project logistical requirements.



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# PROJECT EXPERIENCE



## Forrestfield Airport Link

### Tunnel Liner Reinforcement Cages

- SI-NRW JV
- Project Period: 2017 – 2018
- Project Value \$11M

### Project Specifications:

- Total of 3,325 tonnes of Processed Reinforcement
- Type 1 = 8,700 ring (6No Type per Ring)  
= 52,200 reinforcement cages @ 350kg each
- Type 2 = 215 rings (6No Type per Ring)  
= 1,290 reinforcement cages @ 1200kg each
- Tolerances +0 /-5mm

### Project Details:

- Fully welded cages with stringent specifications in accordance with AS1554.3.
- Production of up to 36No rings/day (216 cages/day).
- Process driven project where every minute needs to be accounted for.
- PERMAcast setup and managed transport and logistics in house for this project (900 B-Double Loads).
- Special Transport Stillage's manufactured to ensure shape and dimensions are maintained during transport.
- Storage of over 600No rings - production up to 3 months ahead of casting - reduced risk for client/project.
- Unique manufacturing and handling methods developed to create exceptional outcomes in safety and efficiency.
- First time PERMAcast's in house specialist reinforcement manufacturing methods adapted for external client.
- Accelerated setup to meet clients' needs.

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