



**TYRONE®**

# **PRECISION CONSTRUCTION**

## **CAPABILITY STATEMENT**



# What is Precision Construction?

**Precision Construction** is an advanced approach to building that leverages technology, automation, and innovative methodologies to enhance the efficiency, accuracy, and quality of construction projects.

By integrating cutting-edge manufacturing techniques, such as prefabrication and off-site assembly, with traditional construction skills, this method achieves a high level of precision and consistency.

The result is a significant reduction in construction timeframes, often completing in a fraction of the duration required by conventional methods, while also maximising quality and minimising waste.

Precision Construction represents the future of the building industry.

**Streamlined – Sustainable - Smarter**



# How it works?

Approximately 75% of the building is manufactured off-site in a controlled environment using a combination of automated manufacturing technologies and skilled craftsmanship. These prefabricated components are then transported to site for efficient assembly.

The remaining 25% of the construction takes place on-site, carried out by Tyrone's experienced in-house trade teams.

What sets **Precision Construction** apart, is its non-linear workflow, allowing multiple trades to work in parallel. While earthworks are underway on-site, teams of bricklayers, concreters, and tilers are already progressing off-site, often one floor ahead of the on-site activities.

This overlapping process dramatically reduces the overall programme duration and improves project coordination and delivery efficiency.





# Does this mean constraints in Architectural Design?

**Precision Construction** methodologies can be applied to virtually any type of construction project without limiting architectural creativity or ambition.

At Tyrone, our highly skilled craftspersons work hand-in-hand with state-of-the-art automated construction technologies to ensure that even the most intricate and bespoke architectural features are delivered with precision and quality.

For projects with particularly detailed or complex design elements, traditional on-site construction methods are seamlessly integrated into the workflow without affecting the overall construction timeframe.

This balanced approach guarantees both design integrity and programme efficiency.



# Benefits of Precision Construction

## **Increased Efficiency**

Streamlines workflows and reduces labour requirements and project timelines through automation and optimized planning.

## **Improved Accuracy**

Minimizes human error and ensures precise placement of materials and components, leading to consistent and reliable results.

## **Reduced Waste**

Enhances material efficiency and significantly reduces offcuts and excess through precise off-site fabrication and planning.

## **Enhanced Safety**

Reduces on-site risks by limiting manual processes and exposure to hazards, thanks to well-coordinated installation and automation.

## **Higher Quality**

Controlled factory environments and precision-engineered components deliver a superior finish with minimal rework.

## **Value**

Lower labour costs, reduced material waste, shorter construction programmes, and fewer reworks result in significant cost savings.

## **Surety**

With greater control over the build process, Tyrone can manage costs with confidence and offer fixed-price contracts, providing clients with financial certainty.

# The Tyrone Difference

## Modern Methods, Traditional Materials

At Tyrone, we combine the best of both worlds, modern construction methodologies with centuries old, proven materials. Over 90% of our structural components are made from reinforced concrete and masonry, ensuring durability, performance, and architectural authenticity in every precision build.

## Innovative Precast Engineering

Tyrone has engineered a proprietary range of precast concrete components that interconnect to form core structural elements, including:

- Foundations
- Retaining Walls
- Lift Shafts
- Floors and Roof Structures
- Stairs and Roof Components

These are manufactured entirely off-site to the highest standards, enabling faster, safer, and more controlled installation.





# The Tyrone Difference

## Australia's First in Off-Site Masonry Construction

Tyrone is proud to be the first and only company in Australia to manufacture masonry walls and components off-site.

This innovative approach offers significant advantages:

- *Uninterrupted production*, regardless of weather conditions
- *Precision-crafted masonry features*, produced in a controlled environment
- *Reduced construction time and cost* compared to traditional on-site masonry methods

## Fully Finished Modular Wet Areas

All wet areas, including bathrooms are built as smaller, fully finished modules off-site and installed complete. This reduces:

- On-site labour requirements
- The number of trade interactions
- Site congestion and delivery frequency

## Efficient Logistics and Material Management

Tyrone's dedicated logistics fleet and off-site storage capabilities enable just-in-time deliveries, helping projects stay on schedule while ensuring reliable access to key materials.



# The Tyrone Difference

## **A Self-Performing Builder**

At Tyrone, our people are our greatest asset. We're a self-performing company, employing the majority of its skilled trades in-house. This means:

- We are not dependent on external subcontractors
- We maintain full control over quality and timelines
- We deliver consistently and confidently, project after project

## **A Culture of Excellence**

With over 20 years of proven performance, Tyrone's success is built on a culture of craftsmanship, accountability, and continuous improvement.

**We don't just do the job, we overdo it.**





# Redefining the Construction Experience



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