



permacast

CAPABILITY STATEMENT 2026



INNOVATIVE SOLUTIONS
SUSTAINABLE RESULTS

About *Permacast*

Founded in 2006, Permacast commenced operations as a specialist precast concrete panel manufacturer for the building industry. Since those humble beginnings, we have grown to become one of Western Australia's leading providers of precast and prestressed concrete products. Over the years, we have expanded our capabilities and product range, earning trust to deliver major infrastructure and resource projects across the region.

Our Purpose

Our purpose is clear: to innovate, collaborate, and build with sustainability at the forefront of everything we do. We are dedicated to delivering concrete solutions that not only meet the challenges of today but also contribute to a resilient and sustainable future for communities throughout Australia.



Proudly Australian-owned and run

At Permacast, we are proudly Australian-owned, with a dedicated team that brings local knowledge, expertise, and a commitment to building infrastructure that strengthens communities across the country. From our manufacturing facilities to our project sites, our people drive every project with skill, innovation, and a deep understanding of Australian conditions and standards. Our story is one of homegrown expertise, hands-on problem solving, and a relentless focus on delivering outcomes that benefit our nation.

Committed to top-quality

Excellence is at the heart of everything we do. Our achievements include delivering technically complex, large-scale precast solutions for some of Australia's most high-profile infrastructure projects. By combining advanced engineering, precision manufacturing, and rigorous quality control, we consistently exceed client expectations and set new benchmarks for performance and reliability. Every project we undertake reflects our dedication to superior workmanship, innovation, and outstanding results.

Leading the way in sustainability

Permacast is committed to building a sustainable future, integrating environmentally responsible practices across design, manufacturing, and project delivery. We invest in energy-efficient processes, waste reduction, and the reuse of materials to reduce our environmental footprint. By embracing innovative technologies and forward-thinking solutions, we ensure that the infrastructure we deliver today not only meets current needs, but also supports resilient, sustainable communities for generations to come.

Our Approach

Permacast is committed to upholding the highest standards of health, safety, quality, and environmental stewardship across all facets of our operations.

Safety

We foster a culture of zero-harm by embedding proactive safety practices and rigorous training programs to ensure the wellbeing of every employee, contractor, and stakeholder. Our comprehensive management systems are continuously reviewed and enhanced to comply with and often exceed industry and regulatory requirements.

Quality

Quality assurance is integral to our business, with robust processes in place to deliver products that meet stringent performance, durability, and sustainability criteria. We are dedicated to minimising our environmental footprint by integrating sustainable practices throughout our manufacturing and project delivery processes, ensuring responsible resource use and waste reduction.



NATIONAL PRECAST
CONCRETE ASSOCIATION AUSTRALIA

Sustainability

At Permacast, sustainability is not just a commitment, it is a core value driving innovation and long-term resilience for our clients and communities.

Explore our website to discover how we're leading the industry in sustainable innovation, such as through our pioneering low-carbon concrete noise wall.



To visit our site, please scan the QR code.



Our Products

Permacast delivers high-quality precast and prestressed concrete products designed for performance, durability, and adaptability. We offer a wide range of standard components and engineer custom solutions tailored to meet the specific requirements of complex infrastructure projects.

We support infrastructure development across the following sectors:



ENERGY

Components for substations, power infrastructure, and renewable energy projects



MARINE

Structural elements for seawalls, jetties, wharfs and coastal protection



RAIL

Precast products for mining, rail corridors, level crossings, signal bases, and cable troughs



ROAD

Bridge beams, Mechanically Stabilised Earth (MSE) walls, underpasses, barriers, culverts, and other civil road infrastructure



WATER

Solutions for drainage, wastewater treatment, and water management systems



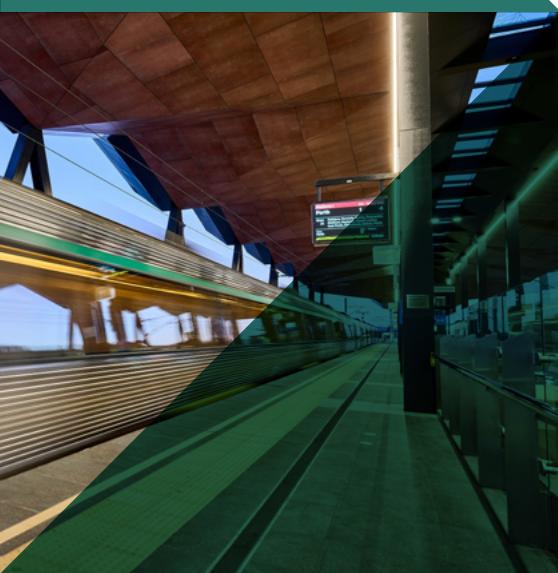
SOCIAL / CIVIC

Bespoke precast solutions that complement civic architecture and design

We specialise

in bespoke
solutions, with all
products engineered
to endure challenging
environments, meet exacting
specifications, and deliver
long-term value through strength,
quality, and precision manufacturing.

Our Core Competencies



Design and Engineering

- › Our in-house design team partners with clients from the earliest stages to develop smart, cost-effective precast concrete solutions.
- › We identify value engineering opportunities, optimise material use, and ensure all designs meet rigorous standards of structural integrity, safety, and sustainability.

Innovative Problem-Solving

- › We go beyond manufacturing. We thrive on solving the tough, complex challenges others shy away from.
- › Our team applies creativity, precision, and deep technical knowledge to resolve unique project demands and difficult site conditions.

Project Management

- › We provide seamless project management from design through installation, managing resources, timelines, and safety compliance with precision.
- › Our collaborative approach ensures clear communication and efficient delivery, particularly for large-scale, complex infrastructure projects.

Advanced Production Capabilities

- › Operating from a state-of-the-art facility in Western Australia, we deliver both high-volume and custom precast concrete components.
- › Our agile production teams consistently deliver products on time, on specification, and built to perform in demanding environments.



To visit our site, please scan the QR code.

Project Highlights

Byford Rail Extension METRONET

Overview

The Byford Rail Extension is a landmark METRONET project extending the Armadale Line 8km south to a new station in Byford. Permacast was engaged to deliver the structural precast package for the Armadale Viaduct and Wungong Rail Bridge—two key components of the elevated rail infrastructure.

We provided bespoke precast solutions, converting in situ designs into efficient off-site alternatives, accelerating installation and minimising on-site risk. Working closely with METCONNX, our team met a fast-tracked schedule while overcoming significant technical and logistical challenges.

Key Achievements

- › Delivered WA's heaviest-ever precast beam (240 tonnes, 45m long)
- › Developed an industry-first pier-to-pile connection system
- › Achieved PTA approval for a first-of-its-kind high-flow concrete mix
- › Enabled night-time deliveries to support metro site logistics
- › Completed full scope within a 9-month program

CLIENT

METCONNX

COMPLETION

2024

SECTOR

Rail Infrastructure

LOCATION

Armadale to Byford,
Western Australia

SNAPSHOT

6,296t

Of reinforcement
steel

13,327m³

High-performance
concrete

240t

WA's heaviest
precast beam

9mth

Production and
delivery program

120,000m²

Sealed laydown area

2-5am

Night-time
deliveries

830

Precast elements
delivered



Project Highlights

Morley–Ellenbrook Rail Extension METRONET

Overview

As one of METRONET's most significant infrastructure investments, the Morley–Ellenbrook Line expands Perth's rail network by 21km, connecting the CBD to the rapidly growing north-eastern suburbs.

Permacast delivered the structural precast package for the Whiteman Park and Bayswater Viaducts, two of Perth's first elevated rail structures. From early design collaboration to complex lifting operations, we supported the delivery of critical infrastructure with bespoke precast solutions, advanced modelling, and precision manufacturing.

Key Achievements

- › Delivered 444 structural elements under tight tolerances
- › Supported construction of Perth's first elevated rail viaducts
- › Collaborated on early-stage constructability and clash detection
- › Managed complex dual-crane beam lifts with engineered rigging
- › Delivered post-tensioned L-beams with high cast-in density

CLIENT

METCONNX

COMPLETION

2023

SECTOR

Rail Infrastructure

LOCATION

Bayswater to Ellenbrook



SNAPSHOT

40

Prestressed/post-tensioned L-beams

319

Precast planks

50

Prestressed box beams

35

Headstocks

120,000m²

Sealed storage/laydown

21km

Of new track enabled

444

Precast elements delivered

Project Highlights

Optus Stadium

Overview

Optus Stadium stands as one of Australia's premier sports and entertainment venues, designed to host major national and international events. Permacast played a key role in the delivery of the precast seating structure, manufacturing up to 25 units per day under an accelerated schedule. Through close collaboration with the client, architects, and design team, Permacast delivered complex, high-precision components supported by advanced Business Information Modelling (BIM) and efficient logistics, contributing to the successful delivery of this landmark project.

Key Achievements

- › Manufactured up to 25 precast units per day under an accelerated schedule
- › Delivered over 3,200 precast and prestressed seating plats across three bowl levels
- › Managed 51 structural types and more than 800-unit variations
- › Provided BIM to ensure accuracy, efficiency, and design coordination
- › Utilised over 36,000 m² of storage for just-in-time delivery
- › Collaborated closely with designers and the client throughout progressive design stages

CLIENT

Brookfield Multiplex

COMPLETION

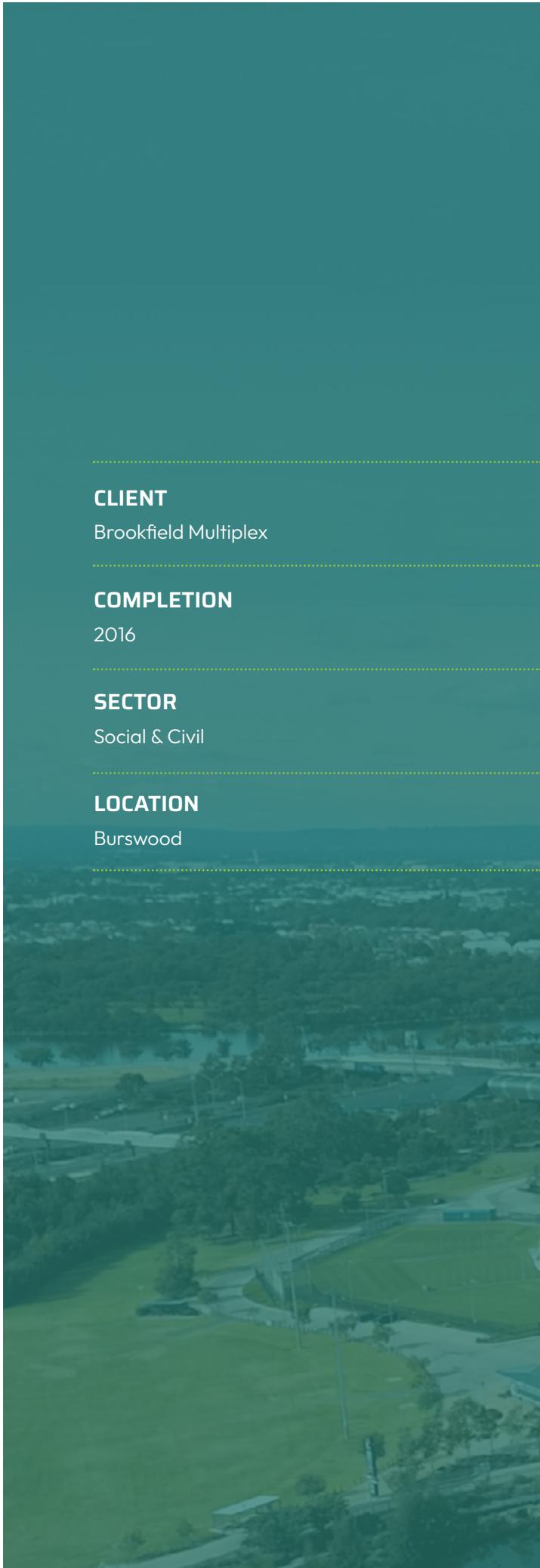
2016

SECTOR

Social & Civil

LOCATION

Burswood



SNAPSHOT

1,330

Lower bowl precast
seating plats

13,600m²

Storage and
laydown area

800+

Unit
variations

827

Middle bowl
prestressed
seating plats

1,100

Upper bowl
prestressed
seating plats

35

Headstocks

51

Structural
types



Project Highlights

Swan River Crossings

Overview

The Swan River Crossings project is one of Main Roads Western Australia's most complex and multi-disciplinary infrastructure undertakings, integrating road, port, freight, river, walking, cycling, heritage, and environmental considerations. The project replaces the ageing Fremantle Traffic Bridge with Australia's first extradosed bridge, combining cantilever and cable-supported elements to create a landmark gateway into Fremantle.

Permacast is delivering a major portion of the precast scope, including the transverse tee-roff beams and the architectural parapet units. This work involves managing complex geometries, stringent tolerances, architectural finish requirements, and highly coordinated lifting and handling systems to meet the project's engineering and aesthetic standards.



CLIENT

Fremantle Bridge Alliance (FBA)

COMPLETION

Ongoing (EDC 2026)

SECTOR

Road

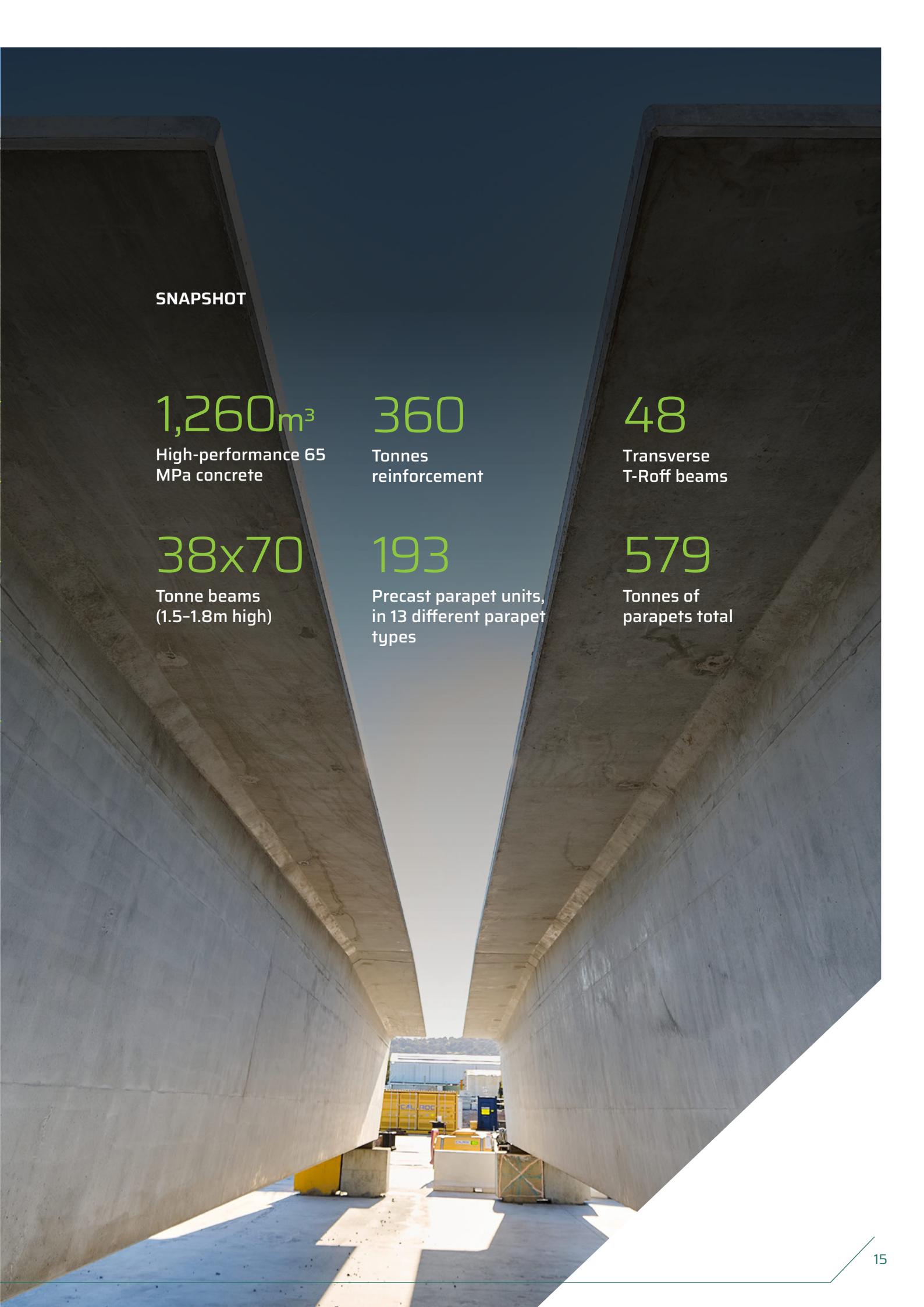
LOCATION

Fremantle

Key Achievements

When the project is complete, Permacast will have:

- › Manufactured 48 transverse tee-roff beams to tight dimensional tolerances
- › Delivered 8 beams weighing 100 tonnes at 2.3–2.6m high
- › Delivered 38 beams weighing 70 tonnes at 1.5–1.8m high
- › Produced 1,260 m³ of high-performance 65 MPa concrete
- › Installed 360 tonnes of reinforcement steel
- › Achieved ±3 mm tolerances for stitching ducts and cast-in anchors
- › Implemented controlled steam curing for all beam elements
- › Delivered 193 architectural parapet units across 13 parapet types
- › Managed complex mirrored east/west parapet geometries using adaptable mould systems
- › Delivered 579 tonnes of parapets incorporating 193 m³ of concrete and 39 tonnes of reinforcement
- › Conducted extensive trial-cast program to achieve high architectural finishes
- › Developed custom lifting brackets and engineered lift plans for safe handling, rotation, and installation



SNAPSHOT

1,260m³

High-performance 65 MPa concrete

38x70

Tonne beams (1.5-1.8m high)

360

Tonnes reinforcement

193

Precast parapet units, in 13 different parapet types

48

Transverse T-Roff beams

579

Tonnes of parapets total

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