



# Developing Low-Cost, Low-Carbon Cement

SEPTEMBER 2025

ASX:GT3  
g360tech.au

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# Highlights

## An Australian Building Materials Company Leading the Development of Low-Carbon Cement Solutions, Nationwide

### Urgent Market Demand Driven by Government Policy

Australia's Safeguard Mechanism requires the highest carbon emitters including cement producers to reduce emissions to reduction targets of 43% below 2005 levels by 2030 and net zero by 2050<sup>1</sup>

### First Mover Advantage Low-Cost, Low-Carbon Footprint Solution

Australia's first producer of Kaolin (MetaKaolin) used in a simple "Drop in Solution" to produce a low-cost, low-carbon cement alternative, that delivers superior performance and a reduced environmental footprint

### Two Vertical Supply Chains, National Solution

Two vertical supply chains, national solution, executing a commercialisation plan with reputable market leaders to drive near-term adoption of low-carbon cement – with product already in market and nationwide supply capability

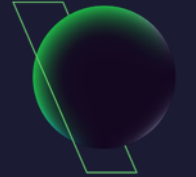
### Revenue Generation

Revenue positive business with established blue chip customer base for Kaolin high margin products

Revenue stream and strong financial foundation, supporting development of Low Carbon cement



# Corporate Overview



1,156.4m

Shares on  
Issue

154.8m

Options &  
Performance Rights

\$0.032

Share Price  
(as at 2 September 2025)

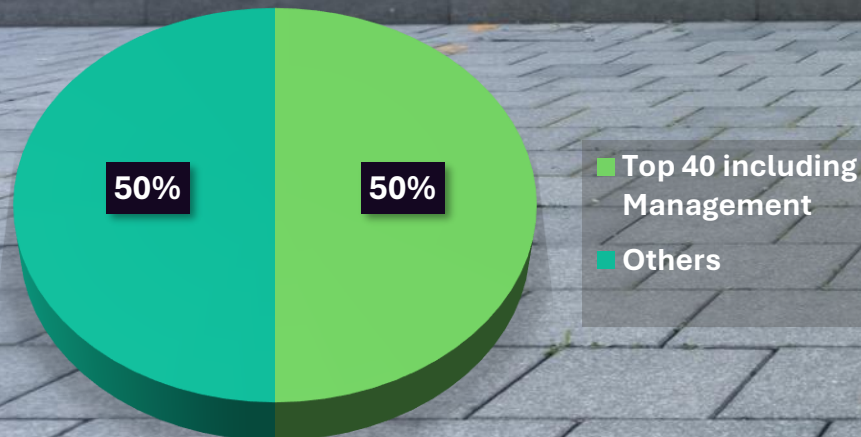
\$37m

Market  
Capitalisation

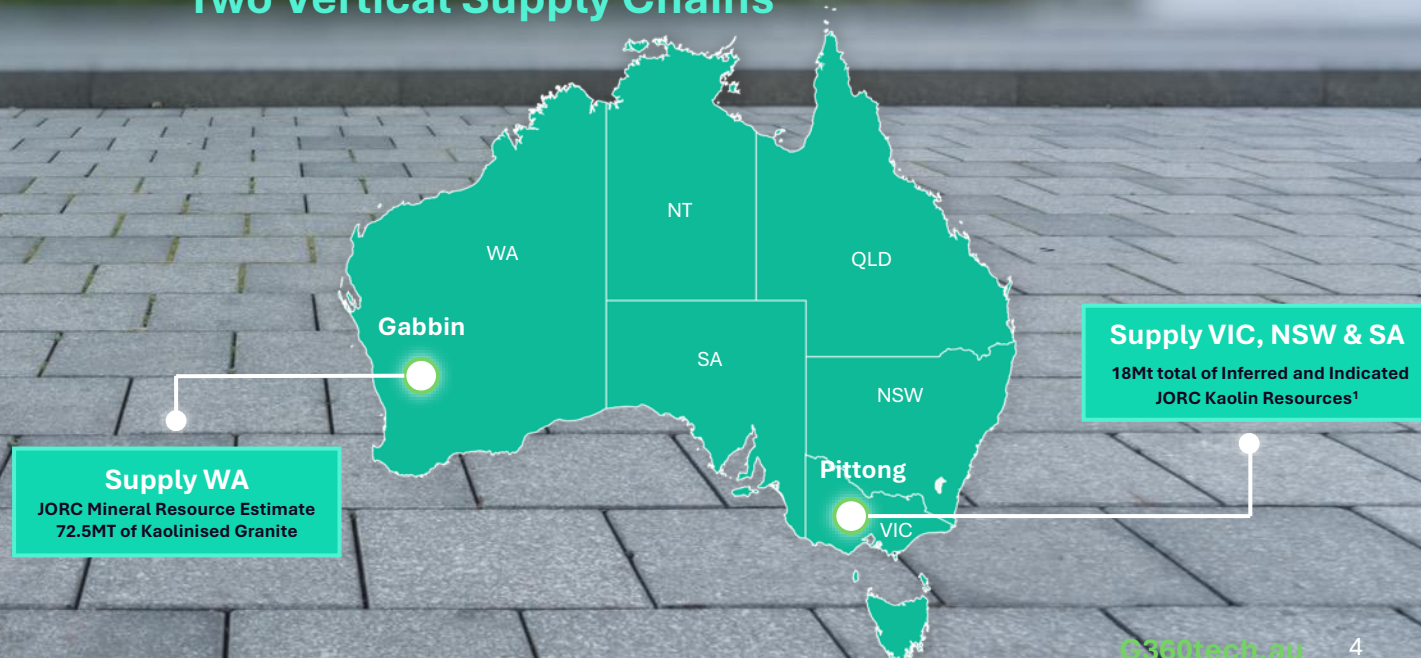
~\$4m

Cash at Bank  
(August 2025)

## Capital Structure



## Low Carbon Cement National Solution via Two Vertical Supply Chains



# Australia's First Producer of Kaolin

## First mover advantage for Metakaolin

Green360's low-carbon cement is an alternative and partial replacement for the traditional cement binder in concrete, therefore reducing emissions

Green360's formulations use industrial by-products and Metakaolin as key inputs to create a low-carbon cement, rather than the traditional Portland cement production process

These key inputs have lower emission profiles than traditional cement, displacing the key polluter in the concrete production



Low-Carbon Cement



Replaces Cement in Concrete



Concrete with  
Reduced Emissions



# Cement and Concrete

Cement and concrete are essential building materials for modern construction

## Cement

Traditional **primary binder** in **concrete**, produced through an energy-intensive, high-emissions process

## Concrete

Durable **construction material** that hardens over time, made from **cement**, coarse aggregate, sand and water



Coarse Aggregate

+



Sand

+



Water

+



Cement

=



Concrete

# Global Market for Cement and Concrete

Cement and concrete are markets of massive scale, with rapid growth forecasted

## Market Size

Global cement and concrete markets are larger than the global lithium, copper and iron ore markets<sup>3</sup>

## 4.0 Billion Tonnes

Cement production equates to 4 billion tonnes annually, with demand expected to grow to 5 billion tonnes in the next decade<sup>4</sup>

## 2<sup>nd</sup> Most Consumed Resource

Concrete is the most widely used man-made product in the world and is second only to water as the worlds most consumed resource<sup>5</sup>



Global **Concrete** Market Forecast<sup>1</sup>

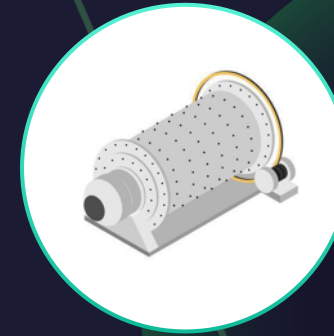


Global **Cement** Market Forecast<sup>2</sup>

1. <https://www.alliedmarketresearch.com/concrete-market-A12420>
2. IMARC Cement Market Size, Share, Trends and Forecast by Type, End Use, and Region, 2025-2033
3. Grand View Research, Mordor Intelligence Reports
4. <https://www.chathamhouse.org/2018/06/making-concrete-change-innovation-low-carbon-cement-and-concrete>
5. World Cement Association

# The Problem – Traditional Cement is a Polluter

Worldwide production of cement results in 3.2 billion tonnes of CO<sub>2</sub> per year, representing 8% of global emissions<sup>1</sup>



## Production Process

Mining and grinding of raw material to a powder

Powder is heated in a kiln to make clinker

Clinker is ground with gypsum to create cement

Cement is mixed with other inputs to create concrete

## CO<sub>2</sub> Generation

**~5%**

Mining and grinding

**~90%**

Burning Limestone using fossil fuels

**~0%**

Mixing with gypsum

**~5%**

Transportation/logistics



# Significant Market Opportunity

## Safeguard Mechanism

The Australian government has set annual emissions limits on industrial facilities, including those in concrete and cement, requiring a reduction in emissions year-on-year to 2030<sup>1</sup>

## Strained Domestic Supply

Australia has experienced impactful closures of cement plants in recent years, causing local production shortages and necessitating imports of cement clinker from countries including Indonesia, Japan, Thailand, Vietnam and Singapore to fill the gap in the market<sup>2</sup>

## Low-Carbon, Low-Cost Cement Solution

### Low-Carbon, Green Alternative

**Significantly lower** CO<sub>2</sub> emissions than traditional cement

### Delivering Cost Efficiency

Utilising cost-effective key input materials to deliver a product at a competitive price

### Repurposing Waste

Uses **industrial by-products** contributing to the **recycling of waste materials**

### Utilising Kaolin

Incorporating high purity calcined **kaolin** (Metakaolin) to **improve the performance of concrete products**



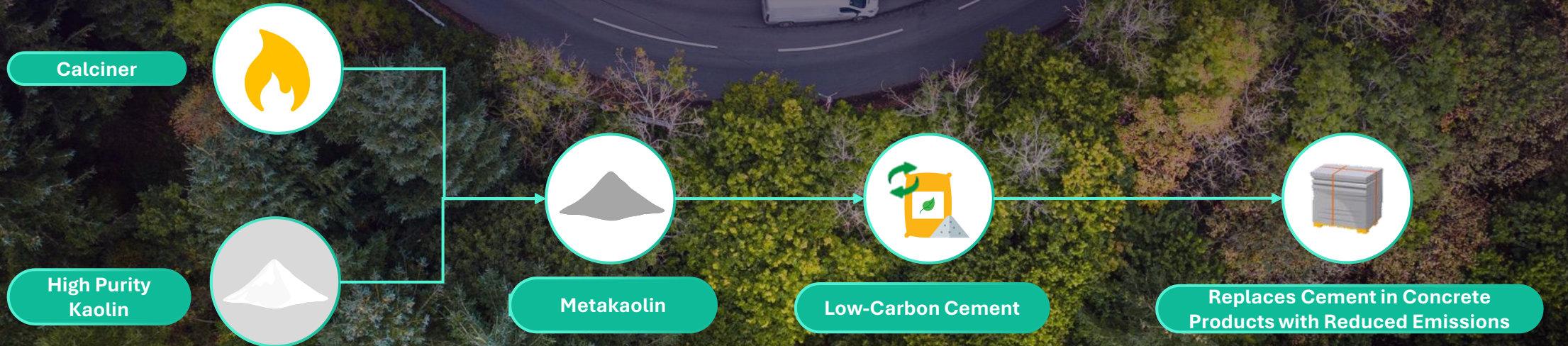
# A Low-Carbon, Low-Cost Concrete Innovation

Transforming High Purity Kaolin and Industrial By-Product into a Sustainable Solution

WESTERN AUSTRALIA



VICTORIA





# Pathway to Supplying East Coast Markets



## STAGE 1

### **450t Metakaolin Produced via Toll Treatment for Low-Carbon Cement**

Metakaolin to replace Portland cement has been made available to the Victorian government to trial in major infrastructure projects<sup>1</sup>

Third party toll treatment facilities for immediate supply to market currently being negotiated

## STAGE 2

### **Scale-up Metakaolin Production at Pittong**

Discussions with commercial partners including major concrete end users

## STAGE 3

### **Potential for large- scale Metakaolin Production at Trawalla**

Capability to supply low carbon concrete to VIC, NSW & SA

# Pittong Kaolin Operation

Australia's only wet kaolin processing facility operating since 1972, located 40km west of Ballarat in Victoria

## Multi-decade mine life

Combined with the Trawalla Deposit, supported by over 18Mt total of Inferred and Indicated JORC Compliant Kaolin Resources<sup>1</sup>

## Revenue generating asset

\$13.3m (unaudited) revenue generated in FY25 from the sale of circa 22kt of product,<sup>2</sup> with recent plant upgrades allowing for scale up to 60kt per annum<sup>3</sup> and strategic customer engagement to offtake additional product

## Established customer base

Established sales contracts with recognisable brands, supplying into premium, high-margin industries, including Dulux, Sherwin Williams, Nippon Paint, and Estee Lauder

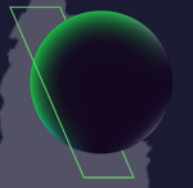


**VERTICALLY INTEGRATED  
BUSINESS**

High purity Kaolin is a key input in Green360's low-carbon cement formulations allowing for further facility growth and expansion



# Pathway to Supplying Western Australia



## STAGE 1

### Joint Venture with PERMAcast

Partnered with WA's leading supplier of precast concrete products<sup>1</sup>

## STAGE 2

### Metakaolin + Industrial By-Product to make precast concrete

Low-carbon cement formulations are rolled out into precast concrete products via PERMAcast to test for strength, workability, durability, slump, and other relevant factors<sup>2</sup>

## STAGE 3

### Validated low-carbon cement in precast concrete products

Validating Green360's low-carbon cement with PERMAcast precast products — paving the way for large-scale bagged cement production<sup>3</sup>

# White Cloud Kaolin Project

100% owned - 215km northeast of Perth, WA

## Strategic Location with Rail Access

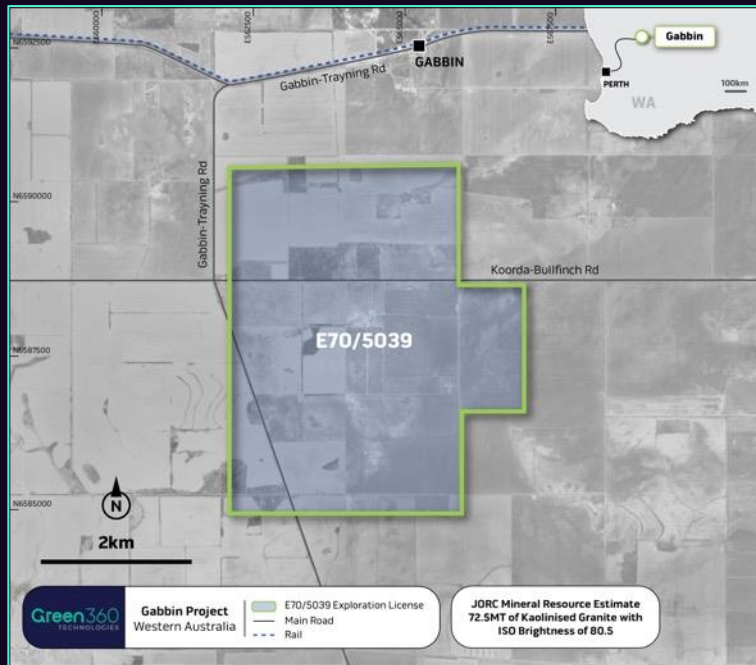
The project area comprises of one granted exploration licence centred around the town and rail siding of Gabbin

## Low Impact, High Potential

Located on cleared farming land with minimal environmental constraints, the Project has a mining access agreement in place, supporting a clear pathway to development

## Large-Scale, High-Quality Kaolin Resource

The Project hosts a JORC 2012 Mineral Resource of 72.5Mt of bright white kaolinised granite with strong ISO Brightness (80.5%) and a 41.2% <45µm yield, delivering 29.9Mt of contained kaolin<sup>1</sup>





# Key Activities and Milestones





# Investment Summary

A scalable, low-cost, low-carbon cement solution underpinned by revenue-generating kaolin operations

## Urgent Market Demand

Cement and concrete industries facing emission reduction requirements under the Safeguard Mechanism and supply shortages

## Low-Carbon, Low-Cost Solution

An innovative process using calcined kaolin and industrial by-products to partially replace traditional cement in concrete

## Proven Kaolin Operations

Pittong Kaolin facility in Victoria: multi-decade mine life, 18Mt JORC resource<sup>1</sup>, \$13.3M FY25 revenue (unaudited), supplying into premium industries with established blue-chip customers

## Pathway to Market

- **Western Australia:** JV with PERMAcast validates low-carbon cement in precast products, paving the way for commercial bagged cement production.

- **Eastern Australia:** First revenues from toll treatment (450t Metakaolin supplied to Vic Gov. for infrastructure<sup>2</sup>). Next steps: Scale-up for Pittong, followed by potential large-scale production at Trawalla.

## Revenue Generation

Existing kaolin revenues + future growth through low-carbon cement and industrial by-product partnerships

## Nationwide Solution

Strategically positioned to scale nationally, with two vertical supply chains in Western Australia and Victoria (to supply VIC, NSW, SA)



# Contact

## REGISTERED OFFICE

Green360 Technologies Limited  
Level 11, 40 The Esplanade  
Perth, WA 6000  
Australia

## FURTHER INFORMATION

Aaron Banks – Executive Chairman

## EMAIL

[info@g360tech.au](mailto:info@g360tech.au)

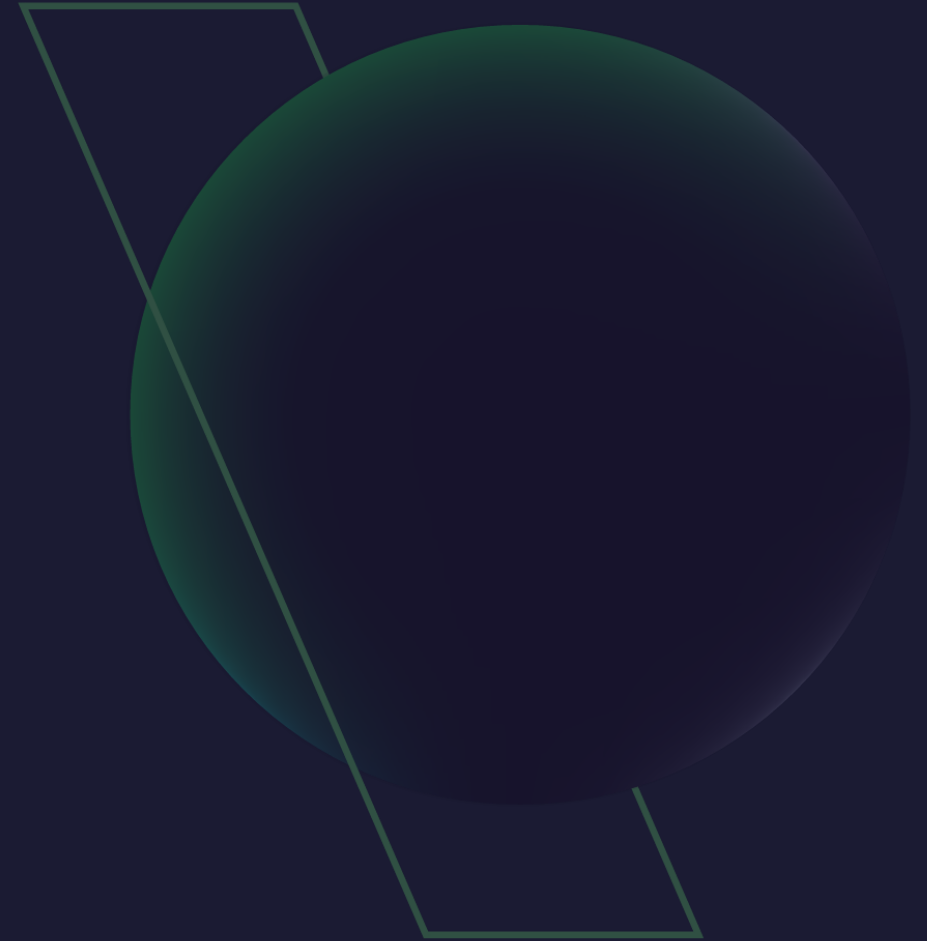
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**Green360**  
TECHNOLOGIES



# Appendix





# Appendix 1

## Kaolin Mineral Resources Statement - as at 30 June 2024

Category	White Kaolinised Granite (Mt)	ISO Brightness % (457nm)	Yield <45um %	Kaolin (Mt)
<b>Gabbin Project (White Cloud Kaolin Project)</b>				
Indicated	26.9	80.4	41.3	11.1
Inferred	45.6	80.6	41.1	18.8
<b>Total</b>	<b>72.5</b>	<b>80.5</b>	<b>41.2</b>	<b>29.9</b>
<b>Trawalla Resource</b>				
Indicated	9.9	81.0	27.7	2.8
Inferred	2.8	79.8	28.3	0.8
<b>Total</b>	<b>12.7</b>	<b>80.8</b>	<b>27.8</b>	<b>3.6</b>
<b>Pittong Resource</b>				
Indicated	3.6	81.3	35.5	1.3
Inferred	1.9	79.1	33.0	0.7
<b>Total</b>	<b>5.5</b>	<b>80.5</b>	<b>34.6</b>	<b>2.0</b>

Information on the Mineral Resources presented is contained in the ASX announcement dated 27 September 2024. Green360 confirms that it is not aware of any information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

# Appendix 2

## Wind with Purpose MOU

**The Joint Venture between Green360 and PERMAcast is granted a first right of refusal to supply low carbon concrete for Wind with Purpose (WWP) large-scale projects<sup>1</sup>**

### Onshore and offshore energy development

WWP is engaged in the potential development of large-scale onshore and offshore wind energy projects in Western Australia

### Significant construction requirement

WWP plans to install approx. 3 gigawatts of onshore wind and 2 gigawatts of offshore wind capacity, which would require the construction of between 400-500 wind turbines<sup>1</sup>

### Potential revenue stream

Volume of concrete required per foundation for an onshore wind turbine can exceed 1,000 cubic metres,<sup>2</sup> with the current commercial value of concrete being roughly \$300 per cubic meter





# Joint Venture with PERMAcast

Partnered with WA's leading supplier of precast concrete products to validate our low-carbon cement formulations

## Access to target market to validate product

Working with PERMAcast allows Green360 to validate the Company's low-carbon cement in pre-cast concrete products with local WA customers

## Leading, reputable supplier

Supplied concrete to major projects such as Chevron's Gorgon Gas Project, Perth Optus Stadium, Elizabeth Quay, BHP's Jumblebar Iron Ore Project and the Mitchell Fwy Expansion

## Precast concrete facility

PERMAcast has employed up to approx. 400 people, with in-house precast concrete manufacturing capabilities

**PERMAcast**  
Engineered for Efficiency



# Validating with Customers

## Testing low-carbon cement in commoditised concrete products

### Produced Low-Carbon Concrete for Government Project

Green360 has worked with PERMAcast to produce and deliver concrete blocks made with Green360's low-carbon cement to a major WA Government project, a significant step towards validating the Company's formulations

### Positive results

28-day strength tests conducted on concrete blocks produced with Green360 low-carbon cement achieved up to 35 megapascals, exceeding the strength requirements of their end-use applications,<sup>1</sup> and providing the project with a significantly reduced emissions profile

### Next steps

Green360 and PERMAcast JV is currently in the process of quoting jobs to supply other concrete products made with low-carbon cement to market



Concrete blocks made with Green360 low-carbon cement