

FutureCast

Precast concrete you can trust

BUILDING PROGRESS FOR PEOPLE AND THE PLANET



WELCOME TO FUTURECAST

Being a division of Holcim (Australia) Pty Ltd, a global leader in building materials and solutions, Humes is committed to shaping a sustainable future for the built environment. This means taking steps to decarbonise our operations and providing solutions our customers can trust. We are excited to present **FutureCast**, our precast concrete product and solution with at least 25% Supplementary Cementitious Materials (SCM) that is backed by robust data through an Environmental Product Declaration (EPD).

Our goal is to be a supplier of choice, providing solutions that drive transparency and sustainable outcomes for our customers. ClimateWorks Australia estimates the construction and operation of physical infrastructure assets for transport, energy, water, waste and communications directly contributes 15% of Australia's annual emissions, while these assets influence an additional 55% of annual emissions through the activities they enable¹.

As we continue to invest, partner and innovate, Humes is well positioned to offer solutions for the

roads, infrastructure and resources that we all need. The carbon intensity of precast concrete can be reduced by replacing standard cement with alternative materials, including by-products such as fly ash or blast furnace slag. **FutureCast** offers a minimum of 25% SCM, which helps to reduce the environmental impact of construction projects.

At Humes, we strive for transparency with our customers, which is why we share robust data about the environmental performance of our FutureCast product through a third-party verified EPD.



FutureCast: Precast concrete you can trust

"FutureCast is a leading precast concrete solution from Humes with at least 25% Supplementary Cementitious Materials (SCM) that is backed by a third party verified Environmental Product Declaration (EPD)."

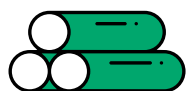
George Agriogiannis,
CEO Holcim Australia and New Zealand

FUTURECAST PRECAST CONCRETE YOU CAN TRUST

Designed to meet the demands of modern civil construction

In addition to delivering on performance, Humes continues to invest in efforts to lower embodied carbon and other environmental impacts across all its products. It achieves this by:

- Maximising efficiencies in design and resources.
- Reducing the quantity of General Purpose (GP) cement used for a product by using additional Supplementary Cementitious Materials (SCM) and admixtures. FutureCast offers a minimum of 25% SCM.
- Lowering the quantity of reinforced steel used for a product.



Humes precast concrete range backed by EPDs

+



Concrete with minimum 25% SCM

+



Climate Active carbon offsetting service option

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Helping customers understand the environmental impact of building materials

At Humes, transparency is core to achieving progress and advancing our sustainability agenda. That is why we have provided third-party verified EPDs that supply comparable data of the environmental impact of our products, enabling our customers to make more informed decisions.

EPDs are independently verified and registered documents, with science-based data derived from conducting a life-cycle assessment. Humes Precast and Prestressed Concrete Products EPD² and Humes Reinforced Concrete Pipe EPD³ allows customers to understand the environmental impact of the building materials that go into their construction projects.

Option to offset carbon with the Climate Active carbon offsetting service

In addition to an EPD being available to offer transparent environmental impact data, customers can choose to opt-into our Climate Active Carbon Offsetting service. Holcim is certified by the Climate Active program that is backed by the Australian Government, enabling customers to offset carbon in their projects while also supporting investment in other carbon offset initiatives⁴.

² Humes Precast and Prestressed Concrete Products EPD covers the vast majority of our product range. The only products that have been excluded are steel reinforced concrete pipes (these are covered by Humes EPD S-P-00998) and specialty products that contain significant quantities of other materials (i.e. metals other than reinforcing steel and various polymer materials) that are not covered in this EPD. Examples of such products are our standard HumeGard® and HumeCeptor® range as well as other products that can be lined.

³ Humes Reinforced Concrete Pipes EPD provides environmental indicators for Humes steel-reinforced concrete drainage pipes across all pipe production factories in Australia. Humes reinforced concrete pipes (RCPs) are manufactured around Australia to AS/NZS 4058:2007 Precast concrete pipes (pressure and non-pressure). The scope of this EPD is for RCPs used in non-pressure stormwater drainage applications only. Humes RCPs are manufactured with steel reinforced concrete and are available in a wide range of diameters, lengths and with varying strengths. Humes RCPs have a reference service life (W) of 100 years when installed in accordance with AS/NZS 3725:2007 Design for installation of buried concrete pipes.

⁴ Holcim is certified under the Australian Government's Climate Active program (<https://climateactive.org.au/buy-climate-active/certified-members/holcim>).

Why should you choose FutureCast?

- ✓ **Meet evolving tender and bid requirements.**
- ✓ **A minimum of 25% Supplementary Cementitious Materials (SCM).**
- ✓ **EPD data can be used to ensure projects comply with Infrastructure Sustainability and Green Star rating criteria.**
- ✓ **Climate Active carbon offsetting option, allowing customers to offset the remaining carbon in their projects while also supporting the investment of other carbon offsetting initiatives.**
- ✓ **Same strength, same performance properties and complies with AS1379.**

Areas of application

FutureCast is manufactured throughout Australia and has the potential to be used in a variety of structural components - including stormwater, bridges, tunnels, walls, roads, infrastructure, and rail.

Further applications are possible and can be discussed with our engineering precast concrete technologists.

FAQ

What makes FutureCast an environmentally preferable choice?

The carbon intensity of precast concrete can be reduced by replacing the standard cement with alternative materials. These include industrial by-products such as fly ash or blast furnace slag. FutureCast offers a minimum of 25% SCM, which can help to reduce the impact of building and infrastructure construction projects.

What are carbon offsets?

Offset units are generated by projects that reduce, remove or capture emissions from the atmosphere such as reforestation, renewable energy, or energy efficiency. One carbon credit is issued for each tonne of emissions avoided, removed or captured from the atmosphere⁵. While organisations should prioritise reducing their emissions first and foremost, carbon offsets that are verified for their impact and integrity can be part of the solution when it comes to decarbonisation.

Does FutureCast comply with AS1379 (Australian Standards)?

Yes, our precast concrete products and solution complies with AS1379.

Who can I talk to more about FutureCast?

Our specialist team is happy to discuss FutureCast further. Contact us today on **1300 361 601**

Holcim (Australia) Pty Ltd (ABN 87 099 732 297)

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⁵ Climate Active, Carbon Offsets, <https://www.climateactive.org.au/what-climate-active/carbon-offsets>.