

SUSTAINABLY BUILT



BUILDING SOLUTIONS FOR A SUSTAINABLE FUTURE

At Holcim, we're taking responsibility for the impact our products have on the planet. Concrete is one of the most widely used substances on earth and involves a carbon-intensive manufacturing process. As a global manufacturer of concrete solutions, we're leading the way in creating products that generate fewer carbon emissions.

Our global commitment

We've pledged to achieve net-zero carbon emissions by 2050. To ensure our global commitment becomes a reality in Australia, we've embarked on an ambitious product innovation program enabling us to develop a range of low carbon concrete solutions. We're excited by what we've already achieved, and what the future holds.

From transparency to impact

We want our industry contribution to be positive and transformative.

Our journey from transparency to impact means we can provide our customers with third-party verified data and products that help customers reduce their environmental impact in a meaningful way.

To drive positive impact, we're recycling and up-cycling industrial by-products, using fly ash, blast furnace slag and silica fume to significantly reduce the carbon intensity. Our advanced mix design technology means we can help our customers reduce embodied carbon and operate in a more circular economy.

Market leading solutions

We're taking individual responsibility by helping our customers build more with less. We're proud to make this positive contribution because we know that the time for change is now. Supporting sustainability through meaningful action has never been more important. Together with our customers and partners, we're creating a greener, smarter world – because the future's not written, it's built.

VIRODECSTM ENVIRONMENTAL PRODUCT DECLARATION ON DEMAND

How can EPDs help your next project?



Understand

Understand how Holcim's ready-mix concrete is made



Quantify

Quantify the environmental impact of Holcim's ready-mix concrete



Be informed

Make decisions with third-party verified data



Share

Tell the story of ready-mix concrete in your project



Third-party verified environmental impact data

In an Australian first for ready-mix concrete, Holcim developed ViroDecs™, our Environmental Product Declaration (EPD) that covers our normal class concrete range nationwide.

An EPD is an independently verified document demonstrating relevant environmental data about the life-cycle impact of a product. Launched in 2019, the ViroDecs™ EPD enables designers and builders to make more informed choices about materials based on their environmental impacts. Completely transparent and third-party verified, the ViroDecs™ EPD provides a range of environmental indicators for Holcim's ready-mix concrete products.

Since the launch of the ViroDecs™ EPD, Holcim has been recognised by the Green Building Council of Australia for its industry leadership which continues to shape the way the construction sector designs and builds.

“ We support the development of EPDs in the market as they represent verified, transparent environmental impact data, and have a transformational impact by enabling the built environment to understand its impact on a deeper level. We commend our member Holcim for demonstrating leadership in trying to achieve these outcomes. ”

Davina Rooney,
CEO of Green Building Council of Australia

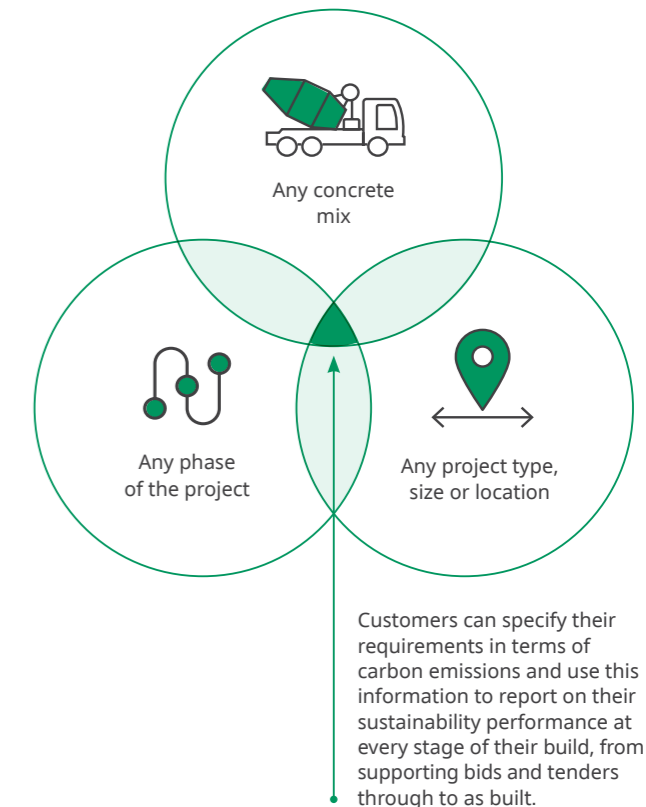
Any mix, any project and at any project phase

We recognise that no two projects are the same, and now our customers have the opportunity to make a choice that suits their particular needs. In an Australian first, our customers can now access bespoke and on-demand EPDs. This means we can provide third-party verified environmental data for any concrete mix, for any project, at any stage of the project life cycle. Our customers can have full confidence in the transparency of the environmental impact of the specific products being supplied to their projects.

Customers can specify their requirements in terms of carbon emissions and use this information to report on their sustainability performance at every stage of their build. This is backed by our EPD Process Certification – a stamp of approval which allows us to produce third party verified EPDs internally.

“ EPDs On-Demand is a landmark achievement in the Australian building and infrastructure space. It provides, for the first time, a streamlined pathway for assessing the environmental performance of customised concrete mixes in a manner that is scientifically robust and verifiable. Edge is proud to have been a part of this journey. ”

Jonas Bengtsson,
CEO of Edge Environment



What does this mean for you?



Reduce your carbon impact through informed decisions



Use the ViroDecs EPD catalogue to select lower carbon mixes



Access transparent, credible and verified information



Recognised benefits for Green Star and Infrastructure Sustainability rating criteria



Compatible with life cycle assessment-based design tools



Demonstrate industry leadership in sustainable construction

What does this mean for you?



Specific and independently verified data



Customised sustainability performance to suit customer needs



Seamless end-to-end Holcim customer experience



Design and build with complete transparency and confidence

ECOPACT

CARBON NEUTRAL READY-MIX CONCRETE

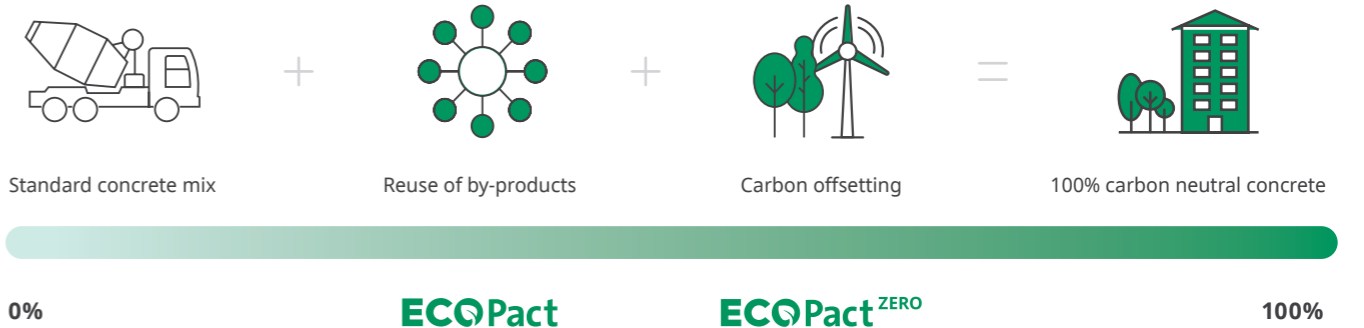
Low carbon concrete products made easy

ECOPact is a low carbon concrete that reduces embodied carbon by 30-60%. Combining the very best qualities of conventional concrete, ECOPact is available in a variety of strength classes and applications.

With reduced embodied carbon, ECOPact is better for the environment. Carbon intensity is reduced by replacing a proportion of cement with alternative materials. This includes industrial by-products like fly ash, blast furnace slag or silica fume. Optimising the cement content in this way means that ECOPact has a 30-60% lower embodied carbon content when compared to a reference concrete¹.

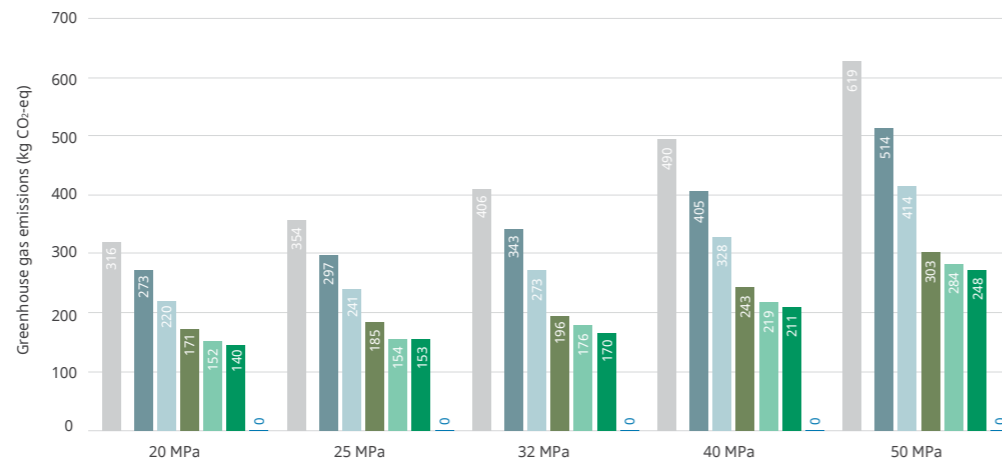
This provides designers and contractors with easy solutions to achieve lower embodied carbon outcomes in their projects.

Developing a more sustainable concrete is the key building block to achieving a sustainable future. We recognise that the time to act is now – and we're proud to rise to this opportunity. The ECOPact low carbon concrete range is a unique and versatile solution, and recognition of our commitment to a smarter future. As we continue to establish our position as a global leader in innovative building materials and solutions – we invite you to join us on our journey.



NSW / ACT: 1m³ of Holcim normal-class ready-mix concrete – Cradle to gate GHG emissions (kg CO₂-eq)

- AusLCI database – Ordinary Portland Cement Concrete
- ViroDecs – General
- ViroDecs – Fly Ash blend
- ViroDecs – Blast Slag blend
- ViroDecs – Triple blend
- ECOPact
- ECOPact^{ZERO}



Any mix, certified carbon neutral

In an Australian first, Holcim provides the opportunity to offset any remaining embodied carbon from ready-mix concrete. This means the concrete component supply for your project can be carbon neutral. As we help our customers transition to a low carbon economy, carbon offsets are just one element of our holistic approach to a greener, smarter future.

In another Australian first, Holcim gained official certification from the Australian Government's Climate Active program to sell industry-approved, carbon neutral, ready-mix concrete. Climate Active is an Australian program that supports businesses committed to sustainability and innovation. This certification means we can fully equip our customers with everything they need to achieve their carbon neutral goals.

How do carbon offsets work?

Carbon offsets are an opportunity to reduce your carbon emissions through certified programs like Climate Active. They can be used in addition to a low carbon concrete such as ECOPact to achieve full carbon neutrality, known as ECOPact^{ZERO}. Our Climate Active certification allows Holcim to offset the embodied carbon on your behalf through our affiliate partner projects. These projects offset an equal amount of carbon emissions using their own carbon-reduction activities.



What does this mean for you?

- ✓ Easily reduce the environmental impact of your project
- ✓ Maintain product strength and quality
- ✓ Achieve an embodied carbon reduction of 30-60% without the use of offsets
- ✓ Available for a range of mixes, strengths and applications
- ✓ Recognised benefits for Green Star and Infrastructure Sustainability rating criteria
- ✓ Placed, pumped and finished like conventional concrete

What does this mean for you?

- ✓ Reduce the embodied carbon of your ready-mix concrete by 100%
- ✓ Recognised benefits for Green Star and Infrastructure Sustainability rating criteria
- ✓ Available for all mixes, strengths and applications
- ✓ Peace of mind with carbon neutral concrete, enabled by certified Climate Active offsets

¹ In comparison to the Australian National Life Cycle Inventory Database (AusLCI) equivalent general ready-mix concrete with no cement substitution



GLOSSARY

Low carbon

This simply means less carbon dioxide and other potential greenhouse gas emissions. By lowering the amount we release into the atmosphere, we are helping the planet stay healthy.

Carbon offsetting

Investing in certified eligible projects or schemes that reduce or avoid potential greenhouse gas emissions being released into the atmosphere.

Green concrete

A ready-mix concrete that offers a 30-60% reduced embodied carbon² for standard mix concrete by using by-product and waste from other industries. At Holcim we only ever use the term 'green' when it is backed by science and data.

Carbon neutral

When our behaviours or actions result in no net additional carbon being released into the atmosphere, they are balanced out by a reduction elsewhere or by absorbing an equivalent amount of emissions from the atmosphere.

EPD

An Environmental Product Declaration is an independently verified document that details comparable data and environmental information about the life-cycle impact of a product. It is fully transparent.

Embodied carbon

This is the complete carbon footprint of a material, from the raw material through to manufacture, and finished product.

Find out more about how Holcim is shaping a sustainable future.

Contact us today on 13 11 88



²In comparison to the Australian National Life Cycle Inventory Database (AusLCI) equivalent general ready-mix concrete with no cement substitution