



Post-tensioned 40 MPa (22 MPa @ 4 days)

Generic EPD – Sydney Region

NEW SOUTH WALES - SYDNEY

Environmental Product Declaration

In Accordance with Environdec c-PCR-003 Concrete, concrete elements (EN 16757:2023), ISO 14025 and EN15804:A2

Programme Operator: EPD International AB

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An EPD should provide current information and may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com.

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AUSTRALASIA

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About Hymix

For over 50 years, Hymix has lead the industry in innovative concrete solutions. From domestic pool surrounds and driveways, to residential, commercial and large infrastructure developments Hymix supports projects of all scales.

Our promise

At Hymix, we want to be the most trusted concrete supplier in Australia; earning that trust means that we need to do a few things, really well. So these are our promises to you and the foundation for us to build trusting and long term partnerships.

1. Prior to and during pours we'll put the effort in to get to know you and the nuances of your particular project. Where required, we'll offer the benefit of our 50 plus years of experience.
2. We'll supply high quality concrete alongside inspiring decorative concrete products that you and your customers can rely on to perform, now, and into the future.
3. Through continuous training, we'll ensure that our employees can take the time to do the job right. And that means doing it safely. And we'll remember that time is money, so we'll do everything within our power to keep your projects moving. That means being realistic with our delivery times from the outset and making sure that you get total visibility of your orders progress, where and when you need it.



Hymix

We want to be the most trusted concrete supplier in Australia

For over 50 years, Hymix has led the industry in innovative concrete solutions. From domestic pool surrounds and driveways to residential, commercial and large infrastructure developments Hymix supports projects of all scales.

We're passionate about creating sustainable concrete products for a better world. Our company is united by the belief that for an organisation to flourish long into the future, it must focus its energy and resources on innovation, people, environment, and ethical governance. We are driven by long-term benefits, not quick wins.



Hymix & Sustainability



Our Sustainability Charter



The Heidelberg Materials Australia group of companies which includes Hymix, are leaders in the heavy construction materials industry. However, we never take it for granted. We help to build the infrastructure of communities by working with them and being a part of them. While we are known for our “we’ll make it happen” attitude, we are conscious of our socio-economic and environmental impacts.

One of our strategic goals is to drive operational excellence and innovation, which means we are always looking for new ways of working to help preserve and protect our planet’s natural resources.

Heidelberg Materials sustainability commitments 2030 serve as a guiding principle for our sustainability strategy.

The strategy is comprised of four strategic pillars and supports initiatives that focus on CO₂ Emissions, Sustainable Products, Biodiversity, Water and Corporate Social Responsibility.

To realise these sustainability goals, individual plans will be developed for our operations, addressing their unique sustainability challenges. We will also build sustainability targets into everyone’s roles, recruit sustainability champions and invest in resources and projects that support our sustainability plans. Our plans and commitments align directly with each of our core values: Care, Collaboration and Ownership.

Committing to these goals as a team is an important part of being a truly sustainable business.

I look forward to working together to realise better outcomes for our people, our communities and our planet.

A handwritten signature in black ink, appearing to read 'Phil Schacht'.

Phil Schacht
Chief Executive
Heidelberg Materials Australia

“Driven by excellence and high performance, together we will shape Australia’s construction materials industry, building a legacy for generations to come”



Sustainability Policy

To be the most trusted concrete supplier in Australia goes beyond people and products – we need to manage our business sustainably.

We believe companies that succeed in the future will be those that continuously invest in people, innovation, environment and ethical governance – and focus on delivering long-term benefits, not just immediate goals.

Every day we engage with employees, local communities and stakeholders to drive sustainable work practices. Our Sustainability policy (right) is embedded into our company strategy and drives action on the ground.

Leveraging the UN Sustainable Development Goals, our commitment to sustainability is encapsulated in the six policy topics, outlined to the right.



Driving economic strength and innovation

We will ensure sustainable profitability through the effective management of all processes and resources and the continuing innovation of products and services.

- We adopt a systematic and integrated approach to all aspects of our business and are committed to complying with AS4801/ISO45001, ISO9001, ISO14001, NHVAS accreditation supported by a continuous improvement culture.
- We continue to invest in innovation and development to improve the sustainable performance of our products designed to meet the needs of our customers.



Achieving excellence in occupational health and safety

We are committed to continuously enhancing the occupational health, safety & wellbeing of our employees, contractors and communities.

For further information see our policies on Risk Management and Health & Safety.



Enhancing our environmental outcomes

We are committed to fulfilling our share of the global responsibility to keep temperature rise below 2°C, and we will continue to reduce our impacts on air, land and water.

- Products will be measured as to their embodied carbon and action will be taken to reduce the impact of products on a unit rate basis with the aim of reducing our product carbon footprint by 30% by 2030 compared with 1990 performance.
- Operations will have an after-use plan that considers the needs of local communities & the environment. Where the site is in a nature conservation area, the after-use plan will include a biodiversity management section that aims to have a net positive biodiversity impact.
- For further information see our policies on energy, environment and water.



Enabling a circular economy

We conserve our natural reserves by increasing our portfolio of products that include recycled materials & by-products.

- Use of natural materials alternatives will be increased by expanding the footprint and broadening the product range.
- The waste management hierarchy will be implemented in our operations to minimize waste disposal.



Being a good neighbour

We are committed to supporting the social and economic development of our neighbouring communities and ensuring transparent communication with all our stakeholders.

- All operations will engage positively & transparently with their communities. This includes but is not limited to 1) supporting local businesses; and 2) engaging in one hour per year of volunteering per full time equivalent employee.



Ensuring compliance and creating transparency

We adhere to international human rights, anti-corruption and labour standards and co-operate pro-actively in an open and transparent manner with all our stakeholders.

- Hymix does not engage in modern slavery of any form & will not engage with organisations that do.
- National sustainability performance measures will be implemented for the purposes of performance improvement. Hymix will be transparent about its sustainability performance.
- For further information see our Anti-corruption Guideline, Supplier Code of Conduct, Inclusion & Diversity Policy and Human Rights Position.

Life Cycles & Processes



Product EPD Process

Declared Unit is 1m³ of Concrete

The process is used to produce an accurate estimation at all stages of the product life cycle from cradle to grave. Estimation at each stage is based on actual data which is a combination of both current and prior year average consumption per declared unit.

Life Cycle Assessment Tool

For the purposes of creating this Environmental Product Declaration (EPD), the Global Cement & Concrete Association (GCCA) concrete EPD tool v. 5.0 (short: GCCA tool) has been employed.

EPDs are created under either of 2 streams:

- Generic Stream - The class of product modelled is used for a particular geographical region using averaged data across operations.
- Project-specific stream – Models the manufacture of specific products required for a particular project being delivered from specific plant(s) using weighted average data where relevant and possible. Reports created after the completion of a project offer the highest accuracy, including all mix variations for each delivery.

The main data categories include:

- The average bill of materials (BOM) for the concrete mix selected in the range of concrete plants specified including their average raw material travel distance, or the calculated BOM based on actual delivered materials incl. travel distances (average or specific) for the producing plants.
- The average fuel, water and energy consumption per declared unit between those plants;
- Plant production waste based on a nationally calculated figure;
- Recarbonation of concrete is determined through pre-defined values within GCCA tool for the type of construction project (-6.42kg CO₂ eq./ m³ at Stage B, -2.23 kg CO₂ eq./ m³ at Stage C3, and -5.36kg CO₂ eq./ m³ at Stage C4), where known; and,
- End of life recycling is based upon industry data.

- This EPD Process is certified using GCCA international modelling of energy use and environmental impact to obtain a suitable estimation for products manufactured.
- Pre-defined cement and clinker data provided by the GCCA tool are used only where no better (supplier/source specific) information is available.

Assumptions & Limitations

- This is a generic EPD.
- All modelling assumptions adopted from the GCCA Tool.
- The geographical scope involves NEW SOUTH WALES - SYDNEY.
- Raw material (inbound) transport distances is the previous year's travel distance average weighted according to deliveries across operations.
- For generic EPDs travel for diesel truck from concrete production site to customer site was set to 20 km default. Longer or shorter travel distances will have minor effects on the overall CO₂ values. Concrete plants in the study include: Artarmon, Brookvale, Campbelltown, Caringbah, Pendle Hill, Prestons, Thornleigh, Greenacre, Banksmeadow, Camellia, Pyrmont, Wetherill Park, Riverstone, and Mulgrave. Truck type of >32 tonne was assumed to be fully utilized travelling to construction site with empty returns.
- Travel distance for fuel from depots to operations was set to 36 km.
- Concrete mixes are assumed to use an equal amount of site fuel and energy and responsible for an equal amount of waste flows.
- Production is assumed to be equal across all plants included in the study for the calculation of the bill of materials.
- Water usage in operations is averaged over the entire state.
- Grid purchased electricity mixes is based on the specific state's energy mix from OpenNEM. For this project, energy mix was sourced from coal and peat (64%), gas (2%), solar (21%), wind (8%), hydro (5%), and biomass (<1%). The electricity emission (GWP-GHG) is 0.79 kg CO₂e/kWh.
- Travel for materials sources internationally included from shipping origin.
- Reference Service Life (RSL) is set to 50 years as per default. It's based on the lowest exposure class A1 & A2 (AS 3600:2018 "Concrete Structures") in relatively benign environments.

Product Content Declaration

The materials (by mass%) contained in Generic EPD - Sydney Region mixes are summarized in the table below.

Bill of Materials	Low Level [%]	High Level [%]
Cement	4	25
Supplementary Cementitious Materials	2	14
Aggregates	61	82
Water	7	9
Admixtures	0	<1
Reinforcements	<1	2

Hazard information related to concrete placement

GHS classifications

- Skin Corrosion Category 1
- Serious Eye Damage –Category 1
- Skin Sensitisation Category 1
- Specific Target Organ Toxicity (Repeated Exposure) Category 2

Hazard Statement(s)

- H302 –Harmful if swallowed
- P280 –Wear protective gloves/clothing/eye protection.
- H314 –Causes severe skin burns and eye damage
- H317 –May cause an allergic skin reaction
- H318 -Causes serious eye damage
- H373 –May cause damage to lungs by inhalation (dust from dried product)

By-Products, Recycled Materials & Allocations

Co-products would be allocated via economic allocations and then normalized based on BOM. The following materials are the product of waste streams of other industrial processes:

Fly ash

- A by-product of coal-fired power stations, fly ash is considered to carry no environmental impact for the purposes of this EPD, hence an economic allocation of \$0 has been applied to fly ash. The only burdens are of transport to manufacturing sites.

Ground Granulated Blast Furnace Slag (GGBFS)

- Blast furnace slag is a by-product of steel production that is dried and ground for use in concrete production. To duly allocate the environmental impacts, economic allocation has been employed.

Silica fume

- As a by-product of silicon production, silica fume is considered to carry no environmental burden for the purposes of this EPD.

Recycled concrete aggregate

- A component of the boarder category of construction and demolition waste, environmental impacts are allocated on the basis of reprocessing the material following delivery to the recycling facility.

Manufactured Sand

- A by-product of processing coarse aggregate. This manufactured sand is a direct replacement for natural sand and prevents the need to extract natural resources.

Packaging

This concrete is not produced with any packaging, instead delivered directly to site immediately following production.

Product Life Cycle Stages

	Product Stage			Construction Stage		Use Stage							End of Life Stage				Benefits & loads for the next product system
	Raw Material Supply	Transport	Manufacturing	Transport	Construction/installation process	Use	Maintenance incl. transport	Repair incl. transport	Replacement incl. transport	Refurbishment incl. transport	Operational Energy Use	Operational Water Use	De-construction & demolition	Transport	Re-use recycling	Final Disposal	Reuse, Recovery Recycling
Module	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	GLO	GLO	AU	AU	AU	AU	AU	AU	AU	AU	AU	AU	AU	AU	AU	AU	AU
Specific data	>90%																
Variation products	<10%																
Variation sites	<10%																

All stages of the product lifecycle have been considered for this EPD – cradle to grave. By its nature, there are some stages of the lifecycle that are not applicable to the concrete product.

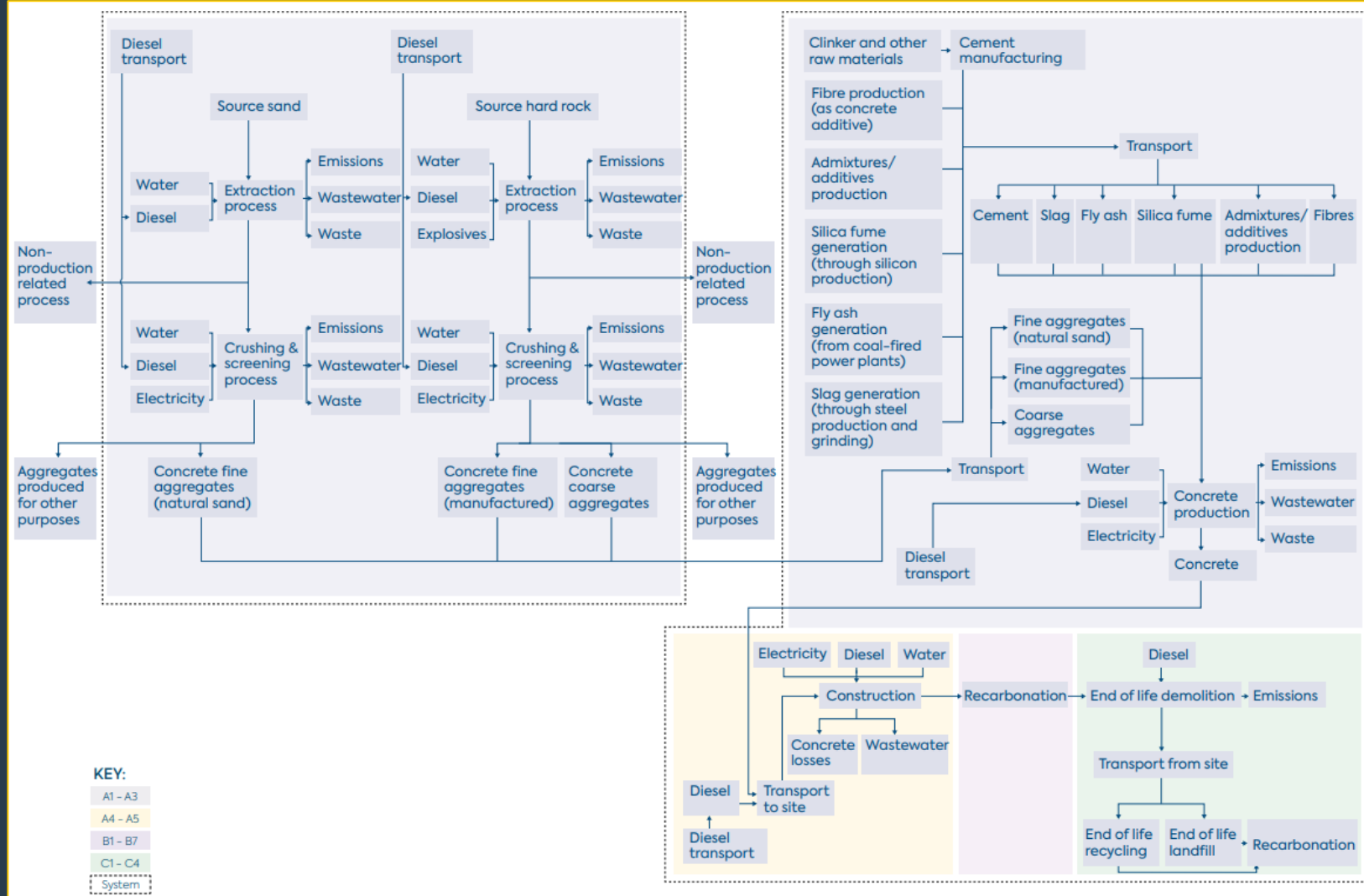
The scenario applied for the use stage assumes that under normal use, no maintenance repair or replacement of the product during its service life is required. As a result, the values are displayed as zero.

Those stages that, due to practicality, cannot be assessed accurately draw on default values of the underlying GCCA tool.

For Project-specific EPDs, allocation is determined by the supplying plants with estimates as to the likely volume to be delivered from each. Where existing and sufficient data exists, historical data will be used to make this determination.



Product LCA & System Boundary



- The lifecycle model and system boundary is the same for both Generic and Project-specific concrete EPDs, as detailed in the graphic.
- All stages of the lifecycle, from quarry to recycling are covered by the EPD.

Cut-off rules

- The cut-off threshold for the LCA study was flows contributing less than 1% for any individual input included in the LCA. No flows were deliberately excluded due to this threshold, however particularly minor impacts (e. g. packaging of chemical admixtures) were not considered. Cut off will occur only when data, or reliable estimates, are not practical to source. The contribution of capital goods (production equipment and infrastructure) and personnel are non-attributable and excluded for the system boundary.



Product LCA & System Boundary

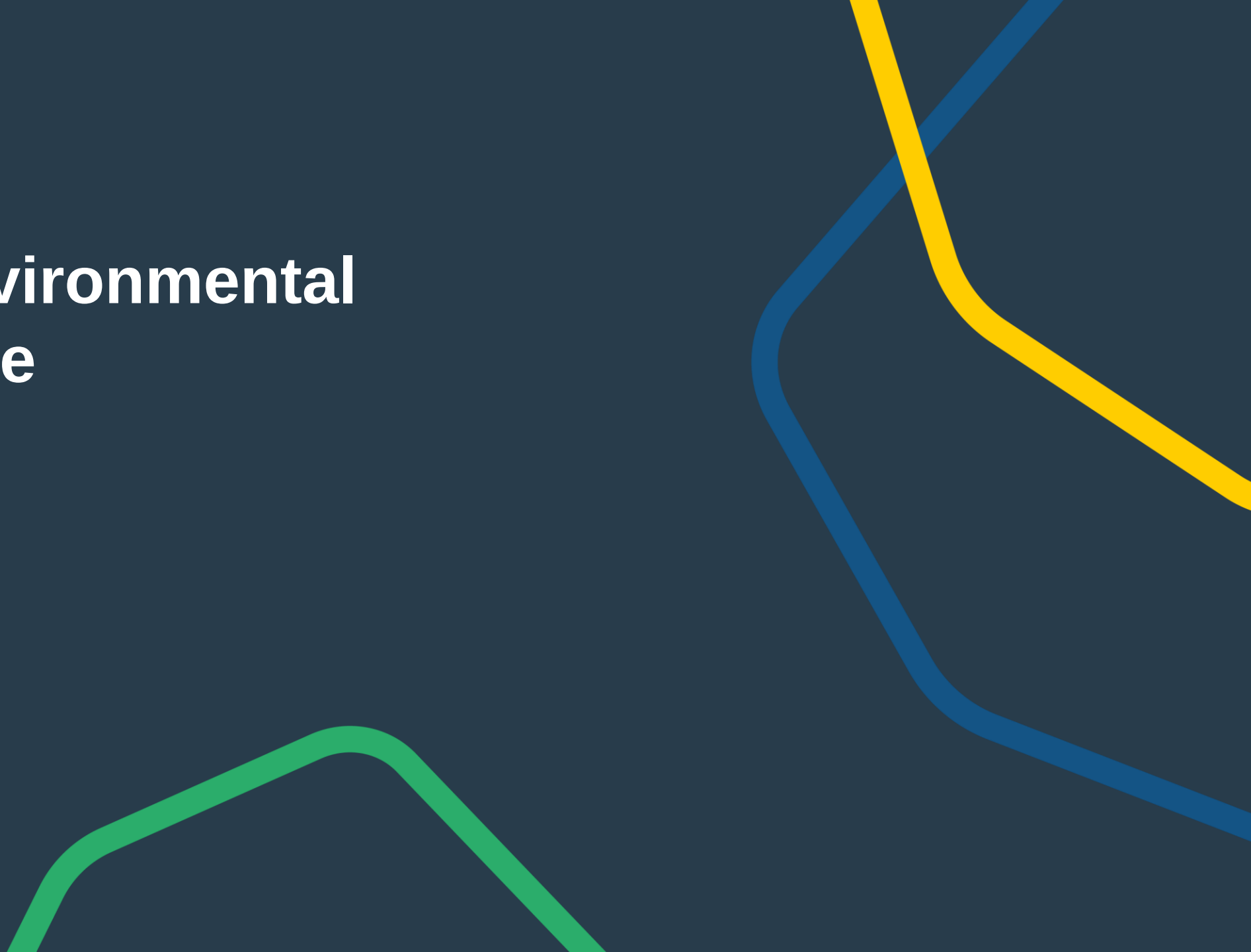
LCA Stage	Item	Source	Timing	Data Source	Data Quality		
					Geographical	Technical	Time
Product Description	Product description and density	ERP report Bill of Materials and material specific data	Upon EPD creation	Primary	Very good	Very good	Very good
A1-3 Materials	Raw Materials	ERP report BOM and Mix design compilation used in conjunction with material template Note. Upstream process for raw materials utilise data from ecoinvent 3.10. Specific cement EPD data by the cement manufacturer was used if available. Published cement EPDs were used to create concrete EPDs. In the rare case that specific cement data was not possible, region-specific default cement and clinker values (default values provided by the GCCA tool) would have been used. This would be reflected in "Specific data."	Upon EPD creation	Secondary	Very good	Good	Very good
A1-3 Materials	Inbound travel (raw materials)	ERP report 2. Inbound Travel drawing from actual deliveries from sources to operations. Where delivery data not available, travel calculated based on Google Maps. Train travel (only for operations around Melbourne) calculated by actual Google Maps distance.	Full prior year data, average per delivery Actual travel distances between source and operation.	Primary	Very good	Good	Very good
A1-3 Materials	Allocation Factor (for secondary co products):	Slag: AusLCI Fly Ash & Silica fume: no allocation as they are industrial by-products.	Upon EPD creation	Secondary	Very good	Good	Very good
A1-3 Manufacturing	Plant Energy and Fuel Consumption	ERP Report 3. Concrete Energy Use, drawing on actual invoiced usage.	Full prior year data, average per cubic metre	Primary	Very good	Very good	Very good
A1-3 Manufacturing	Electricity Energy Sources	Sourced from OpenNEM https://opennem.org.au ; Australian Energy Market Operator. Excludes imports.	Full year prior data, state-based, percentages	Secondary	Very good	Very good	Very good
A1-3 Waste Management	Waste and wastewater	Wastewater volume set to 9L per 1 m ³	Static	Secondary	Very good	Good	Very good
A4-5 Construction	Outbound Travel	For generic EPDs: ERP report 5. Outbound travel drawing from actual deliveries from operations to customer sites. Where data not available, travel calculated based on Google Maps. For project-specific EPDs: The project-specific travel distances from the main plant to the construction site was applied. For both scenarios, diesel truck is used to transport deliveries to customer site/s. A5 uses default GCCA Tool settings for: 2.8 kWh electricity, 1.7 L diesel in building machine, 669 kg water, and 0.7 m ³ wastewater. Note that internal concrete losses are at ~1% (based on internal reports)	Generic EPD: Full prior year data, average per delivery. Project-specific EPD: Actual travel distances between plant and construction site.	Primary	Very good	Good	Very good
B. Use	Re-carbonation	Default GCCA Tool settings	NA	Proxy	Good	Good	Very good,



Product LCA & System Boundary

LCA Stage	Item	Source	Timing	Data Source	Data Quality		
					Geographical	Technical	Time
C. End of Life Demolition	Demolition	Default GCCA Tool settings (2.674 L diesel in building machine, 0.0365 mg PM2.5, 0.184 mg PM10, 0.139 mg PM>10). PM refers to particulate matter.	NA	Proxy	Good	Good	Very good,
C. End of Life Transport	Transport	Default GCCA Tool settings	NA	Proxy	Good	Good	Very good
C. End of Life Waste Processing	Recycling Rate at EOL	Masonry materials recycling rate obtained from annual National Waste Report published (e. g. for National Waste Report 2022, page 41, figure 29). Referenced recycling rate is used in industry as closest to concrete-specific value. <u>National Waste Reports</u>	Prior year National Waste Report if available. If not, then latest available	Proxy	Good	Good	Very good
C. End of Life Disposal	Disposal Rate at EOL	Disposal rate inverse of masonry materials recycling rate obtained from annual National Waste Report published <u>National Waste Reports</u>	Prior year National Waste Report if available. If not, then latest available	Proxy	Good	Good	Very good
D Benefits and Loads		Default GCCA Tool settings	NA	NA	NA	NA	NA
General	General	Ecoinvent database used by the GCCA tool Note: This covers environmental information for all raw materials and energy sources. Cement, where data is available, employs specific raw material and energy data for the product manufacture and for each component draws on Eco Invent Data.	NA	Secondary	Very good	Good	Very good

Product Environmental Performance



Product Environmental Performance

Comment	All information about goal and scope necessary for results interpretation are present in the latest version of the “LCA Model” report, available in GCCA’s Industry EPD Tool. Declared GWP-GHG results for modules A1-A3 are <10%. The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. Since Module C is included in the EPD, the use of Module A1-A3 results without considering the results of Module C is discouraged. EF3.0 based EN15804+A2 impact assessment methodology has been is used for the GWP indicators. The removals and emissions associated with biogenic carbon content of i) the product and ii) the packaging are not significant or even not relevant in the sector. The only limitation is the uptake of CO₂ in A1-A3 (e.g. biobased insulation materials in precast elements or bio based packaging materials) and reemission in A5 (packaging end-of-life) or C3-C4 (product end-of-life). This does not affect the GWP-tot indicator. The tool does not calculate the ‘Radioactive waste disposed’ indicator, it is considered not to be significant for the sector.
Core environmental impact indicators	GWP-GHG (Global Warming Potential, GHG) • GWP-tot (Global Warming Potential total) • GWP-fos (Global Warming Potential fossil fuels) • GWP-bio (Global Warming Potential biogenic) • GWP-luc (Global Warming Potential land use and land use change) • ODP (Depletion potential of the stratospheric ozone layer) • AP (Acidification potential, Accumulated Exceedance) • EP-fw (Eutrophication potential, freshwater) • EP-mar (Eutrophication potential, fraction of nutrients reaching marine end compartment) • EP-ter (Eutrophication potential, Accumulated Exceedance) • POCP (Formation potential of tropospheric ozone) • ADPE (Abiotic depletion potential for non- fossil resources) • ADPF (Abiotic depletion for fossil resources potential) • WDP (Water (user) deprivation potential, deprivation-weighted water consumption)

¹ The results of this environmental impact indicator shall be used with care as the uncertainties of the results are high and as there is limited experience with the indicator.

Product Environmental Performance

Additional environmental impact indicators	PM (Potential incidence of disease due to PM emissions) • IRP² (Potential Human exposure efficiency relative to U235) • ETP¹ (Potential Comparative Toxic Unit for ecosystems) • HTPC¹ (Potential Comparative Toxic Unit for humans - cancer) • HTPNC¹ (Potential Comparative Toxic Unit for humans - non-cancer) • SQP¹ (Potential soil quality index)
Parameters describing resource use	PERE (Use of renewable primary energy excluding renewable primary energy resources used as raw materials) • PERM (Use of renewable primary energy resources used as raw materials) • PERT (Total use of renewable primary energy resources) • PENRE (Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials) • PENRM (Use of non-renewable primary energy resources used as raw materials) • PENRT (Total use of non-renewable primary energy resources) • SM (Use of secondary materials) • RSF (Use of renewable secondary fuels) • NRSF (Use of non-renewable secondary fuels) • NFW (Net use of fresh water)
Waste categories	HWD (Hazardous waste disposed) • NHWD (Non-hazardous waste disposed) • RWD (Radioactive waste disposed)
Output flows	CRU (Components for re-use) • MFR (Materials for recycling) • MER (Materials for energy recovery) • EE (Exported energy)
Extra indicators	CC¹ (Emissions from calcination and removals from carbonation) • CWRS (Emissions from combustion of waste from renewable sources used in production processes) • CWNRS (Emissions from combustion of waste from non-renewable sources used in production processes) • GWP-prod (Removals and emissions associated with biogenic carbon content of the bio-based product) • GWP-pack (Removals and emissions associated with biogenic carbon content of the bio-based packaging)

¹ The results of this environmental impact indicator shall be used with care as the uncertainties of the results are high and as there is limited experience with the indicator.

² This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.



Product Environmental Performance

Product identification	Post-tensioned 40 MPa (22 MPa @ 4 days)
EPD Registration Number	EPD-IES-0016130:001
Production site(s)	Sydney
Compressive strength	40
Density	2414.2 kg/m ³
Reference service life	50 Years
Recycling Rate At EoL	78%
Declared unit	1 m ³
Scope	A1-A3 + A4-A5 + B1-B7 + C1-C4 + D, cradle-to-grave
Methodology	GCCA's Industry EPD Tool for Cement and Concrete (V5.0), International version
Reference Year	2024

Product Environmental Performance

EPD Registration Number EPD-IES-0016130:001

Core environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG	kg CO ₂ eq.	3.24E+02	5.17E+00	1.25E+01	-6.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E+00	1.05E+01	3.56E+00	3.33E+00	-1.36E+01
GWP-tot	kg CO ₂ eq.	3.24E+02	5.17E+00	1.25E+01	-6.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.64E+00	1.05E+01	3.56E+00	3.33E+00	-1.36E+01
GWP-fos	kg CO ₂ eq.	3.24E+02	5.17E+00	1.24E+01	-6.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E+00	1.05E+01	3.54E+00	3.33E+00	-1.36E+01
GWP-bio	kg CO ₂ eq.	1.42E-01	2.12E-04	3.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-03	2.25E-03	6.75E-03	4.58E-04	-3.39E-02
GWP-luc	kg CO ₂ eq.	3.23E-02	2.10E-03	2.71E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.36E-04	5.04E-03	7.08E-03	1.71E-03	-1.07E-02
ODP	kg CFC 11 eq.	2.77E-06	8.06E-08	2.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-07	1.52E-07	4.41E-08	9.61E-08	-1.11E-07
AP	mol H+ eq.	1.25E+00	2.15E-02	9.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.69E-02	5.46E-02	3.18E-02	2.36E-02	-8.59E-02
EP-fw	kg P eq.	5.19E-02	1.33E-04	9.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.17E-05	3.52E-04	7.81E-04	9.01E-05	-1.23E-03
EP-mar	kg N eq.	8.92E-02	7.84E-03	3.06E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.03E-02	2.04E-02	7.38E-03	8.98E-03	-2.04E-02
EP-ter	mol N eq.	3.00E+00	8.54E-02	3.48E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-01	2.22E-01	7.66E-02	9.80E-02	-2.58E-01
POCP	kg NMVOC eq.	7.92E-01	3.12E-02	1.03E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-01	7.45E-02	2.29E-02	3.51E-02	-6.99E-02
ADPE	kg Sb eq.	2.09E-04	1.45E-05	2.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-06	2.87E-05	3.03E-05	5.30E-06	-7.21E-05
ADPF	MJ, net calorific value	1.77E+03	7.55E+01	1.36E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+02	1.48E+02	7.45E+01	8.15E+01	-1.63E+02
WDP	m³ world eq. deprived	3.08E+01	3.62E-01	1.01E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-01	8.63E-01	1.19E+00	2.28E-01	-2.73E+01

Parameters describing resource use

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ, net calorific value	2.97E+01	9.91E-01	5.39E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-01	2.89E+00	9.47E+00	7.57E-01	-1.35E+01
PERM	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ, net calorific value	2.97E+01	9.91E-01	5.39E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-01	2.89E+00	9.47E+00	7.57E-01	-1.35E+01
PENRE	MJ, net calorific value	4.89E+02	6.85E+01	1.23E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+02	1.35E+02	7.45E+01	8.15E+01	-1.54E+02
PENRM	MJ, net calorific value	4.24E+01	6.99E+00	8.77E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E+01	0.00E+00	0.00E+00	-8.92E+00
PENRT	MJ, net calorific value	5.31E+02	7.55E+01	1.23E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E+02	1.48E+02	7.45E+01	8.15E+01	-1.63E+02
SM	kg	1.03E+02	0.00E+00	1.03E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ, net calorific value	1.18E+02	0.00E+00	1.18E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NFW	m³	1.56E+00	1.11E-02	3.03E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-03	2.47E-02	3.38E-02	8.46E-02	-6.46E-01

Product Environmental Performance

EPD Registration Number EPD-IES-0016130:001

Additional environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	1.01E-05	5.29E-07	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-06	1.15E-06	3.70E-07	5.36E-07	-1.39E-06
IRP	kBq U235 eq.	9.98E+02	6.66E-02	1.02E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.65E-02	1.90E-01	7.10E-01	5.20E-02	-1.17E+00
ETP	CTUe	1.81E+02	1.82E+01	1.67E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E+01	4.26E+01	1.84E+01	1.11E+01	-8.71E+01
HTPC	CTUh	7.48E-07	2.58E-08	4.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E-08	6.73E-08	1.43E-08	1.50E-08	-1.60E-07
HTPNC	CTUh	1.53E-05	4.99E-08	2.09E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-08	9.49E-08	5.19E-08	1.47E-08	-1.10E-07
SQP	dimensionless	1.32E+03	7.60E+01	3.56E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.86E+00	1.38E+02	4.06E+01	1.60E+02	-1.73E+02

Other environmental information describing waste categories

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHWD	kg	2.54E-01	0.00E+00	5.29E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.29E+02	0.00E+00
RWD	kg	3.17E-04	1.63E-05	4.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-05	4.69E-05	1.74E-04	1.27E-05	-2.85E-04

Environmental information describing output flows

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	0.00E+00	0.00E+00	1.89E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E+03	0.00E+00	0.00E+00
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Extra indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
CC	kg CO ₂ eq.	1.58E+02	0.00E+00	1.44E+00	-6.42E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.23E+00	0.00E+00	0.00E+00
CWRS	kg CO ₂ eq.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CWNRS	kg CO ₂ eq.	9.42E+00	0.00E+00	9.42E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GWP-prod	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GWP-pack	kg CO ₂	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Product Environmental Performance

- The EPD values presented are indicative of local material performance at the time of publishing and are subject to change based on material availability and seasonal factors.

Product Identification	EPD Registration Number	Compressive strength [MPa]	A1-A3 GWP-tot ¹ [kg CO ₂ eq./m ³]	Full Lifecycle GWP-tot ¹ [kg CO ₂ eq./m ³]	Application
25 MPa with 4.6 kg/m3 Blended Polyfibre	EPD-IES-0013175:001	25	227	256	Footpath
32 MPa with 4.6 kg/m3 Blended Polyfibre	EPD-IES-0013333:001	32	257	285	Footpath
Columns / Walls - Class 65 Mpa	EPD-IES-0014413:001	65	357	381	Column & Wall
Columns / Walls - Class 80 Mpa	EPD-IES-0014424:001	80	422	446	Column & Wall
Columns & Walls 65 MPa High Early Strength	EPD-IES-0014306:001	65	460	482	Column & Wall
Columns & Walls 80 MPa High Early Strength	EPD-IES-0014417:001	80	569	589	Column & Wall
Blockfill 20 MPa	EPD-IES-0012582:001	20	195	220	Blockfill
Blockfill 25 MPa	EPD-IES-0012656:001	25	208	233	Blockfill
HYLO-40 Normal-Class 20 MPa	EPD-IES-0012791:001	20	174	200	General
HYLO-40 Normal-Class 25 MPa	EPD-IES-0013269:001	25	187	213	General
HYLO-40 Normal-Class 32 MPa	EPD-IES-0013334:001	32	210	236	General
HYLO-40 Normal-Class 40 MPa	EPD-IES-0013527:001	40	251	278	General
HYLO-40 Normal-Class 50 MPa	EPD-IES-0013637:001	50	306	335	General
HYLO-50 Normal-Class 20 MPa	EPD-IES-0012798:001	20	143	170	General
HYLO-50 Normal-Class 25 MPa	EPD-IES-0013258:001	25	156	183	General
HYLO-50 Normal-Class 32 MPa	EPD-IES-0013497:001	32	176	202	General
HYLO-50 Normal-Class 40 MPa	EPD-IES-0013507:001	40	215	243	General
HYLO-50 Normal-Class 50 MPa	EPD-IES-0013752:001	50	256	283	General
HyColour 25 MPa	EPD-IES-0015463:001	25	221	245	Decorative
HyColour 32 MPa	EPD-IES-0015518:001	32	251	275	Decorative

¹More detailed information is provided in the mix-specific tables and assumptions covered in Life Cycles & Processes section



Product Environmental Performance

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Product Identification	EPD Registration Number	Compressive strength [MPa]	A1-A3 GWP-tot ¹ [kg CO ₂ eq./m ³]	Full Lifecycle GWP-tot ¹ [kg CO ₂ eq./m ³]	Application
Hylite Exposed 25 MPa	EPD-IES-0015668:001	25	219	246	Decorative
Hylite Exposed 32 MPa	EPD-IES-0015805:001	32	252	276	Decorative
Hyshine Polished 32 MPa	EPD-IES-0015983:001	32	259	282	Decorative
Hyshine Polished 40 MPa	EPD-IES-0016044:001	40	301	326	Decorative
Hyspray 32 MPa	EPD-IES-0016440:001	32	265	290	Shotcrete
Hyspray 40 MPa	EPD-IES-0016445:001	40	296	320	Shotcrete
Spraymasta Tunnel 40MPa 40kg/m3 Steel Fibre, 1kg/m3 Poly Fibre	EPD-IES-0017615:001	40	361	391	Shotcrete
Piling 32 MPa HYLO-50	EPD-IES-0016062:001	32	187	214	Piling
Piling 40 MPa HYLO-50	EPD-IES-0016119:001	40	217	245	Piling
Piling 50 MPa HYLO-50	EPD-IES-0016128:001	50	260	287	Piling
Post-tensioned 40 MPa (22 MPa @ 3 days)	EPD-IES-0016168:001	40	339	363	Post-Tensioned Slab
Post-tensioned 40 MPa (22 MPa @ 4 days)	EPD-IES-0016130:001	40	324	349	Post-Tensioned Slab
Post-tensioned 40 MPa (22 MPa @ 5 days)	EPD-IES-0016129:001	40	324	349	Post-Tensioned Slab
Post-tensioned 40 MPa (25 MPa @ 3 days)	EPD-IES-0016131:001	40	366	390	Post-Tensioned Slab
Post-tensioned 40 MPa (25 MPa @ 4 days)	EPD-IES-0016154:001	40	343	367	Post-Tensioned Slab
Post-tensioned 50 MPa (22 MPa @ 3 days)	EPD-IES-0016307:001	50	381	405	Post-Tensioned Slab
Post-tensioned 50 MPa (22 MPa @ 4 days)	EPD-IES-0016231:001	50	381	408	Post-Tensioned Slab
Post-tensioned 50 MPa (25 MPa @ 3 days)	EPD-IES-0016439:001	50	381	405	Post-Tensioned Slab
Post-tensioned 50 MPa (25 MPa @ 4 days)	EPD-IES-0016367:001	50	381	405	Post-Tensioned Slab
Post-tensioned 40 MPa (22 MPa @ 3 days) HySustain	EPD-IES-0016895:001	40	273	299	Post-Tensioned Slab

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Product Environmental Performance

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Product Identification	EPD Registration Number	Compressive strength [MPa]	A1-A3 GWP-tot ¹ [kg CO ₂ eq./m ³]	Full Lifecycle GWP-tot ¹ [kg CO ₂ eq./m ³]	Application
Post-tensioned 40 MPa (22 MPa @ 4 days) HySustain	EPD-IES-0016896:001	40	266	293	Post-Tensioned Slab
Post-tensioned 40 MPa (25 MPa @ 3 days) HySustain	EPD-IES-0016947:001	40	284	310	Post-Tensioned Slab
Post-tensioned 40 MPa (25 MPa @ 4 days) HySustain	EPD-IES-0016948:001	40	280	306	Post-Tensioned Slab
Post-tensioned 50 MPa (22 MPa @ 3 days) HySustain	EPD-IES-0016994:001	50	287	314	Post-Tensioned Slab
Post-tensioned 50 MPa (22 MPa @ 4 days) HySustain	EPD-IES-0016999:001	50	281	307	Post-Tensioned Slab
Post-tensioned 50 MPa (25 MPa @ 3 days) HySustain	EPD-IES-0017367:001	50	306	332	Post-Tensioned Slab
Post-tensioned 50 MPa (25 MPa @ 4 days) HySustain	EPD-IES-0017545:001	50	292	318	Post-Tensioned Slab
Precast 50MPa	EPD-IES-0017550:001	50	437	459	Precast
Precast 50MPa HySustain	EPD-IES-0017551:001	50	314	340	Precast
Sydney Water 25MPa	EPD-IES-0016802:001	25	178	204	Sydney Water Structural
Sydney Water 32MPa	EPD-IES-0016891:001	32	201	227	Sydney Water Structural
Sydney Water 40MPa	EPD-IES-0016917:001	40	234	261	Sydney Water Structural
Sydney Water Special 40MPa	EPD-IES-0016945:001	40	267	293	Sydney Water Structural
Sydney Water Special 50MPa	EPD-IES-0017024:001	50	280	306	Sydney Water Structural
TfNSW B80 Cast-in-place piles 40MPa B2 Exposure	EPD-IES-0017617:001	40	248	275	TfNSW Piling
TfNSW B80 Cast-in-place-piles 50MPa B2 Exposure	EPD-IES-0017618:001	50	274	300	TfNSW Piling
TfNSW B80 Insitu 40MPa B2 Exposure	EPD-IES-0016894:001	40	227	255	TfNSW Structural
TfNSW B80 Insitu 50MPa B2 Exposure	EPD-IES-0016949:001	50	265	292	TfNSW Structural
TfNSW R82 Leanmix 5MPa	EPD-IES-0016686:001	5	120	139	Lean Mix
TfNSW R83 Pavement 35MPa	EPD-IES-0016753:001	35	301	326	Pavement

¹More detailed information is provided in the mix-specific tables and assumptions covered in Life Cycles & Processes section

Product Environmental Performance

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Product Identification	EPD Registration Number	Compressive strength [MPa]	A1-A3 GWP-tot ¹ [kg CO ₂ eq./m ³]	Full Lifecycle GWP-tot ¹ [kg CO ₂ eq./m ³]	Application
TfNSW Shotcrete 25MPa Low Permeability Smoothing Layer	EPD-IES-0017598:001	25	324	344	Shotcrete

¹More detailed information is provided in the mix-specific tables and assumptions covered in Life Cycles & Processes section

References



Programme Information

EPD OWNER	Hymix Australia Pty Ltd L10, 35 Clarence St, Sydney NSW 2000 Phone: 1300 136 464 Online: hymix.com.au	
PROGRAM OPERATOR	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden Online: www.environdec.com Email: info@environdec.com	
REGIONAL PROGRAMME	EPD Australasia, 315a Hardy St, Nelson 7010 New Zealand Online: epd-australasia.com Email: info@epd-Australasia.com	
PROCESS EPD CERTIFIED BY	Megan Blizzard Epsten Group, Inc. 101 Marietta St. NW, Suite 2600, Atlanta, Georgia 30303, USA www.epstengroup.com Accredited by: A2LA, Certificate #3142.03	
PRODUCT CATEGORY RULES	CEN standard EN 15804:A2 (PCR 2019:14 Construction Products, Version 1.3.4) served as the core PCR. Environdec c-PCR-003 Concrete, concrete elements (EN 16757:2023) served as sub-PCR. The Technical Committee of the International EPD® System. Chair: Claudia A. Peña. <u>The review panel may be contacted via info@environdec.com.</u>	
EN 15804 PCR REVIEW		
EPD REGISTRATION NUMBER	EPD-IES-0016130:001	
INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025:	☒ EPD process certification ☐ EPD verification	
VALID FROM	2025-01-28	
VALID TO	2030-01-28	
VERSION	1.0 2025-01-28	
DESCRIPTION OF VERSION DIFFERENCES (IF NOT VERSION 1.0)	N/A	
GEOGRAPHICAL SCOPE	NEW SOUTH WALES - SYDNEY	
IMPORTANT NOTES	EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804.	
	The EPD Owner maintains full ownership, liability and responsibility for the EPD.	
PRODUCT GROUP CLASSIFICATION	UN CPC 88 - Concrete, cement and plaster article manufacturing services	
ANZSIC CLASSIFICATION	2033 Ready Mix Concrete Manufacturing	



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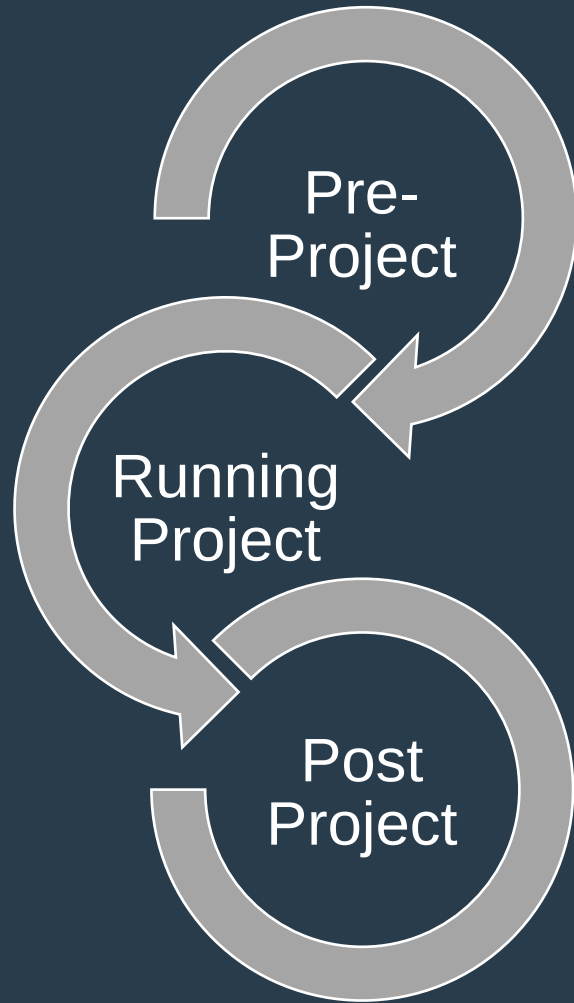




Thank you

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CO₂ is set to become a crucial budgeting currency in the construction sector. As such, it must be managed accordingly. Most provided embodied carbon emission data out there is based on estimates and typically handed over to the customer before a project starts.

At Heidelberg Materials Australia, we believe there's a better way to communicate carbon values, which also eliminates the current gap of carbon monitoring options during the construction phase in the market:

- 1) Pre-project:** Predicting - We can provide you indicative CO₂ values for your specific project with our 3rd party verified CO₂ calculator (targeted & fast & reliable).
- 2) Running project:** Monitoring - You get regular updates of your deliveries and how you track towards your carbon targets (no more surprises).
- 3) Post-project:** Verification - You'll receive a final report and a project-specific EPD based on actual deliveries (highest accuracy).