

HySustain – High Performance/Low Carbon

concrete

Brisbane, Sunshine Coast & Gold Coast

In Accordance with Environdec c-PCR-003 Concrete, concrete elements (EN 16757), ISO 14025 and EN15804:A2
Programme: The International EPD® System
Programme Operator: EPD Australasia Limited

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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 5 Sustainability Pillars

CO₂ EMISSIONS



To reduce our CO₂ emissions by improving our product performance and increasing operational efficiencies in our plants and fleets.

SUSTAINABLE PRODUCTS



To improve our product sustainability by continuously increasing the use of alternative resources as substitutes for natural materials, and promoting our sustainable product range.

BIODIVERSITY



To preserve and enhance the natural environment where we operate and create habitat through implementation of biodiversity management plans.

WATER



To increase water efficiency by implementing water conservation plans aimed at improving water capture, storage and use.

CORPORATE SOCIAL RESPONSIBILITY



To provide ongoing, meaningful community benefit by increasing diversity, social procurement, and community engagement.



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 (left) 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 left.



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.

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Hymix

- Introducing the HyLo 30 / 40 / 50 Range
- Our HyLo-30/40/50 range has all the properties you expect of standard concrete, with a guaranteed minimum of 30%, 40% or 50% carbon reduction.
- And we can provide reporting based on the actual deliveries of the project.
- · Reporting options include:
 - Pre-Project (simulated)
 - During Project
 - Post-Project
 - EPD (project-specific)

HyLo-30 HyLo-40 HyLo-50



Hymix

The Challenge with Low Carbon Concrete

- Historically substituting materials in concrete mix design to lower the carbon content effects performance
 - Slow early strength development
 - Effect on Workability and Setting Time

The Solution

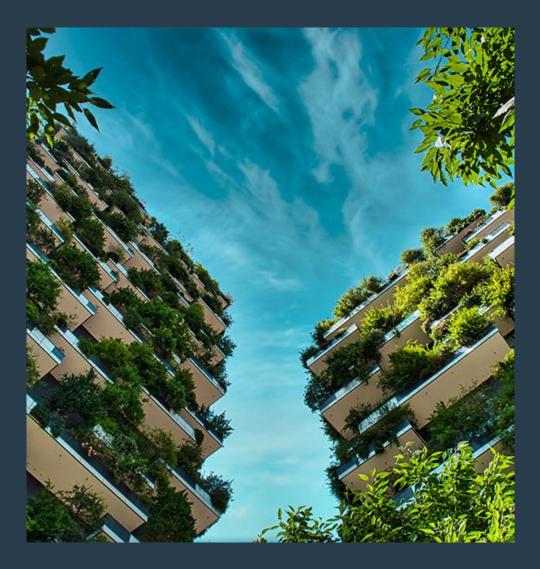
- A concrete that has:
 - High Performance
 - Low Carbon 30% to 50% reduction

HySustain

High-Performance Low Carbon Concrete



HySustain - High Performance Low Carbon Concrete



HySustain[®]

A unique and innovative product:

- Low Carbon Concrete 30% to 50% reduction in CO₂
- Early age strength equivalent to standard post-tensioned concrete
- Lower shrinkage than standard concrete up to 50% improvement
- Improved Flexural Strength up to 50% improvement

Requires no additional safety requirements compared to standard concrete - pump, place and finish within standard WHS requirements.

The mix can be tailored to meet your specific requirements.



Low Carbon Concrete

Up to 50% CO2 reduction compared to standard concrete.



Early Age Strength

Early age strength equivalent to standard post-tensioned concrete for faster construction.



Lower Shrinkage

Lower shrinkage than standard concrete. Tested in accordance with AS1012.13. 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

The Global Cement & Concrete Association (GCCA) are responsible for the Life Cycle Assessment (LCA) tool (GCCA Tool) employed that was originally developed for the Cement Sustainability Initiative (CSI) led by the World Business Council for Sustainable Development (WBCSD). For the purposes of creating this Environmental Product Declaration (EPD), the 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, 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 the Brisbane, Sunshine Coast & Gold Coast area.
- Raw material (inbound) transport distances is the previous year's travel distance average weighted according to deliveries across operations.
- For generic EPDs travel 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.
- Travel distance for fuel from depots to operations was set to 100 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 excluding imports.
- · Travel for materials sources internationally included from shipping origin.

Product Content Declaration

The contents of the materials contained in the subject mixes are contained in the table, illustrated by percentage of weight.

Bill of Materials	Low Level [%]	High Level [%]
Cement	5	14
Supplementary Cementitious Materials	8	20
Aggregates	57	79
Water		<10
Admixtures		<1%
Reinforcements		<1%

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

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.

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

Prod	duct S	tage		truction age	Use Stage End of Life Stage									ge	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
A1	A2	АЗ	A4	A5	B1 B2 B3			B4	B5	B6	В7	C1	C2	С3	C4	D1
✓	√	\	√	✓	√	>	✓	✓	✓	✓	✓	✓	✓	✓	✓	√

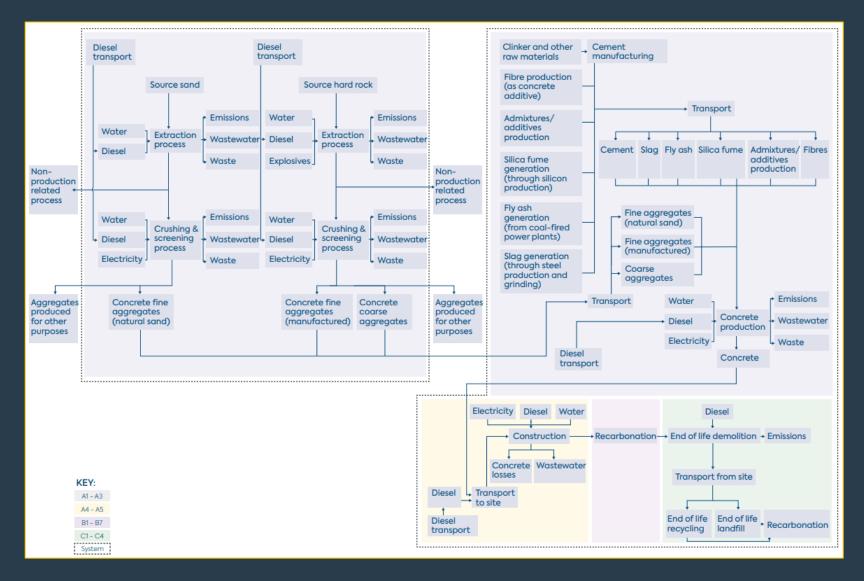
All stages of the product lifecycle have been considered for this EPD – cradle to grave. By its nature, there are some stages of the lifecycle that are not applicable to the concrete product.

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 Quality
Product Description	Product description and density	ERP report Bill of Materials and material specific data	Upon EPD creation	High, Primary
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 3.5. Cement and Clinker details to be provided by cement producer or, where not available, GCCA Tool default data used in conjunction with ecoinvent 3.5.	Upon EPD creation	High, Secondary
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.	High, Primary
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, Medium
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 metre	Primary, High
A1-3 Manufacturing	Electricity Energy Sources	Sourced from OpenNEM https://opennem.org.au; Australian Energy Market Operator.	Full year prior data, state-based, percentages	Secondary, High
A1-3 Waste Management	Waste and waste water	Waste water volume set to 9L per 1 m ³	Static	Secondary, Medium
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.	Generic EPD: Full prior year data, average per delivery. Project-specific EPD: Actual travel distances between plant and construction site.	Primary, High
B. Use	Re-carbonation	Default GCCA Tool settings	NA	Proxy, Medium
C. End of Life Demolition	Demolition	Default GCCA Tool settings	NA	Proxy, Medium
C. End of Life Transport	Transport	Default GCCA Tool settings	NA	Proxy, Medium
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) National Waste Reports	Prior year National Waste Report if available. If not, then latest available	Proxy, Medium
C. End of Life Disposal	Disposal Rate at EOL	Disposal rate inverse of masonry materials recycling rate obtained from annual National Waste Report published National Waste Reports	Prior year National Waste Report if available. If not, then latest available	Proxy, Medium
D Benefits and Loads		Default GCCA Tool settings	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, High
Product Description	Product description and density	ERP report Bill of Materials and material specific data	Upon EPD creation	High, Primary
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 3.5. Cement and Clinker details to be provided by cement producer or, where not available, GCCA Tool default data used in conjunction with ecoinvent 3.5.	Upon EPD creation	High, Secondary
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.	High, Primary
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, Medium
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 metre	Primary, High
A1-3 Manufacturing	Electricity Energy Sources	Sourced from OpenNEM https://opennem.org.au; Australian Energy Market Operator.	Full year prior data, state-based, percentages	Secondary, High
A1-3 Waste Management	Waste and waste water	Waste water volume set to 9L per 1 m ³	Static	Secondary, Medium



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.

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)

Additional environmental impact indicators	PM (Potential incidence of disease due to PM emissions) • IRP (Potential Human exposure efficiency relative to U235) • ETP (Potential Comparative Toxic Unit for ecosystems) • HTPC (Potential Comparative Toxic Unit for humans - cancer) • HTPNC (Potential Comparative Toxic Unit for humans - non-cancer) • SQP (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) • 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	CC (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 packaging)

 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	GP Content ¹ [kg/m³]	CO ₂ Reference ² [kg/m³]	CO ₂ Reduction ³ [%]	GWP-tot ⁴ [kg CO ₂ eq./m ³]	Page
HySustain - High Performance/Low Carbon - 25 MPa	S-P-10202-1	121	340	52%	164	22
HySustain - High Performance/Low Carbon - 32 MPa	S-P-10202-2	141	390	52%	186	25
HySustain - High Performance/Low Carbon - 40 MPa	S-P-10202-3	177	467	52%	225	28
HySustain - High Performance/Low Carbon - 50 MPa	S-P-10202-4	236	573	50%	290	31
HySustain - High Performance/Low Carbon - 65 MPa	S-P-10202-5	264	582	45%	322	34

Product Identification	Application
HySustain - High Performance/Low Carbon - 25 MPa	Flat work such as domestic slabs
HySustain - High Performance/Low Carbon - 32 MPa	Flat work such as domestic and commercial slabs
HySustain - High Performance/Low Carbon - 40 MPa	Flat work with commercial slabs. Similar mixes to meet post tensioned slab requirements available.
HySustain - High Performance/Low Carbon - 50 MPa	Structural elements with increased durability requirements
HySustain - High Performance/Low Carbon - 65 MPa	Structural elements with increased durability requirements

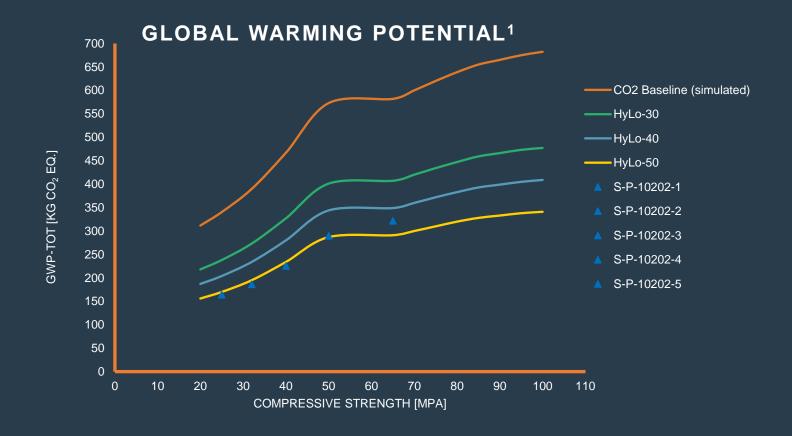
¹GP = General Portland Cement, does not include SCMs.

⁴GWP-tot: Covers A1-A3 only. More detailed information is provided in the following mix-specific tables.



²See Appendix for detailed explanation.

³Calculation: {1 - (GWP-tot - CO₂ Reference)} / (CO₂ reference).



 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.

³Plotting style: Scatter plot of values with smooth lines & markers.



¹GWP-tot: Covers A1-A3 only. More detailed information is provided in the following mix-specific tables.

²CO₂ Baseline (simulated) is based on the Green Star Mat–4 Concrete Credit User Guide (2012). Detailed explanation is provided in the appendix.

Product identification	HySustain - High Performance/Low Carbon - 25 MPa
EPD Registration Number	S-P-10202-1
Production site(s)	Brisbane, Sunshine Coast & Gold Coast
Compressive strength	25
Density	2313.1 kg/m³
Reference service life	50 Years
Recycling rate at eol	78%
Declared unit	1 m3
Scope	A1-A3 + A4-A5 + B1-B7 + C1-C4 + D, cradle-to-grave
Methodology	GCCA's Industry EPD Tool for Cement and Concrete (V4.0), International version

EPD Registration Number S-P-10202-1

Core environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG	kg CO₂ eq.	1.64E+02	4.20E+00	1.03E+01	-1.09E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	8.86E+00	4.99E+00	-1.65E-01	-1.38E+01
GWP-tot	kg CO₂ eq.	1.64E+02	4.20E+00	1.03E+01	-1.09E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	8.86E+00	4.99E+00	-1.65E-01	-1.38E+01
GWP-fos	kg CO ₂ eq.	4.00E+02	1.12E+00	1.26E+01	-7.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	8.95E+00	3.56E+00	-3.50E+00	-1.39E+01
GWP-bio	kg CO ₂ eq.	8.41E-02	4.39E-04	4.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	6.40E-03	1.91E-02	1.87E-03	-5.61E-02
GWP-luc	kg CO₂ eq.	6.18E-02	3.79E-04	3.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	5.20E-03	1.46E-02	1.52E-03	-2.43E-02
ODP	kg CFC 11 eq.	6.76E-06	8.00E-07	1.30E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	1.49E-06	3.64E-07	9.10E-07	-9.40E-07
AP	mol H+ eq.	7.74E-01	2.17E-02	9.11E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-02	5.34E-02	3.86E-02	2.68E-02	-9.76E-02
EP-fw	kg P eq.	3.71E-02	3.13E-04	2.12E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	1.18E-03	3.00E-03	3.27E-04	-5.77E-03
EP-mar	kg N eq.	2.43E-03	2.72E-05	6.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	8.75E-05	2.08E-04	3.09E-05	-3.74E-04
EP-ter	mol N eq.	1.62E+00	7.78E-02	3.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-01	1.88E-01	7.20E-02	9.59E-02	-2.43E-01
POCP	kg NMV OC eq.	4.72E-01	2.34E-02	9.20E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-01	5.51E-02	2.03E-02	2.82E-02	-6.16E-02
ADPE	kg Sb eq.	1.64E-04	7.83E-06	7.16E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06	1.56E-05	4.49E-06	3.04E-06	-1.57E-04
ADPF	MJ, net calorific value	1.24E+03	6.61E+01	1.31E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+02	1.32E+02	7.49E+01	7.78E+01	-1.58E+02
WDP	m³ w orld eq. deprived	8.69E+01	4.87E-01	-1.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-01	1.14E+00	1.05E+00	3.76E+00	-2.68E+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	5.33E+01	1.91E+00	5.57E+00	0.00E+00	7.59E-01	4.83E+00	8.19E+00	2.02E+00	-1.29E+01						
PERM	MJ, net calorific value	0.00E+00														
PERT	MJ, net calorific value	5.33E+01	1.91E+00	5.57E+00	0.00E+00	7.59E-01	4.83E+00	8.19E+00	2.02E+00	-1.29E+01						
PENRE	MJ, net calorific value	1.25E+03	6.61E+01	1.31E+02	0.00E+00	1.30E+02	1.32E+02	7.49E+01	7.78E+01	-1.58E+02						
PENRM	MJ, net calorific value	0.00E+00														
PENRT	MJ, net calorific value	1.25E+03	6.61E+01	1.31E+02	0.00E+00	1.30E+02	1.32E+02	7.49E+01	7.78E+01	-1.58E+02						
SM	kg	1.88E+02	0.00E+00	1.88E+00	0.00E+00											
RSF	MJ, net calorific value	2.37E+00	0.00E+00	2.37E-02	0.00E+00											
NRSF	MJ, net calorific value	3.94E+01	0.00E+00	3.94E-01	0.00E+00											
NFW	m³	2.12E+00	1.46E-02	1.17E-01	0.00E+00	1.99E-02	3.53E-02	4.26E-02	8.75E-02	-6.41E-01						

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EPD Registration Number S-P-10202-1

Additional environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	6.43E-06	3.87E-07	1.68E-06	0.00E+00	2.45E-06	8.26E-07	3.45E-07	4.99E-07	-1.15E-06						
IRP	kBq U235 eq.	3.74E+03	3.48E+02	5.88E+02	0.00E+00	6.08E+02	7.57E+02	8.04E+02	3.59E+02	-1.29E+03						
ETP	CTUe	4.30E+02	1.40E+01	8.09E+00	0.00E+00	1.76E+00	2.32E+01	1.57E+00	1.47E+00	-6.67E+00						
HTPC	CTUh	4.30E+02	1.40E+01	8.09E+00	0.00E+00	6.36E-08	1.01E-07	6.23E-08	2.44E-08	-3.29E-07						
HTPNC	CTUh	1.15E-05	7.52E-07	9.07E-07	0.00E+00	2.46E-07	1.39E-06	2.87E-07	1.56E-07	-1.96E-06						
SQP	dimensionless	6.99E-07	2.69E-08	1.89E-07	0.00E+00	7.71E+00	2.15E+02	6.12E+01	1.45E+02	-2.07E+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														
NHWD	kg	5.03E-02	0.00E+00	5.08E+00	0.00E+00	5.08E+02	0.00E+00									
RWD	kg	0.00E+00														

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														
MFR	kg	0.00E+00	0.00E+00	1.80E+01	0.00E+00	1.80E+03	0.00E+00	0.00E+00								
MER	kg	0.00E+00														
EE	kg	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.	5.71E+01	0.00E+00	5.19E-01	-1.09E+00	0.00E+00	-1.16E+00	-2.96E+00	0.00E+00							
CWRS	kg CO ₂ eq.	2.96E-03	0.00E+00	2.96E-05	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.	3.34E+00	0.00E+00	3.34E-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 identification	HySustain - High Performance/Low Carbon - 32 MPa
EPD Registration Number	S-P-10202-2
Production site(s)	Brisbane, Sunshine Coast & Gold Coast
Compressive strength	32
Density	2357.5 kg/m³
Reference service life	50 Years
Recycling rate at eol	78%
Declared unit	1 m3
Scope	A1-A3 + A4-A5 + B1-B7 + C1-C4 + D, cradle-to-grave
Methodology	GCCA's Industry EPD Tool for Cement and Concrete (V4.0), International version

EPD Registration Number S-P-10202-2

Core environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG	kg CO₂ eq.	1.86E+02	4.28E+00	1.06E+01	-1.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	9.03E+00	4.91E+00	-6.00E-01	-1.41E+01
GWP-tot	kg CO ₂ eq.	1.86E+02	4.28E+00	1.06E+01	-1.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	9.03E+00	4.91E+00	-6.00E-01	-1.41E+01
GWP-fos	kg CO ₂ eq.	4.00E+02	1.12E+00	1.26E+01	-7.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	8.95E+00	3.56E+00	-3.50E+00	-1.39E+01
GWP-bio	kg CO ₂ eq.	8.41E-02	4.39E-04	4.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	6.40E-03	1.91E-02	1.87E-03	-5.61E-02
GWP-luc	kg CO₂ eq.	6.18E-02	3.79E-04	3.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	5.20E-03	1.46E-02	1.52E-03	-2.43E-02
ODP	kg CFC 11 eq.	7.24E-06	8.16E-07	1.31E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	1.52E-06	3.72E-07	9.28E-07	-9.58E-07
AP	mol H+ eq.	8.68E-01	2.22E-02	9.21E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-02	5.45E-02	3.93E-02	2.73E-02	-9.95E-02
EP-fw	kg P eq.	4.19E-02	3.19E-04	2.17E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	1.21E-03	3.06E-03	3.34E-04	-5.88E-03
EP-mar	kg N eq.	2.75E-03	2.77E-05	6.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	8.92E-05	2.12E-04	3.15E-05	-3.81E-04
EP-ter	mol N eq.	1.79E+00	7.93E-02	3.34E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-01	1.92E-01	7.34E-02	9.78E-02	-2.48E-01
POCP	kg NMV OC eq.	5.20E-01	2.39E-02	9.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-01	5.62E-02	2.07E-02	2.87E-02	-6.28E-02
ADPE	kg Sb eq.	1.68E-04	7.99E-06	7.21E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06	1.59E-05	4.58E-06	3.10E-06	-1.60E-04
ADPF	MJ, net calorific value	1.38E+03	6.74E+01	1.32E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+02	1.34E+02	7.64E+01	7.93E+01	-1.61E+02
WDP	m³ w orld eq. deprived	8.63E+01	4.97E-01	-1.27E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-01	1.17E+00	1.07E+00	3.83E+00	-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	5.85E+01	1.95E+00	5.63E+00	0.00E+00	7.59E-01	4.92E+00	8.35E+00	2.06E+00	-1.32E+01						
PERM	MJ, net calorific value	0.00E+00														
PERT	MJ, net calorific value	5.85E+01	1.95E+00	5.63E+00	0.00E+00	7.59E-01	4.92E+00	8.35E+00	2.06E+00	-1.32E+01						
PENRE	MJ, net calorific value	1.39E+03	6.74E+01	1.32E+02	0.00E+00	1.30E+02	1.34E+02	7.64E+01	7.93E+01	-1.61E+02						
PENRM	MJ, net calorific value	0.00E+00														
PENRT	MJ, net calorific value	1.39E+03	6.74E+01	1.32E+02	0.00E+00	1.30E+02	1.34E+02	7.64E+01	7.93E+01	-1.61E+02						
SM	kg	2.22E+02	0.00E+00	2.22E+00	0.00E+00											
RSF	MJ, net calorific value	2.76E+00	0.00E+00	2.76E-02	0.00E+00											
NRSF	MJ, net calorific value	4.60E+01	0.00E+00	4.60E-01	0.00E+00											
NFW	m³	2.10E+00	1.49E-02	1.17E-01	0.00E+00	1.99E-02	3.60E-02	4.34E-02	8.92E-02	-6.53E-01						

EPD Registration Number S-P-10202-2

Additional environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	7.06E-06	3.95E-07	1.69E-06	0.00E+00	2.45E-06	8.42E-07	3.51E-07	5.09E-07	-1.17E-06						
IRP	kBq U235 eq.	3.89E+03	3.55E+02	5.90E+02	0.00E+00	6.08E+02	7.71E+02	8.19E+02	3.66E+02	-1.32E+03						
ETP	CTUe	4.93E+02	1.42E+01	8.73E+00	0.00E+00	1.76E+00	2.36E+01	1.60E+00	1.50E+00	-6.80E+00						
HTPC	CTUh	4.93E+02	1.42E+01	8.73E+00	0.00E+00	6.36E-08	1.03E-07	6.35E-08	2.49E-08	-3.36E-07						
HTPNC	CTUh	1.28E-05	7.66E-07	9.20E-07	0.00E+00	2.46E-07	1.41E-06	2.93E-07	1.60E-07	-2.00E-06						
SQP	dimensionless	7.43E-07	2.74E-08	1.89E-07	0.00E+00	7.71E+00	2.19E+02	6.24E+01	1.48E+02	-2.11E+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														
NHWD	kg	5.87E-02	0.00E+00	5.17E+00	0.00E+00	5.17E+02	0.00E+00									
RWD	kg	0.00E+00														

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														
MFR	kg	0.00E+00	0.00E+00	1.84E+01	0.00E+00	1.84E+03	0.00E+00	0.00E+00								
MER	kg	0.00E+00														
EE	kg	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.	6.66E+01	0.00E+00	6.05E-01	-1.27E+00	0.00E+00	-1.36E+00	-3.45E+00	0.00E+00							
CWRS	kg CO ₂ eq.	3.45E-03	0.00E+00	3.45E-05	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.	3.89E+00	0.00E+00	3.89E-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 identification	HySustain - High Performance/Low Carbon - 40 MPa
EPD Registration Number	S-P-10202-3
Production site(s)	Brisbane, Sunshine Coast & Gold Coast
Compressive strength	40
Density	2363.5 kg/m³
Reference service life	50 Years
Recycling rate at eol	78%
Declared unit	1 m3
Scope	A1-A3 + A4-A5 + B1-B7 + C1-C4 + D, cradle-to-grave
Methodology	GCCA's Industry EPD Tool for Cement and Concrete (V4.0), International version

EPD Registration Number S-P-10202-3

Core environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG	kg CO₂ eq.	2.25E+02	4.29E+00	1.10E+01	-1.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	9.05E+00	5.10E+00	9.29E-03	-1.41E+01
GWP-tot	kg CO₂ eq.	2.25E+02	4.29E+00	1.10E+01	-1.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	9.05E+00	5.10E+00	9.29E-03	-1.41E+01
GWP-fos	kg CO₂ eq.	4.00E+02	1.12E+00	1.26E+01	-7.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	8.95E+00	3.56E+00	-3.50E+00	-1.39E+01
GWP-bio	kg CO₂ eq.	8.41E-02	4.39E-04	4.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	6.40E-03	1.91E-02	1.87E-03	-5.61E-02
GWP-luc	kg CO ₂ eq.	6.18E-02	3.79E-04	3.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	5.20E-03	1.46E-02	1.52E-03	-2.43E-02
ODP	kg CFC 11 eq.	8.10E-06	8.18E-07	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	1.52E-06	3.72E-07	9.30E-07	-9.60E-07
AP	mol H+ eq.	1.03E+00	2.22E-02	9.37E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-02	5.46E-02	3.94E-02	2.74E-02	-9.97E-02
EP-fw	kg Peq.	5.02E-02	3.20E-04	2.25E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	1.21E-03	3.07E-03	3.35E-04	-5.90E-03
EP-mar	kg N eq.	3.28E-03	2.78E-05	6.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	8.94E-05	2.13E-04	3.16E-05	-3.82E-04
EP-ter	mol N eq.	2.09E+00	7.95E-02	3.37E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-01	1.92E-01	7.36E-02	9.80E-02	-2.49E-01
POCP	kg NMVOC eq.	6.09E-01	2.40E-02	9.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-01	5.63E-02	2.07E-02	2.88E-02	-6.30E-02
ADPE	kg Sb eq.	1.76E-04	8.01E-06	7.29E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06	1.60E-05	4.59E-06	3.11E-06	-1.61E-04
ADPF	MJ, net calorific value	1.62E+03	6.76E+01	1.35E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+02	1.35E+02	7.65E+01	7.95E+01	-1.61E+02
WDP	m³ w orld eq. deprived	8.29E+01	4.98E-01	-1.30E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-01	1.17E+00	1.07E+00	3.84E+00	-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	6.74E+01	1.96E+00	5.72E+00	0.00E+00	7.59E-01	4.94E+00	8.37E+00	2.06E+00	-1.32E+01						
PERM	MJ, net calorific value	0.00E+00														
PERT	MJ, net calorific value	6.74E+01	1.96E+00	5.72E+00	0.00E+00	7.59E-01	4.94E+00	8.37E+00	2.06E+00	-1.32E+01						
PENRE	MJ, net calorific value	1.64E+03	6.76E+01	1.35E+02	0.00E+00	1.30E+02	1.35E+02	7.65E+01	7.95E+01	-1.61E+02						
PENRM	MJ, net calorific value	0.00E+00														
PENRT	MJ, net calorific value	1.64E+03	6.76E+01	1.35E+02	0.00E+00	1.30E+02	1.35E+02	7.65E+01	7.95E+01	-1.61E+02						
SM	kg	2.77E+02	0.00E+00	2.77E+00	0.00E+00											
RSF	MJ, net calorific value	3.47E+00	0.00E+00	3.47E-02	0.00E+00											
NRSF	MJ, net calorific value	5.77E+01	0.00E+00	5.77E-01	0.00E+00											
NFW	m³	2.03E+00	1.49E-02	1.17E-01	0.00E+00	1.99E-02	3.61E-02	4.35E-02	8.95E-02	-6.55E-01						

EPD Registration Number S-P-10202-3

Additional environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	8.18E-06	3.96E-07	1.70E-06	0.00E+00	2.45E-06	8.44E-07	3.52E-07	5.10E-07	-1.17E-06						
IRP	kBq U235 eq.	4.18E+03	3.56E+02	5.92E+02	0.00E+00	6.08E+02	7.73E+02	8.22E+02	3.67E+02	-1.32E+03						
ETP	CTUe	6.08E+02	1.43E+01	9.88E+00	0.00E+00	1.76E+00	2.37E+01	1.60E+00	1.50E+00	-6.82E+00						
HTPC	CTUh	6.08E+02	1.43E+01	9.88E+00	0.00E+00	6.36E-08	1.03E-07	6.37E-08	2.50E-08	-3.37E-07						
HTPNC	CTUh	1.50E-05	7.68E-07	9.42E-07	0.00E+00	2.46E-07	1.42E-06	2.93E-07	1.60E-07	-2.00E-06						
SQP	dimensionless	8.23E-07	2.75E-08	1.90E-07	0.00E+00	7.71E+00	2.20E+02	6.26E+01	1.48E+02	-2.12E+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														
NHWD	kg	7.36E-02	0.00E+00	5.18E+00	0.00E+00	5.18E+02	0.00E+00									
RWD	kg	0.00E+00														

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														
MFR	kg	0.00E+00	0.00E+00	1.84E+01	0.00E+00	1.84E+03	0.00E+00	0.00E+00								
MER	kg	0.00E+00														
EE	kg	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.	8.35E+01	0.00E+00	7.84E-01	-1.10E+00	0.00E+00	-1.18E+00	-2.85E+00	0.00E+00							
CWRS	kg CO ₂ eq.	4.34E-03	0.00E+00	4.34E-05	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.	4.89E+00	0.00E+00	4.89E-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 identification	HySustain - High Performance/Low Carbon - 50 MPa
EPD Registration Number	S-P-10202-4
Production site(s)	Brisbane, Sunshine Coast & Gold Coast
Compressive strength	50
Density	2359.7 kg/m³
Reference service life	50 Years
Recycling rate at eol	78%
Declared unit	1 m3
Scope	A1-A3 + A4-A5 + B1-B7 + C1-C4 + D, cradle-to-grave
Methodology	GCCA's Industry EPD Tool for Cement and Concrete (V4.0), International version

EPD Registration Number S-P-10202-4

Core environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG	kg CO₂ eq.	2.90E+02	4.29E+00	1.16E+01	-1.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	9.05E+00	4.70E+00	-9.42E-01	-1.41E+01
GWP-tot	kg CO₂ eq.	2.90E+02	4.29E+00	1.16E+01	-1.46E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	9.05E+00	4.70E+00	-9.42E-01	-1.41E+01
GWP-fos	kg CO₂ eq.	4.00E+02	1.12E+00	1.26E+01	-7.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	8.95E+00	3.56E+00	-3.50E+00	-1.39E+01
GWP-bio	kg CO₂ eq.	8.41E-02	4.39E-04	4.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	6.40E-03	1.91E-02	1.87E-03	-5.61E-02
GWP-luc	kg CO ₂ eq.	6.18E-02	3.79E-04	3.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	5.20E-03	1.46E-02	1.52E-03	-2.43E-02
ODP	kg CFC 11 eq.	9.53E-06	8.17E-07	1.33E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	1.52E-06	3.72E-07	9.30E-07	-9.60E-07
AP	mol H+ eq.	1.30E+00	2.22E-02	9.64E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-02	5.46E-02	3.94E-02	2.73E-02	-9.96E-02
EP-fw	kg Peq.	6.38E-02	3.20E-04	2.39E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	1.21E-03	3.06E-03	3.34E-04	-5.89E-03
EP-mar	kg N eq.	4.16E-03	2.78E-05	7.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	8.93E-05	2.12E-04	3.16E-05	-3.82E-04
EP-ter	mol N eq.	2.59E+00	7.94E-02	3.42E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-01	1.92E-01	7.35E-02	9.80E-02	-2.49E-01
POCP	kg NMV OC eq.	7.56E-01	2.39E-02	9.49E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-01	5.62E-02	2.07E-02	2.87E-02	-6.29E-02
ADPE	kg Sb eq.	1.87E-04	8.00E-06	7.40E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06	1.60E-05	4.59E-06	3.11E-06	-1.61E-04
ADPF	MJ, net calorific value	2.02E+03	6.75E+01	1.39E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+02	1.35E+02	7.65E+01	7.94E+01	-1.61E+02
WDP	m³ w orld eq. deprived	7.69E+01	4.98E-01	-1.36E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-01	1.17E+00	1.07E+00	3.84E+00	-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	8.17E+01	1.95E+00	5.86E+00	0.00E+00	7.59E-01	4.93E+00	8.36E+00	2.06E+00	-1.32E+01						
PERM	MJ, net calorific value	0.00E+00														
PERT	MJ, net calorific value	8.17E+01	1.95E+00	5.86E+00	0.00E+00	7.59E-01	4.93E+00	8.36E+00	2.06E+00	-1.32E+01						
PENRE	MJ, net calorific value	2.04E+03	6.75E+01	1.39E+02	0.00E+00	1.30E+02	1.35E+02	7.65E+01	7.94E+01	-1.61E+02						
PENRM	MJ, net calorific value	0.00E+00														
PENRT	MJ, net calorific value	2.04E+03	6.75E+01	1.39E+02	0.00E+00	1.30E+02	1.35E+02	7.65E+01	7.94E+01	-1.61E+02						
SM	kg	3.69E+02	0.00E+00	3.69E+00	0.00E+00											
RSF	MJ, net calorific value	4.63E+00	0.00E+00	4.63E-02	0.00E+00											
NRSF	MJ, net calorific value	7.69E+01	0.00E+00	7.69E-01	0.00E+00											
NFW	m³	1.91E+00	1.49E-02	1.15E-01	0.00E+00	1.99E-02	3.61E-02	4.35E-02	8.94E-02	-6.54E-01						

EPD Registration Number S-P-10202-4

Additional environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	1.00E-05	3.95E-07	1.71E-06	0.00E+00	2.45E-06	8.43E-07	3.52E-07	5.10E-07	-1.17E-06						
IRP	kBq U235 eq.	4.64E+03	3.56E+02	5.97E+02	0.00E+00	6.08E+02	7.73E+02	8.21E+02	3.67E+02	-1.32E+03						
ETP	CTUe	7.96E+02	1.43E+01	1.18E+01	0.00E+00	1.76E+00	2.37E+01	1.60E+00	1.50E+00	-6.82E+00						
HTPC	CTUh	7.96E+02	1.43E+01	1.18E+01	0.00E+00	6.36E-08	1.03E-07	6.37E-08	2.50E-08	-3.36E-07						
HTPNC	CTUh	1.86E-05	7.68E-07	9.78E-07	0.00E+00	2.46E-07	1.42E-06	2.93E-07	1.60E-07	-2.00E-06						
SQP	dimensionless	9.51E-07	2.74E-08	1.91E-07	0.00E+00	7.71E+00	2.20E+02	6.25E+01	1.48E+02	-2.11E+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														
NHWD	kg	9.82E-02	0.00E+00	5.16E+00	0.00E+00	5.16E+02	0.00E+00									
RWD	kg	0.00E+00														

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														
MFR	kg	0.00E+00	0.00E+00	1.84E+01	0.00E+00	1.84E+03	0.00E+00	0.00E+00								
MER	kg	0.00E+00														
EE	kg	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.	1.11E+02	0.00E+00	1.05E+00	-1.46E+00	0.00E+00	-1.58E+00	-3.80E+00	0.00E+00							
	kg CO ₂ eq.	5.78E-03	0.00E+00	5.78E-05	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.	6.51E+00	0.00E+00	6.51E-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 identification	HySustain - High Performance/Low Carbon - 65 MPa
EPD Registration Number	S-P-10202-5
Production site(s)	Brisbane, Sunshine Coast & Gold Coast
Compressive strength	65
Density	2359.7 kg/m³
Reference service life	50 Years
Recycling rate at eol	78%
Declared unit	1 m3
Scope	A1-A3 + A4-A5 + B1-B7 + C1-C4 + D, cradle-to-grave
Methodology	GCCA's Industry EPD Tool for Cement and Concrete (V4.0), International version

EPD Registration Number S-P-10202-5

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.	3.22E+02	4.29E+00	1.19E+01	-1.64E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	9.04E+00	4.51E+00	-1.40E+00	-1.41E+01
GWP-tot	kg CO₂ eq.	3.22E+02	4.29E+00	1.19E+01	-1.64E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	9.04E+00	4.51E+00	-1.40E+00	-1.41E+01
GWP-fos	kg CO ₂ eq.	4.00E+02	1.12E+00	1.26E+01	-7.57E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	8.95E+00	3.56E+00	-3.50E+00	-1.39E+01
GWP-bio	kg CO ₂ eq.	8.41E-02	4.39E-04	4.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-03	6.40E-03	1.91E-02	1.87E-03	-5.61E-02
GWP-luc	kg CO ₂ eq.	6.18E-02	3.79E-04	3.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-03	5.20E-03	1.46E-02	1.52E-03	-2.43E-02
ODP	kg CFC 11 eq.	1.05E-05	8.16E-07	1.34E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-06	1.52E-06	3.72E-07	9.28E-07	-9.58E-07
AP	mol H+ eq.	1.46E+00	2.22E-02	9.80E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-02	5.45E-02	3.94E-02	2.73E-02	-9.95E-02
EP-fw	kg Peq.	7.07E-02	3.19E-04	2.46E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	1.21E-03	3.06E-03	3.34E-04	-5.88E-03
EP-mar	kg N eq.	4.60E-03	2.78E-05	7.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-05	8.92E-05	2.12E-04	3.15E-05	-3.81E-04
EP-ter	mol N eq.	2.91E+00	7.93E-02	3.45E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.44E-01	1.92E-01	7.34E-02	9.78E-02	-2.48E-01
POCP	kg NMVOC eq.	8.33E-01	2.39E-02	9.57E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-01	5.62E-02	2.07E-02	2.87E-02	-6.28E-02
ADPE	kg Sb eq.	1.90E-04	7.99E-06	7.42E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-06	1.59E-05	4.58E-06	3.10E-06	-1.60E-04
ADPF	MJ, net calorific value	2.24E+03	6.74E+01	1.41E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E+02	1.35E+02	7.64E+01	7.93E+01	-1.61E+02
WDP	m³ w orld eq. deprived	7.67E+01	4.97E-01	-1.36E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-01	1.17E+00	1.07E+00	3.83E+00	-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	8.84E+01	1.95E+00	5.93E+00	0.00E+00	7.59E-01	4.92E+00	8.35E+00	2.06E+00	-1.32E+01						
PERM	MJ, net calorific value	0.00E+00														
PERT	MJ, net calorific value	8.84E+01	1.95E+00	5.93E+00	0.00E+00	7.59E-01	4.92E+00	8.35E+00	2.06E+00	-1.32E+01						
PENRE	MJ, net calorific value	2.27E+03	6.74E+01	1.41E+02	0.00E+00	1.30E+02	1.35E+02	7.64E+01	7.93E+01	-1.61E+02						
PENRM	MJ, net calorific value	0.00E+00														
PENRT	MJ, net calorific value	2.27E+03	6.74E+01	1.41E+02	0.00E+00	1.30E+02	1.35E+02	7.64E+01	7.93E+01	-1.61E+02						
SM	kg	4.14E+02	0.00E+00	4.14E+00	0.00E+00											
RSF	MJ, net calorific value	5.17E+00	0.00E+00	5.17E-02	0.00E+00											
NRSF	MJ, net calorific value	8.61E+01	0.00E+00	8.61E-01	0.00E+00											
NFW	m³	1.91E+00	1.49E-02	1.15E-01	0.00E+00	1.99E-02	3.60E-02	4.34E-02	8.93E-02	-6.53E-01						

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Additional environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	1.10E-05	3.95E-07	1.73E-06	0.00E+00	2.45E-06	8.42E-07	3.52E-07	5.09E-07	-1.17E-06						
IRP	kBq U235 eq.	4.91E+03	3.55E+02	6.00E+02	0.00E+00	6.08E+02	7.72E+02	8.20E+02	3.66E+02	-1.32E+03						
ETP	CTUe	8.87E+02	1.42E+01	1.27E+01	0.00E+00	1.76E+00	2.36E+01	1.60E+00	1.50E+00	-6.81E+00						
HTPC	CTUh	8.87E+02	1.42E+01	1.27E+01	0.00E+00	6.36E-08	1.03E-07	6.36E-08	2.49E-08	-3.36E-07						
HTPNC	CTUh	2.06E-05	7.67E-07	9.98E-07	0.00E+00	2.46E-07	1.42E-06	2.93E-07	1.60E-07	-2.00E-06						
SQP	dimensionless	1.02E-06	2.74E-08	1.92E-07	0.00E+00	7.71E+00	2.20E+02	6.24E+01	1.48E+02	-2.11E+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														
NHWD	kg	1.10E-01	0.00E+00	5.16E+00	0.00E+00	5.16E+02	0.00E+00									
RWD	kg	0.00E+00														

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														
MFR	kg	0.00E+00	0.00E+00	1.84E+01	0.00E+00	1.84E+03	0.00E+00	0.00E+00								
MER	kg	0.00E+00														
EE	kg	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.	1.25E+02	0.00E+00	1.17E+00	-1.64E+00	0.00E+00	-1.76E+00	-4.25E+00	0.00E+00							
CWRS	kg CO ₂ eq.	6.47E-03	0.00E+00	6.47E-05	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.	7.29E+00	0.00E+00	7.29E-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



References

Programme Information

	Hymix Australia Pty Ltd	00										
EPD OWNER	L10, 35 Clarence St, Sydney NSW 2000);; Hymix										
	Phone: 1300 136 464											
	Online: hymix.com.au											
	EPD Australasia Limited, 315a Hardy St, Nelson 7010 New Zealand	EDD ®										
PROGRAM OPERATOR	Online: epd-australasia.com	AUSTRALASIA EPD®										
	Email: info@epd-Australasia.com											
	Katherine McFeaters	Kathonia athreters										
	Epsten Group, Inc.	parous university										
PROCESS EPD CERTIFIED BY	101 Marietta St. NW, Suite 2600, Atlanta, Georgia 30303, USA	epsten group										
	www.epstengroup.com	Product										
	Accredited by: A2LA, Certificate #3142.03	Declaration										
DDODUCT CATEGODY DULLEG	CEN standard EN 15804:A2 (PCR 2019:14 Construction Products, Version 1.2.5) served as the core PCR.											
PRODUCT CATEGORY RULES	Environdec c-PCR-003 Concrete, concrete elements	s (EN 16757:2017) served as sub-PCR.										
EN 45004 DOD DEVIEW	The Technical Committee of the International EP	D®System. Chair: Claudia A. Peña.										
EN 15804 PCR REVIEW	The review panel may be contacted vi	a info@environdec.com.										
EPD REGISTRATION NUMBER	S-P-10202											
INDEPENDENT VERIFICATION OF THE	☑EPD process certification											
DECLARATION AND DATA, ACCCORDING TO ISO 14025:	□EPD verification											
VALID FROM	2023-10-27											
VALID TO	2028-10-27											
VERSION	1.0											
DESCRIPTION OF VERSION DIFFERENCES (IF NOT												
VERSION 1.0)												
GEOGRAPHICAL SCOPE	Brisbane, Sunshine Coast & 0	Gold Coast, QLD										
	EPDs within the same product category but from different programmes may not be comp											
IMPORTANT NOTES	comply with EN 15											
	The EPD Owner maintains full ownership, liabi											
PRODUCT GROUP CLASSIFICATION	UN CPC 88 - Concrete, cement and plaster	•										
ANZSIC CLASSIFICATION	2033 Ready Mix Concrete Manufacturing											



References

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Thank you

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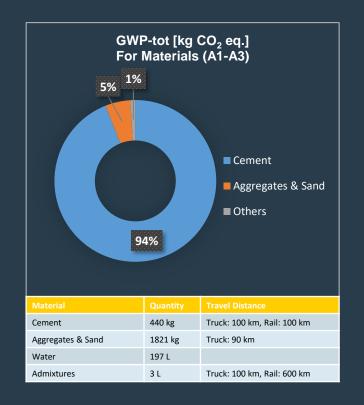
Appendix CO₂ Baseline (simulated)

CO₂ Baseline(simulated): 40 MPa

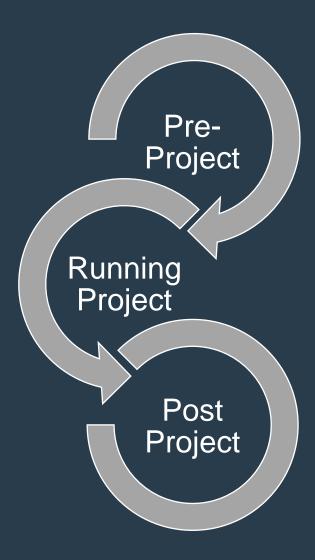
- Due to the lack of an industry wide CO₂ baseline, we simulated our own baseline mixes:
 - Based on the Green Star Mat–4 Concrete Credit User Guide (2012)
 - Cement reference values were added to the GCCA concrete EPD tool
 - Default values (Australia specific)
 - The background information (incl. assumptions, generic mix designs) can be downloaded here: https://hanson.com.au/background-gs-benchmarks.zip

CONTRIBUTION OF EACH LIFE-CYCLE STAGE GWP-tot [kg ${ m CO_2}$ eq.]





Appendix CO₂ Baseline (simulated)



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 Hanson, 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).