Hymix

Environmental Product Declaration

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

Western Precast
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AUSTRALASIA EPD®

ECO PLATFORM EPD VERIFIED

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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.

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.

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.

Hymix has introduced 'HyGreen' – a range designed to assist you in choosing products with lower environmental impacts. The range employs high levels of supplementary cementitious material as a replacement for ordinary Portland cement.

Covering a broad range of applications, the products can be supplied from most of our operations in Queensland and New South Wales. Planning to utilize HyGreen from the outset can significantly reduce the total environmental impact of your project while not compromising on quality.

For further information, go to our website or call us on 1300 049 649.

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.

The main data categories include:

- The average BOM for the concrete mix selected in the range of concrete plants specified including their average raw material travel distance;
- 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

- All modelling assumptions adopted from the GCCA Tool.
- Raw material (inbound) transport distances is the previous year's travel distance average weighted according to deliveries across operations.
- For generic EPDs (i.e. not created for projects), travel from concrete production site to customer site is calculated is the previous year's travel distance average weighted according to deliveries across operations.
- 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 full geographic region of study.
- Grid purchased electricity source is based on the specific state's energy mix excluding imports.
- Travel for materials sources internationally included from shipping origin.

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	15%	23%
Supplementary Cementitious Materials	3%	8%
Aggregates	65%	74%
Water	3%	7%
Admixtures	0%	<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.

Packaging

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

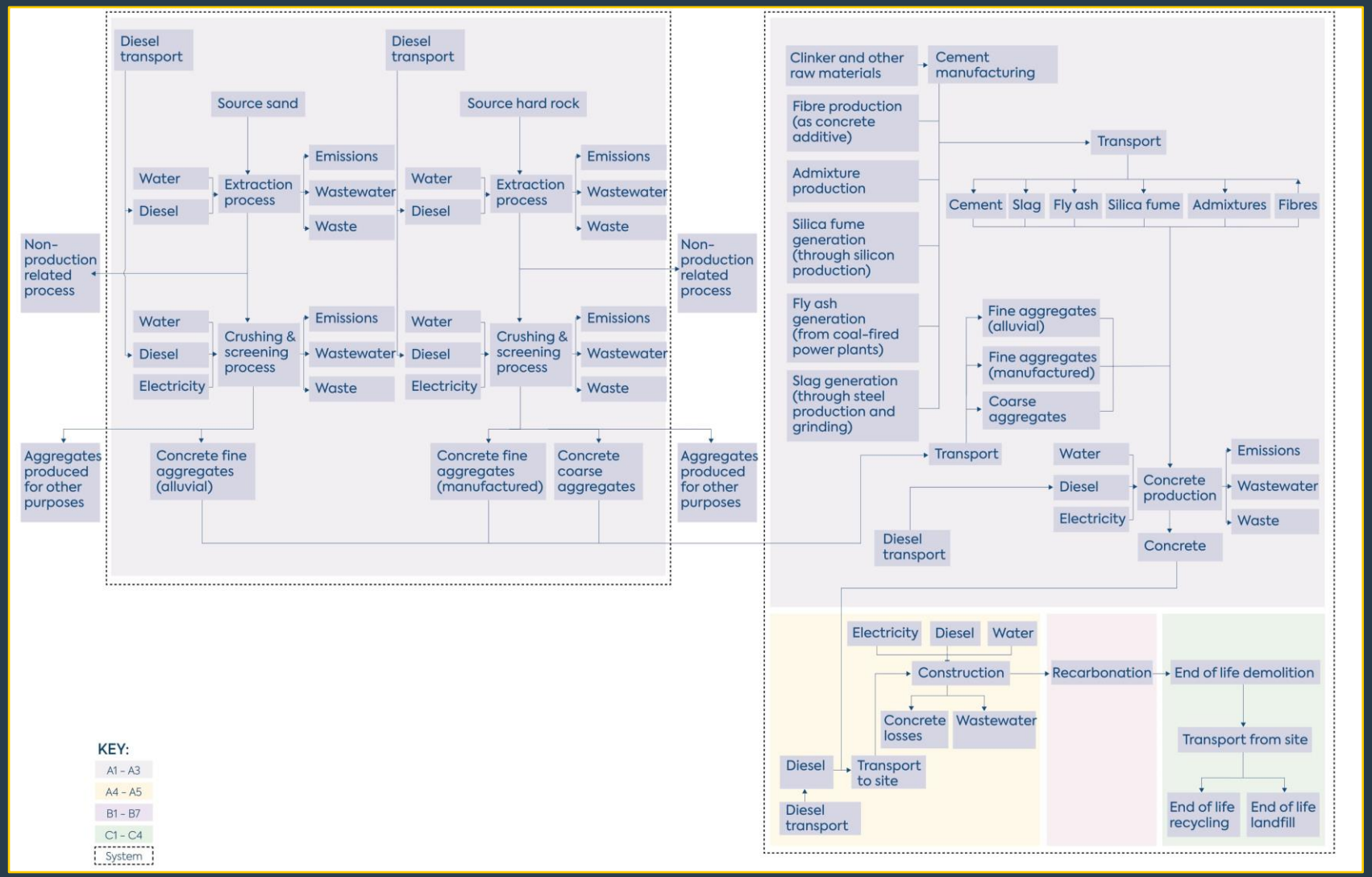
In Accordance with Environdec c-PCR-003 Concrete, concrete elements (EN 16757), ISO 14025 and EN15804:A2

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
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D1
✓	✓	✓	✓	✓	✓	N/A	N/A	N/A	N/A	N/A	N/A	✓	✓	✓	✓	✓

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. These have been marked NA (not applicable).

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.



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. No exclusion is made for anything relevant to the outcome of the product.

Hymix EPD | Product Data Sources

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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. Actual travel distances between source and operation.	High, Primary
A1-3 Materials	Allocation Factor (for secondary co products e.g. Slag, Fly Ash)	Slag: AusLCI Fly Ash & Silica fume: no allocation as they are industrial by-products.	Upon EPD creation (latest information available)	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	https://opennem.org.au; Australian Energy Market Operator.	Full year prior data, percentages	Secondary, High
A1-3 Waste Management	Waste and waste water	ERP report 4 Waste Production, actual invoiced data with allocation estimation based on process flows.	Full prior year data, average per metre. Estimation based on expenditure.	Secondary, Medium
A4-5 Construction	Outbound Travel	ERP report 5. Outbound travel drawing from actual deliveries from operations to customer sites. Where data not available, travel calculated based on Google Maps.	Full prior year data, average per delivery	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 (eg. For National Waste Report 2020 page 38) https://www.environment.gov.au/protection/ waste/publications/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 (eg. For National Waste Report 2020 page 38) https://www.environment.gov.au/protection/ waste/publications/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. 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.	As updated	Secondary, High

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 tool does not include the input or calculation of the biogenic carbon content of the product or packaging. Yet, the PCR requires that the latter should be reported in an EPD. It is mandatory when the biogenic carbon content exceeds 5% wt. (product or packaging). The latter are calculated as the quantity of biogenic carbon in the product (resp. in the packaging) per declared unit multiplied by 44/12, reported in kg CO2 per declared unit. The removals and emissions associated with biogenic carbon content of i) the product and ii) the packaging are not calculated and therefore not reported in the tool. The latter 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 GWP-GHG indicator is not calculated and therefore not reported in the present EPD. Given the statement above, the GWP-GHG indicator can be assimilated to 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-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, fraction of nutrients reaching freshwater end compartment) • **EP-fw*** (Eutrophication potential, fraction of nutrients reaching freshwater end compartment*) • **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 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	**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)

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Product identification	**Mix A: Precast 40 MPa - 25% Indicative Cement Replacement - Fly Ash**
Production site(s)	Sydney
Compressive strength	40
Density	2402.9 kg/m³
Reference service life	50 Years
Recycling rate at eol	82%
DECLARED UNIT	82%
Scope	A1-A3 + A4-A5 + B1-B7 + C1-C4 + D, cradle-to-grave
Methodology	GCCA's Industry EPD Tool for Cement and Concrete (V3.0), International version
Date of issue	2021

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Core environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-tot	kg CO_2 eq.	3.36E+02	2.11E+00	1.19E+01	-8.53E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	8.15E+00	2.92E+00	-3.89E+00	-1.33E+01
GWP-fos	kg CO_2 eq.	3.36E+02	2.10E+00	1.19E+01	-8.53E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E+00	8.14E+00	2.89E+00	-3.89E+00	-1.33E+01
GWP-bio	kg CO_2 eq.	5.71E-02	8.24E-04	4.44E-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	5.82E-03	1.83E-02	1.39E-03	-5.36E-02
GWP-luc	kg CO_2 eq.	4.97E-02	7.12E-04	3.50E-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	4.73E-03	1.39E-02	1.13E-03	-2.32E-02
ODP	kg CFC 11 eq.	9.19E-06	4.01E-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	1.37E-06	3.52E-07	6.85E-07	-9.08E-07
AP	mol H+ eq.	1.49E+00	1.09E-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	4.92E-02	3.73E-02	2.01E-02	-9.43E-02
EP-fw	kg PO_4 eq.	1.98E-01	4.81E-04	7.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	3.34E-03	8.89E-03	7.55E-04	-1.71E-02
EP-fw*	kg P eq.	1.98E-01	4.81E-04	7.32E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03	3.34E-03	8.89E-03	7.55E-04	-1.71E-02
EP-mar	kg N eq.	4.15E-03	1.36E-05	7.06E-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	8.04E-05	2.01E-04	2.33E-05	-3.61E-04
EP-ter	mol N eq.	3.07E+00	3.90E-02	3.46E-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	1.73E-01	6.96E-02	7.22E-02	-2.35E-01
POCP	kg NMVOC eq.	8.23E-01	1.17E-02	9.53E-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	5.07E-02	1.96E-02	2.12E-02	-5.96E-02
ADPE	kg Sb eq.	1.48E-04	3.93E-06	6.94E-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	1.44E-05	4.34E-06	2.29E-06	-1.52E-04
ADPF	MJ, net calorific value	1.99E+03	3.24E+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	1.29E+02	1.17E+02	6.09E+01	5.76E+01	-1.36E+02
WDP	m^3 world eq. deprived	1.21E+02	2.44E-01	-9.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-01	1.05E+00	1.02E+00	2.83E+00	-2.59E+01

Additional environmental impact indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	1.04E-05	1.94E-07	1.71E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-06	7.59E-07	3.33E-07	3.76E-07	-1.11E-06
IRP	kBq U235 eq.	5.06E+03	1.75E+02	5.97E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.08E+02	6.96E+02	7.77E+02	2.70E+02	-1.25E+03
ETP	CTUe	8.27E+01	7.00E+00	4.53E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E+00	2.13E+01	1.52E+00	1.10E+00	-6.45E+00
HTPC	CTUh	9.54E-07	1.35E-08	1.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.36E-08	9.25E-08	6.03E-08	1.84E-08	-3.18E-07
HTPNC	CTUh	2.05E-05	3.77E-07	9.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-07	1.28E-06	2.77E-07	1.18E-07	-1.90E-06
SQP	dimensionless	1.08E+03	5.89E+01	3.96E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.71E+00	1.98E+02	5.92E+01	1.09E+02	-2.00E+02

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	7.11E+01	9.59E-01	5.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-01	4.44E+00	7.91E+00	1.52E+00	-1.25E+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	7.11E+01	9.59E-01	5.73E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.59E-01	4.44E+00	7.91E+00	1.52E+00	-1.25E+01
PENRE	MJ, net calorific value	2.14E+03	3.45E+01	1.47E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E+02	1.27E+02	7.71E+01	6.22E+01	-1.63E+02
PENRM	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
PENRT	MJ, net calorific value	2.14E+03	3.45E+01	1.47E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E+02	1.27E+02	7.71E+01	6.22E+01	-1.63E+02
SM	kg	3.11E+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	0.00E+00	0.00E+00
RSF	MJ, net calorific value	1.05E+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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ, net calorific value	1.17E+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	0.00E+00	0.00E+00
NFW	m^3	2.94E+00	7.31E-03	1.25E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-02	3.25E-02	4.12E-02	6.59E-02	-6.19E-01

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	9.02E+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
RWD	kg	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0	0	0.00E+00	0.00E+00	0

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	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
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

Extra indicators

		A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
CC	kg CO_2 eq.	1.45E+02	0.00E+00	1.27E+00	-8.53E+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	-3.03E+00	-5.99E+00	0.00E+00
CWRS	kg CO_2 eq.	1.31E-02	0.00E+00	1.31E-04	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.	1.07E+01	0.00E+00	1.07E-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	0.00E+00	0.00E+00	0.00E+00

EPD OWNER	Hymix Australia Pty Ltd L10, 35 Clarence St, Sydney NSW 2000 Phone: 1300 136 464 Online: hymix.com.au	Hymix
PROGRAM OPERATOR	EPD Australasia Limited, 315a Hardy St, Nelson 7010 New Zealand Online: epd-australasia.com Email: info@epd-Australasia.com	EPD® AUSTRALASIA
PROCESS EPD CERTIFIED BY	Katherine McFeaters Epsten Group, Inc. 101 Marietta St. NW, Suite 2600, Atlanta, Georgia 30303, USA www.epstengroup.com Accredited by: A2LA, Certificate #3142.03	Katherine McFeaters epstengroup Environmental Product Declaration
PRODUCT CATEGORY RULES	CEN standard EN 15804:A2 (PCR 2019:14 Construction Products, Version 1.11) served as the core PCR. Environdec c-PCR-003 Concrete, concrete elements (EN 16757:2017) served as sub-PCR.	
EN 15804 PCR REVIEW	The Technical Committee of the International EPD®System. Chair: Claudia A. Peña. The review panel may be contacted via info@environdec.com.	
EPD REGISTRATION NUMBER	*S-P-05485*	
INDEPENDENT VERIFICATION OF THE DECLARTION AND DATA, ACCCORDING TO ISO 14025:	☒EPD process certification ❑EPD verification	
VALID FROM	2022-06-17	
VALID TO	2027-06-17	
VERSION	1.0	
DESCRIPTION OF VERSION DIFFERENCES (IF NOT VERSION 1.0)		
GEOGRAPHICAL SCOPE	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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