

BRICKWORKS

Grey Blocks from Austral Masonry Rockhampton, Queensland

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021



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EPD of concrete grey blocks from a single manufacturing site. An EPD 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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Disclaimer

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

General Information

An Environmental Product Declaration (EPD) is a standardised way of quantifying the potential environmental impacts of a product or system. EPDs are produced according to a consistent set of rules – Product Category Rules (PCR) – that define the requirements within a given product category. These rules are a key part of ISO 14025 as they enable transparency and comparability between EPDs.

This EPD is a “cradle-to-gate with modules C1-C4, D” declaration covering production and end-of-life life cycle stages.

Brickworks Ltd, as the EPD owner, has the sole ownership, liability, and responsibility for the EPD.

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CEN standard EN 15804 served as the core Product Category Rules (PCR)

<p>PCR:</p>	<p>PCR 2019:14 Construction Products, Version 2.0.1, 2025-06-05 (valid until 2030-04-07) c-PCR-003 Concrete and concrete elements (EN 16757:2022), Product category rules for concrete and concrete elements, version 2025-04-08</p>	
<p>PCR review was conducted by:</p>	<p>The Technical Committee of the International EPD System. See www.environdec.com for a list of members.</p> <p>Most recent review chair: Rob Rouwette start2see (chair), Noa Meron thinkstep-anz (co-chair). The review panel may be contacted via the Secretariat www.environdec.com/contact.</p>	
<p>Independent third-party verification of the declaration and data, according to ISO 14025:</p>	<p><input checked="" type="checkbox"/> Individual EPD verification without a pre-verified LCA/EPD tool</p>	
<p>Third party verifier: Approved by EPD Australasia Ltd</p>	<p>Sazal Kundu, Edge Impact Address: Greenhouse, Level 3 180 George Street, Sydney NSW 2000, Australia Web: https://www.edgeimpact.global/ Phone: +61 2 9438 0100 Email: sazal.kundu@edgeimpact.global</p>	
<p>Procedure for follow-up of data during EPD validity involves third party verifier</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	



Information about EPD owner

Brickworks is one of Australia's largest and most diverse building material manufacturers.

Brickworks has been transformed from originally a NSW state-based operation to an International organisation with manufacturing operations in New South Wales, Victoria, Tasmania, South Australia, Queensland and North America.

Austral Masonry is a subsidiary of Brickworks that manufactures and sells Australian made concrete blocks, retaining wall blocks, concrete sleepers and concrete pavers.

Concrete blocks are used in residential and commercial construction. By mixing sands, aggregate and cement we produce grey blocks in a vast range of sizes and formats.

Concrete retaining wall blocks, concrete sleepers and concrete pavers are used in DIY and professionally installed applications to create landscape designs.

This EPD covers all grey blocks produced at our Rockhampton Queensland location which manufactures under the Austral Masonry brand.

Owner of the EPD: Brickworks Limited
Contact: info@brickworks.com.au

Declaration Owner

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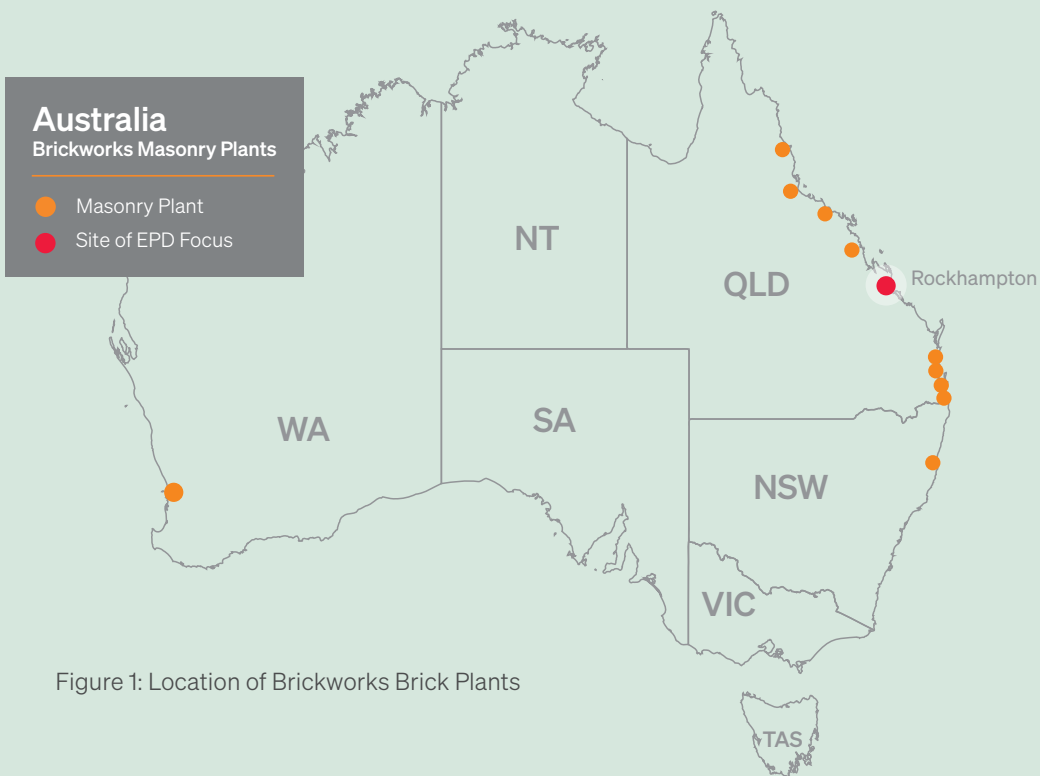


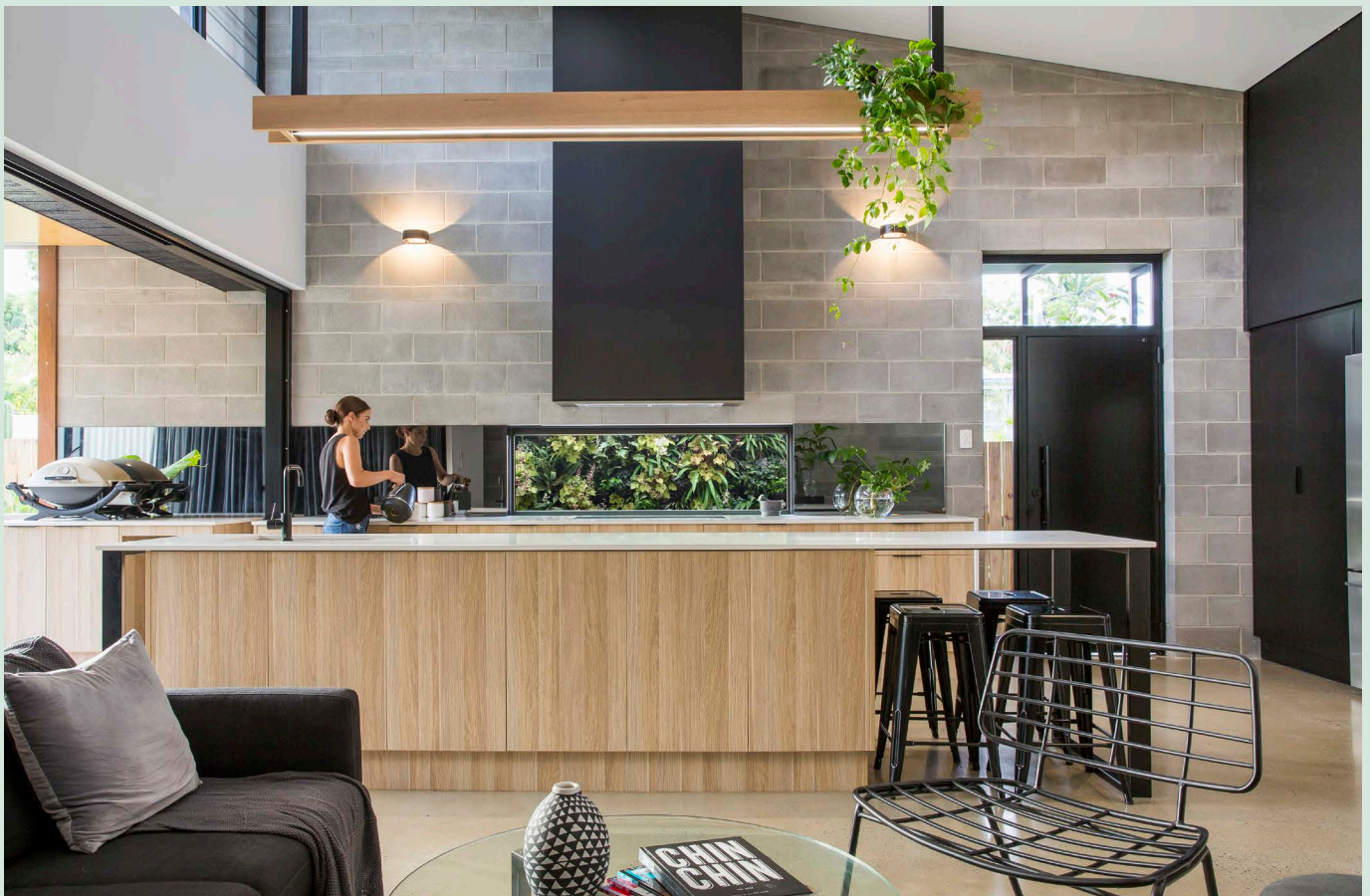
Figure 1: Location of Brickworks Brick Plants

Product Information

The life cycle of grey concrete blocks starts with extraction of sand, gravel and cement from quarries and mines. The processed materials are then mixed and molded into the desired block shapes in a manufacturing plant.

Grey blocks are typically used in the construction of walling systems, planter boxes, and retaining walls.

This EPD covers the grey concrete blocks produced at our Rockhampton Queensland plant under the Austral Masonry brand.



Grey Block Range

Grey Block Range (Standard)	Description	Size L x W x H (mm)
100 Series	10.01 Full	390Lx90Wx190H
	10.02 Three Quarter	290Lx90Wx190H
	10.03 Half	190Lx90Wx190H
	10.25 Corner	390Lx190Wx190H
	10.71 Half Height	1390Lx90Wx90H
150 Series	15.01 Full	390Lx140Wx190H
	15.02 Three Quarter	290Lx140Wx190H
	15.03 Half	190Lx140Wx190H
	15.12 Lintel	390Lx140Wx190H
	15.20 Knockout/Bond Beam	390Lx140Wx190H
	15.22 7/8 Closure	340Lx140Wx190H
	15.25 Corner	390Lx140Wx190H
	15.48 H Block	390Lx140Wx190H
	15.738 Universal Sill	210Lx100Wx110H
	15.739 45 Degree Squint	290Lx140Wx190H
	15.73 Half Height Half	190Lx140Wx90H
	15.71 Half Height	390Lx140Wx90H
	15.81 Half Corner	390Lx140Wx90H
	15.934	390Lx190Wx140
200 Series	20.01 Full	390Lx190Wx190H
	20.02 Three Quarter	290Lx190Wx190H
	20.03 Half	190Lx190Wx190H
	20.04 Quarter	90Lx90Wx190H
	20.12 Lintel	390Lx190Wx190H
	20.13 Half Lintel	190Lx190Wx190H
	20.16 Single Core Lintel	390Lx190Wx190H

Grey Block Range

Grey Block Range (Standard)	Description	Size L x W x H (mm)
	20.18 Deep Lintel	190Lx190Wx390H
	20.19 ¾ Lintel	190Lx190Wx290H
	20.20 Bond Beam	390Lx190Wx190H
	20.21 Corner Bond Beam	390Lx190Wx190H
	20.31 Solid	390Lx190Wx190H
	20.42 Recessed Web	390Lx190Wx190H
	20.48 H Block	390Lx190Wx190H
200 Series	20.60 Engaged Pier	300Lx360Wx190H
	20.61 C Block	390Lx190Wx190H
	20.739 45 Degree Squint	200Lx190Wx190H
	20.925 Single Core	390Lx190Wx190H
	50.31 Capping Unit	390Lx190Wx40H
	20.71 Half Height Hollow	390Lx190Wx90H
	20.73 Half Height Half	190Lx190Wx90H
	20.749 45 Squint Half	390Lx190Wx90H
	30.01 Full	390Lx290Wx190H
	30.02 Three Quarter	290Lx290Wx190H
	30.04 Quarter	90Lx290Wx190H
300 Series	30.20 Knockout	390Lx290Wx190H
	30.48 H Block	390Lx290Wx190H
	30.925 Single Core	390Lx290Wx190H
	Half Height Three Quarter	290Lx290Wx90H
400 Series	40.925 Full	390Lx390Wx190H

Technical Compliance

Austral Masonry concrete masonry block products are manufactured to Australian Standard AS/NZS 4455.1:2008 Masonry Units (SA 2008).

Product quality testing is performed in accordance with AS/NZS 4456:2003 Masonry units, segmental pavers and flags - Methods of Test (SA 2003)

Further details on product use and design for different applications can be found on Austral Masonry's website and more specifically their masonry paver product page and product information page¹.

Concrete masonry products are classified under:

- UN CPC 37510 - Non-refractory mortars and concretes
- ANZSIC 2034 - Concrete product manufacturing.

Geographical Scope

The processes in modules A1-A3 have been modelled to represent concrete paver production in Rockhampton, Queensland Australia. The raw materials are sourced from within Australia, and the end-of-life (module C) of the product has been modelled to represent disposal in Australia as well.

¹ <https://www.brickworks.com.au/products/#clay-bricks-and-pavers>

Content Declaration

Concrete masonry blocks may have unique characteristics such as shape, colour and dimensions, but in essence, all masonry products are made with the same set of ingredients. The concrete constituents that are used (in various combinations) are shown in the table below:

The products included in this EPD do not contain any substances that are listed in the “Candidate List of Substances of Very High Concern (SVHC) for authorisation” (ECHA 2024) in concentrations exceeding 0.1% of the weight of the product.

Table 1: Product content declaration for Austral Masonry grey concrete masonry block products produced at Rockhampton

Product component	Weight (kg/t of masonry)	Post-consumer recycled material, weight % of product	Biogenic material, weight % of product	Biogenic material (kgC/t of masonry)
GP CEMENT	90-120	0%	0%	0
NATURAL SAND	400-500	0%	0%	0
MANUFACTURED SAND	200-250	0%	0%	0
BOTTOM ASH	200-250	0%	0%	0
ADMIXTURES	0-2	0%	0%	0
OXIDES	0-9	0%	0%	0
TOTAL	1000	0%	0%	0

Our products may contain recycled content, however, in line with reporting requirements outlined in the PCR, the above table will indicate 0% post-consumer recycled material where we cannot guarantee whether the origin of recycled material is pre-consumer or post-consumer.

Packaging materials

Masonry blocks are stacked and held together using plastic (polyester or polypropylene) strapping bands. The amount of strapping is estimated to be less than 0.05% of total product mass and have been excluded from the results of this EPD.



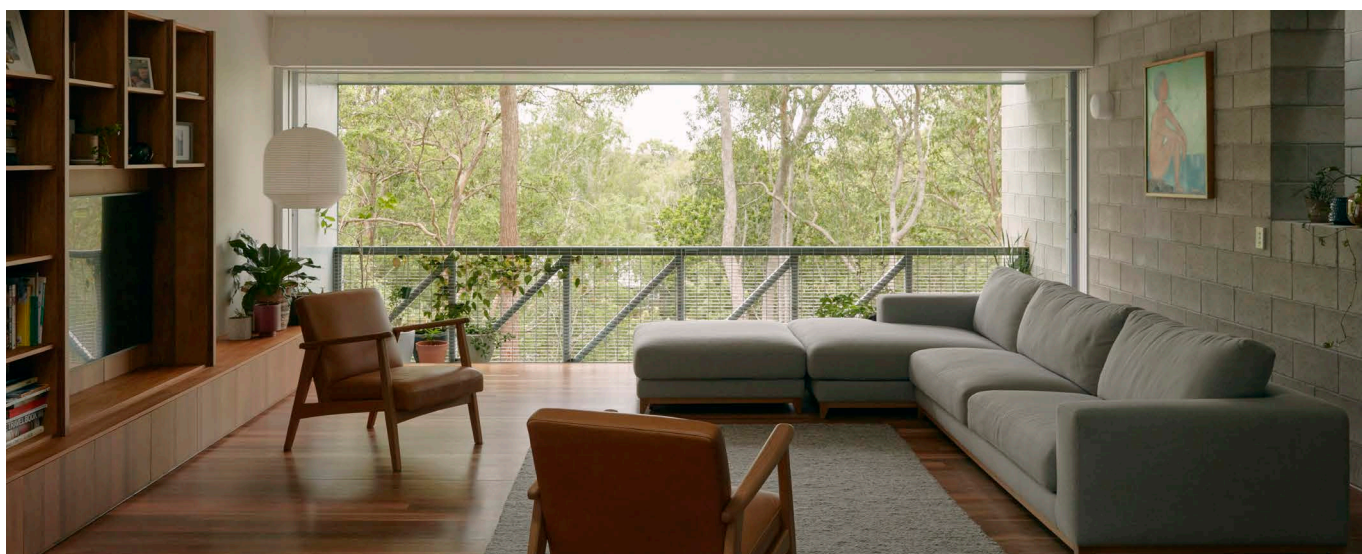
LCA Information

Declared Unit

Concrete masonry blocks are available in various shapes and sizes that are specifically designed for different styles and applications. The declared unit that covers all the permutations within the scope of the products included in this EPD is:

1 000 kg of concrete paver products.

A reference service life (RSL) is not declared, as the EPD does not cover the full life cycle.



Product Life Cycle

The EPD covers the cradle-to-gate with modules C1–C4 and module D (A1–A3, C and D) life cycle stages. Intermediate life cycle stages (Modules A4, A5 and B1–B7) have not been included as these are better defined at building or structure level.

Table 2: Scope of the EPD

Stages	Product stage			Construction stage		Use stage							End-of-life stage				Benefits beyond system boundary
	Raw Materials	Transport	Production	Transport	Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/Demolition	Transport	Waste Processing	Disposal	
Modules	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
	SCENARIO			SCENARIO		SCENARIO							SCENARIO				SCENARIO
Modules Declared	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
	✓	✓	✓	ND	ND	ND	ND	ND	ND	ND	ND	ND	✓	✓	✓	✓	✓
Geography	AU	AU	AU										AU	AU	AU	AU	AU
Share of primary data	98%																
Variation products	0% (N/A)																
Variation sites	0% (N/A)																

- ✓ = module is included in this study
- ND = module is not declared. When a module is not accounted for, the stage is marked with “ND” (Not Declared). ND is used when we cannot define a typical scenario.

Product Stages (A1-A3)

Stage A1 – raw material extraction

Concrete masonry products are typically made using cement, fine and coarse aggregates and (if required) water. Admixtures and oxides may be used to achieve desired material properties and colours.

Stage A2 – transportation

Raw materials are typically transported to Austral Masonry facilities via articulated trucks (with distances varying for each facility). Cement is sourced from Gladstone.

The impact of transportation is determined from the specific supply sources to Austral Masonry's plants. It is noted that for admixtures, the supplier location which is known is the location that is used in the analysis.

Internal transport occurring within Austral Masonry's core process is included in stage A3, as fuel use cannot always be separated from other core processes.

Stage A3 – manufacturing

The manufacturing process of Austral Masonry's concrete blocks starts by dosing and mixing the concrete constituents in exact formulations (concrete mix designs). The mix is fed into block moulds and compacted. Our facilities use electricity and diesel in this process. When the concrete has developed enough strength, the mould is removed, cleaned and reused. Finally, the products are tested and stockpiled.

End-of-life stage (C1-C4)

The end-of-life modules for concrete masonry are based on a generic scenario. The scenario included is currently in use and is representative for one of the most probable alternatives.

Module C1 covers demolition of the concrete masonry at the end of its service life. We have used the Australian average end-of-life scenario representative for building & demolition materials products based on the National Waste Report 2022 (NWR 2022). This scenario implies

that 79.8% of the concrete is recycled and the remaining 20.2% of the concrete is sent to landfill.

Module C2 comprises the transport from the demolition site to a recycling centre or landfill site (50km). Module C3 encompasses the recycling process (i.e. crushing of concrete), while Module C4 represents disposal of concrete in a landfill site.

The concrete reaches end-of-waste status when it is crushed and stockpiled as "recycled crushed concrete" (RCC) aggregates.

Details for the end-of-life scenario have been captured in table 3 below.

Due to high uncertainty in the parameters and lack of data, CO₂-uptake (carbonation) has not been included in end-of-life.

Resource recovery stage (D)

Net benefits and loads from net flows leaving the product system beyond the system boundary that have passed the end-of-waste state (except those which have been allocated as co-products).

Benefits associated with the recycled concrete aggregates that have come out of module C for unreinforced concrete masonry:

- It is assumed that for every kg of concrete that is recycled, 1 kg of crushed rock production is avoided.
- Recycled aggregates: When products contain recycled aggregates (bottom ash, glass), these materials reduce the net flow of recycled materials going to module D.

Figure 2: Life cycle stages of Austral Masonry concrete

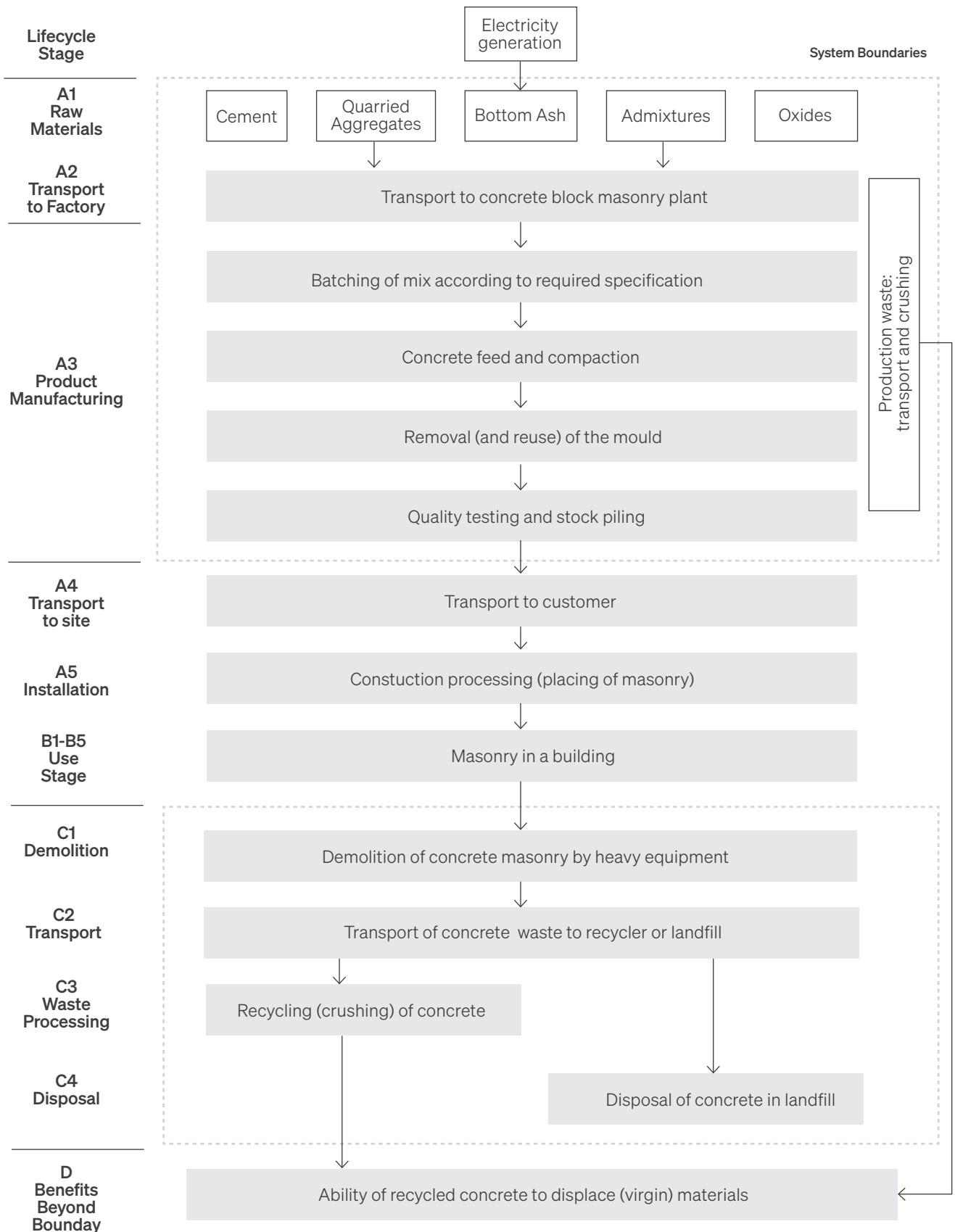


Table 3: End-of-life scenario of concrete masonry blocks, per tonne

Processes	Quantity	Unit
Collection process specified by type	1,000	kg collected separately
	0	kg collected with mixed construction waste
Transport from demolition site to recovery/ disposal sites	50	km transport (transport, truck, 16-28t, fleet average/AU U)
Recovery system specified by type	0	kg for re-use
	798	kg for recycling (recycling brick rubble and concrete, at plant/AU U)
	0	kg for energy recovery
Disposal to landfill	202	kg product or material for final deposition (disposal, concrete, 5% to inert material landfill/CH U/ AusSD U)
Assumptions for scenario development	61.7	MJ for demolition (diesel, burned in building machine/GLO U/AusSD U) The end-of-life scenario is based on the National Waste Report 2022 (NWR 2022); table 37 building & demolition materials, Australian av-erage

Table 4: Assumptions relating to Module D of unreinforced concrete masonry products

Parameter	Unit / effect
$M_{MR\ out} = 79.8\%$	Amount of concrete exiting the system that will be recycled in a subsequent system
$M_{MR\ in} = 24.6\%$	Amount of recycled input material (aggregates) in the concrete
$Y = 100\%$	The material yield, between point of end-of-waste (M-EoW) in modules A4-C4 and point of substitution (M-DoS) in module D (when the material has been upgraded).
$E_{MR\ after\ EoW\ out} = 0$ (n/a)	Specific emissions and resources consumed per unit of analysis arising from material recovery processes of a subsequent system after the end-of-waste state.
$E_{VMSub\ out} = \text{virgin materials}$	Specific emissions and resources consumed per unit of analysis arising from acquisition and pre-processing of the primary material, or average input material if primary material is not used, from the cradle to the point of functional equivalence where it would substitute secondary material that would be used in a subsequent system Virgin materials (concrete): coarse aggregates
$Q_{R\ out} / Q_{Sub} = 1$	Quality ratio between outgoing recovered material and the substituted material is assumed to be 1 (equal quality)

Table 5: Data quality assessment

Process	Source type	Source	Reference year	Data category	Share of primary data (GWP-GHG; A1-A3)
Manufacturing of concrete blocks	Collected data	EPD owner	2022	Primary data	2%
Generation of electricity used in manufacturing of concrete blocks	Database	AusLCI v1.42 (adjusted)	2025	Primary data	7%
Transport of raw materials to manufacturing site	Database	EPD owner	2024	Primary data	2%
Production of GP cement	EPD	Supplier EPD	2023	Primary data	87%
Production of sand and aggregates	Database	AusLCI v1.42	2023	Secondary data	0%
Production of admixtures	EPD	EFCA EPDs	2021	Proxy data	0%
Other	Database	AusLCI v1.42	2023	Secondary data	0%
Total share of primary data*, of GWP-GHG results for A1-A3					98%**

* The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.

** Totals may not add up due to rounding

The EPD covers concrete blocks from one plant in Rockhampton, Queensland, which provided energy, water and waste data for the concrete masonry plant for the period July 2021 - June 2022, as well as product compositions, raw materials, and supply chain details. The ingredients are mixed in the on-site batching plant, after which the wet concrete is fed into moulds and compacted. When the concrete has cured sufficiently, the moulds are removed for reuse. The EPD furthermore covers end-of-life in Australia (see Table 3). Background data was sourced from our supplier’s EPD (for cement) and the AusLCI v1.42 database. Data quality was assessed according to EN 15804:2012+A2:2019, Annex E (Table E.1 - UN Environment Global Guidance on LCA database development). The use of very poor and poor data is disclosed in Table 6, together with fair data with more than 30 % of impact.

Table 6: Data quality information

Data set	Criteria	Data quality level	Reason for level	Reason for using	Relevance
Production of admixtures	Technical	Very poor	Proxy data	Best available data	0-5% of all core impact indicators

Life Cycle Assessment Methodology

LCA methodology

A background LCA for Austral Masonry's concrete masonry products was conducted by Energetics and serves as the foundation for this EPD. The methodology for the LCA is detailed below.

Primary and Background Data

Austral Masonry supplied primary data for the FY22 (1 July 2021 – 30 June 2022) period. Primary data include production volumes at the Rockhampton plant, product compositions for all concrete mixes, type and quantity of concrete used for each product group, energy and water consumption and waste data. Austral Masonry also provided information regarding its upstream value chain (raw materials and supply chain logistics data). Data sets used for calculations have been reviewed and where relevant updated within the last 10 years for generic data and within the last 5 years for producer-specific data.

Background data have predominantly been sourced from AusLCI (v1.42) and the AusLCI shadow database (based on ecoinvent v2):

- Cement is known to be the key contributor to environmental impacts of most concrete products. GP cement used in Rockhampton facilities has been adjusted to reflect EPD data published by their supplier, for GP cement manufactured in Gladstone (QLD).
- Aggregate data are based on natural sand production or crushed rock production (for manufactured sand). Some of the sands we use are double-washed or triple-washed. Energetics doubled or tripled electricity use in the sand production process to account for the additional handling of the material. The effect on the LCA results is minimal.
- Data for admixtures have been sourced from EPDs published by EFCA in 2021 and 2023 (European Federation of Concrete Admixtures Associations Ltd.)

- We use various types of iron oxides to colour our products. AusLCI data for iron ore production have been used to model the impacts of the oxides.

Methodological choices have been applied in line with EN 15804 and any deviations have been recorded.

Data Quality Assessment

Allocation

The allocation hierarchy outlined in ISO 14044 and joint co-product allocation rules from EN 15804 have been followed.

The materials, products, and processes in the life cycle of concrete paver products that require allocation are:

- Coarse aggregates: coarse aggregates (and manufactured sand) are produced through crushing of rock, which is graded in different sizes. The process cannot be subdivided and energy required for the crushing and screening does not differentiate between products. Therefore, the background data used show aggregates (including manufactured sand) have been allocated based on the mass of product.
- Production of various concrete paver products: Austral Masonry manufactures a range of concrete paver products. Energy use for concrete paver production has been allocated to the products based on their share in the total mass of products.
- Landfill: landfill is a multi-input process. Physical causality has been used to allocate emissions in landfill.

Cut-off Criteria

All inputs and outputs to a process have been included where possible. The cut-off criteria applied are 1% of renewable and non-renewable primary energy usage and 1% of the total mass input of a process.

The materials and processes that have been excluded are:

- Greases and lubricants, other minor ancillary materials used during precast concrete products production
- Packaging of admixtures and oxides are also well below the cut-off:
 - o Admixtures make up less than 1% of the mass of the concrete pavers. Packaging of admixtures (IBCs) is estimated to make up less than 0.01% of total mass inputs and can be reused.
 - o Oxides make up less than 0.6% of the mass of the concrete pavers. Packaging of oxides (20 kg lined paper bags) is estimated to make up less than 0.01% of total mass inputs.
- Packaging of concrete pavers. Concrete pavers are stacked and held together using plastic (polyester or polypropylene) strapping bands. The amount of strapping is estimated to be less than 0.05% of total product mass.

The total (cumulative) of neglected input flows for the cradle-to-gate stages is well below 5% of energy usage and mass (the exact percentage has not been determined).

The environmental impacts incorporated in the infrastructure (buildings, plant, equipment, roads, vehicles, etc.) associated with manufacturing products is excluded from the product system. Other capital goods (e.g. transport equipment, power lines, etc.) are excluded as well. This is technically not a cut-off issue. Capital goods (production equipment and infrastructure) and personnel are non-attributable processes and they contribute less than 10% to GWP-GHG.

Overhead energy use (e.g. for offices) at Austral Masonry's manufacturing sites could not be distinguished from process energy use and is therefore included in the LCA. This represents a conservative approach.

Key assumptions

The following key assumptions have been made:

- Concrete composition: concrete composition of each product is taken from Austral Masonry's internal operating systems and is considered of high quality.

- Production waste: production waste tonnage is measured at the plant and an average production waste percentage has been incorporated across all products into the environmental profiles.
- Transport of raw materials to the plant: transport modes for raw materials where data was not provided has been estimated. This has no material impact on the LCA results.
- Cement data: the cement data have been taken from our supplier's EPD (S-P-05516; version 2). A minor discrepancy between ADPF and PENRT results in Rockhampton is due to this discrepancy coming through the cement data.
- A supplier EPD has been used to model the upstream data of cement. Although the EPD was completed based on an older version of the PCR, we expect that the impact of the PCR version on the cradle-to-gate LCA results of cement is limited. Importantly, any minor differences due to methodological updates in the PCR are preferable over larger differences that would stem from using generic background LCI data instead of the supplier EPD.
- Furthermore, generic EPDs published by EFCA have been used to model the upstream data of admixtures. These EPDs have been completed based on an older version of the PCR, but due to a lack of detailed data pertaining to admixtures, the EPDs are considered the best available data for use in the LCA.
- Admixtures: Austral Masonry has provided information on which admixtures they use for their concrete paver products. Due to lack of detail regarding admixture constituents and production data, European EPDs for admixtures (EFCA 2021) have been used.
- Oxides: Austral Masonry uses various iron oxides to colour concrete pavers. These have been modelled using iron ore production.
- Washed sand: Some of the sand supplied to Austral Masonry is double washed or triple washed sand. AusLCI data for natural sand production has been used and it has been assumed that the electricity used in the sand production process doubles or triples for double washed sand and triple washed sand, respectively. We assumed that washing water is recycled and have not adjusted water use data.

Electricity

Electricity in core processes has been modelled using adjusted AusLCI data to represent the estimated residual electricity grid mix in Queensland.

The GWP-GHG of the electricity is 0.92 kg CO₂e/ kWh. The residual grid mix is made up of Black coal (68.0%), natural gas (9.4%), solar (14.5%), wind (3.4%), hydro (1.9%), other (2.7%), based on Brown & Grant 2025.

Electricity used in upstream and downstream processes is typically modelled following a location-based approach.

LCA Indicators

An LCA serves as the foundation for this EPD. An LCA analyses the production systems of a product. It provides comprehensive evaluations of all upstream and downstream energy inputs and outputs. The results are provided in a form which covers a range of environmental impact categories.

Table 7: Environmental indicators legend (EN 15804+A2)

Core indicators	Acronym	Unit
Climate change – total	GWP-total	kg CO ₂ equivalent
Climate change – fossil	GWP-fossil	kg CO ₂ equivalent
Climate change – biogenic	GWP-biogenic	kg CO ₂ equivalent
Climate change – land use and land use change	GWP-luluc	kg CO ₂ equivalent
Ozone layer depletion	ODP	kg CFC-11 equivalent
Acidification	AP	mol H ⁺ equivalent
Eutrophication aquatic freshwater	EP-freshwater	kg P equivalent
Eutrophication aquatic marine	EP-marine	kg N equivalent
Eutrophication terrestrial	EP-terrestrial	mol N equivalent
Photochemical ozone formation	POCP	kg NMVOC equivalent
Abiotic depletion potential – minerals and metals ²	ADP minerals & metals	kg Sb equivalent
Abiotic depletion potential – fossil fuels ²	ADP fossil	MJ, net calorific value
Water use ²	WDP	m ³ world equivalent deprived

Table 8: Environmental indicators legend (EN 15804+A2) - continued

Additional indicators	Acronym	Unit
Global Warming Potential – Greenhouse gases	GWP-GHG	kg CO ₂ equivalent
Particulate matter emissions	PM	disease incidence
Ionising radiation, human health ¹	IRP	kBq U235 equivalent
Ecotoxicity (freshwater) ²	ETP-fw	CTUe
Human toxicity, cancer effects ²	HTP-c	CTUh
Human toxicity, non-cancer effects ²	HTP-nc	CTUh
Land use related impacts / soil quality ²	SQP	- (dimensionless)
Additional GHG indicator	Acronym	Unit
Carbon footprint in line with IPCC AR5	GWP-GHG (IPCC AR5)	kg CO ₂ equivalent

¹ 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 some construction materials, is also not measured by this indicator.

² The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

Note regarding various GWP indicators:

GWP-total is calculated using the European Union's Joint Research Centre's characterisation factors (CFs) based on the "EF 3.1 package" for CFs to be used in the EU's Product Environmental Footprint (PEF) framework. CFs listed by JRC are based on the IPCC AR6 method (IPCC 2021) and include indirect radiative forcing, which results in higher numerical Global Warming Potential (GWP) values than the CFs in the internationally accepted (IPCC 2013). The GWP-GHG indicator is identical to GWP-total except that the CFs for biogenic CO₂ are set to zero. The GWP-GHG indicator in PCR 2019:14 v2.0.1 (based on EF 3.1) differs from the GWP-GHG in earlier (pre v1.3) PCR 2019:14 versions (if based on EF 3.0). The "GWP-GHG (IPCC AR5)" indicator is determined using the IPCC AR5 GWPs with a 100-year time horizon (IPCC 2013). This indicator is aligned with Australia's greenhouse gas reporting frameworks, using a market-based electricity accounting approach.

Table 9: Legend for parameters describing resource use, waste and output flows

Parameter	Acronym	Unit
Parameters describing resource use		
Use of renewable primary energy excluding renewable primary energy resources used as raw materials	PERE	MJ _{NCV}
Use of renewable primary energy resources used as raw materials	PERM	MJ _{NCV}
Total use of renewable primary energy resources	PERT	MJ _{NCV}
Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials	PENRE	MJ _{NCV}
Use of non-renewable primary energy resources used as raw materials	PENRM	MJ _{NCV}
Total use of non-renewable primary energy resources	PENRT	MJ _{NCV}
Use of secondary material	SM	kg
Use of renewable secondary fuels	RSF	MJ _{NCV}
Use of non-renewable secondary fuels	NRSF	MJ _{NCV}
Use of net fresh water	FW	m ³
Waste categories		
Hazardous waste disposed	HWD	kg
Non-Hazardous waste disposed	NHWD	kg
Radioactive waste disposed	RWD	kg
Output flows		
Components for re-use	CRU	kg
Materials for recycling	MFR	kg
Materials for energy recovery	MER	kg
Exported energy	EE	MJ

Table 10: Legend for EN 15804+A1 indicators

Indicator	Acronym	Unit
Global warming potential	GWP	kg CO ₂ equivalent
Ozone layer depletion potential	ODP	kg CFC-11 equivalent
Acidification potential	AP	kg SO ₂ equivalent
Eutrophication potential	EP	kg PO ₄ ³⁻ equivalent
Photochemical oxidation (Photochemical ozone creation) potential	POCP	kg ethylene equivalent
Abiotic depletion potential - elements	ADPE	kg Sb equivalent
Abiotic depletion potential – fossil fuels	ADPF	MJ _{NCV}



Environmental Performance Results

The results in the following tables are provided by life cycle module, per declared unit (one tonne of concrete masonry products).

The results have been calculated with SimaPro software v9.6.0.1, using characterisation factors based on the “EF 3.1 package” for characterisation factors to be used in the EU’s Product Environmental Footprint (PEF) framework.

Water flows have been disaggregated using the 36 ALCAS water catchments for which characterisation factors are available for both Pfister WSI and the AWARE method.

To separate the use of primary energy into energy used as raw material and energy used as energy carrier, Option B from Annex 3 of PCR 2019:14 has been applied. In option B, the energy used as raw material is declared as an input to the module where it enters the product system (often in module A1) and as an output from the product system if it exits the product system as useful energy (often from modules A5 or C3).

(Note: As module A5 is not declared, balancing has occurred in modules A1-A3.) Energy content that is wasted (e.g. in landfill), remains as part of the indicator for energy used for raw materials, and is not reported as an input of energy used for energy carriers.

Please consider the following mandatory statements when interpreting the results:

- 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.
- The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).



Table 11: Environmental indicators EN 15804+A2, Concrete masonry produced at Rockhampton (QLD), per tonne

Environmental Indicator	Unit	Module A1-A3	Module C1	Module C2	Module C3	Module C4	Module D
Core Indicators							
GWP-total	kg CO ₂ -eq.	1.4E+02	5.3E+00	6.4E+00	3.3E+00	4.8E-01	-4.9E+00
GWP-fossil	kg CO ₂ -eq.	1.4E+02	5.3E+00	6.4E+00	3.3E+00	4.8E-01	-4.8E+00
GWP-BIOGENIC	kg CO ₂ -eq.	5.2E-02	3.5E-04	4.0E-04	3.1E-03	3.9E-05	-9.5E-03
GWP-luluc	kg CO ₂ -eq.	6.3E-03	2.5E-06	3.0E-06	1.5E-06	2.3E-07	-7.5E-07
ODP	kg CFC11-eq.	1.9E-06	8.5E-07	1.0E-06	4.1E-07	7.8E-08	-1.7E-07
AP	mol H ⁺ eq.	5.1E-01	5.8E-02	5.6E-02	9.0E-03	1.1E-03	-1.8E-02
EP-freshwater	kg P eq.	2.1E-02	7.0E-07	3.8E-07	2.4E-06	6.5E-08	-3.5E-06
EP-marine	kg N eq.	2.7E-02	2.5E-02	1.8E-02	1.6E-03	2.1E-04	-3.0E-03
EP-terrestrial	mol N eq.	1.1E+00	2.8E-01	1.9E-01	1.7E-02	2.3E-03	-3.2E-02
POCP	kg NMVOC eq.	2.7E-01	7.4E-02	4.7E-02	4.7E-03	6.1E-04	-8.4E-03
ADP minerals & metals²	kg Sb eq.	2.2E-05	6.2E-09	7.4E-09	8.1E-07	5.6E-10	-7.1E-07
ADP fossil²	MJ (NCV)	7.6E+02	7.4E+01	8.8E+01	4.7E+01	6.8E+00	-6.9E+01
WDP²	m ³ world eq. deprived	4.3E+01	4.7E-01	5.6E-01	4.8E-01	4.3E-02	-3.2E+01
Additional Indicators							
GWP-GHG	kg CO ₂ -eq.	1.4E+02	5.3E+00	6.4E+00	3.3E+00	4.8E-01	-4.9E+00
PM	Disease incidence	3.4E-06	1.5E-06	3.2E-07	6.0E-08	6.1E-09	-1.5E-07
IRP¹	kBq U235 eq.	4.2E+02	1.1E-04	1.3E-04	6.6E-04	9.9E-06	-4.4E-04
ETP-fw²	CTUe	3.8E+01	1.6E+01	1.9E+01	8.1E+00	1.5E+00	-3.3E+00
HTP-c²	CTUh	2.0E-07	2.0E-10	2.7E-11	6.9E-11	3.8E-12	-2.1E-10
HTP-nc²	CTUh	6.2E-06	1.1E-09	5.2E-10	4.5E-10	4.6E-11	-1.3E-09
SQP²	-	7.6E+02	3.5E-01	3.9E-01	8.9E+03	1.1E+01	-1.0E+02
Carbon footprint							
GWP-IPCC AR5	kg CO ₂ -eq.	1.4E+02	5.3E+00	6.4E+00	3.3E+00	4.8E-01	-4.9E+00

¹ 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 some construction materials, is also not measured by this indicator.

² The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

Table 12: Parameters, Concrete masonry produced at Rockhampton (QLD), per tonne

Environmental Indicator	Unit	Module A1-A3	Module C1	Module C2	Module C3	Module C4	Module D
PERE	MJ _{NCV}	3.9E+01	1.1E-01	1.3E-01	8.1E-01	1.3E-02	-4.0E+00
PERM	MJ _{NCV}	6.9E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PERT	MJ _{NCV}	3.9E+01	1.1E-01	1.3E-01	8.1E-01	1.3E-02	-4.0E+00
PENRE	MJ _{NCV}	7.6E+02	7.4E+01	8.8E+01	4.7E+01	6.8E+00	-6.9E+01
PENRM	MJ _{NCV}	3.4E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PENRT	MJ _{NCV}	7.6E+02	7.4E+01	8.8E+01	4.7E+01	6.8E+00	-6.9E+01
SM	kg	2.8E+02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
RSF	MJ _{NCV}	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NRSF	MJ _{NCV}	4.9E+01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
FW	m ³	1.0E+00	1.1E-02	1.3E-02	1.7E-02	9.9E-04	-7.6E-01
HWD	kg	7.9E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NHWD	kg	2.0E-01	3.4E-04	3.7E-04	2.3E-03	2.0E+02	-1.2E-02
RWD	kg	4.1E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CRU	kg	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MFR	kg	3.3E+01	0.0E+00	0.0E+00	8.0E+02	0.0E+00	0.0E+00
MER	kg	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
EE	MJ	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Table 13: EN 15804+A1 indicators, Concrete masonry produced at Rockhampton (QLD), per tonne

Environmental Indicator	Unit	Module A1-A3	Module C1	Module C2	Module C3	Module C4	Module D
GWP	kg CO ₂ eq	1.4E+02	5.3E+00	6.4E+00	3.3E+00	4.8E-01	-4.8E+00
ODP	kg CFC11 eq	2.5E-06	6.7E-07	8.0E-07	3.3E-07	6.2E-08	-1.3E-07
AP	kg SO ₂ eq	6.1E-01	4.1E-02	3.1E-02	5.7E-03	9.2E-04	-5.6E-03
EP	kg PO4 ³⁻ eq	8.2E-02	8.5E-03	6.0E-03	5.6E-04	7.1E-05	-1.0E-03
POCP	kg C ₂ H ₄ eq	1.8E-02	4.1E-03	2.0E-03	3.2E-04	4.6E-05	-3.8E-04
ADPE	kg Sb eq	9.3E-06	6.3E-09	7.5E-09	8.1E-07	5.7E-10	-7.1E-07
ADPF	MJ _{NCV}	7.6E+02	7.4E+01	8.8E+01	4.7E+01	6.8E+00	-6.9E+01

Variation (A1-A3) per impact category

No averaging has taken place, therefore there is no variation in the results.

Additional Scenarios

Table 14: Environmental indicators EN 15804+A2, 100% end-of-life scenarios, Concrete pavers produced at Rockhampton (QLD), per tonne

Environmental Indicator	Unit	100% Recycling			100% Landfill		
		Module C3	Module C4	Module D	Module C3	Module C4	Module D
Core Indicators							
GWP-total	kg CO ₂ -eq.	4.1E+00	0.0E+00	-6.7E+00	0.0E+00	2.4E+00	2.1E+00
GWP-fossil	kg CO ₂ -eq.	4.1E+00	0.0E+00	-6.7E+00	0.0E+00	2.4E+00	2.1E+00
GWP-biogenic	kg CO ₂ -eq.	3.9E-03	0.0E+00	-1.3E-02	0.0E+00	1.9E-04	4.2E-03
GWP-luluc	kg CO ₂ -eq.	1.9E-06	0.0E+00	-1.0E-06	0.0E+00	1.2E-06	3.3E-07
ODP	kg CFC11-eq.	5.2E-07	0.0E+00	-2.3E-07	0.0E+00	3.9E-07	7.3E-08
AP	mol H+ eq.	1.1E-02	0.0E+00	-2.4E-02	0.0E+00	5.7E-03	7.8E-03
EP-freshwater	kg P eq.	3.0E-06	0.0E+00	-4.8E-06	0.0E+00	3.2E-07	1.5E-06
EP-marine	kg N eq.	2.0E-03	0.0E+00	-4.1E-03	0.0E+00	1.0E-03	1.3E-03
EP-terrestrial	mol N eq.	2.2E-02	0.0E+00	-4.4E-02	0.0E+00	1.1E-02	1.4E-02
POCP	kg NMVOC eq.	5.9E-03	0.0E+00	-1.2E-02	0.0E+00	3.0E-03	3.7E-03
ADP minerals & metals ²	kg Sb eq.	1.0E-06	0.0E+00	-9.8E-07	0.0E+00	2.8E-09	3.1E-07
ADP fossil ²	MJ _(NCV)	5.9E+01	0.0E+00	-9.6E+01	0.0E+00	3.4E+01	3.0E+01
WDP ²	m ³ world eq. deprived	6.0E-01	0.0E+00	-4.5E+01	0.0E+00	2.1E-01	1.4E+01
Additional Indicators							
GWP-GHG	kg CO ₂ -eq.	4.1E+00	0.0E+00	-6.7E+00	0.0E+00	2.4E+00	2.1E+00
PM	Disease incidence	7.5E-08	0.0E+00	-2.0E-07	0.0E+00	3.0E-08	6.5E-08
IRP ¹	kBq U235 eq.	8.3E-04	0.0E+00	-6.1E-04	0.0E+00	4.9E-05	1.9E-04
ETP-fw ²	CTUe	1.0E+01	0.0E+00	-4.6E+00	0.0E+00	7.4E+00	1.5E+00
HTP-c ²	CTUh	8.6E-11	0.0E+00	-2.9E-10	0.0E+00	1.9E-11	9.2E-11
HTP-nc ²	CTUh	5.6E-10	0.0E+00	-1.8E-09	0.0E+00	2.3E-10	5.8E-10
SQP ²	-	1.1E+04	0.0E+00	-1.4E+02	0.0E+00	5.6E+01	4.4E+01
Carbon footprint							
GWP-IPCC AR5	kg CO ₂ -eq.	4.1E+00	0.0E+00	-6.7E+00	0.0E+00	2.4E+00	2.1E+00

¹ 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 some construction materials, is also not measured by this indicator.

² The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

Table 15: EN 15804+A2 parameters, 100% end-of-life scenarios, Concrete masonry produced at Rockhampton (QLD), per tonne

Environmental Indicator	Unit	100% Recycling			100% Landfill		
		Module C3	Module C4	Module D	Module C3	Module C4	Module D
PERE	MJ _{NCV}	1.0E+00	0.0E+00	-5.5E+00	0.0E+00	6.6E-02	1.7E+00
PERM	MJ _{NCV}	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PERT	MJ _{NCV}	1.0E+00	0.0E+00	-5.5E+00	0.0E+00	6.6E-02	1.7E+00
PENRE	MJ _{NCV}	5.9E+01	0.0E+00	-9.6E+01	0.0E+00	3.4E+01	3.0E+01
PENRM	MJ _{NCV}	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
PENRT	MJ _{NCV}	5.9E+01	0.0E+00	-9.6E+01	0.0E+00	3.4E+01	3.0E+01
SM	kg	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
RSF	MJ _{NCV}	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NRSF	MJ _{NCV}	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
FW	m ³	2.1E-02	0.0E+00	-1.0E+00	0.0E+00	4.9E-03	3.3E-01
HWD	kg	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
NHWD	kg	2.9E-03	0.0E+00	-1.6E-02	0.0E+00	1.0E+03	5.1E-03
RWD	kg	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
CRU	kg	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MFR	kg	1.0E+03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
MER	kg	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
EE	MJ	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Abbreviations

Abbreviaton	Definition
ALCAS	Australian Life Cycle Assessment Society
AusLCI	Australian Life Cycle Inventory (database)
ANZSIC	Australian and New Zealand Standard Industrial Classification
CEN	European Committee for Standardization
CPC	Central Product Classification
EF	Environmental Footprint
EFCA	European Federation of Concrete Admixtures Associations
EN	European Norm (Standard)
EPD	Environmental Product Declaration
EU	European Union
DIY	Do-It-Yourself
GPI	General Programme Instructions
ISO	International Organization for Standardization
kg	kilogram
km	kilometre
kWh	kilo Watt hour
LCA	Life Cycle Assessment
m ³	cubic metre
ND	Not Declared
NSW	New South Wales
NWR	National Waste Report
PCR / c-PCR	Product Category Rules / complimentary Product Category Rules
QLD	Queensland
SVHC	Substances of Very High Concern
t	tonne
UN	United Nations

Version History

Version	Notes
1	Original version of the EPD, published 2026-02-16

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