



Hazelmere Masonry Pavers- Average Independently Verified Product Carbon Footprint (PCF) Full Report

29 January 2026

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Document overview

This Product Carbon Footprint (PCF) report provides a transparent and verified account of the greenhouse gas (GHG) emissions associated with Hazelmere Masonry Pavers- Average.

This report has been prepared by the declaration owner using primary and secondary data. The report conforms to international standard ISO 14067 and it is compiled using a range of high quality data sources. The results of this report has been reviewed by a suitably qualified Rebuilt LCA professional and verified in accordance to ISO 14064-3. This report demonstrates the declaration owner's commitment to transparency, sustainability excellence and continuous improvement.

Users of this PCF are responsible for evaluating the applicability of the data for their intended purposes.

Benefits of using this Product Carbon Footprint

This document can be used to:

- Inform your customers about the embodied emissions in your products
- Meet procurement and tender requirements
- Identify hot spots and opportunities for making improvements in carbon intensity over time
- Input into mandatory corporate carbon disclosure reporting.

PCFs and EPDs: making comparisons

Both Product Carbon Footprints (PCFs) and Environmental Product Declarations (EPDs) are based on lifecycle assessment methodologies (ISO 14044), so their results are technically interoperable. However, comparisons should be approached with care:

- Data sources differ. Even within the same product category, PCFs and EPDs may draw on different reference datasets, assumptions, or cut-off rules, leading to variation in results.
- Rules matter. Results are only directly comparable if they apply the same Product Category Rules (PCRs), which set the boundaries and methods for assessment.
- Timing matters. PCFs and EPDs last for five years. Assessments carried out at different times may reflect changes in datasets, methodologies, or manufacturing processes.
- Lifecycle stages vary. Not all PCFs and EPDs cover the same modules (e.g. raw materials, manufacturing, transport, use, end-of-life). Different system boundaries can significantly affect results. Use the breakdown tables to compare like-for-like.
- Detail drives accuracy. Expert interpretation is often needed to judge whether results are genuinely comparable and to avoid misleading conclusions.
- Project context is key. The most meaningful comparison comes from assessing products in the context of the whole project or structure, not in isolation.

Results at a glance

Hazelmere Masonry Pavers- Average

Midland Brick

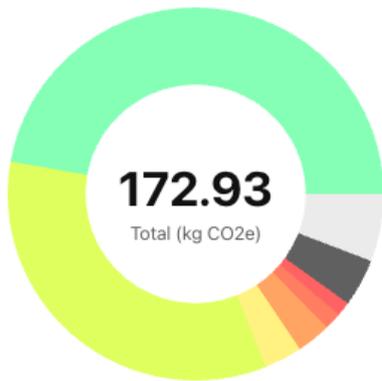
Total upfront carbon (Fossil)
(A1-A3)

172.93

Carbon Footprint
kg CO2e /tonne

Carbon impact (Fossil)

Relative carbon impact of the components of the product



- CEMENT - OFFWHITE BULK
- CEMENT - Grey Bulk
- BLACK Oxide
- Fine aggregate
- PLATINUM STRAP 16mm x 0.9 x 1200m
- GRANITE 5MM
- Other Components
- Factory Energy

Component name	Weight (kg)	kg CO2e	% of total kg CO2e
RED SAND	0.34	0.02	< 0.01
BLACK Oxide	1.59	5.66	3.27
CEMENT - OFFWHITE BULK	76.54	81.64	47.21
GRANITE 5MM	181.81	2.12	1.23
FINE CONCRETE SAND	57.91	0.59	0.34
RIVERSTONE (6MM)	3.02	0.38	0.22
Additive	0.34	0.61	0.35
WASHED CONCRETE SAND	9.60	0.10	0.06
QUARTZ SAND	102.96	1.19	0.69
Quartz Aggregate 7MM	39.33	1.79	1.03
CEMENT - Grey Bulk	54.92	58.58	33.87
YELLOW oxide	0.03	0.09	0.05
BLACK STONE (BASALT)	5.53	0.21	0.12
Fine aggregate	437.69	5.11	2.96
Quartz Aggregate 14MM	28.39	1.44	0.83
PLASTIC strapping	0.03	0.11	0.06
BOARDS 650x90x3.2mm / 720x90x3.2mm	0.49	0.60	0.35
PLATINUM STRAP 16mm x 0.9 x 1200m	0.79	2.57	1.49
Factory Energy	0.00	10.11	5.85
	Total (kg)	Total (kg CO2e)	
	1,001.31	172.93	

Carbon intensity by life cycle stage

Carbon impact from raw materials (A1), transport to factory (A2), production activities (A3), transport to site (A4), and installation (A5).

Type	A1 (kgCO2e)	A2 (kgCO2e)	A3 (kgCO2e)
Fossil	149.67	8.83	14.43
Biogenic	1.99	0.00	-0.32
Luluc	0.08	0.00	0.02
	Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)
	151.74	8.83	14.13

Report information

Publication date	January 29, 2026
Valid until	January 29, 2031
Independently verified	Declaration owner generated report Reviewed and verified by Rebuilt
Verifier contact	www.rebuilt.eco verified@rebuilt.eco
Geographic scope	N/A
Data collection period	1 July 2023 - 30 June 2024
Standards compliance	ISO 14040, ISO 14044, ISO 14064-3, ISO 14067, ISO 14071
Product Category Rules (PCR)	EN 15804+A2:2019

This PCF report has been created and verified in accordance with:



Company information

Declaration owner	Midland Brick
Company description	Midland Brick has been providing clay bricks, masonry pavers, clay pavers, retaining walls, roof tiles and Cultured Stone® to Western Australia for over 75 years. Midland Brick has been a pioneer and innovator within the building and construction industry, and are still regarded as one of WA's most recognised and respected brands. Midland Brick supply bricks and pavers to private individuals, small businesses and large multi-national companies across Australia, New Zealand and Asia. Midland Brick's brick and paver range can be purchased online, or through one of four conveniently located branches in the Perth metro area.
Company location	-
Manufacturing facility	Hazlemere Masonry
Manufacturing location	4 Stirling Crescent, Hazlemere WA, Australia

Product information



Product name	Hazelmere Masonry Pavers- Average
SKU	CL80HSC CL80HSM CL80HTU DP80HSC DP80HSI-W DP80HSM EL80HAR EL80HCC-W EL80HGY-W EL80HSC EL80HSI-W EL80HSM EP80HAR EP80HCC-W EP80HGY-W EP80HPB EP80HSC EP80HSI-W EP80HSM EP80HTU FS60HAR FS60HCC FS60HCC-W FS60HDEW FS60HGY FS60HGY-W FS60HINK FS60HKAO FS60HSC FS60HSI FS60HSI-W FS60HSKY FS60HSM FS60HTU FS80HAR FS80HCC-W FS80HGY-W FS80HSC FS80HSI-W FS80HSM FS80HTU GP60HAR GP60HCC-W GP60HGY-W GP60HSC GP60HSI-W GP60HSM GP60HTU IL80HCC-W IL80HGY-W IL80HSC IL80HSI-W IL80HSM MA60HAR MA60HCC-W MA60HDEW MA60HGY-W MA60HINK MA60HKAO MA60HSC MA60HSI-W MA60HSKY MA60HSM MA60HTU VS60HAR VS60HCC VS60HCC-W VS60HDEW VS60HGY VS60HGY-W VS60HINK VS60HKAO VS60HNO VS60HSC VS60HSI-W VS60HSKY VS60HSM VS60HTU
Description	<p>From secluded courtyards to expansive driveways, Midland Brick's paving range can give your outdoor area the stylish, individual touch it's been waiting for.</p> <p>Whether you're after a complete revamp to create a more contemporary space or going back to basics with a traditional feel, there are plenty of options to inspire and help make your outdoor design dream a reality.</p> <p>Available in an abundance of sizes, formats, colours and finishes, the possibilities are endless with Midland Brick.</p> <p>This PCF is for pavers manufactured at our Hazelmere facility with SKUs listed below.</p> <p>https://www.midlandbrick.com.au/Products/Pavers</p>
Net weight (kg) per declared unit	1,000.00
Declared unit	1 tonne
	For the purposes of this report, declared unit is taken to be an individual unit as sold.

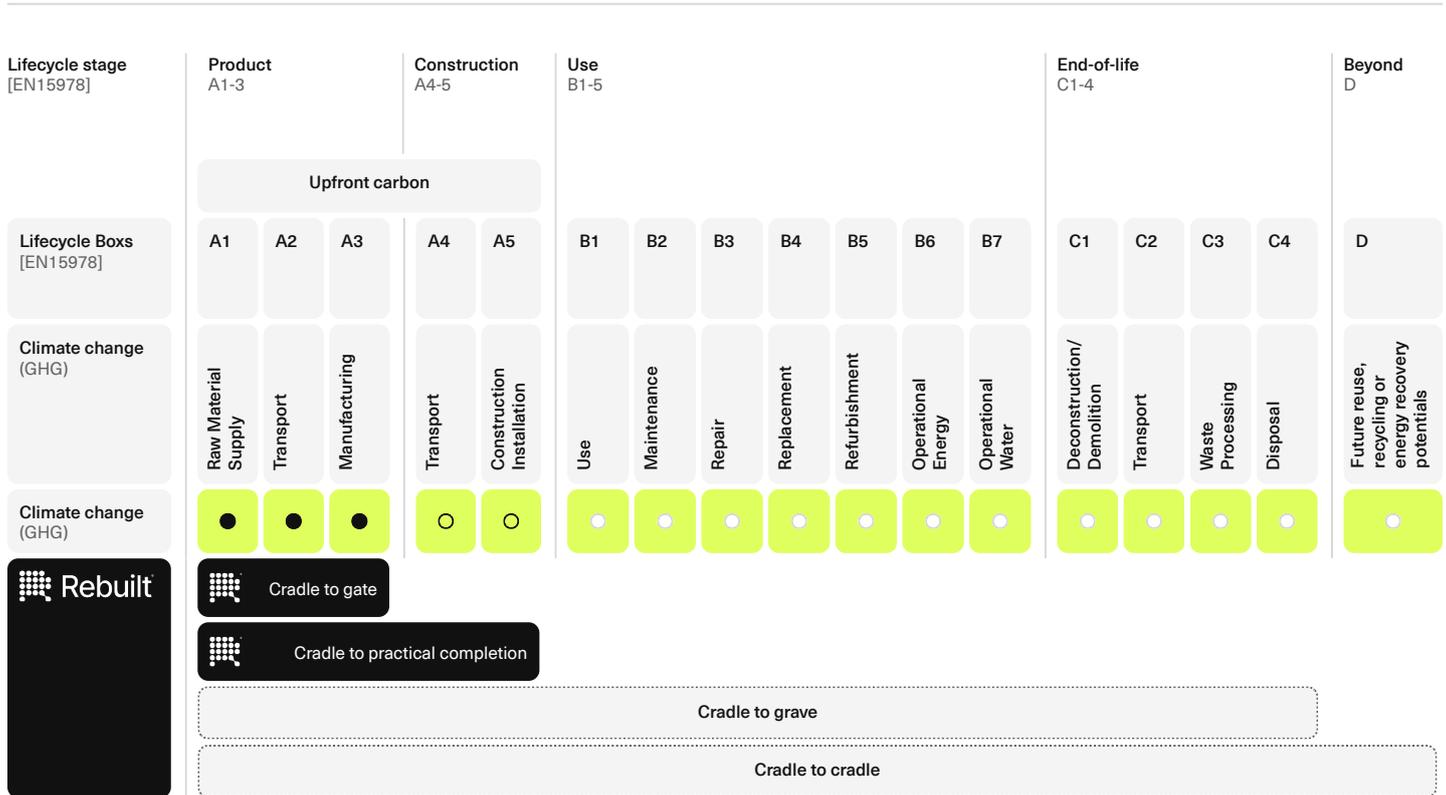
Recycled content	-
ANZSIC	2034
UNICLASS code	Pr_25_93_60_19

Technical information

Report boundary

This declaration shows the global warming potential (GWP) of the greenhouse gases embodied in this product, expressed in kilograms of carbon dioxide and equivalent gasses with global warming potential (kgCO₂-e) and is based on the results of a pre-verified LCA performed in accordance with ISO14067 process and procedure as well as ISO14025 and nominated PCR EN15804.

NOTE: This declaration is limited to the life cycle stages shown in the table below.



A1 - Raw Material Extraction

The raw materials stage also called background or upstream covers the extraction and production of the raw materials needed to manufacture the product. It includes the processing of the extracted raw material to the point where it can be made into a recognisable part.

A2 - Transport Raw Material to Factory

This stage outlines the calculation of CO₂ emissions (Stage A2) for transporting raw materials to the factory. It considers transport modes, distances travelled, and material weights to calculate emissions.

A3 - Manufacturing

Converting raw materials into parts and made into the final product. It considers energy usage, packaging, process emissions and production waste.

A4 - Transport to Site

Not reported as part of this scope

A5 - Construction & Installation

Not reported as part of this scope

B - Use Phase

Not reported as part of this scope

C - End of Life

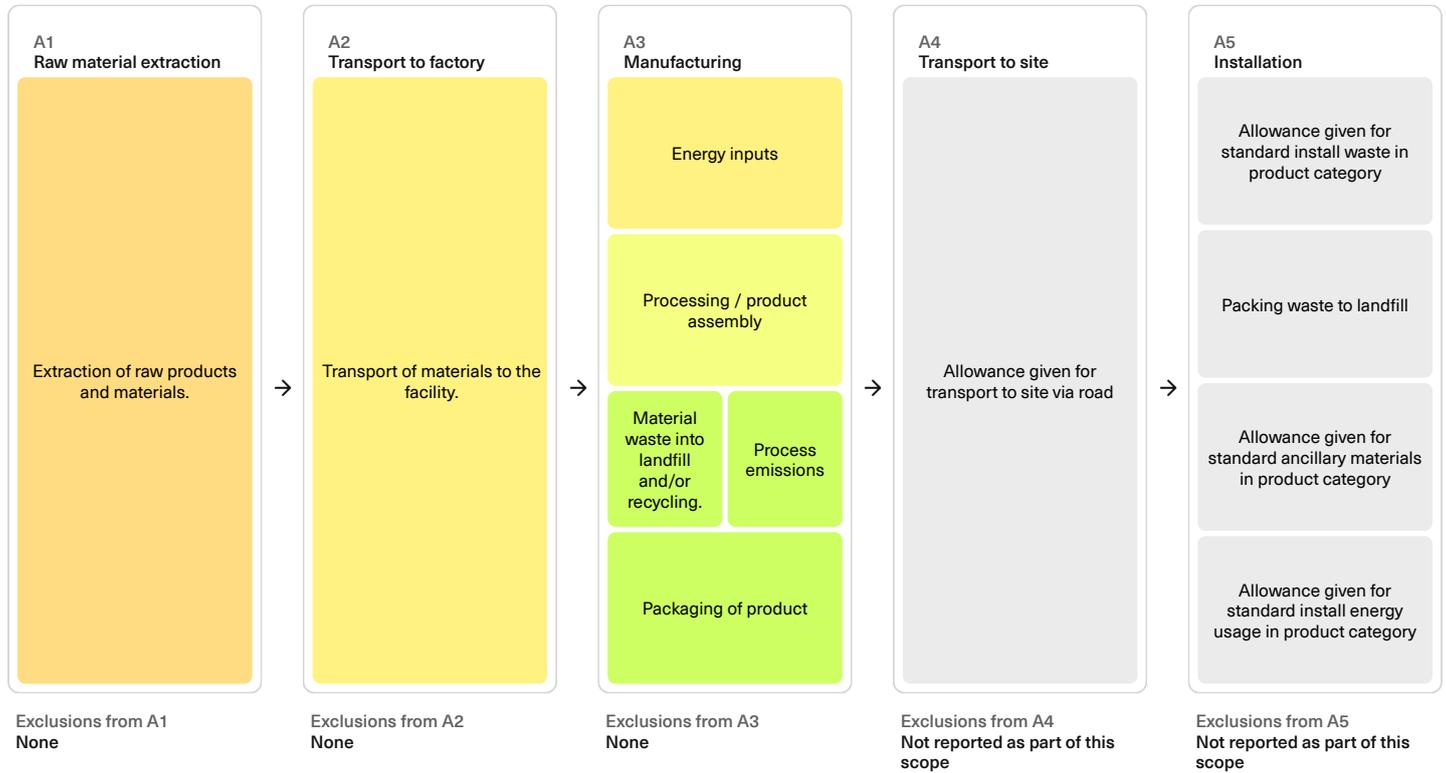
Not reported as part of this scope

D - Beyond

Not reported as part of this scope

Technical information (continued)

Process flow diagram



Cut-off criteria

Individual processes may be excluded if their contributions to the total system's environmental impact are less than 1%. The aggregate cut-off criteria of this PCF follows PCR 2019:14 guideline where a minimum of 95% of total input (mass and energy) for each life cycle stage are included. Exclusions from the PCF is outlined in "Data Assumptions, Choices and Limitations".

The use stage is excluded from the study due to the uncertainty related to the multiple possible applications of the products assessed.

The following processes were left out of the system boundaries, in conformity to usual practices in carbon footprinting: labor, commuting of workers and administrative work.

Allocation procedures

The allocation method for this PCF is based on a physical (mass) basis. The energy used by the product is allocated by normalising the total energy used in the factory to the total mass of the product to the total production mass output from the same factory.

Results

Total upfront carbon (Fossil)
(A1-A3)

172.93

Carbon Footprint
kg CO₂e /tonne

Carbon intensity by life cycle stage

Type	A1 (kgCO ₂ e)	A2 (kgCO ₂ e)	A3 (kgCO ₂ e)
Fossil	149.67	8.83	14.43
Biogenic	1.99	0.00	-0.32
Luluc	0.08	0.00	0.02
	Total (kgCO ₂ e)	Total (kgCO ₂ e)	Total (kgCO ₂ e)
	151.74	8.83	14.13

Carbon intensity by raw material

Material	GWP Fossil (kgCO ₂ e)	GWP Biogenic (kgCO ₂ e)	GWP Luluc (kgCO ₂ e)	GWP Total (kgCO ₂ e)
RED SAND	< 0.01	< 0.01	< 0.01	< 0.01
BLACK Oxide	5.41	-0.00	0.04	5.46
CEMENT - OFFWHITE BULK	81.04	1.15	0.02	82.22
GRANITE 5MM	0.95	< 0.01	< 0.01	0.96
FINE CONCRETE SAND	0.22	< 0.01	< 0.01	0.22
RIVERSTONE (6MM)	0.01	< 0.01	< 0.01	0.01
Additive	0.61	< 0.01	< 0.01	0.61
WASHED CONCRETE SAND	0.04	< 0.01	< 0.01	0.04
QUARTZ SAND	0.39	< 0.01	< 0.01	0.39
Quartz Aggregate 7MM	0.15	< 0.01	< 0.01	0.15
CEMENT - Grey Bulk	58.15	0.83	0.01	58.99
YELLOW oxide	0.08	-0.00	< 0.01	0.08
BLACK STONE (BASALT)	0.05	< 0.01	< 0.01	0.05
Fine aggregate	2.29	< 0.01	< 0.01	2.30
Quartz Aggregate 14MM	0.26	< 0.01	< 0.01	0.26
	Total (kgCO ₂ e)	Total (kgCO ₂ e)	Total (kgCO ₂ e)	Total (kgCO ₂ e)
	149.67	1.99	0.08	151.74

Carbon intensity by transport type

Results (Continue)

Material	Transport mode	GWP Fossil (kgCO2e)	GWP Biogenic (kgCO2e)	GWP Luluc (kgCO2e)	GWP Total (kgCO2e)
RED SAND	By road, diesel truck, 16 to 28t, fleet average	0.01	0.00	0.00	0.01
BLACK Oxide	Multi-leg transport	0.24	0.00	0.00	0.24
CEMENT - OFFWHITE BULK	By road, diesel truck, 16 to 28t, fleet average	0.52	0.00	0.00	0.52
GRANITE 5MM	By road, diesel truck, 16 to 28t, fleet average	0.98	0.00	0.00	0.98
FINE CONCRETE SAND	By road, diesel truck, 16 to 28t, fleet average	0.31	0.00	0.00	0.31
PLASTIC strapping	By road, diesel truck, 16 to 28t, fleet average	< 0.01	0.00	0.00	< 0.01
RIVERSTONE (6MM)	By road, diesel truck, 16 to 28t, fleet average	0.37	0.00	0.00	0.37
Additive	By road, diesel truck, 16 to 28t, fleet average	< 0.01	0.00	0.00	< 0.01
WASHED CONCRETE SAND	By road, diesel truck, 16 to 28t, fleet average	0.05	0.00	0.00	0.05
BOARDS 650x90x3.2mm / 720x90x3.2mm	Multi-leg transport	0.07	0.00	0.00	0.07
QUARTZ SAND	By road, diesel truck, 16 to 28t, fleet average	0.70	0.00	0.00	0.70
Quartz Aggregate 7MM	By road, diesel truck, 16 to 28t, fleet average	1.60	0.00	0.00	1.60
CEMENT - Grey Bulk	By road, diesel truck, 16 to 28t, fleet average	0.37	0.00	0.00	0.37
PLATINUM STRAP 16mm x 0.9 x 1200m	Multi-leg transport	0.10	0.00	0.00	0.10
YELLOW oxide	Multi-leg transport	< 0.01	0.00	0.00	< 0.01
BLACK STONE (BASALT)	By road, diesel truck, 16 to 28t, fleet average	0.15	0.00	0.00	0.15
Fine aggregate	By road, diesel truck, 16 to 28t, fleet average	2.37	0.00	0.00	2.37
Quartz Aggregate 14MM	By road, diesel truck, 16 to 28t, fleet average	1.15	0.00	0.00	1.15
		Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)
		9.00	0.00	0.00	9.00

Carbon intensity by energy source

Energy type	GWP Fossil (kgCO2e)	GWP Biogenic (kgCO2e)	GWP Luluc (kgCO2e)	GWP Total (kgCO2e)
Diesel oil	1.87	0.00	0.00	1.87
Purchased from grid (low voltage)	8.24	0.00	0.00	8.24
	Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)
	10.11	0.00	0.00	10.11

Carbon intensity by packaging material

Material	GWP Fossil (kgCO2e)	GWP Biogenic (kgCO2e)	GWP Luluc (kgCO2e)	GWP Total (kgCO2e)
PLASTIC strapping	0.11	< 0.01	< 0.01	0.11
BOARDS 650x90x3.2mm / 720x90x3.2mm	0.60	-0.32	0.02	0.30
PLATINUM STRAP 16mm x 0.9 x 1200m	2.57	-0.00	< 0.01	2.57
	Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)
	3.28	-0.32	0.02	2.98

Results (Continue)

Carbon intensity by process emissions

Material	GWP Fossil (kgCO2e)	GWP Biogenic (kgCO2e)	GWP Luluc (kgCO2e)	GWP Total (kgCO2e)
	Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)
	0.00	0.00	0.00	0.00

Carbon intensity by waste treatment

Material	Waste treatment type	GWP Fossil (kgCO2e)	GWP Biogenic (kgCO2e)	GWP Luluc (kgCO2e)	GWP Total (kgCO2e)
RED SAND	recycling, concrete (not reinforced)	< 0.01	< 0.01	< 0.01	< 0.01
BLACK Oxide	recycling, concrete (not reinforced)	< 0.01	< 0.01	< 0.01	< 0.01
CEMENT - OFFWHITE BULK	recycling, concrete (not reinforced)	0.08	< 0.01	< 0.01	0.08
GRANITE 5MM	recycling, concrete (not reinforced)	0.19	< 0.01	< 0.01	0.19
FINE CONCRETE SAND	recycling, concrete (not reinforced)	0.06	< 0.01	< 0.01	0.06
RIVERSTONE (6MM)	recycling, concrete (not reinforced)	< 0.01	< 0.01	< 0.01	< 0.01
Additive	recycling, concrete (not reinforced)	< 0.01	< 0.01	< 0.01	< 0.01
WASHED CONCRETE SAND	recycling, concrete (not reinforced)	< 0.01	< 0.01	< 0.01	< 0.01
QUARTZ SAND	recycling, concrete (not reinforced)	0.11	< 0.01	< 0.01	0.11
Quartz Aggregate 7MM	recycling, concrete (not reinforced)	0.04	< 0.01	< 0.01	0.04
CEMENT - Grey Bulk	recycling, concrete (not reinforced)	0.06	< 0.01	< 0.01	0.06
YELLOW oxide	recycling, concrete (not reinforced)	< 0.01	< 0.01	< 0.01	< 0.01
BLACK STONE (BASALT)	recycling, concrete (not reinforced)	< 0.01	< 0.01	< 0.01	< 0.01
Fine aggregate	recycling, concrete (not reinforced)	0.45	< 0.01	< 0.01	0.45
Quartz Aggregate 14MM	recycling, concrete (not reinforced)	0.03	< 0.01	< 0.01	0.03
		Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)	Total (kgCO2e)
		1.03	< 0.01	< 0.01	1.04

References

- ISO 14040:2006+A1:2020 - Environmental management - Life cycle assessment - Principles and framework
- ISO 14044:2006+A2:2020 - Environmental management - Life cycle assessment - Requirements and guidelines
- ISO 14067:2018 (First Edition) - Greenhouse gases - Carbon footprint of products - Requirements and guidelines for quantification
- EN 15804:2012+A2:2019 - Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
- Australian National Life Cycle Inventory Database (AusLCI) version 1.42 (May 2023)
- ecoinvent database v3.11 (November 2024)
- Australian National Greenhouse Accounts Factors 2024