

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Baumit MinAir SchaumBeton
Baumit GmbH

Project EPD number OCL-0002606
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MANUFACTURER

Manufacturer	Baumit GmbH
Address	Wopfing 156, A- 2754 Waldegg
Contact details	office@baumit.com
Website	www.baumit.com

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR version 1.2, 24 Mar 2025
Sector	Bauprodukt
Category of EPD	Project EPD
Parent EPD number	
Scope of the EPD	MND

EPD author	Rene Leth
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☐ External verification

This EPD is intended only for business-to-business communication. Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF 3.1. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Baumit MinAir SchaumBeton
Additional labels	
Product reference	
Place(s) of raw material origin	EU
Place of production	Österreich
Place(s) of installation and use	Österreich
Period for data	01/2024 - 12/2024
Averaging in EPD	Keine Gruppierung
Variation in GWP-fossil for A1-A3, %	
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	99,9

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m ³
Declared unit mass, kg	300
Global Warming Potential A1-A3	
GWP-fossil, A1-A3 (kgCO ₂ e)	80,7
GWP-total, A1-A3 (kgCO ₂ e)	80,7
Secondary material, inputs (%)	39
Secondary material, outputs (%)	66,2
Total energy use, A1-A3 (kWh)	200
Net freshwater use, A1-A3 (m ³)	0,08

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Baumit, ein österreichisches Familienunternehmen und führende Baustoffmarke, erforscht, entwickelt und produziert Fassaden, Putze, Estriche für Neubau, Sanierung und Gartengestaltung. Die Rohstoffgewinnung wie auch die Weiterverarbeitung erfolgt ressourcenschonend, regional und nachhaltig.

PRODUCT DESCRIPTION

Baumit MinAir Schaumbeton ist ein rein mineralisches Leichtprodukt und zeichnet sich durch seine optimierten Austrocknungs- und Ausgleichseigenschaften, optimale Umhüllung von Rohrleitungen und leichte Verarbeitbarkeit (sehr gute Fließeigenschaften) mit hoher Einbauleistung aus. Dabei ist Baumit MinAir Schaumbeton wärmedämmend und nicht brennbar.

Further information can be found at:
www.baumit.com

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	-	
Minerals	100	
Fossil materials	-	
Bio-based materials	-	

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m ³
Mass per declared unit, kg	300
Functional unit	

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Beyond the system	D	X	Reuse, Recovery,
	C4	X	Disposal
End of life stage	C3	X	Waste processing
	C2	X	Transport
	C1	X	Deconstr./demol.
Use stage	B7	ND	Operational water
	B6	ND	Operational energy
	B5	ND	Refurbishment
	B4	ND	Replacement
	B3	ND	Repair
	B2	ND	Maintenance
	B1	ND	Use
Assembly stage	A5	X	Assembly
	A4	ND	Transport
Product stage	A3	X	Manufacturing
	A2	X	Transport
	A1	X	Raw materials

Not declared = ND.

MANUFACTURING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

A market-based approach is used in modelling the electricity mix utilized in the factory.

Das Bindemittel besteht aus Ausgangsstoffen, die trocken im Werk abgefüllt werden, der Herstellprozess ist auf der nächsten Seite skizziert.. Bei der Herstellung wird Strom benötigt.

Auslieferung des Trockenmaterials im Silo bzw. der Flüssigkomponente im Kantsister.

Die BAUMIT erfüllt im Gesundheits- und Umweltschutz alle notwendigen nationalen Vorschriften. Eine Gefährdung der Umwelt oder eine negative Einwirkung auf das Produktionspersonal ist bei der Herstellung der Fassadenputze nicht gegeben, insbesondere weil die Produktion, bis zur Abfüllung, in einer abgeschlossenen Anlage erfolgt. Diese Mischanlage besitzen eine automatische Dosierung der Rohstoffe, so dass die

Mitarbeiter praktisch keinen Kontakt mit Rohstoffen haben.

The use of green energy in manufacturing is demonstrated through contractual instruments (GOs, RECs, etc.), and its use is ensured throughout the validity period of this EPD.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

Der Transport zur Baustelle wird nicht berücksichtigt.

Das Produkt wird zur Baustelle geliefert und dort nach Herstellerangaben und -bedingungen mit der erforderlichen Wassermenge und der Flüssigkomponente, unter Zuhilfenahme einer am Silo fest montierten Einheit, zu gebrauchsfertigem Mörtel gemischt. Der dafür notwendige Energieaufwand wurde berücksichtigt.

Detaillierte Anweisungen zur Verarbeitung und zum Umgang mit diesem Produkt sind umfassend in den technischen Datenblättern beschrieben. Das Sicherheitsdatenblatt des Produkts ist einzuhalten. Direkter Kontakt mit Augen und Haut ist durch persönliche Schutzmaßnahmen zu vermeiden. Die Putzmasse darf nicht in die Kanalisation, in Oberflächengewässer oder ins Grundwasser gelangen. Das Reinigungsabwasser der Geräte sollte gemäß den Angaben in den technischen Datenblättern gesammelt und entsorgt werden.

Anfallende Verpackungen werden getrennt gesammelt und dem Recycling zugeführt. Die Kanister können durch Vertragsentsorger gesammelt und dem Recycling zugeführt werden. Die Durchschnittsdistanz für die Rückholung der Verpackungsmaterialien wurde mit 50 km angesetzt.

PRODUCT USE AND MAINTENANCE (B1-B7)

In dieser EPD wird das Nutzungsstadium nicht berücksichtigt.

Auswirkungen auf Luft, Boden und Wasser während des Nutzungsstadiums wurden nicht untersucht. Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

Baumit MinAir SchaumBeton ist eine leichte

Ausgleichsmasse für Boden- und Deckenkonstruktionen. Der Untergrund ist im Regelfall eine Rohdecke, z.B. Beton und kann daher nach Rückbau und Aufbereitung in den Recyclingprozess (z.B. Recyclingbeton) zugeführt werden.

Für das Modul C1-C4 wird angenommen, dass 100% dem Recycling zugeführt wird. Das Modul D enthält die Gutschriften der Verbrennungsprozesse und des Recyclings aus A5 (Verpackungsabfälle). Es wurde eine Abfallverbrennungsanlage mit einem R1Wert > 0,6 angenommen.

LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage. The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the

product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	Keine Zuteilung
Packaging materials	Keine Zuteilung
Ancillary materials	Keine Zuteilung
Manufacturing energy and waste	Zuteilung nach Masse oder Volumen

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	Keine Gruppierung
Grouping method	Nicht zutreffend
Variation in GWP-fossil for A1-A3, %	

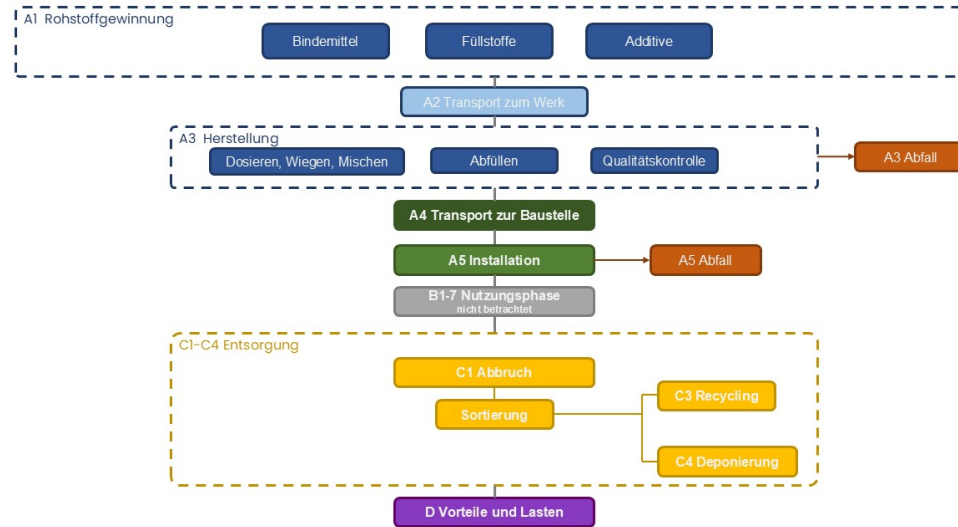
This EPD is product and factory-specific.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 and EPD Process Certification v3.2.4. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. Ecoinvent v3.10.1/3.11/3.12 and One Click LCA databases were used as sources of environmental data. Allocation used in Ecoinvent v3.10.1/3.11/3.12 environmental data sources follow the methodology 'allocation, Cut-off, EN 15804+A2'.

MANUFACTURING PROCESS

FERTIGUNGSDIAGRAMM



ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	8,05E+01	0,00E+00	1,61E-01	8,07E+01	ND	2,12E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,62E+00	1,32E+00	0,00E+00	-3,04E+00
GWP – fossil	kg CO ₂ e	8,05E+01	0,00E+00	1,62E-01	8,07E+01	ND	2,04E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,61E+00	1,32E+00	0,00E+00	-3,04E+00
GWP – biogenic	kg CO ₂ e	0,00E+00	0,00E+00	-6,35E-04	-6,35E-04	ND	1,93E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP – LULUC	kg CO ₂ e	2,98E-02	0,00E+00	2,15E-04	3,00E-02	ND	5,64E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,22E-04	1,35E-04	0,00E+00	-2,74E-03
Ozone depletion potential	kg CFC ₁₁ e	3,05E-06	0,00E+00	8,27E-09	3,06E-06	ND	4,89E-08	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,38E-08	1,96E-08	0,00E+00	-2,48E-08
Acidification potential	mol H ⁺ e	1,18E-01	0,00E+00	8,22E-04	1,19E-01	ND	6,26E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,51E-03	1,18E-02	0,00E+00	-1,85E-02
EP-freshwater ²⁾	kg Pe	1,73E-06	0,00E+00	5,51E-05	5,68E-05	ND	4,91E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,26E-04	4,24E-05	0,00E+00	-9,26E-04
EP-marine	kg Ne	5,14E-02	0,00E+00	1,66E-04	5,16E-02	ND	1,38E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,81E-03	5,49E-03	0,00E+00	-4,37E-03
EP-terrestrial	mol Ne	5,30E-01	0,00E+00	1,85E-03	5,32E-01	ND	1,56E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,97E-02	6,01E-02	0,00E+00	-5,28E-02
POCP (“smog”) ³⁾	kg NMVOCe	1,24E-01	0,00E+00	7,93E-04	1,25E-01	ND	3,98E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,11E-03	1,80E-02	0,00E+00	-1,47E-02
ADP-minerals & metals ⁴⁾	kg Sbe	3,21E-05	0,00E+00	3,58E-06	3,57E-05	ND	2,57E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,50E-06	4,74E-07	0,00E+00	-1,62E-05
ADP-fossil resources	MJ	2,96E+02	0,00E+00	3,28E+00	2,99E+02	ND	3,18E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,34E+01	1,72E+01	0,00E+00	-3,70E+01
Water use ⁵⁾	m ³ e depr.	3,02E+00	0,00E+00	1,35E-01	3,16E+00	ND	4,93E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,16E-01	4,42E-02	0,00E+00	-4,51E+00

1) GWP = Global Warming Potential. 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e. 3) POCP = Photochemical ozone formation. 4) ADP = Abiotic depletion potential. 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	4,51E+02	0,00E+00	9,66E-09	4,51E+02	ND	4,51E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,62E-07	2,57E-06	0,00E+00	-2,79E-07
Ionizing radiation ⁶⁾	kBq U235e	1,54E-02	0,00E+00	1,38E-02	2,93E-02	ND	3,28E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,04E-02	7,31E-03	0,00E+00	-2,59E-01
Ecotoxicity (freshwater)	CTUe	9,59E+00	0,00E+00	2,07E+00	1,17E+01	ND	1,29E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,31E+00	9,81E+00	0,00E+00	-8,82E+00
Human toxicity, cancer	CTUh	4,89E+01	0,00E+00	7,50E-11	4,89E+01	ND	4,89E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,66E-10	1,34E-10	0,00E+00	-8,06E-10
Human toxicity non-cancer	CTUh	9,43E-07	0,00E+00	3,19E-09	9,47E-07	ND	1,58E-08	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,52E-08	2,11E-09	0,00E+00	-2,36E-08
SQP ⁷⁾	-	4,04E+00	0,00E+00	1,20E+01	1,61E+01	ND	2,04E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,36E+01	1,14E+00	0,00E+00	-3,38E+01

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator. 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	1,54E+01	0,00E+00	1,60E+01	3,14E+01	ND	5,17E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,21E-01	1,08E-01	0,00E+00	-3,33E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renew. PER	MJ	1,54E+01	0,00E+00	1,60E+01	3,14E+01	ND	5,17E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,21E-01	1,08E-01	0,00E+00	-3,33E+00
Non-re. PER as energy	MJ	2,96E+02	0,00E+00	2,38E+00	2,98E+02	ND	2,89E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,34E+01	1,72E+01	0,00E+00	-3,70E+01
Non-re. PER as material	MJ	0,00E+00	0,00E+00	8,95E-01	8,95E-01	ND	-8,95E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,60E-01
Total use of non-re. PER	MJ	2,96E+02	0,00E+00	3,28E+00	2,99E+02	ND	2,80E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,34E+01	1,72E+01	0,00E+00	-3,65E+01
Secondary materials	kg	1,17E+02	0,00E+00	3,28E-03	1,17E+02	ND	1,17E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,97E-03	7,11E-03	0,00E+00	-2,86E-02
Renew. secondary fuels	MJ	1,51E+02	0,00E+00	4,14E-04	1,51E+02	ND	1,51E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,27E-04	1,86E-05	0,00E+00	-2,78E-04
Non-ren. secondary fuels	MJ	2,41E+02	0,00E+00	0,00E+00	2,41E+02	ND	2,41E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m ³	7,69E-02	0,00E+00	3,21E-03	8,02E-02	ND	1,64E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,46E-03	1,10E-03	0,00E+00	-1,07E-01

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	4,50E-04	0,00E+00	1,56E-02	1,61E-02	ND	2,76E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,97E-02	1,93E-02	0,00E+00	-2,82E-01
Non-hazardous waste	kg	1,92E+00	0,00E+00	7,97E-01	2,72E+00	ND	3,84E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,35E-01	2,81E-01	0,00E+00	-5,28E+00
Radioactive waste	kg	6,76E-04	0,00E+00	3,50E-06	6,79E-04	ND	5,06E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,00E-06	1,80E-06	0,00E+00	-6,25E-05

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for reuse	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	1,10E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	3,00E+02	0,00E+00	0,00E+00
Materials for energy recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	1,63E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	6,90E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy –	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	9,40E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Potential	kg CO ₂ e	0,00E+00	0,00E+00	1,61E-01	1,61E-01	ND	5,57E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,61E+00	1,31E+00	0,00E+00	-3,02E+00
Ozone depletion Potential	kg CFC ₁₁ e	0,00E+00	0,00E+00	7,56E-09	7,56E-09	ND	7,32E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,90E-08	1,56E-08	0,00E+00	-2,08E-08
Acidification	kg SO ₂ e	0,00E+00	0,00E+00	6,64E-04	6,64E-04	ND	2,13E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,20E-03	8,28E-03	0,00E+00	-1,43E-02
Eutrophication	kg PO ₄ ³ e	0,00E+00	0,00E+00	2,18E-04	2,18E-04	ND	3,26E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,02E-03	1,95E-03	0,00E+00	-2,81E-03
POCP (“smog”)	kg C ₂ H ₄ e	0,00E+00	0,00E+00	5,46E-05	5,46E-05	ND	1,25E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,75E-04	6,22E-04	0,00E+00	-1,27E-03
ADP-elements	kg Sbe	0,00E+00	0,00E+00	3,54E-06	3,54E-06	ND	1,36E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,39E-06	4,60E-07	0,00E+00	-1,59E-05

ADP-fossil	MJ	0,00E+00	0,00E+00	3,04E+00	3,04E+00	ND	6,11E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,31E+01	1,71E+01	0,00E+00	-3,29E+01
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ADDITIONAL INDICATOR - GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ⁹⁾	kg CO ₂ e	8,05E+01	0,00E+00	1,62E-01	8,07E+01	ND	2,10E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,62E+00	1,32E+00	0,00E+00	-3,04E+00

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product . In addition, the characterisation factors for the flows - CH₄ fossil, CH₄ biogenic and Dinitrogen monoxide - were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterization factor for biogenic CO₂ is set to zero.

SCENARIO DOCUMENTATION

DATA SOURCES

Manufacturing energy scenario documentation

1. Electricity production, hydro, run-of-river, Austria, Ecoinvent, 0.0044 kgCO₂e/kWh
2. Electricity production, wind, 1-3MW turbine, onshore, Austria, Ecoinvent, 0.0187 kgCO₂e/kWh
3. Electricity production, photovoltaic, 570kWp open ground installation, multi-Si, Austria, Ecoinvent, 0.0998 kgCO₂e/kWh
4. Heat and power co-generation, wood chips, 6667 kW, state-of-the-art 2014, Austria, Ecoinvent, 0.0550 kgCO₂e/kWh

Transport scenario documentation A4

Scenario parameter	Value
Capacity utilization (including empty return) %	85
Bulk density of transported products	
Volume capacity utilization factor	1

Installation scenario documentation - A5 (Installation resources)

1. Concrete admixtures – Air entrainers, GaBi, 1.4 kg
2. Market for tap water, Ecoinvent, 150.0 kg
3. Market group for electricity, medium voltage, Ecoinvent, 1.5 kWh

Installation scenario documentation - A5 (Installation waste)

1. Direct emission to air: Water, One Click LCA, 0.1014 m³
2. Exported Energy: Electricity, Ecoinvent, 0.069 MJ
3. Exported Energy: Thermal, Ecoinvent, 0.094 MJ
4. Treatment of waste polyethylene, for recycling, unsorted, sorting, Ecoinvent, Materialien für das Recycling, 0.011 kg
5. Treatment of waste polyethylene, municipal incineration, Ecoinvent, 0.01 kg
6. Treatment of waste polyethylene, sanitary landfill, Ecoinvent, 0.0063 kg
7. Treatment of waste concrete, not reinforced, recycling, Ecoinvent, 0.03 kg

End-of-life scenario documentation - C1-C4 (Data source)

1. Treatment of waste concrete, not reinforced, recycling, Ecoinvent, Materialien für das Recycling,

300.0 kg

2. Market group for electricity, medium voltage, Ecoinvent, 3.0 kWh

Scenario information	Value
Scenario assumptions e.g. transportation	50 km - LKW Euro6

INTERNAL VERIFICATION STATEMENT

This EPD is internally verified in accordance with ISO 14025 and has been generated using a verified EPD tool. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The internal verification process has not identified any unjustified deviations from the PCR and EN 15804+A2 in the Environmental Product Declaration and its project report.

Internal verification has been done either through an EPD Hub-approved qualified internal verifier or an internal control system of the manufacturer.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

INTERNALLY VERIFIED ISO 14025

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

[Verified tools](#)

Tool verifier: Magaly Gonzalez Vazquez

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