ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Baumit Façade Colors

Baumit GmbH

EPD HUB, EPD number HUB-4032
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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.

Created with One Click LCA

baumit.com

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Baumit GmbH
Address	A-2754 Waldegg, Wopfing 156
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 +A2 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025
Sector	Bauprodukt
Category of EPD	Von Dritten geprüfte EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Dr. Jürgen Lorenz, Baumit Beteiligungen GmbH
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☑ External verification
EPD verifier	Sarah Curpen, as an authorized verifier acting for EPD Hub Limited

This EPD is intended for business-to-business and/or business-to-consumer communication. 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 Façade Colors
Additional labels	Baumit StarColor, Baumit GranoporColor, Baumit PuraColor, Baumit SilikatColor, Baumit SilikonColor
Product reference	--
Place(s) of raw material origin	--
Place of production	Wopfing - Austria
Place(s) of installation and use	EU
Period for data	01/2024 - 12/2024
Averaging in EPD	Multiple Products
Variation in GWP-fossil for A1-A3 (%)	-13% / +26%

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg
Declared unit mass	1 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	1,01E+00
GWP-total, A1-A3 ($kgCO_2e$)	1,00E+00
Secondary material, inputs (%)	1,64
Secondary material, outputs (%)	70
Total energy use, A1-A3 (kWh)	4,07
Net freshwater use, A1-A3 (m^3)	0,03

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Baumit, an Austrian family-owned company and leading building materials brand, researches, develops and produces facades, plasters and screeds for new construction, renovation and garden design. The extraction of raw materials as well as the further processing is resource-saving, regional and sustainable.

PRODUCT DESCRIPTION

Baumit Façade Colors are factory-produced, paste-like mixtures of one or more aqueous polymer dispersions, silicone resins, silicone emulsions, water glass, mineral fillers, water and additives. The solidification is carried out by drying and filming the polymer binders. They are usually preserved against bacteria, yeasts or fungi for the storage period. They can also be equipped to protect their own layer and surface against infestation by algae and fungi.

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

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Water	32,8	-
Minerals	58,3	EUR
Fossil materials	8,9	EUR
Bio-based materials	0	-

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	0,0052

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg
Mass per declared unit	1 kg

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.

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

Modules not declared = ND. Modules not relevant = MNR

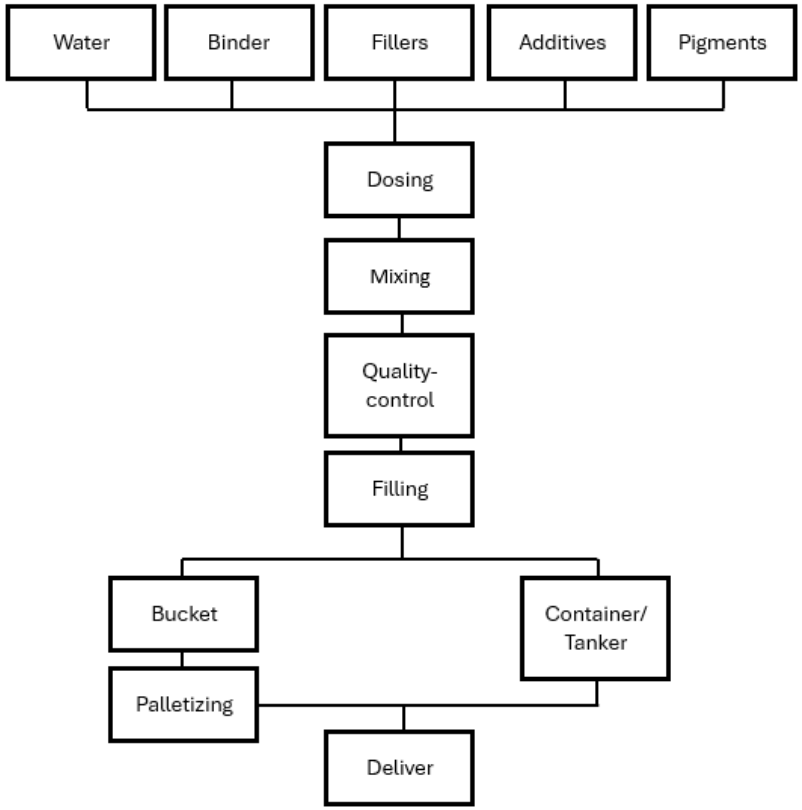
MANUFACTURING AND PACKAGING (A1-A3)

The relevant environmental impacts at the production stage relate to the production of raw materials, packaging materials and other auxiliary materials. The raw materials for these façade paints are water, pigments, fillers, binders and additives. As standard, the products are packaged in 14 liter polypropylene buckets.

Baumit Façade paints are produced in mixing plants according to the following process:

Filling of storage or weighing containers - Dosing of raw materials into the mixer - Dispersing and mixing - Quality control - Filling of products - Loading and delivery.

MANUFACTURING PROCESS



Electricity is mainly required during production. A location-based approach is used in modelling the electricity mix utilized in the factory.
The handling of waste generated during the production processes in the plants is also taken into account at this stage. The study also takes into account material losses during manufacturing processes.

BAUMIT complies with all necessary national regulations in the field of health and environmental protection. There is no risk to the environment or a negative impact on the production personnel in the production of the façade paints, especially because the production takes place in a closed plant up to filling. These mixing plants have an automatic dosing of raw materials, so that employees have practically no contact with raw materials.

Packaging such as films and paper is collected separately and sent for recycling. The plastic containers can be collected by contract disposal companies and sent for recycling. The reusable wooden pallets are taken back by the manufacturers in return for a refund in the deposit system and reused or thermally recycled.

TRANSPORT AND INSTALLATION (A4-A5)

The impacts of transporting the final products from the manufacturer to the construction site (A4) include the direct exhaust emissions of the fuel, the environmental impact of fuel production, as well as the associated infrastructure emissions.

A sales-weighted distance of 466 km on average has been calculated for transport to .

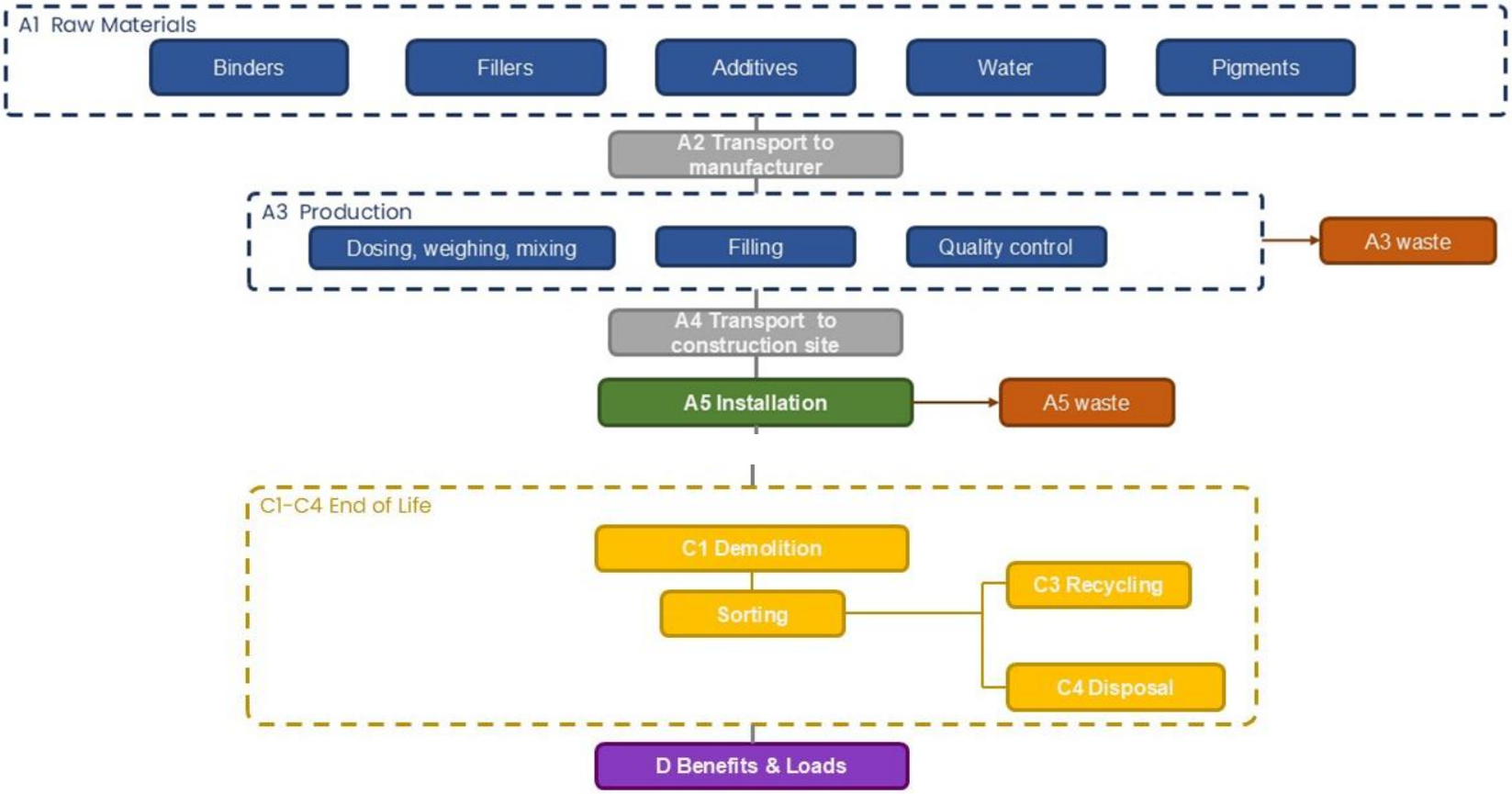
PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.
Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

Baumit Façade Colors are a thin-layer coatings that are firmly bonded to the corresponding component and therefore cannot be separated from the substrate. The subsoil is usually a mineral component, e.g. concrete, plaster or cement-bound mortar or a thermal insulation composite system and can therefore be fed into the recycling process (e.g. recycled concrete) or landfilled after dismantling and processing.
For module C1-C4, it is assumed that 30% is disposed of and 70% is recycled. Module D contains the credits of the incineration processes and recycling from A5 (packaging waste). A waste incineration plant with an R1 value> 0.6 was assumed.

SYSTEM DIAGRAM



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	No allocation
Packaging material	No allocation
Ancillary materials	No allocation
Manufacturing energy and waste	Allocation by mass or volume

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	Multiple Products
Grouping method	Based on average results of the product group - by total mass
Variation in GWP-fossil for A1-A3, %	-13% / +26%

For this EPD, an average calculation of the considered building with Façade Colors was carried out. The sales volumes of 2024 were used as a basis. Products covered with this EPD are Baumit StarColor, Baumit SilikonColor, Baumit GranoporColor, Baumit SilikatColor, Baumit PuraColor. This EPD applies exclusively to the products manufactured in the Wopfing wet plaster plant.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1 environmental data sources follow the methodology ‘allocation, Cut-off, EN 15804+A2‘.

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_2e	8,85E-01	4,12E-02	7,74E-02	1,00E+00	4,98E-02	5,37E-02	ND	ND	ND	ND	ND	ND	ND	2,18E-03	5,17E-03	4,29E-03	1,87E-03	-4,93E-02
GWP – fossil	kg CO_2e	8,84E-01	4,12E-02	8,29E-02	1,01E+00	4,98E-02	4,81E-02	ND	ND	ND	ND	ND	ND	ND	2,18E-03	5,17E-03	4,29E-03	1,87E-03	-4,77E-02
GWP – biogenic	kg CO_2e	0,00E+00	0,00E+00	-5,60E-03	-5,60E-03	0,00E+00	5,60E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,60E-03
GWP – LULUC	kg CO_2e	7,24E-04	1,67E-05	6,48E-05	8,06E-04	1,94E-05	1,01E-05	ND	ND	ND	ND	ND	ND	ND	2,88E-06	2,01E-06	4,39E-07	1,07E-06	-3,97E-05
Ozone depletion pot.	kg $CFC\text{-}_{11}e$	2,97E-07	7,84E-10	3,53E-09	3,01E-07	1,04E-09	3,04E-09	ND	ND	ND	ND	ND	ND	ND	5,14E-11	1,08E-10	6,57E-11	5,42E-11	-1,49E-09
Acidification potential	mol H^+e	1,49E-02	1,10E-04	2,70E-04	1,52E-02	1,17E-04	1,64E-04	ND	ND	ND	ND	ND	ND	ND	5,98E-06	1,22E-05	3,87E-05	1,33E-05	-2,10E-04
EP-freshwater[2)]	kg Pe	2,92E-04	2,97E-06	2,22E-05	3,17E-04	3,48E-06	3,79E-06	ND	ND	ND	ND	ND	ND	ND	2,15E-06	3,61E-07	1,24E-07	1,54E-07	-1,49E-05
EP-marine	kg Ne	9,72E-04	3,16E-05	5,37E-05	1,06E-03	3,08E-05	1,79E-05	ND	ND	ND	ND	ND	ND	ND	1,58E-06	3,20E-06	1,80E-05	5,06E-06	-3,81E-05
EP-terrestrial	mol Ne	8,49E-03	3,43E-04	5,47E-04	9,38E-03	3,33E-04	1,38E-04	ND	ND	ND	ND	ND	ND	ND	1,32E-05	3,46E-05	1,97E-04	5,53E-05	-4,12E-04
POCP ("smog")[3)]	kg NMVOCe	4,01E-03	1,80E-04	4,19E-04	4,61E-03	2,04E-04	5,99E-05	ND	ND	ND	ND	ND	ND	ND	4,59E-06	2,12E-05	5,86E-05	1,98E-05	-2,27E-04
ADP-minerals & metals[4)]	kg Sbe	7,87E-06	1,17E-07	6,77E-07	8,66E-06	1,42E-07	9,79E-08	ND	ND	ND	ND	ND	ND	ND	6,54E-09	1,48E-08	1,54E-09	2,98E-09	-2,79E-07
ADP-fossil resources	MJ	1,39E+01	6,12E-01	2,47E+00	1,70E+01	7,48E-01	1,97E-01	ND	ND	ND	ND	ND	ND	ND	3,52E-02	7,77E-02	5,61E-02	4,60E-02	-1,18E+00
Water use[5)]	m^3e depr.	1,01E+00	3,10E-03	3,38E-02	1,05E+00	3,83E-03	4,41E-01	ND	ND	ND	ND	ND	ND	ND	2,18E-03	3,98E-04	1,40E-04	1,33E-04	-2,16E-02

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	6,99E-08	4,04E-09	2,13E-09	7,61E-08	4,86E-09	9,23E-10	ND	ND	ND	ND	ND	ND	ND	2,86E-11	5,04E-10	6,31E-09	3,02E-10	-1,96E-09
Ionizing radiation[6)]	kBq U235e	9,41E-02	6,78E-04	9,50E-03	1,04E-01	9,01E-04	1,19E-03	ND	ND	ND	ND	ND	ND	ND	5,50E-04	9,36E-05	2,49E-05	2,89E-05	-6,36E-03
Ecotoxicity (freshwater)	CTUe	1,57E+01	7,63E-02	2,09E-01	1,60E+01	8,81E-02	1,78E-01	ND	ND	ND	ND	ND	ND	ND	5,98E-03	9,15E-03	3,09E-03	3,86E-03	-1,06E-01
Human toxicity, cancer	CTUh	6,78E-10	6,84E-12	2,46E-11	7,09E-10	8,29E-12	9,28E-12	ND	ND	ND	ND	ND	ND	ND	4,27E-13	8,61E-13	4,41E-13	3,45E-13	-9,83E-12
Human tox. non-cancer	CTUh	2,19E-08	3,96E-10	7,09E-10	2,30E-08	4,83E-10	3,14E-10	ND	ND	ND	ND	ND	ND	ND	1,62E-11	5,02E-11	6,98E-12	7,93E-12	-3,75E-10
SQP[7)]	-	4,76E+00	6,16E-01	8,05E-01	6,18E+00	7,53E-01	9,09E-02	ND	ND	ND	ND	ND	ND	ND	1,07E-02	7,82E-02	3,93E-03	9,05E-02	-2,21E-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	1,35E+00	9,50E-03	1,93E-01	1,55E+00	1,22E-02	-2,95E-02	ND	ND	ND	ND	ND	ND	ND	2,89E-02	1,26E-03	3,55E-04	4,44E-04	-5,97E-02
Renew. PER as material	MJ	0,00E+00	0,00E+00	4,90E-02	4,90E-02	0,00E+00	-4,90E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,40E-02
Total use of renew. PER	MJ	1,35E+00	9,50E-03	2,42E-01	1,60E+00	1,22E-02	-7,85E-02	ND	ND	ND	ND	ND	ND	ND	2,89E-02	1,26E-03	3,55E-04	4,44E-04	-4,57E-02
Non-re. PER as energy	MJ	1,10E+01	6,12E-01	1,49E+00	1,31E+01	7,48E-01	-1,05E+00	ND	ND	ND	ND	ND	ND	ND	3,52E-02	7,77E-02	5,61E-02	4,60E-02	-1,18E+00
Non-re. PER as material	MJ	0,00E+00	0,00E+00	9,78E-01	9,78E-01	0,00E+00	-9,78E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,01E-01
Total use of non-re. PER	MJ	1,10E+01	6,12E-01	2,47E+00	1,41E+01	7,48E-01	-2,03E+00	ND	ND	ND	ND	ND	ND	ND	3,52E-02	7,77E-02	5,61E-02	4,60E-02	-6,77E-01
Secondary materials	kg	1,64E-02	2,63E-04	6,92E-04	1,74E-02	3,23E-04	2,26E-04	ND	ND	ND	ND	ND	ND	ND	7,35E-06	3,36E-05	2,33E-05	1,16E-05	1,24E-02
Renew. secondary fuels	MJ	2,00E-04	3,33E-06	2,06E-03	2,26E-03	4,08E-06	2,31E-05	ND	ND	ND	ND	ND	ND	ND	2,86E-08	4,24E-07	6,09E-08	2,39E-07	-1,74E-06
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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
Use of net fresh water	m^3	2,44E-02	9,04E-05	8,79E-04	2,53E-02	1,10E-04	2,43E-04	ND	ND	ND	ND	ND	ND	ND	5,58E-05	1,15E-05	3,71E-06	4,78E-05	-5,95E-04

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	1,39E-01	9,29E-04	3,39E-03	1,44E-01	1,08E-03	1,88E-03	ND	ND	ND	ND	ND	ND	ND	7,28E-05	1,12E-04	6,25E-05	5,08E-05	-2,60E-03
Non-hazardous waste	kg	8,06E+00	1,81E-02	6,16E-01	8,69E+00	2,17E-02	1,46E-01	ND	ND	ND	ND	ND	ND	ND	1,06E-02	2,25E-03	8,51E-04	1,16E-03	-3,02E-01
Radioactive waste	kg	2,41E-05	1,67E-07	2,43E-06	2,67E-05	2,23E-07	3,04E-07	ND	ND	ND	ND	ND	ND	ND	1,42E-07	2,32E-08	6,10E-09	7,04E-09	-1,62E-06

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 re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	1,60E-03	1,60E-03	0,00E+00	1,31E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	7,00E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	0,00E+00	1,80E-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	0,00E+00	7,82E-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 – Heat	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,02E-01	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 Pot.	kg CO_2e	8,82E-01	4,09E-02	8,20E-02	1,00E+00	4,95E-02	4,81E-02	ND	ND	ND	ND	ND	ND	ND	2,18E-03	5,14E-03	4,27E-03	1,86E-03	-4,70E-02
Ozone depletion Pot.	kg $CFC_{-11}e$	3,17E-07	6,24E-10	2,83E-09	3,20E-07	8,26E-10	3,23E-09	ND	ND	ND	ND	ND	ND	ND	4,32E-11	8,58E-11	5,20E-11	4,31E-11	-1,21E-09
Acidification	kg SO_2e	1,32E-02	8,60E-05	2,23E-04	1,35E-02	9,32E-05	1,44E-04	ND	ND	ND	ND	ND	ND	ND	4,87E-06	9,68E-06	2,72E-05	9,83E-06	-1,73E-04
Eutrophication	kg PO_4^3e	1,07E-02	2,13E-05	1,45E-04	1,08E-02	2,33E-05	1,11E-04	ND	ND	ND	ND	ND	ND	ND	1,24E-06	2,42E-06	6,36E-06	3,12E-06	-5,60E-05
POCP (“smog”)	kg C_2H_4e	7,50E-04	8,36E-06	2,43E-05	7,83E-04	9,50E-06	8,66E-06	ND	ND	ND	ND	ND	ND	ND	3,69E-07	9,87E-07	2,04E-06	9,29E-07	-1,76E-05
ADP-elements	kg Sbe	1,71E-05	1,14E-07	6,68E-07	1,79E-05	1,39E-07	1,90E-07	ND	ND	ND	ND	ND	ND	ND	6,48E-09	1,44E-08	1,49E-09	2,92E-09	-2,75E-07
ADP-fossil	MJ	1,22E+01	6,01E-01	2,31E+00	1,51E+01	7,33E-01	1,76E-01	ND	ND	ND	ND	ND	ND	ND	2,50E-02	7,61E-02	5,57E-02	4,55E-02	-1,07E+00

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_2e	8,85E-01	4,12E-02	8,30E-02	1,01E+00	4,98E-02	4,81E-02	ND	ND	ND	ND	ND	ND	ND	2,18E-03	5,17E-03	4,29E-03	1,87E-03	-4,77E-02

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 characterisation factor for biogenic CO2 is set to zero.

SCENARIO DOCUMENTATION

Manufacturing energy scenario documentation

Scenario parameter	Value
Electricity data source and quality	Market for electricity, medium voltage (Reference product: electricity, medium voltage) - Ecoinvent 3.10.1 - Austria
Electricity CO2e / kWh	0,22
District heating data source and quality	n.a.
District heating CO2e / kWh	0

Transport scenario documentation A4

Scenario parameter	Value
Fuel and vehicle type. Eg, electric truck, diesel powered truck	0,19
Average transport distance, km	466
Capacity utilization (including empty return) %	85
Bulk density of transported products	1600
Volume capacity utilization factor	1

Installation scenario documentation A5

Scenario information	Value
Ancillary materials for installation (specified by material) / kg or other units as appropriate	0
Water use / m³	0
Other resource use / kg	0
Quantitative description of energy type (regional mix) and consumption during the installation process / kWh or MJ	0,00133
Waste materials on the building site before waste processing, generated by the product's installation (specified by type) / kg	0,03314
Output materials (specified by type) as result of waste processing at the building site e.g. collection for recycling, for energy recovery, disposal (specified by route) / kg	0,03314
Direct emissions to ambient air, soil and water / kg	0,3

End of life scenario documentation

Scenario information	Value
Collection process – kg collected separately	0,777
Collection process – kg collected with mixed waste	0,777
Recovery process – kg for re-use	0
Recovery process – kg for recycling	0,7
Recovery process – kg for energy recovery	0
Disposal (total) – kg for final deposition	0,3
Scenario assumptions e.g. transportation	50 km - LKW Euro6

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15804+A2 in the Environmental Product Declaration and its project report.

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.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

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
Tool verification validity: 27 March 2025 - 26 March 2028

Sarah Curpen, as an authorized verifier acting for EPD Hub Limited
26.09.2025