

Environmental Product Declaration



In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 in addition to ISO 21930:2017 for:

Little Greene Intelligent Matt Paint
from Little Greene Paint Company

Little Greene®
— PAINT & PAPER —

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of a single product from one manufacturer
EPD registration number:	EPD-IES-0031782:001
Version date:	2026-07-22
Validity date:	2031-07-21
<i>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</i>	



Product image above is shown for illustrative purposes only. This EPD covers the base paint only.

GENERAL INFORMATION

Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	support@environdec.com

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): International EPD System PCR 2019:14 "Construction products", v2.0.1, 2025-06-05. UN CPC code is 351: Paints and varnishes and related products; artists' colours; ink
PCR review was conducted by: The Technical Committee of the International EPD System. A full list of members is available on www.environdec.com . The review panel may be contacted via support@environdec.com . Review chair: Rob Rouwette (chair), Noa Meron (co-chair).

Third-party Verification
External and independent ('third-party') verification of the declaration and data, according to ISO 14025:2006, via EPD verification through:
☒ Individual EPD verification without a pre-verified LCA/EPD tool Third-party verifier: <i>Charnett Chau, Freelance</i> Approved by: The International EPD System
Procedure for follow-up of data during EPD validity involves third party verifier: ☐ Yes ☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

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 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.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: Little Greene Paint Company

Address: The Coach Works, 420 Ashton Old Rd in Manchester, England M11 2DT

Contact: Mr Pritesh Chauhan (pritesh.chauhan@thelittlegreene.com)

Address and contact information of the LCA practitioner commissioned by the EPD owner, if applicable: Dr Gareth Davies, Tunley Environmental, 9 High Ash Crescent, Leeds, United Kingdom, LS17 8RP, UK, garethdavies@tunley-environmental.com.

Description of the organisation:

Little Greene is a family-run business, with their own factory nestled in the foothills of Mount Snowdon in North Wales. They are the only British paint maker still producing a complete range of traditional and modern finishes. With records dating back to 1773, 'The Little Greene Dye Works' was originally a small company that supplied pigments and dyes to local weaving mills. Today, the Little Greene headquarters are based very close to the original site.

Their portfolio includes interior and exterior finishes, oil-based paints, floor paints and a signature range of hard-wearing, water-based 'Intelligent Paints', especially designed for today's busy homes.

Little Greene's Intelligent Paints have a renowned pedigree for combining a beautiful finish with unrivalled durability, ease of application and peace of mind. Intelligent Grip™ technology means you can prime and paint any surface from a single tin. In addition to providing a beautiful finish, the 'Intelligent,' water-based paints are durable and hard-wearing, produced to resist the wear and tear of the modern family home. The paints in their 'Intelligent' range are up to 15 times tougher than ordinary household paints.

Little Greene are committed to the ongoing well-being and protection of the world environment. In 2004, they were one of the first UK paint manufacturers to achieve the European environmental standard BS EN ISO 14001.

PRODUCT INFORMATION

Product name: Little Greene Intelligent Matt Paint

Product identification: DP17



UN CPC code: UN CPC code is 351: Paints and varnishes and related products; artists' colours; ink.

Product description: Intelligent Matt is a high-quality, self-priming, low odour, reinforced water-based matt finish displaying excellent adhesion to existing aged alkyd finishes. Outstanding water resistance and excellent adhesion characteristics make this product highly suited for painting high traffic area walls. This product is suitable for interior and exterior applications. This EPD covers the blank white, non-coloured base paint product only. It does not include any additional colourants or tinting pigments added after manufacture to produce a final-coloured paint. Where colourants are added, they typically represent approximately 0.5 wt.% to 5 wt.% of the final wet paint product, depending on the colour and tint strength. These colourants are outside the declared product covered by this EPD.

Technical data for each of the Little Greene products can be found online at <https://www.littlegreene.com/stockists-product-advice-sheets>.

Disclaimer - The information on this data sheet is correct to the best of our knowledge and experience. The Little Greene Paint Company reserves the right to modify data contained herein, without notice. The information supplied does not absolve users from responsibility to carry out their own tests and experiments, not does it imply any legally binding assurance of certain properties or suitability for any specific purpose. Conditions of service and application may be beyond our control, so no liability whatsoever can be accepted on the basis of the information supplied herein.

Gloss Level	Theoretical Coverage	Recommended film thickness	Recommended number of coats	Surface dry	Time to recoat	Volume solids
Matt (2%)	14 m2 per litre	30 microns dry, per coat	2-3	30 minutes	1-4 hours	43%

Name and location of production site(s): Little Greene, Bradite Works, Ogwen Valley Works B4409, Bangor LL57 4YP.

CONTENT DECLARATION

The mass (weight) of one unit of a product, as purchased or per declared unit: 1.41 kg/L.

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Water	0.24	0%	0%	0.00E+00
Chemical modifier	0.036	0%	0.05%	3.86E-04
Biocides	0.013	0%	0%	0.00E+00
Dispersant	0.55	0%	0%	0.00E+00
Defoamer	0.011	0%	0%	0.00E+00
Calcium carbonate	0.060	0%	0%	0.00E+00
Kaolin	0.22	0%	0%	0.00E+00
Titanium dioxide	0.26	0%	0%	0.00E+00
Solvent	0.014	0%	0%	0.00E+00
Total	1.41			

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
Steel container	0.104	7.4%	0.00E+00
Timber pallet	0.023	1.7%	9.50E-03
Total	0.13		

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂.

The Little Greene Intelligent Matt Paint product does not contain any noted SVHCs (Substances of Very High Concern) listed by ECHA (European Chemicals Agency) in concentrations exceeding 0.1% (w/w).

LCA INFORMATION

Declared unit: One litre (L) of paint product, plus packaging.

Conversion factor to mass: 1.41 kg/L.

Time representativeness: 2025 calendar year.

Geographical scope: UK (production and disposal), Europe (material supply).

Database(s) and LCA software used: Ecoinvent v3.11, allocation, cut off by classification, SimaPro version 10.3.0.1.

Description of system boundaries: A type a) EPD covering Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D). The use stage (B1–B7) was not considered as there are no activities relevant to the product's use which are quantifiable. The construction stage (A4–A5) was not covered due to a lack of data availability and no monitoring of a varied downstream implementation.

Product stage: Raw material supply, Transport and Manufacturing (A1–A3)

The product stage includes the extraction, processing, and manufacture of all raw materials used in the Little Greene Intelligent Matt Paint. It is primarily a mixture of water, dispersants, and titanium dioxide with other additives making a smaller proportion of the paint mixture. This stage also includes the packaging from purchased materials, and the packaging used to distribute the finished paint product. The end-of-life processing of the packaging materials are also realised in the A3 module. Benefits and loads realised outside of the system due to energy recovery and material substitution of the packaging products are allocated to module D. The transportation of all materials and packaging to site are considered within the A2 module. Finally, facility wide electricity usage and water supply is considered based on the output of the paint product.

End of life stage: De-construction demolition, Transport, Waste processing and Disposal (C1–C4)

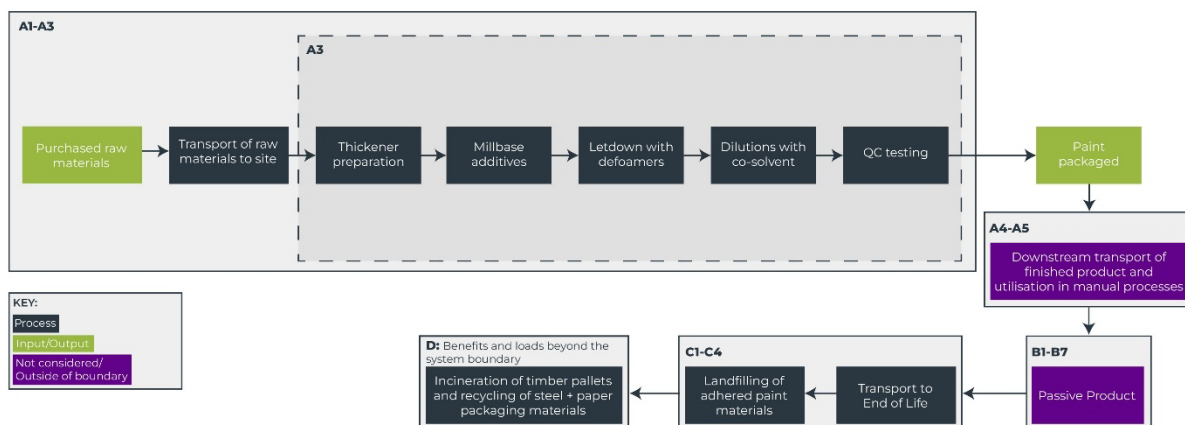
End of life processes were modelled using the default scenarios provided in PCR 2019:14 based on the mass balance of materials within the system. These modules include transport of materials to waste processing facilities, sorting and treatment processes, and final disposal pathways. All embedded (painted on) paint materials are allocated to landfilling at end of life to the inability to separate and re-use, recycle, or recovery any proportion of the paint product.

Scenario Information	Value
Fuel and Vehicle Type	16 to 32 tonne lorry, diesel, EURO 5
Distance to non-incineration waste treatment (km)	80
Distance to incineration (km)	130
Capacity utilisation (%)	50
Gross mass of products transported (kg)	1.41
Volume capacity utilisation factor	1

Resource recovery stage: Reuse - Recovery - Recycling potential (D)

Module D reports the benefits and loads associated with material and energy recovery beyond the system boundary. Recovered steel and paper packaging are assumed to substitute equivalent steel and paper products, respectively, using a substitution approach. Energy generated from the incineration of timber pallets is assumed to offset conventional electricity generation.

Process flow diagram:



Cut-off and allocation

Cut off rules were applied in accordance with EN 15804+A2, ISO 21930 and PCR 2019:14 v2.0.1. All available data were included where possible, with 1% cut off per unit process and 95% completeness per aggregated module. Exclusions were limited to non-material items such as commuting, business travel, capital goods, infrastructure, and minor tools or consumables.

Allocation was avoided where possible. Material inputs were directly assigned from BoMs and measured weights. Where required, packaging was allocated by mass, while manufacturing electricity and water were allocated by production volume. Background datasets follow Ecoinvent v3.11 allocation rules, including the cut off approach for secondary materials.

More information:

The LCA calculations are based on 1-year averaged data and have been updated within the last 5 years. These data were checked to ensure that sufficient materials, energy, and water are included within the inputs to account for all products, wastes and emissions.

Data quality was assessed using the Product Environmental Footprint (PEF) Data Quality Rating methodology. The dataset achieved a geographical representativeness score of 2.23, technological representativeness score of 1.91, and temporal representativeness score of 2.09, resulting in an overall Data Quality Rating of 2.08. According to the PEF rating scale, this indicates that the overall data quality is classified as good. Data quality was assessed according to EN 15804 Annex E. No relevant datasets rated “fair” contribute more than 30% of GWP-GHG, and no datasets rated “poor” or “very poor” contribute more than 10% of GWP-GHG.

The UK residual electricity mix from Ecoinvent v3.11 was used for all manufacturing electricity under the direct control of Little Greene: 1 kWh electricity, medium voltage {GB}, residual mix. This dataset represents untracked electricity consumption that is not supported by contractual instruments such as Guarantees of Origin. Its composition is valid for 2023 and was calculated using Association of Issuing Bodies residual mix data.

For electricity use outside Little Greene’s direct control, the UK medium voltage market mix was used: 1 kWh electricity, medium voltage {GB}, market. This market dataset represents the UK electricity consumption mix by connecting domestic generation and imported electricity with consumers. It includes transmission infrastructure, associated direct emissions and transmission losses. The electricity technology shares and grid losses are based on 2021 statistics.

Item	GWP-GHG (kg CO ₂ e/kWh)	Fossil	Nuclear	Biomass	Renewable
1 kWh Electricity, medium voltage {GB} - Residual	0.469	68%	19%	2%	11%
1 kWh Electricity, medium voltage {GB} - Market	0.281	49%	34%	5%	12%

Material and process environmental impact factors come from Ecoinvent v3.11. Calculations were carried out in SimaPro 10.3.0.1 and Excel. JRC EN 15804 reference package (EF 3.1) was utilised in this LCA. Manufacture and maintenance of capital equipment, buildings, and other infrastructure are not included in the LCA model.

Material and energy substitution is utilised for the modelling of module D benefits outside of the system boundary. A recovery rate of 90% is applied for steel packaging and a recovery rate of 80% is applied for paper. An energy conversion of 22% to electricity is applied for the timber pallet.

Modules declared, geographical scope, share of primary data (in GWP-GHG results) and data variation (in GWP-GHG results):

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.

Product lifecycle stages																	
	Product stage			Distribution/ installation stage		Use stage						End-of-life stage				Beyond product life cycle	
Module	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	EU	UK	UK	ND	ND	ND	ND	ND	ND	ND	ND	ND	UK	UK	UK	UK	EU

Process	Source type	Source	Reference year	Data category	Share of primary data, of GWP-GHG results for A1-A3
Raw materials	Database	Ecoinvent v3.11	2025 Calendar Year	Secondary	0.0%
Upstream transport	Database	Ecoinvent v3.11	2025 Calendar Year	Primary	2.1%
Packaging used for raw materials	Database	Ecoinvent v3.11	2025 Calendar Year	Secondary	0.0%
Product packaging used	Database	Ecoinvent v3.11	2025 Calendar Year	Secondary	0.0%
Manufacturing processes	Database	Ecoinvent v3.11	2025 Calendar Year	Primary	0.6%
End of life processes	Database	Ecoinvent v3.11	2025 Calendar Year	Secondary	0.0%
Total share of primary data, of GWP-GHG results for A1-A3					2.7%

ENVIRONMENTAL PERFORMANCE

LCA results of the product(s) - main environmental performance results

Mandatory impact category indicators according to EN 15804

Results per declared unit							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	4.15E+00	0.00E+00	2.14E-02	0.00E+00	2.27E-03	-1.47E-01
GWP-fossil	kg CO ₂ eq.	4.03E+00	0.00E+00	2.14E-02	0.00E+00	8.49E-04	-1.39E-01
GWP-biogenic	kg CO ₂ eq.	1.17E-01	0.00E+00	1.47E-05	0.00E+00	1.42E-03	-8.83E-03
GWP-luluc	kg CO ₂ eq.	3.37E-03	0.00E+00	7.09E-06	0.00E+00	2.23E-07	-6.73E-06
ODP	kg CFC 11 eq.	4.29E-07	0.00E+00	4.67E-10	0.00E+00	1.24E-11	-2.47E-10
AP	mol H ⁺ eq.	5.56E-02	0.00E+00	6.88E-05	0.00E+00	1.02E-05	-4.38E-04
EP-freshwater	kg P eq.	1.37E-03	0.00E+00	1.46E-06	0.00E+00	4.85E-08	-4.00E-05
EP-marine	kg N eq.	4.26E-03	0.00E+00	2.32E-05	0.00E+00	4.55E-06	-1.10E-04
EP-terrestrial	mol N eq.	3.81E-02	0.00E+00	2.52E-04	0.00E+00	4.98E-05	-1.20E-03
POCP	kg NMVOC eq.	1.75E-02	0.00E+00	1.04E-04	0.00E+00	1.40E-05	-4.20E-04
ADP-minerals&metals*	kg Sb eq.	2.80E-05	0.00E+00	7.22E-08	0.00E+00	3.22E-09	1.17E-07
ADP-fossil*	MJ	5.73E+01	0.00E+00	3.04E-01	0.00E+00	1.08E-02	-1.15E+00
WDP*	m ³	3.02E+00	0.00E+00	1.18E-03	0.00E+00	2.67E-05	-1.07E-02
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption						

*Disclaimer: 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 experienced with the indicator.

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).

Biogenic carbon was balanced by reporting uptake in the module where the biomass-based material enters the system and an equivalent release in A3 or C3, depending on where that material is treated or leaves the system.

Additional mandatory and voluntary impact category indicators

Results per declared unit							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	4.03E+00	0.00E+00	2.14E-02	0.00E+00	8.49E-04	-1.39E-01
PM	Disease incidence	3.02E-07	0.00E+00	1.71E-09	0.00E+00	1.98E-11	-1.07E-08
IRP ²	kBq U235 eq.	3.89E-01	0.00E+00	3.62E-04	0.00E+00	5.53E-06	6.54E-03
ETP-fw ³	CTUe	6.77E+01	0.00E+00	4.03E-02	0.00E+00	9.51E-04	-6.32E+00
HTP-c ³	CTUh	5.46E-08	0.00E+00	3.63E-12	0.00E+00	1.02E-13	-1.96E-08
HTP-nc ³	CTUh	7.33E-08	0.00E+00	1.89E-10	0.00E+00	3.11E-12	8.78E-11
SQP ³	dimensionless	2.62E+01	0.00E+00	1.80E-01	0.00E+00	8.51E-04	-1.21E+00
Acronyms	GWP-GHG = Global warming potential greenhouse gases, this declares all biogenic emissions at zero; PM = particulate matter emissions; IRP = ionizing radiation, human health; ETP-fw = eco-toxicity to freshwater; HTP-c = human toxicity cancer effects; HTP-nc = human toxicity, non-cancer effects; SQP = Land use related impacts/ soil quality.						

Resource use indicators

Results per declared unit							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
PERE	MJ	5.96E+00	0.00E+00	4.96E-03	0.00E+00	1.19E-02	-1.12E-01
PERM	MJ	1.18E-02	0.00E+00	0.00E+00	0.00E+00	-1.18E-02	0.00E+00
PERT	MJ	5.97E+00	0.00E+00	4.96E-03	0.00E+00	1.24E-04	-1.12E-01
PENRE	MJ	5.98E+01	0.00E+00	3.23E-01	0.00E+00	1.45E+00	-1.24E+00
PENRM	MJ	1.43E+00	0.00E+00	0.00E+00	0.00E+00	-1.43E+00	0.00E+00
PENRT	MJ	6.12E+01	0.00E+00	3.23E-01	0.00E+00	1.15E-02	-1.24E+00
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	7.58E-02	0.00E+00	3.79E-05	0.00E+00	9.71E-07	-2.28E-04
Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water						

¹ This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

² 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.

³ The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

Waste indicators

Results per declared unit							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5.05E-02	0.00E+00	7.67E-06	0.00E+00	2.81E-06	-2.53E-05
Non-hazardous waste disposed	kg	2.05E+00	0.00E+00	1.46E-02	0.00E+00	1.41E+00	6.99E-03
Radioactive waste disposed	kg	9.90E-05	0.00E+00	8.93E-08	0.00E+00	1.36E-09	-1.90E-06

Output flow indicators

Results per declared unit							
Indicator	Unit	A1-A3	C1	C2	C3	C4	D
Components for re-use	kg	2.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	1.12E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	2.35E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	6.97E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EPD	Environmental Product Declaration
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
LCA	Life Cycle Assessment
PCR	Product Category Rules
c-PCR	Complementary Product Category Rules
CEN	European Committee for Standardization
CLC	Co-location centre
CPC	Central product classification
GHS	Globally harmonized system of classification and labelling of chemicals
GRI	Global Reporting Initiative
Environmental Impact Indicators (EN 15804)	
GHG	Greenhouse gas
GWP	Global Warming Potential (kg CO ₂ eq.)
GWP-fossil	Global Warming Potential from fossil sources (kg CO ₂ eq.)
GWP-biogenic	Global Warming Potential from biogenic sources (kg CO ₂ eq.)
GWP-luluc	Global Warming Potential from land use and land use change (kg CO ₂ eq.)
GWP-total	Total Global Warming Potential (kg CO ₂ eq.)
GWP-GHG	Global Warming Potential for greenhouse gases (kg CO ₂ eq.)
ODP	Ozone Depletion Potential (kg CFC-11 eq.)
AP	Acidification Potential (mol H ⁺ eq.)
EP	Eutrophication Potential
EP-freshwater	Freshwater eutrophication potential (kg P eq.)
EP-marine	Marine eutrophication potential (kg N eq.)
EP-terrestrial	Terrestrial eutrophication potential (mol N eq.)
POCP	Photochemical Ozone Creation Potential (kg NMVOC eq.)
ADP	Abiotic Depletion Potential
ADP-minerals&metals	Abiotic depletion potential for non-fossil resources (kg Sb eq.)
ADP-fossil	Abiotic depletion potential for fossil resources (MJ)
WDP	Water Deprivation Potential (m ³)
Resource Use Indicators	
PERE	Use of renewable primary energy excluding renewable primary energy resources used as raw materials (MJ)
PERM	Use of renewable primary energy resources used as raw materials (MJ)
PERT	Total use of renewable primary energy resources (MJ)
PENRE	Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials (MJ)
PENRM	Use of non-renewable primary energy resources used as raw materials (MJ)
PENRT	Total use of non-renewable primary energy resources (MJ)
SM	Use of secondary material (kg)
RSF	Use of renewable secondary fuels (MJ)
NRSF	Use of non-renewable secondary fuels (MJ)
FW	Use of net fresh water (m ³)
Waste Indicators	
HW	Hazardous Waste (disposed) (kg)
NHW	Non-Hazardous Waste (disposed) (kg)
RW	Radioactive Waste (disposed) (kg)
Output Flow Indicators	
CFR	Components for Reuse (kg)
MR	Material for Recycling (kg)
MER	Materials for Energy Recovery (kg)
EEE	Exported Energy, Electricity (MJ)
EET	Exported Energy, Thermal (MJ)
Lifecycle Stages / Modules	
A1	Raw material supply
A2	Transport
A3	Manufacturing
A4	Transport to site

A5	Construction/Installation
B1	Use
B2	Maintenance
B3	Repair
B4	Replacement
B5	Refurbishment
B6	Operational energy use
B7	Operational water use
C1	Deconstruction/Demolition
C2	Transport to waste processing
C3	Waste processing
C4	Disposal
D	Reuse-Recovery-Recycling potential

Other Relevant Terms	
SVHC	Substances of Very High Concern
EC No.	European Community Number
CAS No.	Chemical Abstracts Service Number
MJ	Megajoule
kg	Kilogram
m ³	Cubic Meter
NM VOC	Non-Methane Volatile Organic Compounds
Sb eq.	Antimony Equivalents
P eq.	Phosphorus Equivalents
N eq.	Nitrogen Equivalents
CFC-11 eq.	Chlorofluorocarbon-11 Equivalents
CO ₂ eq.	Carbon Dioxide Equivalents
kg C	Kilograms of Carbon
kg CO ₂ eq.	Kilograms of Carbon Dioxide Equivalent
ND	Not Declared

REFERENCES

- a) General Program Instructions, Version 5.0, 2025-02-27 - The International EPD System - EPD International AB.
- b) PCR 2019:14 - Construction products, version 2.0.1, 2025-06-05 - The International EPD® System – EPD International AB
- c) EN 15804:2012+A2:2019/AC:2021 – Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products.
- d) Ecoinvent database – www.ecoinvent.ch with JRC EN15804 reference package.
- e) ISO 14025:2009-11 - Environmental labels and declarations - Type III environmental declarations - Principles and procedures.
- f) SimaPro version 10.3.0.1
- g) ISO 21930:2017 - Sustainability in buildings and civil engineering works — Core rules for environmental product declarations of construction products and services.
- h) <https://www.littlegreene.com/stockists-product-advice-sheets>.
- i) <https://www.littlegreene.com/intelligent-grip>.

VERSION HISTORY

Original Version of the EPD, 2026-07-22

