Environmental Product Declaration

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

MP 75

from

KNAUF Praha, spol. s r.o.

Programme:	The International EPD System, www.environdec.com
Programme operator:	EPD International AB
Type of EPD:	EPD of a single product from a manufacturer
EPD registration number:	EPD-IES-0027174:001
Version date:	2025-11-04
Validity date:	2030-11-03
	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

GENERAL INFORMATION

Programme Information	
Programme:	The International EPD® System
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Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): PCR 2019:14 Construction products (version 2.0.1)
PCR review was conducted by: The Technical Committee of the International EPD® System. Chair of the PCR review is Rob Rouwette. The review panel may be contacted via info@environdec.com.
c-PCR, if applicable: c-*PCR-031 (to PCR 2019:14) Gypsum-based construction products (EN 17328:2024) (version 1.0.0)*

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ **Individual EPD verification without a pre-verified LCA/EPD tool** Third-party verifier: prof. Ing. Silvia Vilčeková, PhD., Silcert, s.r.o. Approved by: 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/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.

INFORMATION ABOUT EPD OWNER

Owner of the EPD: KNAUF Praha, spol. s r.o.
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LCA Studio s.r.o.
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LCA Studio

Description of the organisation: KNAUF Praha, s.r.o., has been on the Czech construction market since 1992. These days it is one of the most famous producers of construction products in the field of production and sale of gypsum plasterboards and similar systems. Knauf is focused on the production of systems for dry construction, floors, plasters, and facades. The systems of dry construction present a synonym for thermal insulation and effective protection against noise and fire. KNAUF brand is always connected with the high quality of the products and top of the range expert service including consultancy and expert formation of its partners.
Product-related or management system-related certifications: Gypsum plasters are manufactured according to EN 13279-1. In the plant, the following certificates are applied ISO 9001, ISO 14001, ISO 18001 and ISO 50001.

PRODUCT INFORMATION

Product name: MP 75
Product identification: Gypsum plaster
UN CPC code: 37410 Plasters
Product description: KNAUF produces gypsum plaster MP 75, which are manufactured for hand or machine processing. Gypsum plasters are primarily used for interior wall and ceiling finishing, providing a smooth surface for painting or wallpapering and improving indoor climate conditions.
Plaster Thickness:

- Minimum: 8 mm
- Recommended: 10–15 mm
- Maximum (locally): 50 mm
- Ceilings: max. 15 mm

Water Consumption: approx. 14–15 l per 30 kg
Dry Mix Consumption: 1,0 kg/m² per 1 mm layer thickness
Name and location of production site(s): KNAUF Praha, spol. s r.o., manufacturing plant KNAUF Praha, Mladoboleslavská 949, 197 00 Praha 9, the Czech Republic.
References to any relevant websites for more information or explanatory materials, if applicable: More information can be found on the website https://knauf.com/cs-CZ/knauf-gypsum

CONTENT DECLARATION

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Gypsum	460	0	0	0
Limestone	490	0	0	0
Additives	50	0	0	0
TOTAL	1000	0	0	0

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/product or declared unit
PE foil	0,2	0,00020	0
Paper	3,8	0,00378	1,6
TOTAL	4	0,00398	1,6

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO_2.

Hazardous substances from the candidate list of SVHC	EC No.	CAS No.	Mass-% per product or declared unit
No substances included in the Candidate List of Substances of Very High Concern for authorization under the REACH regulations are present in this product either above the threshold for registration with the European Chemicals Agency or above 0,1% weight.			

LCA INFORMATION

Declared unit: 1 ton of gypsum plaster

Time representativeness: Site specific data from producer is based on 1 year average for process data (reference year 2023). Time scope less than 10-years was applied for background data. Time scope less than 2 years was applied for specific data.

Geographical scope: Global, Europe, Czech Republic

Database(s) and LCA software used: LCA for Experts (version 10.9.1.17), Sphera database (2025.1) and ecoinvent database (version 3.9.1).

Description of system boundaries: The system boundary is cradle-to-gate with options, modules C1-C4, module D and optional modules A4, A5 according to EN 15804+A2. It covers the production of raw materials, all relevant transport down to factory gate, manufacturing of gypsum plaster for building construction by KNAUF Praha spol. s r.o, transport to customers, installation, transport of deconstructed materials and disposal of used gypsum plaster. The review framework comprises the following details:

- Raw materials acquisition and transport,
- Further processing of raw materials,
- Production operations,
- Energy and water consumption,

• Waste management,
• Packaging of the final product for delivery,
• Transport to customers,
• Installation of product (unpacking),
• Deconstruction and transport of deconstructed product,
• Waste disposal of used product (landfilling).

Process flow diagram:

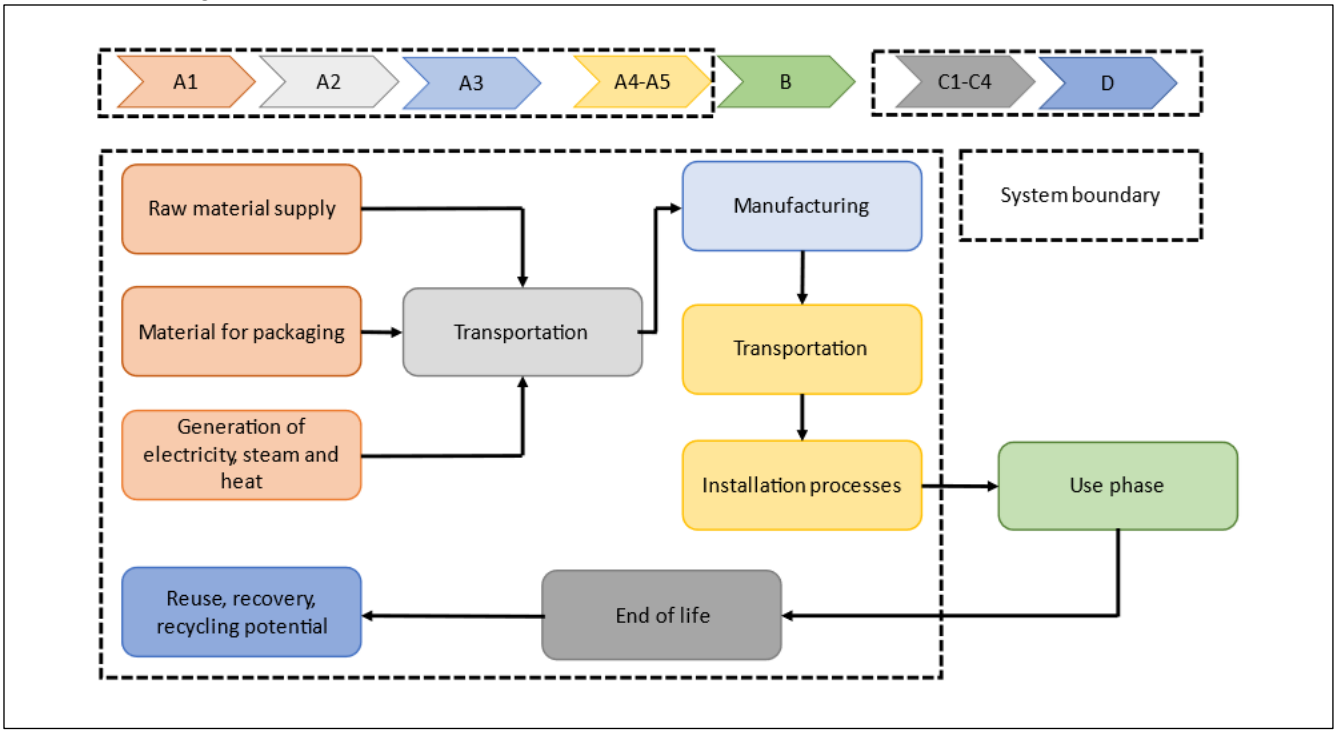

Figure 1 System boundary of the LCA study conducted on MP 75 gypsum plaster.

Cut off rules: The cut-off criterion was chosen based on the used PCR. According to the used PCR, more than 99% of flows were included.
Allocations: As a general allocation rule the production of 1 ton of product was chosen. Common inputs (electricity, natural gas), material inputs, transport and common outputs (waste generated) are allocated to this product, i.e. to declared unit of this product.
Information about declared modules:
Module A1 covers the production of materials and components for KNAUF Praha, spol. s r.o. and also it includes fuels and energy carriers (electricity, natural gas). This consists of the production of input materials.
Module A2 covers the transport of material into the site of production KNAUF Praha, spol. s r.o. Generic DB processes with site-specific parameters for distance were used.
Module A3 covers on-site operated processes dealing with gypsum plaster production and packaging. These processes are under the operational control of KNAUF Praha, spol. s r.o., and these are specific processes modelled based on data collection.
Module A4 covers the transport of products to the customers of KNAUF Praha, spol. s r.o. Generic DB processes with site-specific parameters for distance were used. According to PCR a weighted average of transportation modes and distances, based on transportation to several customers or markets, representing the geographical scope of the EPD was used in module A4. Two-thirds of the product

volume is transported by truck and one-third by train, both over a weighted average transport distance of 203 km.

Module A5 covers processes dealing with installation of gypsum on construction site. It represents disposal of packaging from used gypsum (100% of energy recovery) and water used for preparing of gypsum mixture.

Module C1 covers estimated energy for deconstruction related to the mass of deconstructed material. According to PCR 1,1 kWh/t of energy carrier Diesel was used for deconstruction of gypsum.

Module C2 covers the transport of material into landfill plant. Generic DB processes with estimated general distances were used according to PCR. Distance for the transport of material for recycling was set according to PCR at 80 km.

Module C3 covers the processing for incineration. It is assumed, that gypsum plaster is not incinerated.

Module C4 covers the process for landfilling of gypsum. The End-of-Life of gypsum plaster was assumed to be 100% landfilled which is in accordance with c-PCR for Gypsum-based construction products and the standard EN 17328:2024.

Module D covers declared benefits from energy recovery of materials from waste-to-energy plant. In this case it is energy recovery of used packaging of product.

Electricity mix: DB process of Czech residual grid mix is used for consumed electricity in production process in KNAUF. The used dataset has impact of 0,594 kg CO_2 eq./kWh for GWP-GHG indicator.

Characterisation factors: Characterisation factors are based on Environmental Footprint 3.1. (EF 3.1).

Data quality of processes contributing with more than 10% to the GWP-GHG results of modules A1-A3:

Process	Source Type	Source	Reference year	Data category
Production of gypsum	Database	ecoinvent 3.9.1	2022	Secondary
Generation of electricity used in manufacturing of product	Database	Sphera 2025.1	2025	Primary
Production and usage of natural gas in manufacturing of product	Database	Sphera 2025.1	2025	Primary

The data quality assessment:

The data quality assessment has been carried out in accordance with EN 15941 and the applicable PCR requirements. The assessment covers geographical, technical, and temporal representativeness of the data and includes all relevant datasets contributing to at least 80% of the results for each declared environmental impact indicator. Primary data from the production process (including raw materials, auxiliary materials, and energy consumption) have been complemented with high-quality secondary data from recognized databases (Sphera 2025.1 and Ecoinvent 3.11). Based on this evaluation, the overall data quality is considered good and compliant with EN 15941.

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

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	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
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	X	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X
Geography	GLO	GLO	CZ	GLO	GLO	NR	NR	NR	NR	NR	NR	NR	GLO	GLO	GLO	GLO	GLO
Specific data used	71,5%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%			-	-	-	-	-	-	-	-	-	-	-	-	-	-

ENVIRONMENTAL PERFORMANCE

LCA results of the product - main environmental performance results

Mandatory impact category indicators according to EN 15804

Results per 1 t of gypsum plaster MP 75

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-fossil	kg CO_2 eq.	2,78E+02	1,44E+01	7,88E-01	3,93E-01	1,06E+01	0,00E+00	1,53E+01	-1,64E+00
GWP-biogenic	kg CO_2 eq.	-9,38E+00	1,06E-03	5,94E+00	9,02E-05	9,38E-04	0,00E+00	4,20E+00	0,00E+00
GWP-luluc	kg CO_2 eq.	2,16E-01	1,35E-01	6,67E-04	4,42E-05	1,09E-01	0,00E+00	6,27E-02	-1,48E-04
GWP-total	kg CO_2 eq.	2,68E+02	1,45E+01	6,73E+00	3,93E-01	1,07E+01	0,00E+00	1,95E+01	-1,64E+00
ODP	kg CFC 11 eq.	1,91E-06	7,23E-12	9,63E-13	6,25E-09	1,76E-12	0,00E+00	4,26E-11	-1,27E-12
AP	mol H^+ eq.	6,39E-01	2,48E-02	1,80E-03	3,64E-03	5,53E-02	0,00E+00	1,08E-01	-1,36E-03
EP-freshwater	kg P eq.	1,40E-02	3,59E-05	6,15E-06	1,21E-05	2,85E-05	0,00E+00	2,27E-05	-2,56E-07
EP-marine	kg N eq.	1,55E-01	9,52E-03	6,29E-04	1,69E-03	2,72E-02	0,00E+00	2,83E-02	-3,98E-04
EP-terrestrial	mol N eq.	1,67E+00	1,02E-01	8,10E-03	1,84E-02	2,95E-01	0,00E+00	3,08E-01	-4,40E-03
POCP	kg NMVOC eq.	4,57E-01	2,11E-02	1,58E-03	5,43E-03	5,27E-02	0,00E+00	8,46E-02	-1,24E-03
ADP-minerals&metals*	kg Sb eq.	1,92E-04	9,09E-07	1,47E-08	1,37E-07	7,04E-07	0,00E+00	9,46E-07	-5,03E-08
ADP-fossil*	MJ	4,36E+03	1,91E+02	3,31E+00	5,13E+00	1,36E+02	0,00E+00	2,01E+02	-2,63E+01
WDP*	m^3	2,52E+01	7,13E-02	1,55E+00	1,74E-02	4,84E-02	0,00E+00	1,65E+00	-3,94E-03
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 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.*

Additional mandatory and voluntary impact category indicators

Results per 1 t of gypsum plaster MP 75									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG[1]	kg CO_2 eq.	2,78E+02	1,46E+01	7,91E-01	3,93E-01	1,07E+01	0,00E+00	1,54E+01	-1,64E+00
Particulate matter	Disease incidences	1,04E-05	2,36E-07	1,36E-08	1,00E-07	3,10E-07	0,00E+00	1,35E-06	-1,14E-08
Ionising radiation, human health	kBq U235 eq.	2,26E+01	2,81E-01	1,06E-02	2,44E-03	3,68E-02	0,00E+00	2,36E-01	-5,82E-02
Ecotoxicity, freshwater	CTUe	8,37E+02	2,22E+02	2,01E+00	2,42E+00	1,76E+02	0,00E+00	1,55E+02	-1,16E+00
Human toxicity, cancer	CTUh	6,48E-08	3,01E-09	9,41E-11	1,25E-10	2,38E-09	0,00E+00	2,67E-09	-2,42E-10
Human toxicity, non-cancer	CTUh	2,03E-06	1,68E-07	5,50E-09	8,59E-10	1,33E-07	0,00E+00	9,98E-08	-1,47E-08
Land Use	Pt	1,67E+03	7,93E+01	9,62E-01	3,43E-01	5,99E+01	0,00E+00	4,95E+01	-1,24E+00

Resource use indicators

Results per 1 t of gypsum plaster MP 75									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	4,23E+02	4,18E+02	1,45E+01	4,97E-01	2,93E-02	0,00E+00	3,87E+01	-4,75E-01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	4,23E+02	4,18E+02	1,45E+01	4,97E-01	2,93E-02	0,00E+00	3,87E+01	-4,75E-01
PENRE	MJ	4,36E+03	4,36E+03	1,91E+02	3,31E+00	5,13E+00	0,00E+00	2,01E+02	-2,63E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	4,36E+03	4,36E+03	1,91E+02	3,31E+00	5,13E+00	0,00E+00	2,01E+02	-2,63E+01
SM	kg	0,00E+00	0,00E+00	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	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	0,00E+00	0,00E+00
FW	m^3	9,88E-01	1,13E-02	5,16E-01	4,04E-04	5,05E-03	0,00E+00	4,84E-02	-1,30E-03

[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 CO_2 is set to zero.

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

Waste indicators

Results per 1 t of gypsum plaster MP 75									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	2,74E-03	7,70E-09	7,70E-10	0,00E+00	5,44E-09	0,00E+00	4,39E-08	-7,08E-10
Non-hazardous waste disposed	kg	1,22E+00	2,88E-02	2,95E-01	0,00E+00	1,89E-02	0,00E+00	1,00E+03	-9,01E-03
Radioactive waste disposed	kg	2,90E-01	3,94E-03	1,43E-04	0,00E+00	2,56E-04	0,00E+00	2,13E-03	-8,95E-04

Output flow indicators

Results per 1 t of gypsum plaster MP 75									
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**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	0,00E+00	0,00E+00
Material for recycling	kg	1,76E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	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	1,83E+00	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	1,76E+01	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
NMVOC	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

General Programme Instructions of the International EPD® System. Version 5.0.1
Product Category Rules (PCR) document for Construction Products (PCR 2019:14 Version 2.0.1, 2025-06-05)
Complementary Product Category Rules (to PCR 2019:14) for Gypsum-based construction products (c-PCR-031, EN 17328:2024, Version 1.0.0, 2025-04-24)
ISO 14020:2000 Environmental labels and declarations — General principles, 2000-09
ISO 14025: EN ISO 14025:2006-11: Environmental labels and declarations - Type III environmental declarations — Principles and procedures
ISO 14040:2006 Environmental management — Life cycle assessment — Principles and framework, 2006-07
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