

ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 and EN 15804+A2 

HASIT Trockenmörtel GmbH

HASIT / FIXIT / RÖFIX / KREISEL CalceClima® Thermo 242



Owner of the declaration
HASIT Trockenmörtel GmbH
Landshuter Strasse 30
85356 Freising
Germany

Product
HASIT / FIXIT / RÖFIX / KREISEL
CalceClima® Thermo 242

Declared product / Declared unit
1 kg

This declaration is based on Product Category Rules
EN 15804:2012 + A2:2019,
NPCR Part A:2021 ,
NPCR 009 Part B for Technical chemical
Products for Construction

Program operator:
EPD Global
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Norway

Declaration number
NEPD-11891-11891-2

Registration number
NEPD-11891-11891-2

Issue date
15.07.2026

Valid to
14.07.2031

EPD Software
Emidat Platform v1.0.0

General Information

Product

HASIT / FIXIT / RÖFIX / KREISEL CalceClima® Thermo 242

Program Operator

EPD Global
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EN 15804:2012 + A2:2019,
 NPCR Part A:2021 ,
 NPCR 009 Part B for Technical chemical Products for
 Construction

Statements

The owner of the declaration shall be liable for the underlying information and evidence. The Norwegian EPD Foundation shall not be liable with respect to manufacturer, life cycle assessment data and evidences.

Declared unit

1 kg

General information on verification of EPD from EPD tools

Independent verification of data, other environmental information and the declaration according to ISO 14025:2011-10, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD Global's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD Global, and iii) the process is reviewed annually by an independent third-party verifier. See Appendix G of EPD Global's General Programme Instructions for further information on EPD tools.

Verification

Independent third-party verification based on the verification of the EPD tool, background data and test-EPD in accordance with EPD Global's procedures and guidelines for verification and approval of EPD tools. Third-party verifier: Charlotte Merlin, FORCE Technology

Owner of the declaration

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Manufacturer

HASIT Trockenmörtel GmbH
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Place of production

Worms, Germany

Management system

-

Issue date

15.07.2026

Valid to

14.07.2031

Year of study

2025

Comparability

EPDs of construction products may not be comparable if they do not comply with EN 15804 and are not seen in a building context. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database (including primary and secondary data).

Development and verification of EPD

The declaration was created using the Emidat EPD tool v1.0, developed by Emidat GmbH which is third-party verified and approved as a Reference Flow Tool with internal review under administration and surveillance by EPD Global under provisions stated in general information on verification of EPD from EPD tools.

Developer of EPD: Stefan Oberparleiter

Reviewer of company-specific input data and EPD: Florian Schock

Approved



Håkon Hauan, The Norwegian EPD Foundation

Product

Product description

CalceClima® Thermo 242 is a high-quality thermal insulation render based on lime in accordance with EN 998-1 – ideal for sustainable construction in both new and existing buildings. With its thermal conductivity class WLS 044 (measured according to ISO 8301), it achieves an excellent thermal conductivity of only 0.042 W/mK. It can be applied in layer thicknesses from 20 to 120 mm – without any joints, ensuring maximum insulation performance from a single system.

Thanks to its purely mineral lightweight aggregates, CalceClima® Thermo 242 combines ecological responsibility with technical efficiency. The render meets the technical specification of the VDPM (Association for Insulation Systems, Plaster and Mortar e.V.) for thermal insulation render mortars and is particularly well suited for insulating substrates such as lightweight hollow bricks, thermal insulation bricks or lightweight concrete.

Application description

Residential construction: Suitable for new buildings and renovation projects to significantly reduce the energy consumption of residential buildings.

Commercial buildings: Can be used in office buildings and other commercial facilities to lower energy costs and enhance comfort.

Exterior façades: Suitable for external insulation to improve the building's thermal envelope and minimize thermal bridges.

With this render, very high insulation performance can be achieved at a reasonable cost.

Production process



Upstream production processes



Product specification

Name of ingredient	Share of total weight	Country of origin
Additives	2 - 10 %	Germany
Admixtures	0 - 2 %	Germany
Cement	2 - 10 %	Germany
Ceramics	30 - 50 %	China
Coatings	0 - 2 %	Germany
Fibres	0 - 2 %	Germany
Lime	10 - 30 %	Germany
Perlite	30 - 50 %	Germany

Technical data

	Unit	Value
Gross density	kg / m ³	125
Mixing water demand	l / kg	2.46
Recommended layer thickness	cm	6

Market

Germany

Recipients

B2B

LCA: Calculation rules

Declared unit

1 kg

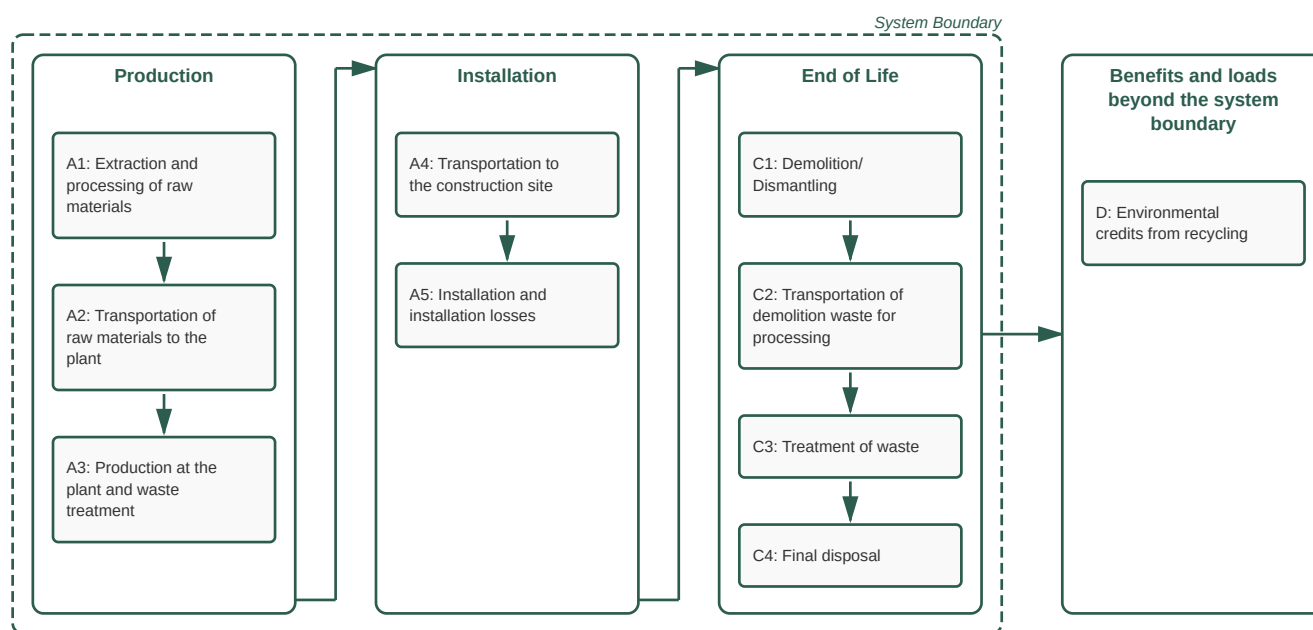
Product lifetime

Not declared

Reference service life

Not declared

System boundary



Data quality

The foreground data are based on extensive and detailed data collection at the production site of the manufacturer, covering key processes such as raw material sourcing, formulation, and manufacturing. These foreground data are fully linked with corresponding datasets from the background database (ecoinvent 3.10) or with EN15804+A2-compliant EPDs, ensuring consistency, reliability, and maintaining alignment with the latest industry standards.

The following EN15804+A2-compliant EPDs are used as datasets in this EPD:

Element	Year
Additives	2024

The overall data representativeness is rated as good with an overall score of 4.00/5, in accordance with EN 15804+A2 Annex E guidance on data quality assessment, considering geographical, technical, and temporal representativeness.

The following table discloses all processes or activities assessed with very poor or poor data representativeness according to EN 15804+A2, as well as those assessed as fair that contribute more than 30 % to any core impact indicator in A1–A3:

Element	Minimal Representativeness	Source	Year
Additives	Poor	ecoinvent 3.10	2023
Ceramics	Poor	ecoinvent 3.10	2023
Coatings	Poor	ecoinvent 3.10	2023
Fibres	Poor	ecoinvent 3.10	2023
Lime	Poor	ecoinvent 3.10	2023
Packaging	Poor	ecoinvent 3.10	2023
Coatings	Fair	ecoinvent 3.10	2023

System boundaries (X=included, MND=module not declared)

	Production			Installation		Use stage							End-of-Life				Next product system
	Raw material supply	Transport	Manufacturing	Transport	Installation Process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational Energy Use	Operational Water Use	Demolition	Transport	Waste Processing	Disposal	Benefits and loads beyond the system boundary
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	MND	MND	MND	MND	MND	MND	MND	x	x	x	x	x
Geography			DE	DE	DE	MND	MND	MND	MND	MND	MND	MND	DE	DE	DE	DE	DE

For the geographies modeled in A1 and A2, refer to *Product specification*.

Type of EPD: Cradle to gate with options, modules A4, A5, C1-C4 + D

Stage of Material Production and Construction

Module A1: Extraction and processing of raw materials

Module A2: Transportation of raw materials to the plant

Module A3: Production at the plant and waste treatment

Module A4: Transportation to the construction site

Module A5: Installation and installation losses

Disposal Stage

Module C1: Demolition/Dismantling

Module C2: Transportation of demolition waste for processing

Module C3: Treatment of waste

Module C4: Final disposal

Credits and burdens outside the system boundaries

Module D: Environmental credits from recycling

Cut-off criteria

No cut-offs were applied.

Allocation

Foreground inventory data (energy and fuels, ancillary materials, emissions and waste) was collected at the production process level. Mass-based allocation was applied to allocate the total output of the production process in 2025 to the

reference product.

Key assumptions and estimates

Production process flows are allocated to the reference product, as described under allocation. The mass-based allocation assumes a uniform distribution of production impacts across co-products. Foreground inventory data is checked for consistency of production process, to ensure the validity of the allocated results.

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Transport to the building site (A4)	Value	Unit
Location of the production site	Germany	
Location of the installation site	Germany	
Transported mass: Product and packaging	1.02	kg
Transport modality: Truck	transport, freight, lorry >32 metric ton, EURO6	-
Distance	300.00	km
Energy demand	1.58	MJ / t*km
Energy demand (km)	1.61e-03	MJ / km
Capacity utilization	53.30	%

Transport of the product and its packaging from the production site to the installation site. Transport distances are based on external sources such as reported market averages, standards or PCRs. Vehicle type, fuel consumption and capacity utilization assumptions stem from the underlying background transport datasets and are stated below.

Installation into the building (A5)	Value	Unit
Ancillary materials for installation	Not used	kg
Water use during installation	2.46e-03	m ³
Use of other resources during installation	Not used	kg
Energy consumption during installation		
Energy impacts of mixing plaster mass	1.00	kg
Material waste on the construction site before waste processing		
Multi-layer bags (paper and plastic)	0.02	kg
Installation loss	0.05	kg
Treatment of packaging waste	Multi-layer bags (paper and plastic)	
Incineration	100.00	%
Treatment of installation loss waste		
Landfill	100.00	%
Product mass after installation	3.46	kg

Installation losses are accounted for by scaling up the quantity of product required at the construction site by the loss percentage. The production, transportation and treatment of the lost material is assigned to A5. During installation, water is added to the product. For the remaining lifecycle stages, this LCA considers the total mass of the product including the water. The screed is poured or pumped onto the substrate and spread to the required level using levelling tools. Minor inputs such as tool-cleaning water or equipment use are excluded under the cut-off criteria. The use of mechanized construction equipment during product installation is included as energy use under module A5.

End-of-life scenario (C1-C4)	Value	Unit
Diesel for dismantling	0.21	MJ
PM 2.5 emissions	5.74e-05	kg
PM 10 emissions	2.19e-04	kg

End-of-life scenario (C1-C4)	Value	Unit
Collection process specified by type		
Collected individually	0	kg
Collected with mixed construction and demolition waste	3.46	kg
Recovery system specified by type		
Destined for reuse	0	kg
Destined for recycling	0.35	kg
Recycling rate	10.00	%
Destined for energy recovery	0	kg
Disposal specified by type		
Product or material destined for final disposal	3.11	kg
Transport		
Distance to landfill	50.00	km
Distance to recycling	50.00	km
Transport modality: Truck	transport, freight, lorry >32 metric ton, EURO6	-
Energy demand	1.58	MJ / t*km
Energy demand (km)	5.46e-03	MJ / km
Capacity utilization	53.30	%

Module C2 includes the impact of transportation of material after deconstruction, during the End-of-Life stage.

Reuse, recovery and/or recycling potentials (D)	Value	Unit
Amount of secondary material that the system takes in	0	kg
Installation: Material eligible for recycling/reuse credits	0	kg
End-of-life: Material eligible for recycling/reuse credits	0.35	kg
Substitution of gravel	0.35	kg
Installation: Exported energy eligible for credits	0.08	MJ
End-of-life: Exported energy eligible for credits	0	MJ
Substitution of electricity production, grid mix	0.03	MJ
Substitution of heat production from natural gas	0.06	MJ

Calculation of loads and benefits per EN 15804+A2. Exported energy is credited only where it originates from the incineration of primary material; landfilled fractions receive no exported-energy credit and therefore no avoided primary energy consumption. Recycling or reuse benefits are credited when primary material from the product is recovered at end-of-life and replaces virgin material that would otherwise have been produced.

LCA: Results

The following results are based on the market-based electricity approach applied to the foreground system (A3). Further details on electricity data are provided in the Additional Requirements section.

Core environmental impact indicators

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ -eq.	9.77e-01	3.17e-02	8.14e-02	2.12e-02	1.79e-02	3.69e-03	3.91e-02	-8.71e-03
GWP-fossil	kg CO ₂ -eq.	9.97e-01	3.17e-02	6.55e-02	2.12e-02	1.79e-02	1.51e-03	1.95e-02	-8.32e-03
GWP-biogenic	kg CO ₂ -eq.	-2.99e-02	1.59e-05	1.53e-02	2.12e-06	8.99e-06	2.18e-03	1.96e-02	-3.81e-04
GWP-luluc	kg CO ₂ -eq.	1.06e-02	1.13e-05	5.35e-04	1.84e-06	6.36e-06	1.32e-07	1.01e-05	-7.08e-06
ODP	kg CFC-11-Eq	2.32e-08	6.60e-10	1.31e-09	3.25e-10	3.73e-10	2.32e-11	5.63e-10	-2.33e-10
AP	mol H ⁺ -Eq	3.04e-03	7.48e-05	1.81e-04	1.91e-04	4.23e-05	1.37e-05	1.38e-04	-1.56e-05
EP-freshwater	kg P-Eq	1.88e-04	2.23e-06	1.17e-05	6.18e-07	1.26e-06	4.41e-08	1.62e-06	-4.52e-06
EP-marine	kg N-Eq	9.37e-04	1.96e-05	5.58e-05	8.88e-05	1.11e-05	6.34e-06	5.26e-05	-5.70e-06
EP-terrestrial	mol N-Eq	9.64e-03	2.12e-04	5.68e-04	9.72e-04	1.20e-04	6.94e-05	5.74e-04	-5.45e-05
POCP	kg NMVOC-Eq	3.42e-03	1.30e-04	2.01e-04	2.90e-04	7.35e-05	2.07e-05	2.06e-04	-2.06e-05
ADPE	kg Sb-Eq	2.46e-06	9.06e-08	2.11e-07	7.60e-09	5.12e-08	5.43e-10	3.09e-08	-1.48e-08
ADPF	MJ, net calorific value	1.44e+01	4.76e-01	1.01e+00	2.77e-01	2.69e-01	1.98e-02	4.77e-01	-1.31e-01
WDP	m ³ world Eq deprived	1.48e-01	2.39e-03	4.69e-02	6.79e-04	1.35e-03	4.85e-05	1.34e-03	-1.24e-03

GWP-total: Global Warming Potential - total , **GWP-fossil:** Global warming potential - fossil , **GWP-biogenic:** Global Warming Potential - biogenic , **GWP-luluc:** Global Warming Potential - luluc , **ODP:** Depletion potential of the stratospheric ozone layer , **AP:** Acidification potential, Accumulated Exceedance , **EP-freshwater:** Eutrophication potential - freshwater , **EP-marine:** Eutrophication potential - marine , **EP-terrestrial:** Eutrophication potential - terrestrial , **POCP:** Photochemical Ozone Creation Potential , **ADPE:** Abiotic depletion potential - non-fossil resources , **ADPF:** Abiotic depletion potential - fossil resources , **WDP:** Water (user) deprivation potential

Additional indicators

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	disease incidence	2.31e-08	3.09e-09	1.68e-09	3.12e-08	1.75e-09	2.96e-09	3.14e-09	-2.15e-10
IRP	kBq U235-Eq	7.20e-02	5.78e-04	1.73e-02	1.24e-04	3.27e-04	8.87e-06	3.04e-04	-9.33e-04
ETP-fw	CTUe	4.54e+00	1.13e-01	3.22e-01	3.93e-02	6.37e-02	2.81e-03	6.53e-02	-1.98e-02
HTP-c	CTUh	9.15e-09	2.03e-10	5.73e-10	8.29e-11	1.15e-10	5.92e-12	8.80e-11	-2.36e-11
HTP-nc	CTUh	1.48e-08	3.14e-10	9.98e-10	3.76e-11	1.77e-10	2.69e-12	8.58e-11	-3.52e-11
SQP	dimensionless	5.69e+00	4.78e-01	4.21e-01	1.94e-02	2.70e-01	1.39e-03	9.39e-01	-3.21e-02

PM: Potential incidence of disease due to PM emissions , **IRP:** Potential Human exposure efficiency relative to U235 , **ETP-fw:** Potential Comparative Toxic Unit for ecosystems , **HTP-c:** Potential Comparative Toxic Unit for humans - cancer effects , **HTP-nc:** Potential Comparative Toxic Unit for humans - non-cancer effects , **SQP:** Potential Soil quality index . **IRP:** 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. **ETP-fw, HTP-c, HTP-nc** and **SQP:** 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 experienced with these indicators.

Use of resources

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	1.20e+00	7.55e-03	3.13e-01	1.70e-03	4.27e-03	1.21e-04	4.43e-03	-1.61e-02
PERM	MJ	3.83e-01	0.00e+00	-1.21e-01	0.00e+00	0.00e+00	-2.42e-02	0.00e+00	0.00e+00
PERT	MJ	1.58e+00	7.55e-03	1.92e-01	1.70e-03	4.27e-03	-2.41e-02	4.43e-03	-1.61e-02
PENRE	MJ	1.38e+01	4.76e-01	9.83e-01	2.77e-01	2.69e-01	1.98e-02	4.78e-01	-1.31e-01
PENRM	MJ	6.17e-01	0.00e+00	-3.95e-01	0.00e+00	0.00e+00	-1.91e-02	0.00e+00	0.00e+00
PENRT	MJ	1.44e+01	4.76e-01	5.89e-01	2.77e-01	2.69e-01	6.70e-04	4.78e-01	-1.31e-01
SM	kg	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00	3.46e-01
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	m³	4.98e-03	6.92e-05	3.63e-03	1.80e-05	3.91e-05	1.29e-06	4.95e-04	-5.17e-04

PERE: Primary energy resources - renewable: use as energy carrier , **PERM:** Primary energy resources - renewable: used as raw materials , **PERT:** Primary energy resources - renewable: total , **PENRE:** Primary energy resources - non-renewable: use as energy carrier , **PENRM:** Primary energy resources - non-renewable: used as raw materials , **PENRT:** Primary energy resources - non-renewable: total , **SM:** Use of secondary material , **RSF:** Renewable secondary fuels , **NRSF:** Non-renewable secondary fuels , **FW:** Net use of fresh water

Waste flows

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	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
NHWD	kg	0.00e+00	0.00e+00	7.00e-02	0.00e+00	0.00e+00	0.00e+00	3.11e+00	0.00e+00
RWD	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

HWD: Hazardous waste disposed , **NHWD:** Non hazardous waste disposed , **RWD:** Radioactive waste disposed

Output flows

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
CRU	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
MFR	kg	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00	3.46e-01	0.00e+00	0.00e+00
MER	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
EEE	MJ	0.00e+00	0.00e+00	2.78e-02	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
EET	MJ	0.00e+00	0.00e+00	5.70e-02	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00

CRU: Components for re-use , **MFR:** Materials for recycling , **MER:** Materials for energy recovery , **EEE:** Exported electrical energy , **EET:** Exported thermal energy

Name	Value	Unit
Biogenic carbon content in product	5.94e-03	kg C
Biogenic carbon content in accompanying packaging	3.94e-03	kg C

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

Electricity consumption in the manufacturing phase is composed from the sources below. This EPD follows the market-based approach.

Approach	Electricity	Quantity [kWh]	Emission Factor [kg CO ₂ e/kWh]
market-based	ecoinvent: electricity, low voltage, residual mix (DE)	0.14	0.84
(location-based)	(ecoinvent: market for electricity, low voltage (DE))	(0.14)	(0.43)

Rows marked with () are provided for reference and not used in the assessment.

Dangerous substances

The product contains no hazardous substances given by the REACH Candidate List or the Norwegian Priority List.

Additional environmental information

Secondary content

The product contains 0 % secondary material. Secondary material includes recycled, recovered and by-product content.

Additional environmental impact indicators required in NPCR Part A for construction products

Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-IOBC	kg CO ₂ -eq.	1.01e+00	3.17e-02	6.62e-02	2.12e-02	1.79e-02	1.52e-03	1.95e-02	-8.35e-03

GWP-IOBC: Global Warming Potential - Instantaneous oxidation of biogenic carbon

Bibliography

CEN/TR 15941:2010	Sustainability of construction works - Environmental product declarations - Methodology for selection and use of generic data
EN 15804:2012+A2:2019	Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
EN 15942:2022-04	Sustainability of construction works - Environmental product declarations - Communication format business-to-business
ISO 14025:2011-10	Environmental labels and declarations - Type III environmental declarations - Principles and procedures
ISO 14040:2021-02	Environmental management - Life cycle assessment - Principles and framework
ISO 14044:2021-02	Environmental management - Life cycle assessment - Requirements and guidelines
EF 3.1	Environmental Footprint (EF) Life Cycle Impact Assessment method - Characterisation Factors version 3.1, European Commission, Joint Research Centre (JRC)
ecoinvent 3.10	ecoinvent, Zurich, Switzerland, database version 3.10
NPCR Part A:2021	Construction products and services, Version 2.0. Issue date: 24.03.2021; validity extended to 24.03.2026.
NPCR 009:2021	Product category rules, Part B: Technical chemical products for the building and construction industry. Issue date: 06.10.2021; validity extended to 30.06.2026.

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