

ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Knauf Gips KG
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-KNG-20250645-IBA1-EN
Issue date	24.02.2026
Valid to	23.02.2031

Knauf FE 50 Largo Floor Screed Knauf Gips KG

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1. General Information

Knauf Gips KG

Programme holder

IBU – Institut Bauen und Umwelt e.V.
Hegelplatz 1
10117 Berlin
Germany

Declaration number

EPD-KNG-20250645-IBA1-EN

This declaration is based on the product category rules:

Mineral factory-made mortar, 01.08.2021
(PCR checked and approved by the SVR)

Issue date

24.02.2026

Valid to

23.02.2031



Dipl.-Ing. Hans Peters
(Chairman of Institut Bauen und Umwelt e.V.)



Florian Pronold
(Managing Director Institut Bauen und Umwelt e.V.)

Knauf FE 50 Largo Floor Screed

Owner of the declaration

Knauf Gips KG
Am Bahnhof 7
97346 Iphofen
Germany

Declared product / declared unit

1 kg of Knauf FE 50 Largo Floor Screed

Scope:

This EPD covers the Knauf FE 50 Largo self-levelling floor screed manufactured in the Knauf plant Hüttenheim (Germany). The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard EN 15804 serves as the core PCR	
Independent verification of the declaration and data according to ISO 14025:2011	
☐	internally
☒	externally



Mr Stephen Forson ,
(Independent verifier)

2. Product

2.1 Product description/Product definition

This declaration refers to Knauf FE 50 Largo self-levelling floor screed, which is a factory-mixed dry mortar based on calcium sulphate, intended for mixing with water. It contains special gypsum, super-plasticizing admixtures, and aggregates (0 to 4 mm), such as grainy natural anhydrite. Knauf FE 50 Largo is used to produce calcium sulphate self-levelling floor screed. The dry screed is usually transported from the Knauf plant in silo trucks (full truck load approx. 27 tons) or in paper sacks with PE lining (25 kg).

The main ingredient in Knauf FE 50 Largo is bindable gypsum (natural anhydrite and alpha hemihydrate), with cement as a co-binder and additives which constitute < 2 % of the total mass of the dry mixture.

For the placing on the market of the product in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) *Regulation (EU) No. 305/2011 (CPR)* applies. The product needs a declaration of performance taking into consideration *EN 13813:2002*, Screed material and floor screeds - Screed material - Properties and requirements, and the CE-marking.

For the application and use the respective national provisions apply.

2.2 Application

Knauf FE 50 Largo can be used to produce self-levelling calcium sulphate floor screeds, which can be installed as large indoor screed surfaces without joints (for e.g. heated or unheated screed).

2.3 Technical Data

The technical datasheets can be downloaded from the website: <https://knauf.com/de>

Constructional data

Name	Value	Unit
Bulk density	1.6	kg/dm ³
Compressive strength	> 25	N/mm ²
Flexural strength	> 5	N/mm ²
Thermal conductivity	1.4 - 1.6	W/(mK)

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to *EN 13813:2002*, Screed material and floor screeds - Screed material - Properties and requirements.

2.4 Delivery status

Knauf FE 50 Largo is delivered as bulk material in silo trucks or in 25 kg sacks on wooden pallets.

2.5 Base materials/Ancillary materials

Knauf FE 50 Largo consists of approx. > 80 % gypsum binder, < 5 % cement, < 13 % aggregates and < 2 % additives.

This product contains substances listed in *the candidate list* (date: 23.01.2024) exceeding 0.1 percentage by mass: no.

This product contains other carcinogenic, mutagenic, reprotoxic (CMR) substances in categories 1A or 1B which are not on the

candidate list, exceeding 0.1 percentage by mass: no Biocide products were added to this construction product or it has been treated with biocide products (this then concerns a treated product as defined by the (EU) *Ordinance on Biocide Products No. 528/2012*): no

2.6 Manufacture

The manufacturing process of Knauf FE 50 Largo begins with the mining, crushing and milling of natural anhydrite. (Fig. 1) In the next step, it is mixed with other binders and additives to achieve a homogeneous mixture of the final dry mortar. (Fig. 2)

The manufacturing plant is *ISO 9001* certified.

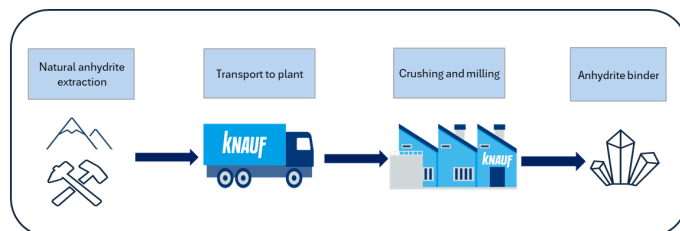


Fig. 1: Extraction and manufacture of natural anhydrite

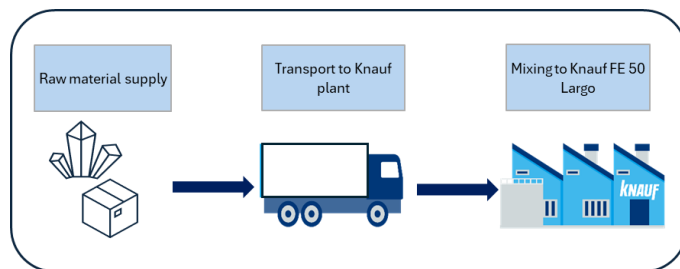


Fig. 2: Manufacturing of Knauf FE 50 Largo

2.7 Environment and health during manufacturing

The Knauf manufacturing plant in Hüttenheim, Germany, is certified according to *ISO 45001* and *ISO 50001* and meets the standard of the *Federal Immission Control Act (BImSchG)*.

2.8 Product processing/Installation

At the construction site, Knauf FE 50 Largo is mixed with water in mobile containers with attached electric mixing pumps (e.g. PFT FERRO 100). It is then pumped onto the prepared surface, where it levels itself.

2.9 Packaging

Knauf FE 50 Largo is delivered as bulk product in silo trucks (full truck load approx. 27 tons) or in 25 kg paper sacks with PE lining. For 25 kg packaged material, these are stacked on reusable wooden pallets (42 bags per pallet), and wrapped with LDPE stretch film to stabilize the load and protect the contents of the bags during transportation and storage.

2.10 Condition of use

At the construction site, Knauf FE 50 Largo is mixed with water to produce the flowing screed, which is then applied. The water fraction then partially evaporates to achieve the final hardened floor screed, the composition of which does not change during the use phase.

2.11 Environment and health during use

No hazard to humans and the environment is to be expected if the compound is used as intended. A safety datasheet for Knauf FE 50 Largo is available. (SDS2022)

2.12 Reference service life

There was no reference service life determined according to *ISO 15686-1*. However, a reference service life of 50 years can be considered for flowing screeds according to the *Guideline for Sustainable Building BBSR2017*.

There are no influences on the ageing of Knauf FE 50 Largo during use following the established engineering practice.

2.13 Extraordinary effects

Fire

According to EN 13501:1, Knauf FE 50 Largo is non-combustible and corresponds with construction product class A1fl.

Fire protection

Name	Value
Building material class	A1fl

Water

Temporary moisture penetration will not cause any damage to calcium sulphate screeds, if they are able to desiccate again afterwards. Permanent moisture penetration, on the other hand, can reduce the strength of screeds. Screeds therefore, need to

be protected from permanent moisture.

Mechanical destruction

Due to indoor use, unforeseen mechanical destruction does not result in environmental damage.

2.14 Re-use phase

According to the current state of the art, flowing screeds are not suited for re-use or recycling. For this reason, screeds are disposed of in landfills.

2.15 Disposal

Knauf FE 50 Largo must be disposed of in compliance with the following waste codes of the *European Waste Catalogue, EWC*:

17 01 01 - concrete

17 09 04 - mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

2.16 Further information

Additional information on Knauf FE 50 Largo is available at <https://knauf.com>.

3. LCA: Calculation rules

3.1 Declared Unit

The declared unit is 1 kg of Knauf FE 50 Largo self-levelling screed.

Declared unit and mass reference

Name	Value	Unit
Declared unit	1	kg
Gross density	1600	kg/m ³

3.2 System boundary

Type of the EPD: cradle to gate - with options, modules C1-C4 and module D (A1-A3 + C + D, and additional modules A4 and A5).

This Environmental Product Declaration according to EN 15804 contains:

- Provision of raw materials and transport to plant and mixing of the products (A1-A3), including electricity (geographical scope: DE)
- Transport to building site (A4)
- Installation at building site (A5), including the incineration of transport packaging
- Disassembly (C1)
- Transport to landfill (C2)
- Landfilling at the end of life (C4)
- Credits in D from incineration of packaging material in A5

3.3 Estimates and assumptions

Some raw materials and additives were not available in the background database and were therefore either substituted with similar material or modelled with their own processes.

Transport A2, A4 and C2: Truck-trailer, Euro 6 A-C, 34-40 t gross weight/27 t payload capacity, capacity utilization of 50 % (including empty runs). A standard distance of 100 km was used in module A4 (transport to the building site) and module C2 (transport of demolition waste to the landfill). This way, the user of the Environmental Product Declaration can extrapolate for specific distances.

Assembly: A 5 % material loss at the construction site was considered in the LCA of Knauf FE 50 Largo.

3.4 Cut-off criteria

Since additives contained in Knauf FE 50 Largo account for < 2 % of Knauf FE 50 Largo, the contributions of their packaging to the overall life cycle impacts were regarded as negligible, and therefore not considered in the calculation.

Similarly, transportation inside the manufacturing plant was cutoff, as these short distances were expected to result in very low environmental impacts overall. Additionally, transport losses in the plant, for e.g., formation of dust at the conveyor belts, were not considered.

3.5 Background data

For modelling, *Sphera LCA FE* software (version 10.9.1.10, content version 2025.1) and background database were used. The majority of the datasets used were taken from this software and corresponding database(s). The dataset for one additive was partly provided by the supplier and completed with information from *Sphera LCA FE* database.

3.6 Data quality

The background data provided by the Sphera LCA FE software are not older than 5 years. Due to the substitution of materials which had to be considered in the LCA modelling of Knauf FE 50 Largo, the overall data quality was evaluated as satisfactory.

3.7 Period under review

The LCA modelling of Knauf FE 50 Largo was done based on 12 months production data. (Nov. 2023 - Oct. 2024)

3.8 Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Global

3.9 Allocation

Allocations in the foreground system are avoided. As there is only one type of screed compound produced at one time in the plant, co-product allocations are avoided. There may be

allocations in the background data.

3.10 Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account. The background database used is the Managed

LCA content version 2025.1 from *Sphera*.

A comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, specifically the product-specific characteristics of performance, are taken into account.

4. LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

There is biogenic carbon in both the product and the packaging.

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	1.32E-05	kg C
Biogenic carbon content in accompanying packaging	3.58E-03	kg C

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO₂.

The following tables contain information on the scenario modelling.

Transport to the building site (A4)

Name	Value	Unit
Transport distance	100	km
Capacity utilisation (including empty runs)	50	%
Gross density of products transported	1600	kg/m ³

Installation into the building (A5)

Name	Value	Unit
Water consumption	1.63E-04	m ³
Electricity consumption	0.0014	kWh
Output substances following waste treatment on site	0.009	kg

At the construction site, electricity is used to mix Knauf FE 50 Largo with water, and pump onto a prepared surface.

The packaging material, including re-usable wooden pallets and LDPE films are incinerated. The credits from this process are reported in module D.

Reference service life

Name	Value	Unit
Life Span (according to BBSR)	≥ 50	a

End of life (C1-C4)

In module C1, the mechanical disassembly of Knauf FE 50 Largo was considered. This would be transported (C2) from the demolition site to the landfill by truck, with an assumed distance of 100 km. Currently, Knauf FE 50 Largo is not recycled. Module C3 is therefore declared with 0 impacts.

Name	Value	Unit
Collected as mixed construction waste	1.073	kg
Landfilling	1.073	kg

Reuse, recovery and/or recycling potentials (D), relevant scenario information

Module D only contains credits for exported energy from incineration of packaging material.

Name	Value	Unit
Incineration of the packaging material	100	%

5. LCA: Results

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	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
X	X	X	X	X	MND	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 kg Knauf FE 50 Largo self-levelling floor screed

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq	3.64E-02	9.31E-03	3.52E-02	7.33E-04	9.89E-03	0	1.61E-02	-6.13E-03
GWP-fossil	kg CO ₂ eq	4.86E-02	8.92E-03	8.1E-03	7.02E-04	9.48E-03	0	1.61E-02	-6.13E-03
GWP-biogenic	kg CO ₂ eq	-1.31E-02	1.54E-04	2.7E-02	3.03E-05	1.63E-04	0	-5.06E-05	0
GWP-luluc	kg CO ₂ eq	1.34E-04	2.32E-04	3.83E-05	1.05E-07	2.47E-04	0	9.63E-05	-2.58E-06
ODP	kg CFC11 eq	1.48E-13	2.78E-15	8.47E-15	1.89E-16	2.96E-15	0	4.38E-14	-7.98E-14
AP	mol H ⁺ eq	2.72E-04	1.25E-05	2.53E-05	3.28E-06	1.33E-05	0	1.14E-04	-6.77E-06
EP-freshwater	kg P eq	1.04E-07	1.72E-08	1.1E-08	1.71E-10	1.83E-08	0	3.66E-08	-8.7E-09
EP-marine	kg N eq	1.24E-04	4.87E-06	9.65E-06	1.57E-06	5.17E-06	0	2.94E-05	-2.36E-06
EP-terrestrial	mol N eq	1.36E-03	5.33E-05	1.09E-04	1.72E-05	5.66E-05	0	3.23E-04	-2.61E-05
POCP	kg NMVOC eq	3.28E-04	1.17E-05	2.61E-05	4.5E-06	1.24E-05	0	8.98E-05	-5.86E-06
ADPE	kg Sb eq	4.17E-09	1.21E-09	3.99E-10	2.58E-11	1.29E-09	0	1.04E-09	-6.81E-10
ADPF	MJ	5.14E-01	1.18E-01	6.36E-02	9.5E-03	1.26E-01	0	2.12E-01	-9.01E-02
WDP	m ³ world eq deprived	1.73E-03	3.85E-05	2.26E-03	9.68E-07	4.09E-05	0	1.83E-03	-7.67E-05

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 kg Knauf FE 50 Largo self-levelling floor screed

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	1.24E-01	1.02E-02	1.5E-01	9.1E-05	1.09E-02	0	3.71E-02	-3.53E-02
PERM	MJ	1.35E-01	0	-1.35E-01	0	0	0	0	0
PERT	MJ	2.59E-01	1.02E-02	1.55E-02	9.1E-05	1.09E-02	0	3.71E-02	-3.53E-02
PENRE	MJ	4.79E-01	1.18E-01	9.74E-02	9.5E-03	1.26E-01	0	2.12E-01	-9.01E-02
PENRM	MJ	3.52E-02	0	-3.38E-02	0	0	0	0	0
PENRT	MJ	5.14E-01	1.18E-01	6.36E-02	9.5E-03	1.26E-01	0	2.12E-01	-9.01E-02
SM	kg	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0
FW	m ³	1.04E-04	7.41E-06	2.24E-04	6.01E-08	7.88E-06	0	5.6E-05	-1.27E-05

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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

RESULTS OF THE LCA - WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 kg Knauf FE 50 Largo self-levelling floor screed

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	6.71E-10	6.41E-12	3.58E-11	4.78E-13	6.81E-12	0	5.31E-11	-7.69E-11
NHWD	kg	1.33E-03	1.78E-05	5.41E-02	1.03E-06	1.89E-05	0	1.07E+00	-4.94E-05
RWD	kg	8.79E-06	1.81E-07	7.86E-07	1.22E-08	1.92E-07	0	2.19E-06	-3.54E-06
CRU	kg	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0
EEE	MJ	0	0	2.38E-02	0	0	0	0	0
EET	MJ	0	0	4.8E-02	0	0	0	0	0

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional:

1 kg Knauf FE 50 Largo self-levelling floor screed

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	Disease incidence	2.49E-09	1.12E-10	2.44E-10	3.89E-11	1.19E-10	0	1.43E-09	-4.91E-11
IR	kBq U235 eq	9.66E-04	1.79E-05	8.77E-05	1.14E-06	1.9E-05	0	2.5E-04	-3.55E-04
ETP-fw	CTUe	2.41E-01	1.3E-01	3.61E-02	7.92E-03	1.38E-01	0	1.22E-01	-1.15E-02
HTP-c	CTUh	6.61E-12	1.86E-12	8.59E-13	1.2E-13	1.98E-12	0	2.88E-12	-8.1E-13
HTP-nc	CTUh	1.95E-10	7.22E-11	3.21E-11	1.94E-12	7.68E-11	0	1.11E-10	-2.15E-11
SQP	SQP	1.87E+00	6.14E-02	1.04E-01	7.61E-05	6.52E-02	0	6.03E-02	-2.25E-02

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Disclaimer 1 – for the indicator “Potential Human exposure efficiency relative to U235”. 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 or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators “abiotic depletion potential for non-fossil resources”, “abiotic depletion potential for fossil resources”, “water (user) deprivation potential, deprivation-weighted water consumption”, “potential comparative toxic unit for ecosystems”, “potential comparative toxic unit for humans – cancerogenic”, “Potential comparative toxic unit for humans - not cancerogenic”, “potential soil quality index”. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

6. LCA: Interpretation

For the most part, the product stage of Knauf FE 50 Largo (A1-A3) contributes the highest impacts to the environmental indicators. For indicators such as the EP-marine and EP-terrestrial, this value was as high as ~71 %, ~86 % in the HWD waste category and for the optional SQP indicator. In contrast, the product stage (A1-A3) was among the least contributors to indicators such as the GWP-luluc and FW, contributing ~16 % and ~25 % respectively.

The GWP-luluc indicator was largely influenced (63 %) by the transport modules A4 and C2, with these modules contributing ~31 % and ~33 % respectively.

The major hotspots in the total Global warming potential (GWP-t) indicator were the product (A1-A3), installation (A5) and disposal (C4) stages. The percentage contributions of each of these was ~38 %, ~33 % and ~15 % respectively, to the total GWP. In A5, a majority of the GWP-t was due to packaging waste, its incineration and final disposal.

Energy recovery (MER, EEE, EET) in the life cycle of Knauf FE 50 Largo only occurred in module A5, where packaging waste was incinerated.

The NHWD indicator is dominated by the final landfill disposal of Knauf FE 50 Largo in C4 (95 %).

7. Requisite evidence

7.1 Radioactivity

According to the report for natural radioactivity in building materials published in 2012 by the German Federal Office for Radiation (BfS2012), the index value for screeds is between 0.17 and 0.35. It can, therefore, be assumed that the values and radon concentrations are below 0.3 mSv/a, and it can thus be used without restrictions.

7.2 VOC emission

Knauf FE 50 Largo is certified as EC 1^{PLUS} (very low emission) under the GEV-EMICODE seal. (EMICODE 2022) This means the product falls well below the threshold values under

EMICODE standards.

TVOC/TSVOC threshold values for EC 1^{PLUS} classification under GEV-EMICODE

Name	Value	Unit
TVOC after 3 days	≤ 750	µg/m ³
TVOC after 28 days	≤ 60	µg/m ³
TSVOC after 28 days	≤ 40	µg/m ³
R-value based on AgBB-NIK values after 28 days	1	
Total non-assessable VOCs	≤ 40	µg/m ³

8. References

Standards

DIN EN 13813

DIN EN 13813:2003-01, Screed material and floor screeds - Screed materials - Properties and requirements

EN 13501

EN 13501-1:2019, Fire classification of construction products and building elements -Part 1: Classification using data from

reaction to fire tests

EN 15804

EN 15804:2012+A1 2013: Sustainability of construction works - Environmental Product Declarations - Core rules for the product category of construction products.

EN 15804

EN 15804:2012+A2:2019+AC:2021, Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products.

EN 15824

EN 15824:2017, Specifications for external renders and internal plasters based on organic binders

ISO 9001

ISO 9001:2015, Quality management systems - Requirements

ISO 14025

ISO 14025:2011, Environmental labels and declarations — Type III environmental declarations - Principles and procedures.

ISO 14044

ISO 14044:2006-07, Environmental management - Life cycle assessment - Requirements and guidelines

ISO 15686

ISO 15686-1:2011-05, Buildings and constructed assets -- Service life planning -Part 1: General principles and framework

Further References

LCA for Experts

LCA for Experts (v10.9.1.10), Software-System and Databases for Life Cycle Engineering, Sphera Solutions GmbH, Leinfelden-Echterdingen, Germany

AgBB

Evaluation procedure for VOC emissions from building products, Committee for Health-related Evaluation of Building Products; 2024

BBSR2017

Service life of building components for life cycle analyses according to the Assessment System for Sustainable Building, editor: German Federal Institute for Research on Building, Urban Affairs and Spatial Development, 2017

BfS2012

K. Gehrcke, B. Hoffmann, U. Schkade, V. Schmidt, K. Wichterey: Natürliche Radioaktivität in Baumaterialien und die daraus resultierende Strahlenexposition, Report BfS-SW 14/12, Bundesamt für Strahlenschutz (editor),Salzgitter, 2012
<https://nbnresolving.de/urn:nbn:de:0221-201210099810>

BImSchG

Act on the Prevention of Harmful Effects on the Environment Caused by Air Pollution, Noise, Vibration and Similar Phenomena (Federal Immission Control Act - BImSchG), Publication 2013-05-2017 (BGBl. I p. 1274), last amended: 2015-08-31 (BGBl. I p.1474)

DepV

Verordnung über Deponien und Langzeitlager (Deponieverordnung- DepV), German landfill ordinance, last amended and supplemented: 2021-07-09

ECHA

European Chemicals Agency (ECHA), Candidate List of Substances of Very High Concern for Authorisation (published in accordance with Article 59(10) of the REACH Regulation), <http://echa.europa.eu/de/candidate-list-table>, Revision: 2024-01-23

EMICODE

Lizenzerteilung zur Führung des EMICODE – FE 50 Largo, Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V., 08-03-2022

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