

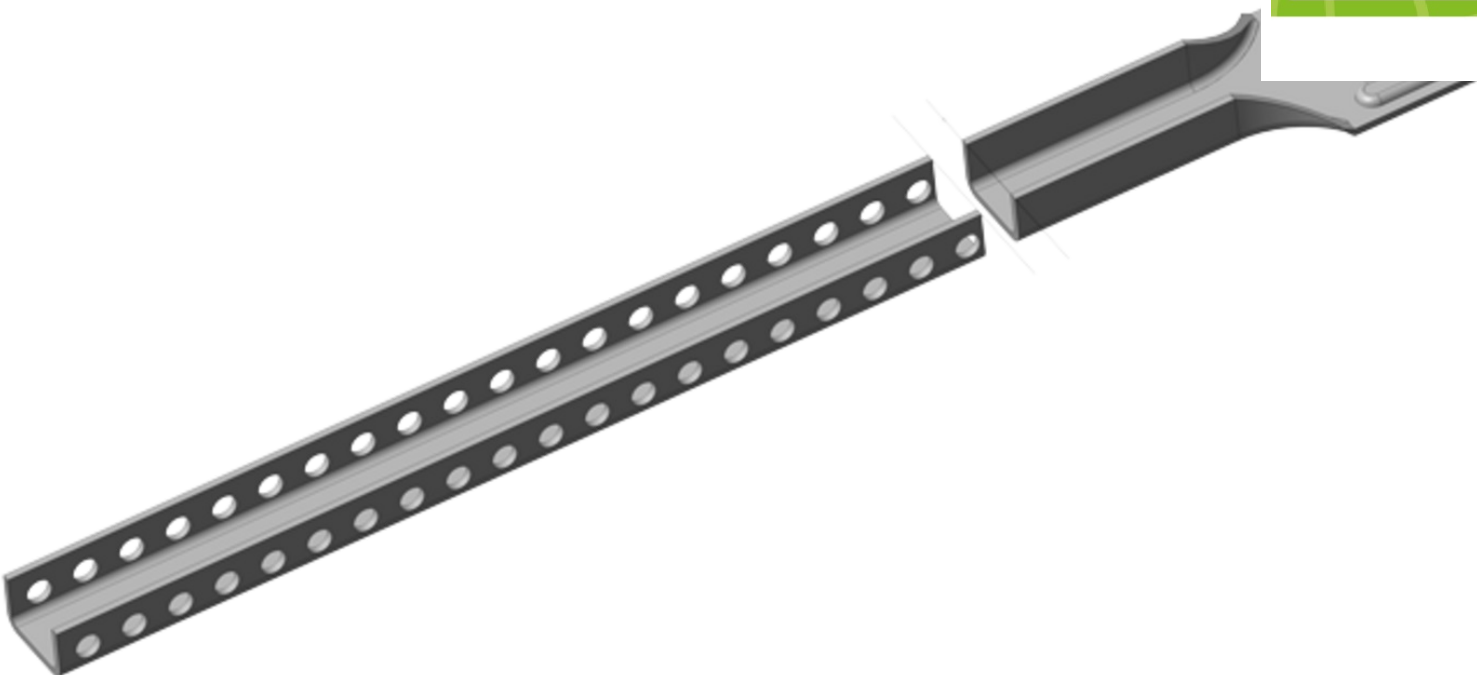
ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Georg Kimmel GmbH
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-GEO-20240076-IBA1-EN
Issue date	25/06/2024
Valid to	24/06/2029

Suspension system
Georg Kimmel GmbH

www.ibu-epd.com | <https://epd-online.com>





1. General Information

Georg Kimmel GmbH

Programme holder

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

Declaration number

EPD-GEO-20240076-IBA1-EN

This declaration is based on the product category rules:

Connection, assembly and installation systems, 01/08/2021
(PCR checked and approved by the SVR)

Issue date

25/06/2024

Valid to

24/06/2029

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

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

Suspension system

Owner of the declaration

Georg Kimmel GmbH
Kabelstr. 91
41069 Mönchengladbach
Germany

Declared product / declared unit

Production of 1 kg of suspension systems (mass excluding packaging)

Scope:

The declared suspension systems are manufactured in the own manufacturing plant of Georg Kimmel GmbH in Mönchengladbach, 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

Dr. Matthew Fishwick,
(Independent verifier)



2. Product

2.1 Product description/Product definition

The suspension systems are produced in different lengths and/or shapes, depending on the application field and customer requirements. The main raw material used for this product is hot dip galvanized steel with pure zinc coating. Suspension systems play a crucial role in stabilizing and securing ceiling and wall structures. They offer a robust connection, distribute loads, and enhance the load-bearing capacity of installed components. By using a specific number of fasteners, the tensile, shear, and impact resistance, as well as the fatigue strength of the entire structure, are improved. For the placing of the product on the market 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 taken into consideration EN 13964:2014 'Suspended ceilings - Requirements and test methods'.

2.2 Application

Steel suspension systems are versatile and can be applied in various settings including commercial buildings, data centres, industrial facilities, retail spaces, and even standard private houses. Their use greatly enhances structural stability and load-bearing capacity. They are instrumental in improving tensile, shear, and impact resistance, as well as fatigue strength, across a wide range of architectural and structural applications.

2.3 Technical Data

The technical specification of the products is in accordance with EN 13964:2014.

Constructional data

Name	Value	Unit
Load-bearing capacity depending on profile used	150/250/400	N
Durability	B	

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to EN 13964:2014 Suspended ceilings - Requirements and test methods.

2.4 Delivery status

The products are packaged with polyethylene (PE) film in cardboard boxes with 25 pieces or 100 pieces.

2.5 Base materials/Ancillary materials

The raw material used to produce the declared product suspension system is 100% hot dip galvanized steel with pure zinc coating.

This product/article/at least one partial article contains substances listed in the REACH SVHC candidate list (date: 17.01.2023) exceeding 0.1 percentage by mass: NO.

This product/article/at least one partial article 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 raw material is loaded onto reels on various production machines. After processes of bending, stamping, pressing and cutting, the products are packed in cartons.

2.7 Environment and health during manufacturing

Georg Kimmel GmbH has its own quality management system and is certified in accordance with DIN EN ISO 9001 by TÜV Rheinland.

2.8 Product processing/Installation

Bending machines, automatic stamping and pressing machines are used in the production processes. No special environmental protection is needed by installation.

2.9 Packaging

Cardboard boxes and polyethylene (PE) film are used as packaging materials. 75% of cardboard boxes are to be recycled and 25% of them are to be incinerated with energy recovery. 100% of PE film is to be incinerated as well with energy recovery.

2.10 Condition of use

All supplied materials are protected in the installed condition against external influences and designed for the service life of the respective construction.

2.11 Environment and health during use

When used as designated, there is no impact on the environment or health during use.

2.12 Reference service life

No relevant information as no use phase is declared. The main factors influencing the lifetime of the declared product involve weathering as well as mechanical loads.

2.13 Extraordinary effects

Fire

The fire performance of the products is assessed according to EN 13964:2014, which is predefined as A1.

Fire protection

Name	Value
Building material class	A1
Burning droplets	d0
Smoke gas development	s1

Water

The suspension system is comprised of hot dip galvanized steel, therefore there are no environmental risks attributable to the effects of water.

Mechanical destruction

There are no impacts on the environment following unforeseeable mechanical destruction.

2.14 Re-use phase

85% of the product is to be recycled and 15% of the product is to be incinerated without energy recovery.

2.15 Disposal

The waste code in accordance with the European Waste Index is 170405 - Iron and steel.

2.16 Further information

More product-relevant information can be found at: www.kimmel.de/de/downloads



3. LCA: Calculation rules

3.1 Declared Unit

The declared unit is the production of 1 kg of suspension system (mass excluding packaging materials).

Declared unit and mass reference

Name	Value	Unit
Declared unit (e.g. modular channel system)	1	kg
Gross density	7825	kg/m ³
Packaging materials	3.86E-02	kg/kg

The raw materials and production processes are the same for all suspension systems and the declared products are only produced at one site in Germany. The only differences are the shapes and the sizes of the products. Therefore, the differences in the environmental impacts of those different products can be neglected.

3.2 System boundary

Type of the EPD: cradle to gate with options.

A1-A3: All raw materials (purchased hot dip galvanized steel with pure zinc coating) belong to A1. Transports of the raw materials are assigned to A2. Energy inputs and utilities for production at Georg Kimmel GmbH as well as production waste treatment belong to A3. The production of packaging materials for products (PE-film and cartons) is also part of A3.

A4-A5: The transport to customers belongs to A4. The environmental impacts from the treatment of packaging waste are assigned to A5.

C1-C4: C1 is considered as no environmental impacts due to the fact that suspension systems are applied in many different applications and due to the long lifespan of the product, the data for demolition is unavailable. The transport to end-of-life (EOL) treatment is assigned to C2. Treatment of the product belongs to C3. No emissions in C4 as there is no landfill of the product.

D: Burdens and credits from material recycling and energy recovery from incineration are considered here.

3.3 Estimates and assumptions

- All inputs and outputs of the production by Georg Kimmel GmbH were considered in the calculation. Supplier-specific GWP data from a relevant EPD document for raw materials was used for modelling due to the fact that steel itself is not produced by Georg Kimmel GmbH.
- Scraps by production are recycled externally, therefore only impacts from transport is considered with a distance assumption of 50 km.
- Assumptions of transport parameters were also made for modules A2, A4, A5 and C2 with Euro 0-6 mix, more than 32 t, 61% utilization. Supplier-specific distances of raw materials to manufacturing site (A2) and specific distance of product transport (A4) were provided by Georg Kimmel GmbH.
- For packaging treatment in A5, 75 % of carton is assumed to be recycled with credits and 25 % to be incinerated with energy recovery; PE film is assumed to be 100 % incinerated with energy recovery as well.
- For C2 a distance of 50 km to waste treatment plant is assumed with the same parameters above.

- At the end-of-life stage the product is assumed to be recycled (85 %) and incinerated (15 %)
- Credits (D) for the avoided production of electricity and steam in another product system due to the incineration processes of packaging materials were considered. Credits (D) for the recycling materials from packaging treatment and end of life were also considered.
- Needed machines, plants and further infrastructure for the production at Georg Kimmel GmbH are not considered in the calculation.

3.4 Cut-off criteria

All relevant and available primary data of the production processes incl. raw materials and auxiliaries were considered. 0,1 % packaging material was cut off due to the unavailability of dataset. At least 98% of the input and output flows are included in the calculation.

3.5 Background data

The background data come from Sphera 2023.1 and ecoinvent v3.8 (cut-off). Supplier specific emission factor of electricity is used. The GWP-total value from supplier's EPD is used in the modelling of input.

3.6 Data quality

The geographical scope of the study is determined by the production of Georg Kimmel GmbH in Germany. Therefore, German data sets are preferred to be used for the respective processes. If this was not possible, European or global data were used. For product transport and end-of-life stages European datasets were used (geographical scope: Europe). The process data used is based on primary data provided by Georg Kimmel GmbH. The technological coverage could be assumed to reflect the physical reality of the declared product suspension systems (steel).

The reference year 2022 was used as the basis for the process data collected. The background data used are mainly based on 2019 to 2022 as the reference period.

Used datasets are complete according to the system boundary within the limitations and assumptions.

As there's only one input material and the production processes are quite similar, therefore allocation of different sizes is carried out on mass basis and it could be considered as no difference in impacts per kg.

3.7 Period under review

The reference year 2022 was used as the basis for the process data collected.

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: Europe

3.9 Allocation

Mass allocation is conducted for primary data taken into calculation as the production processes of the product group are quite similar. Because there is no co-products or multi-products, no allocations are applied in A1-A3. Scraps from A3 are transported to external partners and the corresponding recycling is outside the system boundary, therefore no allocation or credits is considered in the calculation. All benefits of material recovery (cardboard) and energy recovery from packaging treatment (cardboard and plastics) in module A5 are allocated to module D. At end of life phase benefits of material recycling (C3) with the consideration of



corresponding dataset of input in A1 are allocated to module D (avoided burden approach).

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 used background databases are Sphera 2023.1 and ecoinvent v3.8 (cut-off).

4. LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

The declared product does not contain biogenic carbon. The cardboard boxes from packaging materials contain 0.016kg /kg biogenic carbon. With the amount of 0.037kg /kg product, the biogenic carbon content of packaging is 0.0006 kg.

Information on describing the biogenic carbon content at factory gate

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

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	0.0006	kg C

Disposal of packaging materials is declared in Module A5. Packaging materials of the products are assumed to be

recycled and incinerated with credits: 75% of carton is assumed to be recycled with material credits and 25% to be incinerated with credits from energy recovery; PE film is assumed to be 100% incinerated with energy recovery.

Transport from the gate to the site (A4)

Name	Value	Unit
Transport distance	600	km
Capacity utilisation (including empty runs)	61	%
Capacity	>32	t

No relevant information of reference lifetime as no use phase is declared.

End of life (C1-C4)

Name	Value	Unit
Recycling	0.85	kg
Incineration	0.15	kg



5. LCA: Results

Following shows the system boundary and the 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 Suspension system

Parameter	Unit	A1-A3	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq	3.27E+00	3.22E+00	5.15E-03	4.7E-02	5.1E-02	1.7E-02	0	4.09E-03	6.02E-03	0	-2.21E+00
GWP-fossil	kg CO ₂ eq	3.27E+00	3.22E+00	5.14E-03	4.63E-02	5.09E-02	4.22E-03	0	4.08E-03	6.05E-03	0	-2.2E+00
GWP-biogenic	kg CO ₂ eq	3.35E-03	2.85E-03	-1.89E-05	5.24E-04	-1.87E-04	1.28E-02	0	-1.5E-05	3.02E-05	0	-2.39E-03
GWP-luluc	kg CO ₂ eq	7.83E-04	5.44E-04	3.07E-05	2.08E-04	3.04E-04	1.66E-07	0	2.44E-05	-6.16E-05	0	-5.19E-04
ODP	kg CFC11 eq	4.11E-09	3.16E-14	8.99E-16	4.11E-09	8.9E-15	4.19E-15	0	7.14E-16	1.2E-13	0	-3.08E-09
AP	mol H ⁺ eq	7.61E-03	7.41E-03	7.23E-06	1.87E-04	7.15E-05	4.86E-06	0	5.74E-06	-7.03E-05	0	-5.14E-03
EP-freshwater	kg P eq	1.82E-05	1.3E-06	1.2E-08	1.69E-05	1.18E-07	1.13E-09	0	9.5E-09	-2.03E-08	0	-1.36E-05
EP-marine	kg N eq	1.7E-03	1.62E-03	2.88E-06	7.84E-05	2.85E-05	1.57E-06	0	2.29E-06	-2.78E-05	0	-1.15E-03
EP-terrestrial	mol N eq	1.76E-02	1.7E-02	3.31E-05	5.87E-04	3.28E-04	2.25E-05	0	2.63E-05	-3.02E-04	0	-1.19E-02
POCP	kg NMVOC eq	5.77E-03	5.63E-03	6.4E-06	1.3E-04	6.34E-05	4.1E-06	0	5.09E-06	-7.63E-05	0	-3.9E-03
ADPE	kg Sb eq	1.81E-05	1.8E-05	3.64E-10	7.19E-08	3.6E-09	3.16E-11	0	2.89E-10	-4.26E-09	0	-1.22E-05
ADPF	MJ	3.39E+01	3.31E+01	6.96E-02	7.46E-01	6.89E-01	6.33E-03	0	5.53E-02	1.19E-01	0	-2.28E+01
WDP	m ³ world eq deprived	1.02E+00	1.01E+00	2.67E-05	1.36E-02	2.64E-04	1.98E-03	0	2.12E-05	1.86E-02	0	-6.89E-01

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 Suspension system

Parameter	Unit	A1-A3	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	2.12E+00	1.12E+00	4.5E-03	1E+00	4.46E-02	2.05E-03	0	3.58E-03	5.56E-02	0	-1.07E+00
PERM	MJ	0	0	0	0	0	0	0	0	0	0	0
PERT	MJ	2.12E+00	1.12E+00	4.5E-03	1E+00	4.46E-02	2.05E-03	0	3.58E-03	5.56E-02	0	-1.07E+00
PENRE	MJ	3.39E+01	3.31E+01	6.97E-02	7.46E-01	6.9E-01	6.33E-03	0	5.53E-02	1.16E-01	0	-2.28E+01
PENRM	MJ	0	0	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.39E+01	3.31E+01	6.97E-02	7.46E-01	6.9E-01	6.33E-03	0	5.53E-02	1.16E-01	0	-2.28E+01
SM	kg	1.03E-01	1.03E-01	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0
FW	m ³	2.47E-02	2.44E-02	4.1E-06	3.82E-04	4.06E-05	4.68E-05	0	3.26E-06	3.69E-04	0	-1.67E-02

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 Suspension system

Parameter	Unit	A1-A3	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	4.07E-09	3.92E-09	1.87E-13	1.47E-10	1.85E-12	1.56E-14	0	1.48E-13	3.35E-12	0	-2.66E-09
NHWD	kg	1.35E-01	1.34E-01	1.02E-05	5.62E-04	1.01E-04	6.63E-04	0	8.07E-06	1.24E-02	0	-9.06E-02
RWD	kg	5.3E-06	8.78E-07	7.29E-08	4.35E-06	7.21E-07	2.11E-07	0	5.79E-08	1.61E-05	0	-8.86E-06
CRU	kg	0	0	0	0	0	0	0	0	0	0	0
MFR	kg	2.59E-01	0	0	2.59E-01	0	2.78E-02	0	0	8.5E-01	0	-8.5E-01
MER	kg	0	0	0	0	0	1.08E-02	0	0	0	0	-1.08E-02
EEE	MJ	0	0	0	0	0	5.26E-02	0	0	0	0	-5.26E-02



EET	MJ	0	0	0	0	0	2.26E-02	0	0	0	0	-2.26E-02
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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 Suspension system

Parameter	Unit	A1-A3	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
PM	Disease incidence	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IR	kBq U235 eq	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETP-fw	CTUe	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HTP-c	CTUh	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HTP-nc	CTUh	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SQP	SQP	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

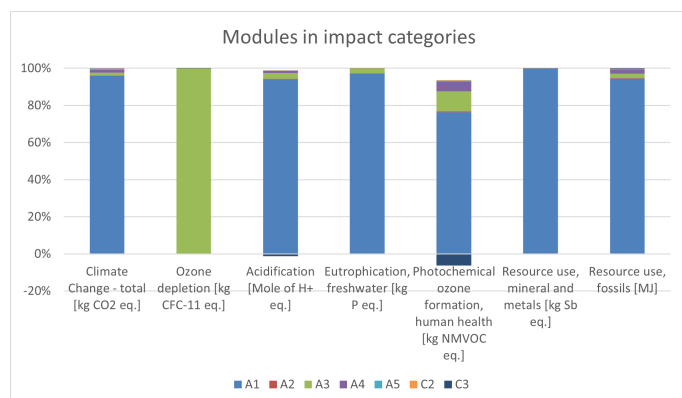
PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic);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

In the interpretation, the following representative impact categories are selected for the considered product: GWP-total, ODP, AP, EP-freshwater, POCP, ADP-mineral and metals (ADPE) as well as ADP-fossil (ADPF). Module D is excluded in the interpretation of share because it's outside the system boundary. A1 has the largest share in almost all selected categories: 'GWP-total' (96.1%), 'AP' (97.3%), 'POCP' (97.7%), 'ADPE' (99.6%) and 'ADPF' (95.1%), which means the production of raw material (steel) is the main driver for these impacts. In category 'ODP' and 'EP-freshwater' A3 has the largest share due to the packaging materials.

This result is valid for suspension systems with different sizes and shapes produced in Georg Kimmel GmbH. Due to the same input and processes, it's considered to be no difference in impacts per kg.



7. Requisite evidence

The performance declaration of the declared product is in alignment with EN 13964:2014.

Wesentliche Merkmale	System	Leistung	Harmonisierte technische Spezifikation
Brandverhalten	4	A 1	EN 13964 : 2014
Tragfähigkeit zul. F	3	400 N*	
Grenzabmaße und Maße	4	NPD**	
Widerstand gegenüber Befestigungen	3	NPD	
Dauerhaftigkeit	4	B	



8. References

Standards

DIN EN ISO 14020

DIN EN ISO 14020:2000, Environmental labels and declarations - General principles

DIN EN ISO 14021

DIN EN ISO 14021: 2016, Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling)

DIN EN ISO 14025

DIN EN ISO 14025:2011, Environmental labels and declarations - Type III environmental declarations - Principles and procedures

EN 15804

EN 15804:2012+A1:2014+A2:2019, Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products

DIN EN ISO 9001

DIN EN ISO 9001: 2015 Quality Management Systems Requirements

EN 13964

EN 13964:2014 Suspended ceilings - Requirements and test methods

Further references

JRC: 2020

https://eplca.jrc.ec.europa.eu/permalink/Annex_C_V2.1_May2020.xlsx

Ecoinvent Database, Version 3.8

GaBi Professional Database (Sphera), Version 2023.1

IBU 2021

Institut Bauen und Umwelt e.V.: General Instructions for the EPD programme of Institut Bauen und Umwelt e.V., Version 2.0, Berlin: Institut Bauen und Umwelt e.V., 2021 www.ibu-epd.com

Product Category Rules for Building-Related Products and Services (IBU)

Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report+Part B: Requirements on the connection, assembly and installation systems

Regulation (EU) No. 305/2011 (CPR) - construction products REACH

European Waste Index

Ordinance on Biocide Products No. 528/2012

The literature referred to in the Environmental Product Declaration must be listed in full. Standards already fully quoted in the EPD do not need to be listed here again.

The current version of PCR Part A and PCR Part B of the PCR document on which they are based must be referenced.



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