

ENVIRONMENTAL PRODUCT DECLARATION

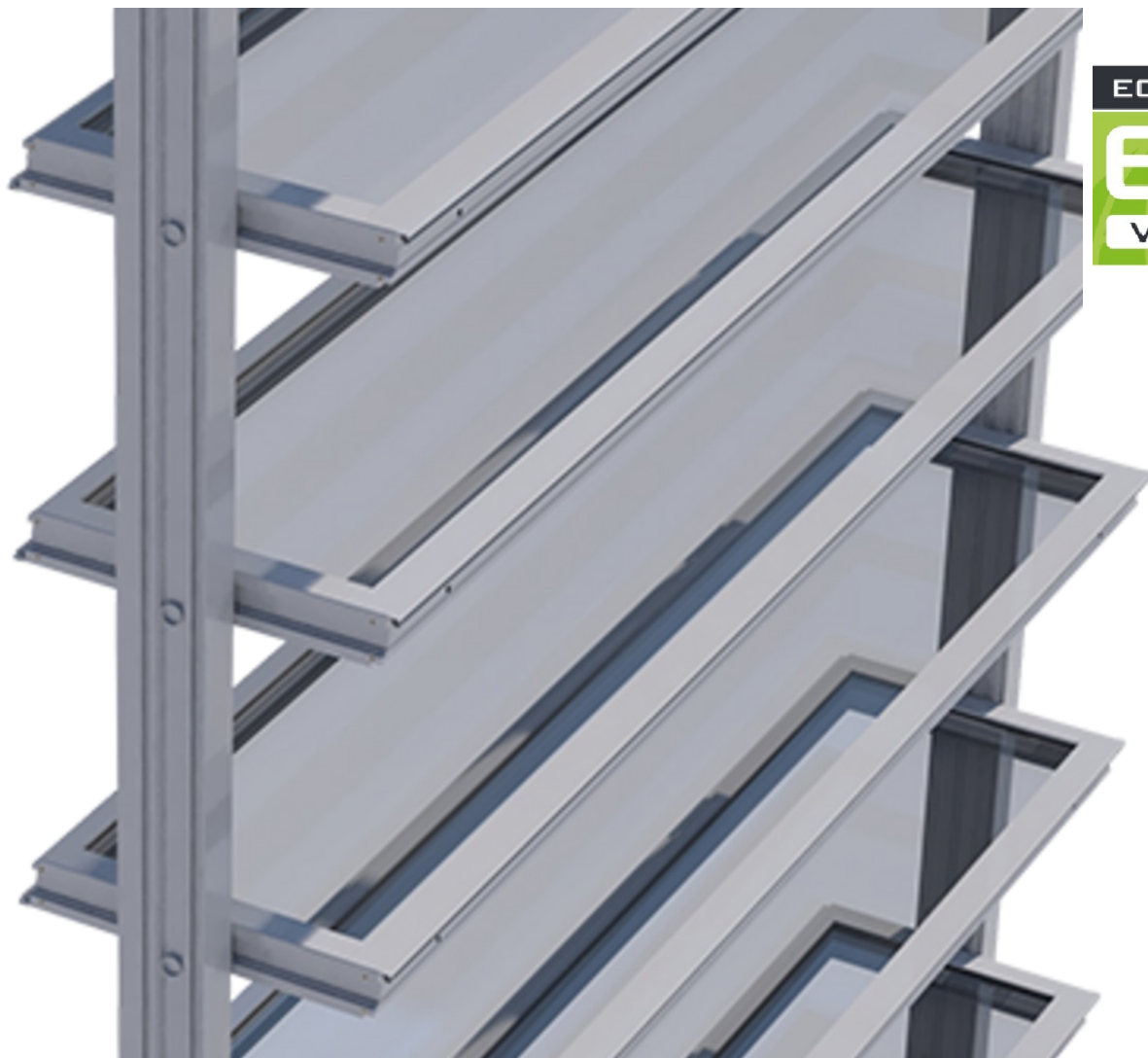
as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Kingspan Light + Air
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-KIN-20250059-CBI1-EN
Issue date	25.02.2025
Valid to	24.02.2030

Coltite CL3

Kingspan Light+ Air

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General Information

Kingspan Light+ Air

Programme holder

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

Declaration number

EPD-KIN-20250059-CBI1-EN

This declaration is based on the product category rules:

Windows and doors , 01.08.2021
(PCR checked and approved by the SVR)

Issue date

25.02.2025

Valid to

24.02.2030



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



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

Coltite CL3

Owner of the declaration

Kingspan Light + Air
Carrickmacross Rd Corgarry
A82 E897 Kingscourt, Co. Cavan
Ireland

Declared product / declared unit

This environmental product declaration is for 1 m² of Coltite CL3.

Scope:

The Coltite CL3 ventilator can be installed into glazing systems or wall openings. All major components and louvres are manufactured from EN AW-6063-T6 aluminium.
A Coltite CL3 ventilator is labelled as complying with EN 14351-1or (the product standard for windows) or EN 12101-2 (standard for natural smoke and heat exhaust ventilators) and are manufactured in the factory ready for operation. So the window can be opened for daily ventilation as well as for smoke extraction.

The drives are not within the scope of this product declaration. The EPD for a representative drive can be found in the IFT Rosenheim database under the declaration number M-EPD-AZR-2.02.

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



Mrs Kim Allbury,
(Independent verifier)

Product

Product description/Product definition

The Colt Coltlite CL3 is a version of a louvre window made from thermally broken profiles and is only for vertical installation certainly. It can be used in a vertical installation position in glass facades as well as in wall openings. Depending on the design, the drive(s) is mounted laterally. The device was primarily developed as a natural smoke and heat exhaust device (NSHEV), but it can also be used for natural supply and exhaust air can be used. In the slats made of thermally broken aluminum profiles, most usual fillings can be used. A variant for daily ventilation with an electric or manual drive is also available.

For the placing of the product on the market in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) the Regulation (EU) No. 305/2011/ (CPR) and the following other provisions for harmonisation apply:

MD 2006/42/EC, EMCD 2014/30/EU, LVD 2014/35, GEG.

The product needs a declaration of performance in accordance with the CPR taking into consideration EN 12101-2, EN 14351-1 and the CE-marking.

Application

The Coltlite CL3 is a type of louvre window and is intended for vertical installation in glass facades and wall openings.

The maximum opening angle is up to 85%.

Technical Data

The ones on the device or in the Documentation stated values were obtained under laboratory conditions in accordance with applicable standards determined. These values can vary depending on the design, usage and environmental conditions. There is information about different technical properties.

Constructional data

Name	Value	Unit
Vent width (min./max.)	350/2500	mm
Vent height (min./max.)	323/3000	mm
Louvre height (min./max.)	279/500	mm
Depth of frame	71	mm
Thickness of glass	40	mm
weight	depends on the size	kg
Resistance to weather to EN 12208	depends on the size	
Air permeability to EN 12207	depends on the size	
Resistance to wind to EN 12210	depends on the width, wind strength and louvre height	
Noise reduction to EN ISO 717/1	Noise-related values have to be tested and cannot be calculated	
Light transmittance to EN 410	Each of these values need to be provided in individual cases by the supplier	

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to EN 12101-2 and EN 14351-1.

Base materials/Ancillary materials

Base materials are 51% glass, 37% aluminium, 9% plastics, 2% coatings, 1% steel.

This product contains substances listed in the candidate list (date: 14.10.2024; 241 substances listed) exceeding 0.1 percentage by mass: no

Reference service life

According to the Federal Office for Building and Regional planning (BBSR), a reference service life of >50 years can be assumed for exterior windows. The use stage (module B2) is declared in this EPD for 50 years of usage.

LCA: Calculation rules

Declared Unit

The declared unit refers to 1 m² of a reference Coltlite CL3 product.

Declared unit and mass reference

Name	Value	Unit
Grammage	52.9	kg/m ²
Declared unit	1	m ²
Layer thickness	0.0915	m

Other declared units are allowed if the conversion is shown transparently.

For IBU core EPDs (where clause 3.6 is part of the EPD): for average EPDs, an estimate of the robustness of the LCA values must be made, e.g. concerning the variability of the production process, geographical representativeness and the influence of background data and preliminary products compared to the environmental impacts caused by the actual production.

System boundary

The type of EPD is cradle-to-gate with options. The additional modules are modules A4, A5, B2 and B6.

Considered product stages:

- raw materials, raw material transportation, manufacture of product and packaging materials are declared in modules A1-A3.
- Modules A1-A3 also include the manufacturing and supply of energy. The production is done using certified green electricity (hydro power) and own Photovoltaik electricity. The share of certified electricity accounts for 100% of the total electricity consumption.

- Modules A1-A3 also includes the Production Outputs and thus the waste scenario with recycling and landfill.
- The scenario for the transport of the product to the construction site is declared in module A4.
- The use of energy for installation is declared in module A5 Product installation.
- The maintenance stage (cleaning) is included in module B2.
- The energy for the use of the product is included in module B6.
- The end-of-life scenarios include manual dismantling C1.

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

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

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. 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. Background dataset: LCA for Expert (former GaBi) software - Cup 2023.1.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

Biogenic carbon is present in the packaging materials (wooden pallets and cardboard).

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	20.5	kg C

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

The following technical scenario information is required for the declared modules and optional for non-declared modules. Modules for which no information is declared can be deleted; additional information can also be listed if necessary.

The following technical information is a basis for the declared modules or can be used for developing specific scenarios in the context of a building assessment if modules are not declared (MND).

A5 is not declared including the disposal of the packaging material on the construction site, the amounts of packaging materials included in the LCA calculations must be declared as technical scenario information for Module A5.

Transport to the building site (A4)

Module A4 considers a 1145 km small truck transport from the manufacturing plant in Germany (Kleve) to the average customer.

Name	Value	Unit
Transport distance	1145	km
Litres of fuel	0.011	l/100km
Capacity utilisation (including empty runs)	53	%

Installation into the building (A5)

The installation of the Coltlite CL3 is done manually with the help of electric tools (impact drill). The energy consumption was estimated as 0,48 MJ per m² installed. The product is delivered complete.

Module A5 considers all the waste treatment and disposal of the packaging material. Benefits for potential avoided burdens due to energy substitution of electricity and thermal energy generation are declared in module D.

Name	Value	Unit
Electricity consumption	0.133	kWh

Packaging material:

Wood pallets: 50 kg/D.U.
Plastic strap: 1,755 kg/D.U.
Polystyrene corners: 0,368 kg/D.U.

Maintenance (B2)

Modul B2 includes the cleaning of the window. Coltlite CL3 are located in a vertical installation position in glass facades as well as in wall openings, and cleaning is carried out quarterly with water. Cleaning of 1 m² of window is estimated to require 5

litres of water per cleaning (4x/year = 20 litres).

Name	Value	Unit
Water consumption	0.02	m ³

According to the Federal Office for Building and Regional planning (BBSR), a reference service life of >50 years can be assumed for exterior windows. The use stage (module B2) is declared in this EPD for 50 years of usage.

Reference service life

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

Operational energy use (B6)

The product in the scope of the EPD does not have any operational energy. It works together with a drive, which is outside the scope of the EPD. The drive has operational energy. The EPD for a representative drive can be found in the IFT Rosenheim database under the declaration number M-EPD-AZR-2.02.

Name	Value	Unit
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End of life (C1-C4)

The end-of-life scenarios are as follows:

- C1 - The deconstruction of the product is done manually with the help of tools (energy consumption of 0,17 MJ).
- C2 - The transport to waste processing is assumed to be 50 km.
- C3 - Once dismantled, the metal parts of the Coltlite CL3 are recycled and the plastic parts are incinerated with energy recovery.
- C4 - GWP-biogenic C4 is = 0, as the product is not expected to generate waste at landfill sites. The metal parts are recycled and all other parts are incinerated with energy recovery.

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

Module D includes the potential benefits in form of energy recovery of the incineration process A5 (incineration of packaging wastes).

Additionally, module D declares the benefits from the energy recovery of the incineration of the product at its end of life as well as the materials credits generated from the recycling of the product at its end of life (metals and plastics).

Name	Value	Unit
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LCA: Results

The following tables display the environmentally relevant results according to EN 15804+A2 for 1 m² of Coltlite CL3. The results per m² are scalable by the kg of the window.

Scenario 1 (C3 and D): 100% Thermal treatment of the plastic parts of the product with energy recovery.

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	X	MNR	MNR	MNR	X	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m² Coltlite CL3

Parameter	Unit	A1-A3	A1	A2	A3	A4	A5	B2	B6	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq	8.3E+01	1.22E+02	1.07E+01	-4.94E+01	4.31E+01	7.38E+01	2.03E-02	0	1.97E-02	2.09E-01	1.32E+01	4.01E-01	-8.31E+01
GWP-fossil	kg CO ₂ eq	1.57E+02	1.21E+02	1.06E+01	2.56E+01	4.26E+01	6.69E+00	1.03E-02	0	1.96E-02	2.07E-01	1.32E+01	3.99E-01	-8.29E+01
GWP-biogenic	kg CO ₂ eq	-7.46E+01	4.22E-01	2.15E-02	-7.5E+01	9.22E-02	6.71E+01	1E-02	0	7.65E-06	4.73E-04	6.96E-04	0	-2.41E-01
GWP-luluc	kg CO ₂ eq	1.46E-01	3.45E-02	7.98E-02	3.21E-02	3.62E-01	2.09E-03	2.94E-06	0	1.82E-06	1.94E-03	5.08E-05	1.26E-03	-1.47E-02
ODP	kg CFC11 eq	1.11E-09	8.2E-10	1.27E-12	2.94E-10	5.37E-12	8.38E-12	6.74E-14	0	1.96E-13	2.72E-14	1.37E-12	1.03E-12	-2.49E-10
AP	mol H ⁺ eq	6.3E-01	5.22E-01	4.66E-02	6.12E-02	1.15E-01	1.22E-02	2.51E-05	0	3.03E-05	3.08E-04	2.61E-03	2.87E-03	-3.05E-01
EP-freshwater	kg P eq	2.23E-04	1.4E-04	3.2E-05	5.1E-05	1.44E-04	2.93E-06	1.26E-05	0	1.97E-08	7.65E-07	3.91E-07	8.16E-07	-6.6E-05
EP-marine	kg N eq	1.71E-01	1.24E-01	2.21E-02	2.46E-02	5.05E-02	3.5E-03	5.43E-05	0	8.55E-06	1.12E-04	8.31E-04	7.43E-04	-4.54E-02
EP-terrestrial	mol N eq	1.92E+00	1.41E+00	2.46E-01	2.69E-01	5.73E-01	5.06E-02	7.65E-05	0	9.04E-05	1.32E-03	1.27E-02	8.17E-03	-4.92E-01
POCP	kg NMVOC eq	4.92E-01	3.49E-01	5.85E-02	8.4E-02	1.34E-01	9.61E-03	1.93E-05	0	2.36E-05	2.7E-04	2.2E-03	2.24E-03	-1.37E-01
ADPE	kg Sb eq	1.92E-04	1.89E-04	5.91E-07	2.22E-06	2.63E-06	8.77E-08	4.71E-10	0	9.65E-10	1.39E-08	1.13E-08	1.87E-08	-1.48E-05
ADPF	MJ	2.67E+03	2.05E+03	1.43E+02	4.76E+02	5.83E+02	2.33E+01	1.1E-01	0	4.38E-01	2.85E+00	2.72E+00	5.39E+00	-1.22E+03
WDP	m ³ world eq deprived	1.21E+01	1.01E+01	1.08E-01	1.87E+00	4.79E-01	8.01E+00	4.04E-03	0	1.67E-03	2.53E-03	1.24E+00	4.45E-02	-1.14E+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 m² Coltlite CL3

Parameter	Unit	A1-A3	A1	A2	A3	A4	A5	B2	B6	C1	C2	C3	C4	D
PERE	MJ	9.1E+02	6.64E+02	8.65E+00	2.37E+02	3.9E+01	7.55E+02	4.3E-02	0	6E-02	2.07E-01	7.44E-01	8.79E-01	-4.77E+02
PERM	MJ	7.5E+02	0	0	7.5E+02	0	-7.5E+02	0	0	0	0	0	0	0
PERT	MJ	1.66E+03	6.64E+02	8.65E+00	9.87E+02	3.9E+01	5.19E+00	4.3E-02	0	6E-02	2.07E-01	7.44E-01	8.79E-01	-4.77E+02
PENRE	MJ	2.39E+02	1.86E+03	1.44E+02	3.81E+02	5.85E+02	1.19E+02	1.1E-01	0	4.38E-01	2.86E+00	1.92E+02	5.4E+00	-1.22E+03
PENRM	MJ	2.85E+02	1.89E+02	0	9.62E+01	0	-9.62E+01	0	0	0	0	-1.89E+02	0	0
PENRT	MJ	2.67E+03	2.05E+03	1.44E+02	4.77E+02	5.85E+02	2.33E+01	1.1E-01	0	4.38E-01	2.86E+00	2.72E+00	5.4E+00	-1.22E+03
SM	kg	1.23E+01	1.23E+01	0	0	0	0	0	0	0	0	0	0	7.57E+00
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m ³	1.06E+00	9.77E-01	9.5E-03	7.81E-02	4.27E-02	1.89E-01	1.12E-04	0	1E-04	2.27E-04	2.93E-02	1.36E-03	-9.66E-01

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 m² Coltlite CL3

Parameter	Unit	A1-A3	A1	A2	A3	A4	A5	B2	B6	C1	C2	C3	C4	D
HWD	kg	9.04E-07	7.54E-07	4.47E-10	1.5E-07	1.81E-09	4.85E-10	9.04E-13	0	2.54E-11	8.86E-12	5.84E-11	1.18E-10	6.3E-08
NHWD	kg	2.58E+01	2.53E+01	2.03E-02	4.39E-01	8.61E-02	1.82E+00	1.93E-02	0	9.65E-05	4.36E-04	2.12E-01	2.7E+01	-1.62E+01
RWD	kg	1.62E-01	1.48E-01	2.51E-04	1.44E-02	1.06E-03	1.25E-03	9.86E-06	0	6.82E-05	5.35E-06	1.16E-04	6.16E-05	-7.99E-02
CRU	kg	0	0	0	0	0	0	0	0	0	0	0	0	0

MFR	kg	2.96E+00	0	0	2.96E+00	0	0	0	0	0	0	1.71E+01	0	0
MER	kg	0	0	0	0	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	1.05E+02	0	0	0	0	2.09E+01	0	0
EET	MJ	0	0	0	0	0	1.89E+02	0	0	0	0	4.23E+01	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 m² Coltite CL3

Parameter	Unit	A1-A3	A1	A2	A3	A4	A5	B2	B6	C1	C2	C3	C4	D
PM	Disease incidence	1.86E-05	7.25E-06	1.16E-06	1.02E-05	2.39E-06	8.57E-08	2.77E-10	0	2.74E-10	2.66E-09	1.44E-08	3.53E-08	-3.37E-06
IR	kBq U235 eq	2.96E+01	2.75E+01	3.73E-02	2.04E+00	1.58E-01	1.96E-01	1.58E-03	0	1.02E-02	7.98E-04	1.62E-02	7.11E-03	-1.52E+01
ETP-fw	CTUe	1.64E+03	1.37E+03	1.02E+02	1.69E+02	4.17E+02	1.05E+01	4.68E-01	0	3.81E-02	2.04E+00	1.03E+00	2.92E+00	-2.77E+02
HTP-c	CTUh	3.14E-07	3.02E-07	2.04E-09	1.04E-08	8.38E-09	8.52E-10	5.84E-11	0	2.26E-12	4.14E-11	1.04E-10	4.53E-10	-3.99E-08
HTP-nc	CTUh	5.59E-06	5.33E-06	8.66E-08	1.82E-07	3.65E-07	4.86E-08	5.8E-09	0	7.27E-11	1.84E-09	3.32E-09	4.78E-08	-7.61E-07
SQP	SQP	1.18E+04	4.94E+02	4.91E+01	1.12E+04	2.23E+02	7.01E+00	3.21E-02	0	5.92E-02	1.19E+00	8.25E-01	1.31E+00	-1.18E+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. This EPD was created using a software tool.

References

Standards

BBSR

Federal Office for Building and Regional Planning

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.

ISO 14025

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

Further References

IBU 2021

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

LCA FE

LCA for Expert Software System and Database for Life Cycle Engineering, 1992-2021, Sphera Solutions GmbH, Leinfelden-Echterdingen, with acknowledgment of LBP University of Stuttgart, program version GaBi 10; database version 2023.1 (CUP 2023.1).

LCA FE documentation

LCA FE dataset documentation for the software system and databases, LBP, University of Stuttgart and Sphera Solutions GmbH, Leinfelden-Echterdingen, 2021.

PCR Part A

PCR - Part A: Calculation rules for the Life Cycle Assessment and Requirements on the Background Report, version 1.3, Institut Bauen und Umwelt e.V., www.bau-umwelt.com, 2024.

PCR Part B

Part B: Requirements on the EPD for Windows and Doors (08.2021).

REACH

Candidate list under echa.europa.eu/de/home Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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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