

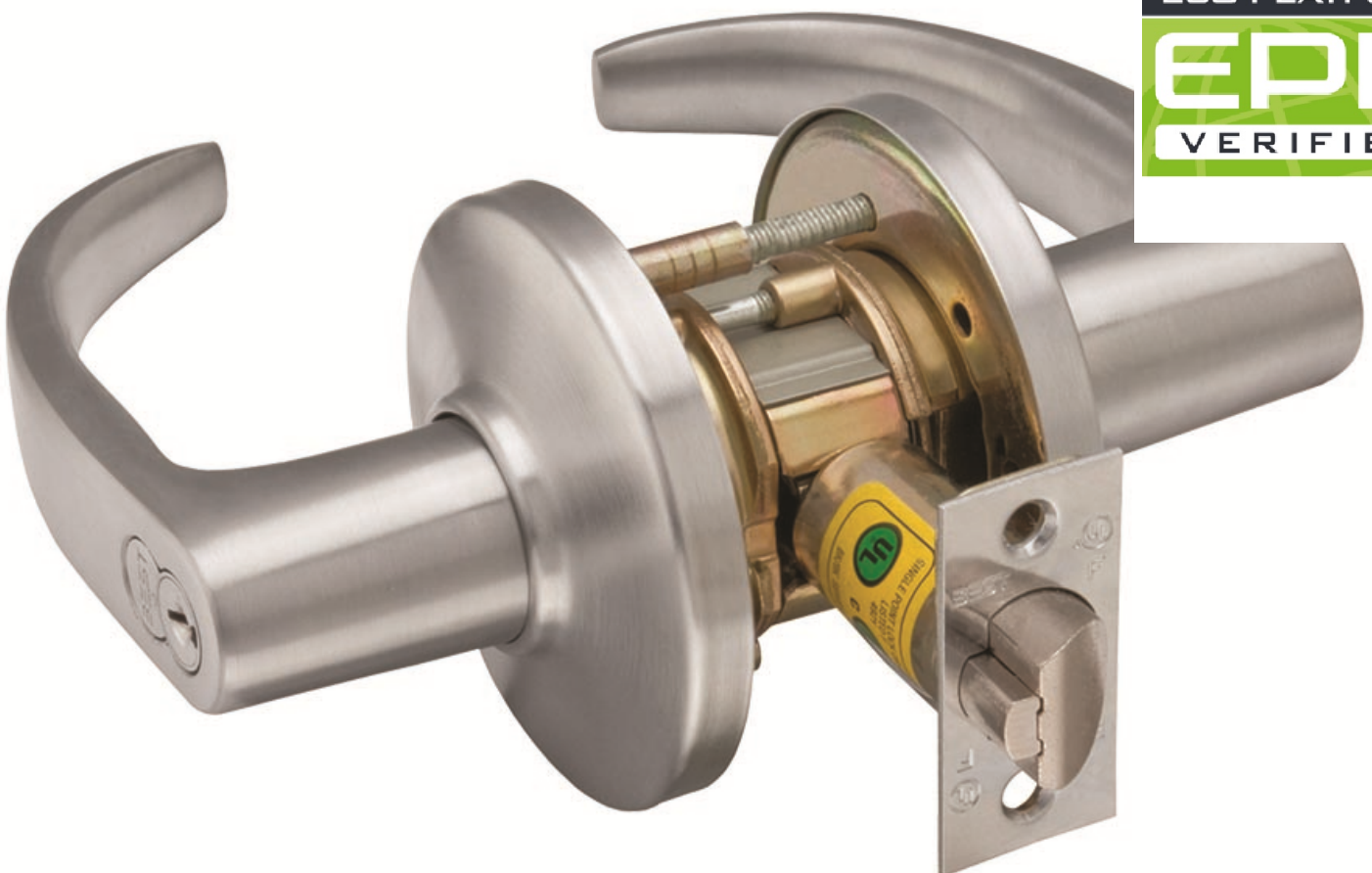
# ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2




Owner of the Declaration	dormakaba International Holding GmbH
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-DOR-20210340-CBA1-EN
Issue date	04.05.2022
Valid to	03.05.2027

## BEST 9K Cylindrical Series dormakaba

[www.ibu-epd.com](http://www.ibu-epd.com) | <https://epd-online.com>



## General Information

<b>dormakaba</b> <b>Programme holder</b> IBU – Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany	<b>BEST 9K Cylindrical Series</b> <b>Owner of the declaration</b> dormakaba International Holding GmbH DORMA Platz 1 58256 Ennepetal Germany
<b>Declaration number</b> EPD-DOR-20210340-CBA1-EN	<b>Declared product / declared unit</b> 1 cylindrical lock (1 piece) of the BEST 9K Series.
<b>This declaration is based on the product category rules:</b> Building Hardware products, 11.2017 (PCR checked and approved by the SVR)	<b>Scope:</b> This Environmental Product Declaration refers to a specific lock manufactured by dormakaba. The production site is located in Indianapolis (USA).
<b>Issue date</b> 04.05.2022	The data represents the year 2020.
<b>Valid to</b> 03.05.2027	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 <i>EN 15804+A2</i> . In the following, the standard will be simplified as <i>EN 15804</i> .
 Dipl. Ing. Hans Peters (chairman of Institut Bauen und Umwelt e.V.)	<b>Verification</b> The standard <i>EN 15804</i> serves as the core PCR Independent verification of the declaration and data according to <i>ISO 14025:2010</i> <input type="checkbox"/> internally <input checked="" type="checkbox"/> externally
 Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.)	 Dr.-Ing. Wolfram Trinius (Independent verifier)

## Product

### Product description/Product definition

Quick installation, proven reliability and enhanced safety all make the 9K the grade 1 cylindrical lock of choice for many. But its wide compatibility with most large format interchangeable cores, regardless of brand, make it a legend. Whether you want to upgrade old hardware or fit out a new facility, the 9K is a great match.

For the use and application of the product the respective national provisions at the place of use apply. The standards which can be applied are the following:

- ANSI/BHMA A156.2
- ANSI A117.1
- Florida Building Code compliant
- California State Fire Marshal compliant
- BAA & TAA compliant
- UL listed

### Application

The BEST 9K series can be used for following building types:

- Learning and higher education
- Healthcare
- Government
- Retail and commercial
- Multifamily
- Hospitality

### Technical Data

The lock has following technical properties:

9K Series Cylindrical Lock Specifications		
<b>Certifications</b>	ANSI/BHMA A156.2 Series—Grade 1 ANSI A117.1 Accessibility Code (ADA compliant) UL/cUL listed (3 hour) for single or double swinging doors Florida Building Code and Miami Dade County (WS option) compliant for hurricane resistance	California State Fire Marshal (California Title 24) compliant California State Fire Marshal compliant for fire door This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code BAA & TAA compliant Illinois Accessibility Standard compliant
<b>Product Specifications</b>	Latch: solid stainless steel 9/16" throw, front 2 1/4" and 1 1/8" beveled Lever handles: plated zinc alloy Trim: brass or bronze Strike: ANSI 2 3/4" standard; ANSI S3 4 7/8", ANSI S3 7/8" flat, and 7/8" flat strike (STK) available	Chassis: zinc alloy and corrosion-treated steel; 2 1/16" diameter Door thickness: available for 1 3/4" or 2 1/4" doors; spacers available for 1 3/8" door Door prep: 2 1/8" diameter cross bore Backset: 2 3/4" standard; 3 2/4" and 5" available
<b>Keying</b>	6-pin non-IC brass cylinder 6- or 7-pin SFC option available <b>Keyway options:</b> LFIC: SCHRC-Schlage, Non-IC: CDR-Corbin-Russwin, MED-Medeco, SAR-Sargent, SCH-Schlage, YAL-Yale	
<b>Lock Functions</b>	<b>Single Keyed:</b> Entrance – AB (F109) Storeroom – D (F86) Service Station – E (F92) Classroom – R (F84) Dormitory – T (F90) Special – A, B, DZ, EA, RZ, XD, XR, YD, YR UA Hotel (SPN-standard) – H, HJ (F93) <b>Double Keyed:</b> Corridor – C (F88) Storeroom – G (F91) Intruder – IN with interior indicator rose standard (F110) Communicating – S (F80) Institutional – W Special – DR, RD <b>Keyless:</b> Passage – N (F75), NX (F89) Exit – Y Privacy – L (F76) Special – LL, M, Q, Z Single dummy trim – 1DT Double dummy trim – 2DT	
<b>All Finishes</b>	605: Bright Brass 606: Satin Brass 611: Bright Bronze 612: Satin Bronze 613: Oil-rubbed Bronze 618: Bright Nickel 619: Satin Nickel	622: Flat Black 625: Bright Chrome 626: Satin Chrome 690: Dark Bronze Coated UltraShield™ antimicrobial coating available
<b>Warranties</b>	Three-year mechanical Three-year finish (613 carries no finish warranty)	

Performance data of the product with respect to its characteristics in accordance with the relevant technical provision which can be applied are mentioned above.

### Base materials/Ancillary materials

The major material compositions including the packaging of the product are listed below:

Name	Value	Unit
Zinc	44	%
Steel	27	%
Paper	9	%
Electronics	8	%
Stainless steel	7	%
Brass	4	%
Others	1	%

The product/s include/s partial articles which contain substances listed in the Candidate List of REACH Regulation 1907/2006/EC (date: 17.01.2022) exceeding 0.1 percentage by mass: yes

- Lead (Pb): 7439-92-1 (CAS-No.) is included in some of the alloys used. The concentration of lead in each individual alloy does not exceed 4.0% (by mass).

The Candidate *List* can be found on the ECHA website address: <https://echa.europa.eu/de/home>.

### Reference service life

The reference service life of the 9K Series cylindrical lock depends on the traffic pattern and degree of usage of the door. These locks are rated to *ANSI Grade 1*, meaning they are designed to withstand a minimum of 1,000,000 cycles. However, the 9K Series cylindrical lock has to be independently tested to surpass 65,000,000 cycles.

## LCA: Calculation rules

### Declared Unit

The declared unit is 1 piece of the product: BEST 9K Cylindrical lock.

### Declared unit

Name	Value	Unit
Declared unit	1	piece/prod uct
Mass of declared Product	2.08	kg

### System boundary

The type of EPD is: cradle to gate with options, modules C1–C4, and module D (A1–A3 + C + D and additional modules: A4 + A5)

### Production - Module A1-A3

The product stage includes:  
— A1, raw material extraction, processing and mechanical treatments, processing of secondary

material input (e.g. recycling processes),  
— A2, transport to the manufacturer,  
— A3, manufacturing and assembly including provision of all materials, products and energy, as well as waste processing up to the end-of waste state.

### Construction stage - Modules A4-A5

The construction process stage includes:  
— A4, transport to the building site;  
— A5, installation into the building;  
including provision of all materials, products and energy, as well as waste processing up to the end-of waste state or disposal of final residues during the construction process stage.

### End-of-life stage– Modules C1-C4 and D

The end-of-life stage includes:  
— C1, de-construction, demolition;  
— C2, transport to waste processing;  
— C3, waste processing for reuse, recovery and/or

recycling;  
 — C4, disposal;  
 including provision and all transport, provision of all materials, products and related energy and water use. Module D (Benefits and loads beyond the system boundary) includes:  
 — D, recycling potentials, expressed as net impacts and benefits.

#### 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.

Background database: *GaBi*, SP40.

## LCA: Scenarios and additional technical information

### Characteristic product properties Information on biogenic Carbon

#### Information on describing the biogenic Carbon Content at factory gate

Name	Value	Unit
Biogenic Carbon Content in accompanying packaging	0.01	kg C

Additional technical information for the declared modules.

#### Transport to the building site (A4)

Name	Value	Unit
Litres of fuel per 1 kg (truck)	0.00276	l/100km
Transport distance (truck)	1500	km
Capacity utilisation (including empty runs) average	55	%
Transport distance (ship)	10000	km

#### Operational energy use (B6)

Name	Value	Unit
Electricity consumption for 1 year	21,9	kWh
Power consumption "on mode"	60	W
Hours per day in use "on mode"	1	h
Power consumption "standby mode"	0	W
Hours per day in use "standby mode"	23	h

#### End of life (C1-C4)

C1: The product dismantling from the building is done manually without environmental burden.

C2: Transport to waste treatment at end of life is 50km.

Name	Value	Unit
Collected separately	1.9	kg
Recycling	1.75	kg
Energy recovery	0.003	kg
Final deposition	0,152	kg

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

Name	Value	Unit
Collection rate is 100%.		

## LCA: Results

### Disclaimer:

**EP-freshwater:** This indicator has been calculated as “kg P eq” as required in the characterization model (EUTREND model, Struijs et al., 2009b, as implemented in ReCiPe; <http://eplca.jrc.ec.europa.eu/LCDN/developerEF.xhtml>)

### DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; ND = 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	ND	ND	MNR	MNR	MNR	X	ND	X	X	X	X	X

### RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 cylindrical lock

Core Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
GWP-total	[kg CO <sub>2</sub> -Eq.]	5.74E+0	3.41E-1	2.52E-1	1.23E+2	0.00E+0	8.00E-3	8.00E-3	2.00E-3	-4.08E+0
GWP-fossil	[kg CO <sub>2</sub> -Eq.]	6.01E+0	3.29E-1	6.00E-3	1.23E+2	0.00E+0	8.00E-3	8.00E-3	2.00E-3	-4.07E+0
GWP-biogenic	[kg CO <sub>2</sub> -Eq.]	-2.72E-1	1.20E-2	2.46E-1	2.70E-2	0.00E+0	3.66E-4	1.78E-7	7.88E-6	-6.00E-3
GWP-luluc	[kg CO <sub>2</sub> -Eq.]	6.60E-3	7.61E-6	4.15E-6	3.70E-2	0.00E+0	1.88E-7	4.31E-7	6.64E-6	-3.00E-3
ODP	[kg CFC11-Eq.]	1.23E-11	3.40E-17	4.55E-17	4.33E-13	0.00E+0	8.35E-19	3.85E-18	8.55E-18	-1.63E-13
AP	[mol H <sup>+</sup> -Eq.]	2.40E-2	3.00E-3	7.07E-5	1.99E-1	0.00E+0	7.92E-6	1.36E-6	1.65E-5	-1.80E-2
EP-freshwater	[kg PO <sub>4</sub> -Eq.]	2.23E-5	7.11E-8	8.90E-9	6.72E-5	0.00E+0	1.69E-9	6.13E-10	3.96E-9	-9.51E-6
EP-marine	[kg N-Eq.]	4.33E-3	7.45E-4	2.55E-5	4.30E-2	0.00E+0	2.52E-6	3.06E-7	4.26E-6	-3.00E-3
EP-terrestrial	[mol N-Eq.]	4.11E-2	8.00E-3	3.18E-4	4.57E-1	0.00E+0	2.80E-5	6.18E-6	4.68E-5	-2.70E-2
POCP	[kg NMVOC-Eq.]	1.19E-2	2.00E-3	6.77E-5	1.22E-1	0.00E+0	7.12E-6	8.47E-7	1.29E-5	-9.00E-3
ADPE	[kg Sb-Eq.]	4.02E-3	9.57E-9	7.18E-10	2.45E-5	0.00E+0	2.37E-10	5.27E-11	2.07E-10	-1.00E-3
ADPF	[MJ]	8.21E+1	4.52E+0	8.00E-2	1.99E+3	0.00E+0	1.12E-1	4.00E-3	3.00E-2	-4.96E+1
WDP	[m <sup>3</sup> world-Eq deprived]	1.90E+0	6.33E-4	3.10E-2	2.38E+1	0.00E+0	1.55E-5	7.80E-4	2.42E-4	-8.83E-1

Caption: 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 cylindrical lock

Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
PERE	[MJ]	3.03E+1	1.40E-2	2.15E+0	3.15E+2	0.00E+0	3.54E-4	2.50E-2	4.00E-3	-9.39E+0
PERM	[MJ]	2.16E+0	0.00E+0	-2.14E+0	0.00E+0	0.00E+0	0.00E+0	-2.40E-2	0.00E+0	0.00E+0
PERT	[MJ]	3.25E+1	1.40E-2	1.40E-2	3.15E+2	0.00E+0	3.54E-4	9.19E-4	4.00E-3	-9.39E+0
PENRE	[MJ]	8.21E+1	4.53E+0	8.00E-2	1.99E+3	0.00E+0	1.12E-1	6.10E-2	3.00E-2	-4.96E+1
PENRM	[MJ]	5.80E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-5.80E-2	0.00E+0	0.00E+0
PENRT	[MJ]	8.22E+1	4.53E+0	8.00E-2	1.99E+3	0.00E+0	1.12E-1	4.00E-3	3.00E-2	-4.96E+1
SM	[kg]	4.80E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
RSF	[MJ]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	[MJ]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	[m <sup>3</sup> ]	5.00E-2	2.58E-5	7.37E-4	7.28E-1	0.00E+0	6.35E-7	1.87E-5	7.63E-6	-3.00E-2

Caption: 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 cylindrical lock

Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
HWD	[kg]	2.50E-7	4.40E-10	1.17E-10	7.66E-7	0.00E+0	1.09E-11	1.35E-11	4.61E-10	-1.77E-6
NHWD	[kg]	4.95E-1	4.63E-4	8.00E-3	6.18E-1	0.00E+0	1.15E-5	7.92E-4	1.52E-1	9.40E-2
RWD	[kg]	6.70E-3	4.89E-6	4.19E-6	1.77E-1	0.00E+0	1.21E-7	1.31E-7	3.44E-7	-2.00E-3
CRU	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.74E+0	0.00E+0	0.00E+0
MER	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EEE	[MJ]	0.00E+0	0.00E+0	3.82E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EET	[MJ]	0.00E+0	0.00E+0	6.92E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0

Caption: 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 cylindrical lock

Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
PM	[Disease Incidence]	2.78E-7	4.42E-8	3.92E-10	1.78E-6	0.00E+0	4.16E-11	1.73E-11	2.05E-10	-2.50E-7
IRP	[kBq U235-Eq]	6.83E-1	7.00E-4	6.48E-4	1.47E+1	0.00E+0	1.72E-5	1.18E-5	3.54E-5	-2.29E-1
ETP-fw	[CTUe]	3.81E+1	3.20E+0	3.80E-2	5.94E+2	0.00E+0	8.00E-2	1.00E-3	1.70E-2	-2.08E+1
HTP-c	[CTUh]	2.23E-7	6.03E-11	2.00E-12	1.28E-8	0.00E+0	1.50E-12	1.15E-13	2.56E-12	1.10E-8
HTP-nc	[CTUh]	4.60E-7	2.63E-9	8.67E-11	4.83E-7	0.00E+0	6.40E-11	1.16E-11	2.82E-10	1.38E-6
SQP	[-]	5.62E+1	1.20E-2	2.10E-2	1.82E+2	0.00E+0	2.88E-4	1.00E-3	6.00E-3	-2.89E+0
Caption	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 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.

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 or as there is limited experience with the indicator.

## References

Bauen und Umwelt e.V., 2021. [www.ibu-epd.com](http://www.ibu-epd.com).

### ANSI A117.1

ANSI/ICC A117.1 - 2009, Accessible and usable buildings and facilities.

### ANSI/BHMA A156.2

ANSI/BHMA A156.2 - 2017, Bored & Preamsembled Locks and Latches

### EN 15804

EN 15804:2019+A2, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

### ISO 14025

DIN EN ISO 14025:2011-10, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

### Further References

#### BAA

Buy America Act,  
<https://www.gao.gov/products/105519>.

#### California State Fire Marshal

<https://osfm.fire.ca.gov/>.

#### Florida Building Code

[https://www.floridabuilding.org/bc/bc\\_default.aspx](https://www.floridabuilding.org/bc/bc_default.aspx).

#### IBU

Institut Bauen und Umwelt e.V.: General Instructions for the EPDs programme of Institut Bauen und Umwelt e.V. Version 2.0., Berlin: Institut

#### GaBi

Sphera Solutions GmbH  
Gabi Software System and Database for Life Cycle Engineering 1992-2020  
Version 10.0.0.71  
University of Stuttgart  
Leinfelden-Echterdingen

#### GaBi ts documentation

GaBi life cycle inventory data documentation (<https://www.gabi-software.com/support/gabi/gabidatabase-2020-lci-documentation/>).

#### LCA-tool dormakaba

LCA-tool, EPD-DOR-202104-LT1-EN.  
Developed by Sphera Solutions GmbH

#### PCR Part A

PCR – Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Re-report according to EN 15804+A2:2019, Version 1.0, 2020, Institut Bauen und Umwelt e.V., [www.ibu-epd.com](http://www.ibu-epd.com).

#### PCR Part B

PCR – Part B: Requirements on the EPD for Building Hardware product, version 1.2, Institut Bauen und Umwelt e.V., [www.ibu-epd.com](http://www.ibu-epd.com), 2017.

#### TAA

Trade Agreements Act,  
<https://vsc.gsa.gov/administration/compDetails.cfm>.

#### UL

Underwriter Laboratories, <https://www.ul.com/>.

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