

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-20220039-CBA1-EN
Issue date	04.05.2022
Valid to	03.05.2027

Precision 2000 Series dormakaba

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






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General Information

<p>dormakaba</p> <p>Programme holder IBU – Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany</p> <hr/> <p>Declaration number EPD-DOR-20220039-CBA1-EN</p> <hr/> <p>This declaration is based on the product category rules: Building Hardware products, 11.2017 (PCR checked and approved by the SVR)</p> <hr/> <p>Issue date 04.05.2022</p> <hr/> <p>Valid to 03.05.2027</p> <hr/> <p></p> <hr/> <p>Dipl. Ing. Hans Peters (chairman of Institut Bauen und Umwelt e.V.)</p> <hr/> <p></p> <hr/> <p>Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.)</p>	<p>Precision 2000 Series</p> <p>Owner of the declaration dormakaba International Holding GmbH DORMA Platz 1 58256 Ennepetal Germany</p> <hr/> <p>Declared product / declared unit 1 exit device (1 piece) of the Precision 2000 Series.</p> <hr/> <p>Scope: This Environmental Product Declaration refers to a specific exit device manufactured by dormakaba. The production site is located in Indianapolis (USA).</p> <p>The data represents the year 2020.</p> <p>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.</p> <p>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>.</p> <hr/> <p>Verification</p> <table border="1"> <tr> <td colspan="2">The standard <i>EN 15804</i> serves as the core PCR</td> </tr> <tr> <td colspan="2">Independent verification of the declaration and data according to <i>ISO 14025:2010</i></td> </tr> <tr> <td><input type="checkbox"/> internally</td> <td><input checked="" type="checkbox"/> externally</td> </tr> </table> <hr/> <p></p> <hr/> <p>Dr.-Ing. Wolfram Trinius (Independent verifier)</p>	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
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<input type="checkbox"/> internally	<input checked="" type="checkbox"/> externally						

Product

Product description/Product definition

No other exit device offers the level of functionality and dependability as this Grade 1, heavy-duty exit device. Built with fewer components and in various door configurations, the Precision 2000 provides smoother operation with minimal need for maintenance. The Precision 2000's durable construction allows it to withstand high traffic and high use on a regular basis, making it particularly attractive for healthcare and education buildings. These combined benefits give it a longer life span and a lower overall cost of ownership.

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 A156.3 Grade 1*
- *ANSI A117.1 Accessibility Code (ADA)* compliant
- *UL/cUL* listed
- *Florida Building Code* compliant for hurricanes
- *Miami-Dade County* compliant for hurricanes

- *California State Fire Marshal (California Title 24)* compliant
- *California State Fire Marshal* compliant for fire door
- *BAA and TAA* compliant
- *Illinois Accessibility Standard* compliant

Application

The Precision 2000 Series can be used for following building types:

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

Technical Data

The exit device has following technical properties:

PRECISION APEX 2000 Specifications		
Certifications	BHMA A156.3 Grade 1 Listed	California State Fire Marshal compliant for fire door
	ANSI A117.1 Accessibility Code (ADA) compliant	BAA and TAA compliant
	ULUL 10C 3-hour Fire Listed	Illinois Accessibility Standard compliant
	ULUL 305 Listed	ML-STD 810G sections 509.6
Materials	ULUL Building Code compliant for hurricanes	Salt Spray 521.3
	Miami-Dade County compliant for hurricanes	King and Freezing Rain, 510.6
	California State Fire Marshal (California Title 24) compliant	Blowing Dust Test
	Exit device body: heavy-duty solid brass, bronze, aluminum and stainless steel	
	Chassis: investment cast steel, zinc dichromated	
Door Dimensions	Thickness: 1 3/4" – 2 1/8" standard	
	Height: 6'8" – 10' (SVR)	
Strikes	Width: 2" – 4" (application dependent)	
	S300: investment cast stainless steel, black powder coated	
Device Types	S988: optional strike for use on aluminum door applications	
	S458: optional strike for use on mullion applications	
	Wide Rim	Surface Vertical Rod
Electrified Options	Narrow Rim	Wood Door Concealed Vertical Rod
	Concealed Vertical Rod	Mortise
	Narrow Style Concealed Vertical Rod	
	C: Pre-Terminated Quick Connect Plug	TS: Touchbar Monitoring Switch
DE: Delayed Egress	WTS: Weatherized Touchbar Switch	
E: Electric Lock/Unlock	ALK: Battery Powered Alarm	
ELR: Electric Latch Retraction	ADW: Hardwired Alarm	
MLR: Motorized Latch Retraction	DS: Door Position Switch	
LS: Latchbolt Monitoring Switch	WAW: Weatherized Alarm	
Q: Wireless Access Management System		
Trim and Lever Styles	Vandal Resistant Lever-no lever reset required	
	Knob Trims	
	Pull Trims	
Finishes	A, B, C or D lever styles, standard	
	20 available decorative lever styles	
	605: Polished Brass, Clear Coated	626W: Satin Chrome, Weatherized
	606: Satin Brass, Clear Coated	628: Satin Aluminum, Clear Anodized
	612: Satin Bronze, Clear Coated	630: Satin Stainless Steel
	613: Dark Oxidized Satin Bronze	690: Dark Bronze
622: Powder Coated Black	UltraShield™ antimicrobial coating available except 622 and 690 finishes.	
625: Polished Chromium Plated		
Warranties	5-year mechanical	1-year electrical

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

Name	Value	Unit
Stainless steel	43	%
Steel	30	%
Brass	14	%
Paper	6	%
Electronics	5	%
Zinc	2	%
Other	<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 Precision 2000 Series exit device depends on the traffic pattern and degree of usage of the door. These exits are rated to *ANSI Grade 1*, meaning they are designed to withstand a minimum of 500,000 cycles. However, these exits have been independently tested to surpass 10,000,000 cycles.

LCA: Calculation rules

Declared Unit

The declared unit is 1 piece of the product: Precision 2000 Series.

Declared unit

Name	Value	Unit
Declared unit	1	piece/product
Mass of declared Product	12.04	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 product	0.01	kg C
Biogenic Carbon Content in accompanying packaging	0.09	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)	4300	km
Capacity utilisation (including empty runs) average	55	%
Transport distance (ship)	27000	km

Installation into the building (A5)

Name	Value	Unit
Output substances following waste treatment on site (packaging)	0.69	kg

Operational energy use (B6)

Name	Value	Unit
Electricity consumption for 1 year	62,41	kWh
Power consumption "on mode"	570	W
Hours per day in use "on mode"	0,3	h
Power consumption "standby mode"	0	W
Hours per day in use "standby mode"	23,7	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	11.3	kg
Recycling	10.7	kg
Energy recovery	0.012	kg
Final deposition	0,609	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 exit device

Core Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
GWP-total	[kg CO ₂ -Eq.]	5.15E+1	1.97E+0	9.89E-1	1.75E+2	0.00E+0	4.90E-2	3.20E-2	9.00E-3	-2.77E+1
GWP-fossil	[kg CO ₂ -Eq.]	5.25E+1	1.90E+0	2.50E-2	1.75E+2	0.00E+0	4.70E-2	3.20E-2	9.00E-3	-2.78E+1
GWP-biogenic	[kg CO ₂ -Eq.]	-1.03E+0	7.00E-2	9.64E-1	3.80E-2	0.00E+0	2.00E-3	7.39E-7	3.16E-5	1.09E-1
GWP-luluc	[kg CO ₂ -Eq.]	7.61E-2	4.40E-5	1.63E-5	5.30E-2	0.00E+0	1.12E-6	1.79E-6	2.66E-5	-4.60E-2
ODP	[kg CFC11-Eq.]	2.29E-11	1.97E-16	1.78E-16	6.17E-13	0.00E+0	4.98E-18	1.60E-17	3.42E-17	-3.41E-13
AP	[mol H ⁺ -Eq.]	2.83E-1	1.60E-2	2.77E-4	2.84E-1	0.00E+0	4.73E-5	5.65E-6	6.62E-5	-1.14E-1
EP-freshwater	[kg PO ₄ -Eq.]	8.49E-5	4.12E-7	3.49E-8	9.57E-5	0.00E+0	1.01E-8	2.55E-9	1.59E-8	-2.43E-5
EP-marine	[kg N-Eq.]	4.50E-2	4.00E-3	1.00E-4	6.10E-2	0.00E+0	1.50E-5	1.27E-6	1.71E-5	-1.80E-2
EP-terrestrial	[mol N-Eq.]	4.79E-1	4.70E-2	1.00E-3	6.52E-1	0.00E+0	1.67E-4	2.57E-5	1.87E-4	-1.96E-1
POCP	[kg NMVOC-Eq.]	1.33E-1	1.20E-2	2.65E-4	1.73E-1	0.00E+0	4.25E-5	3.52E-6	5.16E-5	-5.60E-2
ADPE	[kg Sb-Eq.]	3.13E-3	5.54E-8	2.82E-9	3.49E-5	0.00E+0	1.42E-9	2.19E-10	8.29E-10	-8.62E-4
ADPF	[MJ]	6.58E+2	2.62E+1	3.12E-1	2.84E+3	0.00E+0	6.70E-1	1.50E-2	1.21E-1	-3.25E+2
WDP	[m ³ world-Eq deprived]	1.51E+1	4.00E-3	1.23E-1	3.39E+1	0.00E+0	9.25E-5	3.00E-3	9.68E-4	-9.89E+0

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 exit device

Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
PERE	[MJ]	1.36E+2	8.30E-2	8.43E+0	4.49E+2	0.00E+0	2.00E-3	3.60E-1	1.60E-2	-5.92E+1
PERM	[MJ]	8.73E+0	0.00E+0	-8.37E+0	0.00E+0	0.00E+0	0.00E+0	-3.56E-1	0.00E+0	0.00E+0
PERT	[MJ]	1.45E+2	8.30E-2	5.70E-2	4.49E+2	0.00E+0	2.00E-3	4.00E-3	1.60E-2	-5.92E+1
PENRE	[MJ]	6.59E+2	2.62E+1	3.12E-1	2.84E+3	0.00E+0	6.70E-1	3.70E-1	1.21E-1	-3.26E+2
PENRM	[MJ]	3.55E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-3.55E-1	0.00E+0	0.00E+0
PENRT	[MJ]	6.59E+2	2.62E+1	3.12E-1	2.84E+3	0.00E+0	6.70E-1	1.50E-2	1.21E-1	-3.26E+2
SM	[kg]	5.53E+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
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 ³]	5.46E-1	1.50E-4	3.00E-3	1.04E+0	0.00E+0	3.79E-6	7.76E-5	3.06E-5	-3.84E-1

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 exit device

Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
HWD	[kg]	3.04E-6	2.55E-9	4.60E-10	1.09E-6	0.00E+0	6.50E-11	5.61E-11	1.85E-9	-4.77E-6
NHWD	[kg]	4.09E+0	3.00E-3	3.10E-2	8.81E-1	0.00E+0	6.85E-5	3.00E-3	6.09E-1	-1.84E+0
RWD	[kg]	1.31E-2	2.83E-5	1.64E-5	2.53E-1	0.00E+0	7.19E-7	5.46E-7	1.38E-6	-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	1.07E+1	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	1.50E+0	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	2.71E+0	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 exit device**

Indicator	Unit	A1-A3	A4	A5	B6	C1	C2	C3	C4	D
PM	[Disease Incidence]	4.31E-6	2.56E-7	1.53E-9	2.54E-6	0.00E+0	2.48E-10	7.21E-11	8.20E-10	-2.25E-6
IRP	[kBq U235-Eq.]	1.49E+0	4.00E-3	3.00E-3	2.09E+1	0.00E+0	1.03E-4	4.92E-5	1.42E-4	-2.10E-1
ETP-fw	[CTUe]	3.35E+2	1.85E+1	1.48E-1	8.46E+2	0.00E+0	4.75E-1	6.00E-3	6.90E-2	-1.52E+2
HTP-c	[CTUh]	7.39E-6	3.49E-10	7.84E-12	1.82E-8	0.00E+0	8.93E-12	4.78E-13	1.03E-11	-4.39E-8
HTP-nc	[CTUh]	1.00E-6	1.52E-8	3.40E-10	6.88E-7	0.00E+0	3.82E-10	4.84E-11	1.13E-9	2.05E-7
SQP	[-]	2.48E+2	6.80E-2	8.30E-2	2.59E+2	0.00E+0	2.00E-3	4.00E-3	2.50E-2	-4.01E+1
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 experienced with the indicator.

References

ANSI/BHMA A156.3

ANSI/BHMA A156.3-2014; AMERICAN NATIONAL STANDARD FOR EXIT DEVICES.

ANSI A117.1

ANSI A117.1-2017: Accessible and Usable Buildings.

EN 15804

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

REACH

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Regulation (EC) No 1907/2006.

Further References

BAA

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

California State Fire Marshal

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

Florida Building Code

<https://floridabuilding.org/c/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 Bauen und Umwelt e.V., 2021. www.ibu-epd.com.

Illinois Accessibility Code

<https://www2.illinois.gov/cdb/business/codes/IllinoisAccessibilityCode/Pages/default.aspx>.

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, IBU-DOR-202104-LT1-EN.
Developed by Sphera Solutions GmbH

Miami-Dade County Code

<https://www.miamidade.gov/cob/ordinances-enacted-by-bcc.asp>.

PCR Part A

PCR – Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN 15804+A2:2019, Version 1.0, 2020, Institut Bauen und Umwelt e.V., 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, 2017.

TAA

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

UL

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

ULC

Underwriters Laboratories of Canada,
<https://canada.ul.com/>.

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