

# ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	dormakaba International Holding GmbH
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-DOR-20220205-CBA5-EN
Issue date	18.10.2022
Valid to	17.10.2027

## Charon 20 - Half Height Swing Doors dormakaba

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## General Information

### dormakaba

#### Programme holder

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

#### Declaration number

EPD-DOR-20220205-CBA5-EN

#### This declaration is based on the product category rules:

Electronic and physical Access Control Systems, 01.08.2021  
(PCR checked and approved by the SVR)

#### Issue date

18.10.2022

#### Valid to

17.10.2027



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



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

### Charon 20 - Half Height Swing Doors

#### Owner of the declaration

dormakaba International Holding GmbH  
DORMA Platz 1  
58256 Ennepetal  
Germany

#### Declared product / declared unit

1 dormakaba Charon 20 - Half Height Swing Door, consisting of the following items:- control system Charon 20

- power supply unit
- power supply accessories
- profile
- profile covers
- engine
- door leaf ESG
- product packaging

#### Scope:

This EPD is a specific product decalaration for the Charon 20 - Half Height Swing Door.

The underlying life cycle assessment is based on the entire life cycle of this specific Charon 20 swing door.

The products are manufactured at the dormakaba production facility in Bühl (Germany).

Green electricity is being used at this production site.

Data represents the year 2022.

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	
<input type="checkbox"/>	internally
<input checked="" type="checkbox"/>	externally



Dr.-Ing. Wolfram Trinius,  
(Independent verifier)

## Product

### Product description/Product definition

#### Charon 20 - Half Height Swing Doors

Opening on demand with the Charon 20 swing door. The Charon swing door can be installed directly on the housing of the Argus sensor barrier. It provides extended passage width with a clear opening of up to 900 mm to accommodate wheelchairs or material trolleys.

The shape, surface and colour of the Charon 20 swing door precisely matches that of the sensor barrier to which it is bolted.

This solution enables a visually appealing and easy-to-implement opening, as electrical components are integrated into the housing of the Argus sensor barrier and the cables are routed through it. No additional cable bores and cable routing are therefore required in the installation area. For the placing on the market in the European Union/European Free Trade Association (EU/EFTA) (with the exception of Switzerland) the following legal provisions apply:

- Machinery Directive 2006/42/EC
- 2014/30/EU Electromagnetic Compatibility Directive
- 2011/65/EU RoHS3 Directive
- DIN EN ISO 12100:2011-03 Safety of machinery
- DIN EN 16005: 2013-01 and Amendment 2015-10 Power operated pedestrian doorsets
- DIN EN ISO 13849- 1:2016-06 Safety of machinery
- DIN EN ISO 13849- 2:2013-02 Safety of machinery
- DIN EN 60335-2-103: 2016-05 Household and similar electrical appliances
- DIN EN 61000-3-2:2015-03 Electromagnetic compatibility (EMC)
- DIN EN 61000-6-2: 2005 and Amendment:2011 Electromagnetic Compatibility (EMC)
- DIN EN 61000-6-3:2007 and A1:2011 Electromagnetic Compatibility (EMC)

The CE-marking takes into account the proof of conformity with the respective harmonized standards based on the legal provisions above.

For the application and use the respective national provisions apply.

### Application

Charon 20 - Half Height Swing Doors can be used for convenient entry into:

- Office and administrative buildings
- Ministries and government buildings
- Banks and financial institutions
- Industrial buildings
- Schools and universities

### Technical Data

The technical specifications of the products within the scope of the EPD shall be listed, including the reference to the test methods/test standards for each specification.

For products with CE marking, the technical specifications must be specified in accordance with information in the declaration of performance. The properties relevant to the product should be specified in the table below. If no information is given for properties, an explanation must be given in the background report to the EPD as to why the property is not relevant to the product.

Please provide a general indication of the area of use of the device (indoor or outdoor).

### Dimensions of Charon 20 - Half Height Swing Doors

Name	Value	Unit
Power supply max.	240	V
Drive unit Diameter	75	mm
Upper edge of the drive unit Dimension	850	mm
Door leaf radius Dimension	900	mm
Upper edge of the door leaf Dimension	990	mm

### The Charon 20 - Half Height Swing Door includes the following components:

- control unit
- power back
- cover profile
- glass door leaves ESG
- drive unit

The total weight of all components is 26,10 kg including packaging 32,31 kg.

Product not harmonised in accordance with the CPR but in accordance with other provisions for harmonisation of the EU:

- Machinery Directive 2006/42/EC
- 2014/30/EU Electromagnetic Compatibility Directive
- 2011/65/EU ROHS2 Directive
- DIN EN ISO 12100:2011-03 Safety of machinery
- DIN EN 16005: 2013-01 and Amendment 2015-10 Power operated pedestrian doorsets
- DIN EN ISO 13849- 1:2016-06 Safety of machinery
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- DIN EN 60335-2-103: 2016-05 Household and similar electrical appliances
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- DIN EN 61000-6-2: 2005 and Amendment:2011 Electromagnetic Compatibility (EMC)
- DIN EN 61000-6-3:2007 and A1:2011 Electromagnetic Compatibility (EMC)

### Base materials/Ancillary materials

For the main Charon 20 swing door product components the composition is the following.

The composition is listed in the following table:

Material	Value	Unit
Glass	52,62	%
Aluminium	11,34	%
Steel	0,33	%
Stainless steel	2,63	%
Plastic	5,69	%
Electronic components	8,17	%
Paper	19,22	%

The product contains partial articles which contain substances listed in the *Candidate List of REACH* Regulation 1907/2006/EC (date: 10.06.2022) 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 0,35 % (by mass).

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

## LCA: Calculation rules

### Declared Unit

The declared unit is 1 piece of product: 26.10 kg

Name	Value	Unit
Declared unit	1	pce.
Mass (total system excluding packaging)	26.1	kg

### System boundary

Type of EPD:

cradle to gate with options, modules C1–C4, and module D (A1–A3 + C + D and additional modules: A4 + A5 + B6)

### 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.

### Reference service life

The life cycle of an Charon 20 - Half Height Swing Door is about 15 years, depending on the application and frequency of use. The Charon 20 swing door is tested according to EN 16005.

### Use stage - Module B6

The use stage related to the operation of the building includes:  
— B6, operational energy use

### 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.
- D, (Benefits and loads beyond the system boundary) includes: recycling potentials, expressed as net impacts and benefits.

### Geographic Representativeness

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

### 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.

## LCA: Scenarios and additional technical information

### Characteristic product properties of biogenic carbon

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

Name	Value	Unit
Biogenic carbon content in accompanying packaging	2.29	kg C

The following technical scenario information is required for the declared modules

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

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

### Reference service life

Name	Value	Unit
Life Span according to the manufacturer	15	a

### Operational energy use (B6)

The use stage is declared for 15 years

Name	Value	Unit
Days per year in use	365	days
On mode per day	1	hours
Idle mode per day	23	hours
On mode power	20	W
Idle mode power	3	W
Electricity consumption (per 1 year)	32,485	kWh

### End of life (C1-C4)

Name	Value	Unit
Collected separately waste type	26.1	kg
Recycling	1.8	kg
Energy recovery	0.838	kg
Landfilling	23.5	kg
Transport to waste management	50	km

The product is disassembled in a recycling process. Material recycling is then assumed for the metals and electronics. The plastic components are assumed to be incinerated with energy recovery. Glass and electro mechanics (e.g. cable, connector) are landfilled.

Region for the End of Life is: Global.

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

Collection rate is 100%.

## 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	X	MNR	MNR	MNR	X	MND	X	X	X	X	X

### RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 piece Charon 20 Half-Height Swing Door

Parameter	Unit	A1-A3	A4	A5	B2	B6	C1	C2	C3	C4	D
GWP-total	kg CO <sub>2</sub> eq	8.8E+01	2.83E-01	8.81E+00	0	1.97E+02	0	1.28E-01	2.13E+00	4.84E-09	-3.09E+01
GWP-fossil	kg CO <sub>2</sub> eq	9.76E+01	2.7E-01	2.21E-01	0	1.96E+02	0	1.23E-01	2.13E+00	3E-03	-3.08E+01
GWP-biogenic	kg CO <sub>2</sub> eq	-9.63E+00	1.2E-02	8.58E+00	0	6.54E-01	0	6E-03	4.96E-05	3.71E-01	-6.2E-02
GWP-luluc	kg CO <sub>2</sub> eq	8.41E-02	6.43E-06	1.45E-04	0	2.84E-01	0	2.92E-06	1.2E-04	3.21E-11	-1.4E-02
ODP	kg CFC11 eq	1.78E-09	2.85E-17	1.59E-15	0	4.32E-12	0	1.29E-17	1.07E-15	3.25E-09	-1.81E-10
AP	mol H <sup>+</sup> eq	6.11E-01	2.7E-04	2E-03	0	4.33E-01	0	1.23E-04	3.79E-04	2.96E-01	-1.33E-01
EP-freshwater	kg P eq	3.27E-04	5.78E-08	3.1E-07	0	5.24E-04	0	2.62E-08	1.71E-07	6.11E-07	-1.94E-05
EP-marine	kg N eq	1.01E-01	8.6E-05	8.9E-04	0	9.6E-02	0	3.9E-05	8.55E-05	6.57E-04	-1.7E-02
EP-terrestrial	mol N eq	1.11E+00	9.56E-04	1.1E-02	0	1.01E+00	0	4.34E-04	2E-03	7E-03	-1.82E-01
POCP	kg NMVOC eq	2.67E-01	2.43E-04	2E-03	0	2.64E-01	0	1.1E-04	2.37E-04	2E-03	-5.2E-02
ADPE	kg Sb eq	5.01E-03	8.1E-09	2.51E-08	0	5.68E-05	0	3.67E-09	1.47E-08	3.2E-08	-7.41E-04
ADPF	MJ	1.25E+03	3.83E+00	2.78E+00	0	3.45E+03	0	1.74E+00	9.87E-01	4.67E+00	-4.44E+02
WDP	m <sup>3</sup> world eq deprived	1.8E+01	5.29E-04	1.09E+00	0	4.28E+01	0	2.4E-04	2.18E-01	3.7E-02	-3.11E+00

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 piece Charon 20 Half-Height Swing Door

Parameter	Unit	A1-A3	A4	A5	B2	B6	C1	C2	C3	C4	D
PERE	MJ	6.39E+02	1.2E-02	7.5E+01	0	1.53E+03	0	5E-03	2.57E-01	6.12E-01	-1.8E+02
PERM	MJ	7.45E+01	0	-7.45E+01	0	0	0	0	0	0	0
PERT	MJ	7.14E+02	1.2E-02	5.05E-01	0	1.53E+03	0	5E-03	2.57E-01	6.12E-01	-1.8E+02
PENRE	MJ	1.22E+03	3.83E+00	2.78E+00	0	3.45E+03	0	1.74E+00	3.06E+01	4.67E+00	-4.44E+02
PENRM	MJ	2.96E+01	0	0	0	0	0	0	-2.96E+01	0	0
PENRT	MJ	1.25E+03	3.83E+00	2.78E+00	0	3.45E+03	0	1.74E+00	9.88E-01	4.67E+00	-4.44E+02
SM	kg	4.52E+00	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0
FW	m <sup>3</sup>	8.65E-01	2.17E-05	2.6E-02	0	1.77E+00	0	9.83E-06	5E-03	1E-03	-3.51E-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 piece Charon 20 Half-Height Swing Door

Parameter	Unit	A1-A3	A4	A5	B2	B6	C1	C2	C3	C4	D
HWD	kg	1.76E-05	3.72E-10	4.1E-09	0	1.43E-06	0	1.69E-10	3.76E-09	7.12E-08	-1.83E-07
NHWD	kg	1.5E+01	3.92E-04	2.76E-01	0	2.45E+00	0	1.78E-04	2.21E-01	2.35E+01	-6.64E+00
RWD	kg	5.2E-02	4.12E-06	1.46E-04	0	5.23E-01	0	1.87E-06	3.66E-05	5.32E-05	-4.2E-02
CRU	kg	0	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	5.01E+00	0	0
MER	kg	0	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	1.33E+01	0	0	0	0	0	0	0

EET	MJ	0	0	2.42E+01	0	0	0	0	0	0	0
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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 piece Charon 20 Half-Height Swing Door

Parameter	Unit	A1-A3	A4	A5	B2	B6	C1	C2	C3	C4	D
PM	Disease incidence	5.48E-06	1.42E-09	1.37E-08	0	3.63E-06	0	6.45E-10	4.84E-09	3.16E-08	-1.97E-06
IR	kBq U235 eq	8.76E+00	5.88E-04	2.3E-02	0	8.59E+01	0	2.67E-04	3E-03	5E-03	-8.31E+00
ETP-fw	CTUe	9.52E+02	2.72E+00	1.32E+00	0	1.48E+03	0	1.23E+00	3.71E-01	2.67E+00	-1.65E+02
HTP-c	CTUh	1.28E-06	5.11E-11	6.98E-11	0	4.08E-08	0	2.32E-11	3.21E-11	3.95E-10	-1.48E-08
HTP-nc	CTUh	3.72E-06	2.18E-09	3.02E-09	0	1.5E-06	0	9.91E-10	3.25E-09	4.36E-08	-2.26E-07
SQP	SQP	1.46E+03	1E-02	7.37E-01	0	1.1E+03	0	4E-03	2.96E-01	9.73E-01	-2.86E+01

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.

## References

### Standards

#### 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.

#### ISO 14025

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

### Further References

#### 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](http://www.ibu-epd.com)

#### Machinery Directive 2006/42/EC

DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery, and amending Directive 95/16/EC

#### Electromagnetic Compatibility Directive 2014/30/EU

DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility

#### DIN EN ISO 12100

DIN EN ISO 12100:2011-03 Safety of machinery

#### DIN EN ISO 13849- 1

DIN EN ISO 13849- 1:2016-06 Safety of machinery

#### DIN EN ISO 13849- 2

DIN EN ISO 13849- 2:2013-02 Safety of machinery

#### ISO 14025

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

#### EN 15804

EN 15804+A2: 2019+AC:2021, Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

#### DIN EN 16005

DIN EN 16005:

2013-01 and Amendment 2015-10 Power operated pedestrian doorsets

#### DIN EN 60335-2

DIN EN 60335-2-103: 2016-05 Household and similar electrical appliances

#### DIN EN 61000-3-2

DIN EN 61000-3-2:2015-03 Electromagnetic compatibility (EMC)

#### DIN EN 61000-6-2

DIN EN 61000-6-2: 2005 and Amendment:2011 Electromagnetic Compatibility (EMC)

#### DIN EN 61000-6-3

DIN EN 61000-6-3:2007 and A1:2011 Electromagnetic Compatibility (EMC)

#### REACH

Regulation (EC) No 1907/2006 of the European Parliament and



of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

#### **ISO 9001**

ISO 9001:2015-09 Quality management systems - Requirements

#### **European Waste Catalogue (EWC)**

COMMISSION DECISION of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council

#### **Further References**

##### **GaBi ts software**

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.gabisoftware.com/support/gabi/gabidatabase\[1\]2020-lci-documentation/](https://www.gabisoftware.com/support/gabi/gabidatabase[1]2020-lci-documentation/)).

##### **LCA-tool dormakaba**

LCA tool, ESC (Entrance System Control)  
Tool No.: IBU-DOR-202109-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-port according to EN 15804+A2:2019, Version 1.0, Institut Bauen und Umwelt e.V., [www.ibu-epd.com](http://www.ibu-epd.com), 2020.

##### **PCR Part B**

PCR – Part B:  
Requirements on the EPD for electronic and physical Access Control Systems, version 1.2, Institut Bauen und Umwelt e.V., [www.ibu-epd.com](http://www.ibu-epd.com), 2019.





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