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-20260273-CBA1-EN
Issue date	12.05.2026
Valid to	11.05.2031

Room Partition System ALT 2.0 45

dormakaba

Institut Bauen und Umwelt e.V.

ECO PLATFORM EPD VERIFIED

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General Information

dormakaba

Programme holder

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

Declaration number

EPD-DOR-20260273-CBA1-EN

This declaration is based on the product category rules:

Room partition systems, 01.08.2021
(PCR checked and approved by the SVR)

Issue date

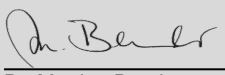
12.05.2026

Valid to

11.05.2031



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



Dr. Martina Bender
(Managing Director Institut Bauen und Umwelt e.V.)

Room Partition System ALT 2.0 45

Owner of the declaration

dormakaba International Holding GmbH
DORMA Platz 1
58256 Ennepetal
Germany

Declared product / declared unit

1 m^2 of the product: Room Partition System ALT 2.0 45 consisting of the following items:

- Base profile
- Seals
- Product packaging

Scope:

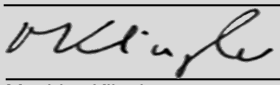
This Environmental Product Declaration refers to a specific Room Partition System ALT 2.0 45 manufactured by dormakaba. The declared unit corresponds to 1 m² of product. Each panel represents an area of 9 m². The production site is located in Chennai (India).

The data represents the year 2025.
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



Matthias Klingler,
(Independent verifier)

Product

Product description/Product definition

The ALTERRA 2.0 profile system is a partition solution designed for interior applications in new and existing buildings. The system supports retrofit installations with minimal structural modification and provides a profile framework for glazed partition elements with configurable door options, including double-glazed doors. Integrated sealing profiles support acoustic performance. The system is compatible with dormakaba hardware, including pivot, sliding, and access control solutions. It is designed to support barrier-free access and flexible interior layouts.

For the use and application of the product the respective national provisions at the place of use apply:

- *EN 1991-1-1*
- *BS 5234-2*
- *DIN EN ISO 10140*

Application

Areas of application include:

- Offices
- Hotels
- Conference centers
- Banks
- Schools
- Religious institutions
- Ateliers
- Gyms

Technical Data

The Room Partition System ALT 2.0 45 has following technical properties:

Name	Value	Unit
Total System measurements (height)	3	m
Intermediate fixed panel (width)	0.5 - 1.2	m
Frame width (up to)	3	m
Airborne sound reduction	31	dB

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 composition including the packaging of the product is listed below:

Name	Value	Unit
Aluminium	65	%
Wood	22	%
Paper	6	%
Plastics	5	%
Steel	2	%

The product includes partial articles which contain substances listed in the Candidate List of REACH Regulation *1907/2006/EC* (date: 04.02.2026) 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 3.3% (by mass).

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

Manufacture

The manufacturing process consists of extrusion, cutting to length, surface finishing, final inspection and packing. The heated billets are extruded through a die to form the specified profile shape. Following extrusion, once straightened, the profiles are cut to the required lengths as per specification. Surface finishing operations, including mill finish, anodizing, or powder coating, may be applied depending on product requirements. The finished profiles are then inspected for dimensional accuracy and surface quality before packing for safe transportation and delivery. The specific manufacturing steps and processes may vary depending on the product type and configuration.

Reference service life

The reference service life of ALT 2.0 45 is about 30 years, depending on the application and frequency of use (approx. 50 closing cycles per year). For repairs and renewals, suitable spare parts are available.

LCA: Calculation rules

Declared Unit

The declared unit is 1 m^2 of the product: Room Partition System ALT 2.0 45 including packaging

Name	Value	Unit
Declared unit	1	m^2
Grammage	23.13	kg/m^2
Layer thickness	0.001	m

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. The electricity used corresponds to an average emission factor of 1.01 kg CO_2 equivalent per kWh.

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.

Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product´s lifespan: Asia and the Pacific

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, CUP 2024.2.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	2.67	kg C

Chennai, India is considered for A3.

Note: 1 kg of biogenic carbon is equivalent to 44/12 kg of CO_2.

Transport to the building site (A4)

Name	Value	Unit
Litres of fuel	0.0276	l/100km
Transport distance	100	km
Capacity utilisation (including empty runs)	55	%

The product is transported via truck. The main distribution region is Asia. In order to allow scaling to a specific point of installation 100 km are declared.

Installation into the building (A5)

Name	Value	Unit
Waste packaging (paper)	1.5	kg per m²
Waste packaging (wood)	5.0	kg per m²

Reference service life

Name	Value	Unit
Reference service life	30	a

End of life (C1-C4)

C1: The product dismantling from the building is done manually without environmental burden.
C2: Transport to waste management is 50 km.

Name	Value	Unit
Collected separately waste type	16.6	kg
Recycling	15.5	kg
Energy recovery	1.16	kg

The product is disassembled in a recycling process. Material recycling is then assumed for the metals. The plastic components are assumed to be incinerated with energy recovery. Region for the End of Life is: Global

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

Name	Value	Unit
Recycling	100	%

The 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	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m² Room Partition System ALT 2.0 45

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO_2 eq	8.43E+01	2.39E-01	1.01E+01	0	8.58E-02	2.93E+00	0	-2.67E+01
GWP-fossil	kg CO_2 eq	9.42E+01	2.29E-01	1.77E-01	0	8.23E-02	2.93E+00	0	-2.66E+01
GWP-biogenic	kg CO_2 eq	-9.93E+00	9.94E-03	9.88E+00	0	3.57E-03	0	0	-8.5E-02
GWP-luluc	kg CO_2 eq	3.55E-02	8.93E-06	1.05E-04	0	3.21E-06	1.88E-04	0	-3.92E-03
ODP	kg CFC11 eq	2.62E-10	1.99E-14	1.12E-12	0	7.17E-15	1.06E-12	0	-2.2E-10
AP	mol H^+ eq	3.91E-01	2.52E-04	1.83E-03	0	9.06E-05	4.94E-04	0	-9.19E-02
EP-freshwater	kg P eq	5.32E-05	5.83E-08	2.95E-07	0	2.1E-08	2.47E-07	0	-1.74E-05
EP-marine	kg N eq	9.45E-02	9E-05	5.8E-04	0	3.23E-05	1.09E-04	0	-1.26E-02
EP-terrestrial	mol N eq	1.03E+00	1.02E-03	7.91E-03	0	3.67E-04	2.29E-03	0	-1.37E-01
POCP	kg NMVOC eq	2.82E-01	2.64E-04	1.58E-03	0	9.48E-05	3.05E-04	0	-3.95E-02
ADPE	kg Sb eq	3.61E-05	5.93E-09	1.19E-08	0	2.13E-09	9.61E-09	0	-1.31E-05
ADPF	MJ	1.07E+03	3.19E+00	2.47E+00	0	1.15E+00	1.45E+00	0	-3.96E+02
WDP	m^3 world eq deprived	1.12E+01	4.59E-04	1.09E+00	0	1.65E-04	2.74E-01	0	-1.45E+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 m² Room Partition System ALT 2.0 45

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	2.19E+02	1.54E-02	8.37E+01	0	5.52E-03	5.23E-01	0	-1.81E+02
PERM	MJ	8.3E+01	0	-8.3E+01	0	0	0	0	0
PERT	MJ	3.02E+02	1.54E-02	6.95E-01	0	5.52E-03	5.23E-01	0	-1.81E+02
PENRE	MJ	1.03E+03	3.19E+00	2.47E+00	0	1.15E+00	4.32E+01	0	-3.96E+02
PENRM	MJ	4.18E+01	0	0	0	0	-4.18E+01	0	0
PENRT	MJ	1.07E+03	3.19E+00	2.47E+00	0	1.15E+00	1.45E+00	0	-3.96E+02
SM	kg	1.15E+01	0	0	0	0	0	0	4.04E+00
RSF	MJ	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0
FW	m^3	3.3E-01	1.87E-05	2.56E-02	0	6.73E-06	6.57E-03	0	-3.33E-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 Room Partition System ALT 2.0 45

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	5.57E-07	9.84E-11	1.45E-09	0	3.54E-11	1.18E-09	0	-2.24E-07
NHWD	kg	1.5E+01	3.05E-04	2.14E-01	0	1.1E-04	2.93E-01	0	-6.22E+00
RWD	kg	1.12E-02	3.55E-06	1.31E-04	0	1.28E-06	4.58E-05	0	-4.22E-02
CRU	kg	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	1.55E+01	0	0
MER	kg	0	0	0	0	0	0	0	0
EEE	MJ	0	0	1.36E+01	0	0	4.47E+00	0	0
EET	MJ	0	0	2.46E+01	0	0	1.04E+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 Room Partition System ALT 2.0 45

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	Disease incidence	6.68E-06	2.31E-09	1.15E-08	0	8.3E-10	5.7E-09	0	-1.45E-06
IR	kBq U235 eq	1.29E+00	4.86E-04	2.08E-02	0	1.75E-04	4.87E-03	0	-8.37E+00
ETP-fw	CTUe	8.05E+02	2.36E+00	1.07E+00	0	8.5E-01	5.56E-01	0	-8.53E+01
HTP-c	CTUh	1.73E-02	4.27E-11	8.65E-11	0	1.54E-11	4.52E-11	0	-6.92E-09
HTP-nc	CTUh	5.64E-07	1.34E-09	3.42E-09	0	4.82E-10	3.42E-09	0	-1.46E-07
SQP	SQP	1.44E+03	1.1E-02	7.79E-01	0	3.95E-03	4.78E-01	0	-2.22E+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.

This EPD was created using a software tool.

References

BBSR
Nutzungsdauern von Bauteilen für Lebenszyklusanalysen nach Bewertungssystem Nachhaltiges Bauen (BNB), 24.02.2017, www.nachhaltigesbauen.de.

BS 5234-2:1992
Specification for performance requirements for strength and robustness of Partitions.

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Windows and doors - Resistance to repeated opening and closing - Test method.

EN ISO 10140
DIN EN ISO 10140-1:2021-09, Acoustics - Laboratory measurement of sound insulation of building elements - Part 1: Application rules for specific products (ISO 10140-1:2021); German version EN ISO 10140-1:2021.

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 2022
General Instructions for the EPD programme of Institut Bauen und Umwelt e.V. Version 2.1, Berlin: Institut Bauen und Umwelt e.V., 2022, www.ibu-epd.com.

SPHERA LCA FE
Sphera LCA for Experts, LCA FE,
Software system and databases,
Managed LCA content MLC (fka GaBi database),
University of Stuttgart and Sphera Solutions GmbH

MLC documentation
MLC life cycle inventory data documentation
https://lcadatabase.sphera.com/

LCA-tool dormakaba
Tool No.: IBU-DOR-202508-LT2-EN
Developed by Sphera Solutions GmbH

PCR Part A
PCR – Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN15804+A2:2019, Version 1.4, 2024, Institut Bauen und Umwelt e.V., www.ibu-epd.com.

PCR Part B
PCR – Part B: Requirements on the EPD for Room partition systems, version 08/2021, Institut Bauen und Umwelt e.V., www.ibu-epd.com.

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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