

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) |
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| Issue date | 12.05.2026 |
| Valid to | 11.05.2031 |

Room Partition System ALT 2.0 45 dormakaba

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General Information

dormakaba

Programme holder

IBU – Institut Bauen und Umwelt e.V.
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 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



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Room Partition System ALT 2.0 45

Owner of the declaration

dormakaba International Holding GmbH
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Declared product / declared unit

1 m² 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).

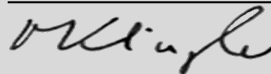
The data represents the year 2025.

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 | |
| <input type="checkbox"/> | internally |
| <input checked="" type="checkbox"/> | 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 m² 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 CO₂ 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 CO₂.

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 m ² |
| Waste packaging (wood) | 5.0 | kg per m ² |

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.
- EN 1191:2013/2002**
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 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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