Zody Task Seating



Environmental Product Declaration

EPD-S-P-12453

Date of Issue: May 20, 2024 Date of Expiration: May 19, 2029

Product Category Rule

BIFMA PCR for Seating, UNCPC 3811 EN 15804+A2:2019/AC2021 Construction Products PCR:2019:14 version 1.3.4 In accordance with ISO 14025

Program

Program: The International EPD System

www.environdec.com

Program Operator: EPD International AB



Functional Unit

1 Zody Task seat with an aluminum base, maintained for a period of 10 years produced in Europe.

This EPD was not written to support comparative assertions. EPDs based on different PCRs or different calculation models may not be comparable. When attempting to compare EPDs or life cycle impacts of products from different companies, the user should be aware of the uncertainty in the final results due to and not limited to the practitioner's assumptions, the source of the data used in the study and the software tool used to conduct the study.

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com.



Program Operator	The International EPD® System
riogram operator	EPD International AB www.environdec.com
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	Sweden
Manufacturer Name and Address	Haworth, Inc.
	One Haworth Center Holland, MI 49423
	sustainability@haworth.com
Declaration Number	EPD S-P-12453
Declared Product and Functional Unit	1 Zody Task seat with an aluminum base, maintained for a 10-year period
D.C. DOD IV. I N. I	produced in Europe
Reference PCR and Version Number	CEN standard EN 15804 serves as the core PCR PCR 2019:14 Construction products, version 1.3.4
	BIFMA PCR for Seating: UNCPC 3811, Version 3
Product's intended Application and Use	Commercial Furniture
Product RSL	10 years
Markets of Applicability	Europe
Date of Issue	May 20, 2024
Period of Validity	5 years from date of issue
EPD Type	Product Specific
Intended Audience	Business-to-Business, Business-to-Consumer
Range of Dataset Variability	N/A
EPD Scope	Cradle to Grave
Year of reported manufacturer primary data	2022
LCA Software and Version Number	Sphera LCA FE (GaBi) 10.7
LCI Database and Version Number	Sphera MLC (GaBi) 2023.2
LCIA Methodology and Version Number	EN 15804+A2 (EF 3.1), IPCC AR6 + TRACI 2.1
Core PCR review was conducted by:	The Technical Committee of the International EPD® System. See
	www.environdec.com for a list of members. Review chair: Claudia A. Peña,
	University of Concepción, Chile. The review panel may be contacted via the
The sub-category PCR review was conducted by:	Secretariat. www.environdec.com/contact. Thomas Gloria, PhD (chair)
The sub-category For Teview was conducted by.	Jack Geibig, P.E.
	Michael Overcash, PhD
Independent, third party verification of the declaration and	Thomas Gloria, Industrial Ecology Consultants
data, according to ISO 14040 (2006), ISO 14025 (2006),	
14025 (2006), EN 15804+A2, and BIFMA PCR for	Thomas Sprin
Seating: UNCPC 3811 V3, which serves as the core PCR. EPD verification by individual verifier	
<u> </u>	Approved by: The International EPD® System
This life cycle assessment was conducted in accordance	WAP Sustainability Consulting
with ISO 14044, EN 15804+A2, and the reference PCR by:	
Procedure for follow-up of data during EPD validity	☐ Yes
involves third-party verifier	
The FPD owner has the sole ownership, liability, and responsibility to	for the EDD

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

This study utilizes the BIFMA Seating PCR as a cPCR. This BIFMA PCR was used to meet market expectations such as Building Transparency EC3 comparisons, LEED and existing vendor procurement requirements, and product scoring programs. The EPD should not be used outside of this context.

Company Description

Haworth strives to be a sustainable corporation. We believe operating a sustainable corporation will allow us to help people do great things for generations to come. We are on a journey—one that promotes longevity and delivers value to the people, communities, and planet that we serve. At our core, we are a family—and we weather challenges together. Haworth is built upon a culture that empowers members and all stakeholders to make positive changes. We strengthen existing partnerships and build new ones, while empowering our members and leveraging our global reach, as we continue our drive toward making positive changes for the people and communities, we serve all over the world.

Product Description

A high-performing task chair, Zody blends science-based wellness and comfort with sustainability and international design. The product of extensive research and development, Zody offers asymmetrical lumbar adjustments, providing user-selected support on each side of the lower back. Designed by ITO DESIGN of Germany, in collaboration with the Haworth Design Studio, Zody is truly international, as well as versatile. Zody fits everywhere in the world and anywhere in the office, from workstations to boardrooms. Zody Task is manufactured in Queluz, Portugal, and in Cyprianow, Poland-both ISO 14001 certified manufacturing facilities. This product can be easily disassembled at the end of its useful life. Components are identified with ISO recycling symbols and material information to assist in the recycling effort, where practical. Haworth offers circular service solutions for product takeback, refurbishment, or recycling after the product's useful life.

Results were calculated for a single configuration of the seating product manufactured at two facilities. The office chair configuration reviewed (8963) consists of a mesh back, backstop forward tilt, lumbar support, 4D arms, and a powder-coated aluminum base and was determined to have the highest potential impacts of all Zody Task model configurations produced in Europe, making the results in this EPD conservative and thus representative of all products listed. Product codes within the variation allowance include those beginning with 89.

This product falls under UN CPC 3811.

The composition of the chair reviewed is provided below, with a total product weight of 20.11 kg and total packaging weight of 0.80 kg. Material composition is reported per unit of product.

Material	[kg]	[%]	Recycled Content [%]	Resource Type
Product				
Steel	7.79	39%	21%	Recycled, Virgin Non-renewable
Aluminum	5.34	27%	60%	Recycled, Virgin Non-renewable
Nylon PA6	3.03	15%	0%	Virgin Non-renewable
Polypropylene	1.33	7%	18%	Recycled, Virgin Non-renewable
Polyurethane	1.16	6%	0%	Virgin Non-renewable
Acrylonitrile Butadiene Styrene	0.53	3%	0%	Virgin Non-renewable
Polyester Fabric	0.47	2%	68%	Recycled, Virgin Non-renewable
Other	0.46	2%	0%	Virgin, Non-renewable
Packaging				
Paper	0.65	81%	0%*	Virgin, Renewable
Polyethylene	0.15	19%	0%	Virgin, Non-renewable
*Recycled content of paper and card	dboard packa	aging are aver	age values associated with bac	kground LCI datasets

Additional Environmental Information

The product under review is manufactured at zero waste-to-landfill facilities that are ISO 14001- and ISO 9001-certified. In addition, this product has the following certifications:

- GREENGUARD Gold Certified
- Fire Retardancy: Class 1 IM Certified
- GS Safety Award
- LGA Ergonomics Certified

- Quality Office Certified
- European Level 3 Certified

Functional Unit

The functional unit according to the PCR is one unit of seating to seat one individual, maintained for a 10-year period produced in Europe. The product under study has a 10-year service life under ANSI/BIFMA X5.5 and therefore does not require replacements to meet the functional unit.

LCA Stages



Materials Acquisition & Pre-Processing | Includes raw material extraction, pre-processing of materials, and transport to production.

Production | Includes component and final assembly manufacturing operations, both by Haworth and upstream suppliers, as well as intermediate transport and packaging requirements.

Distribution, Storage, and Use | Includes an average distribution to customers. No additional storage is required. There are no impacts associated with use of the product.

End-of-Life | Includes transport to and disposal of product and packaging based on average European EOL rates.

LCA Information

General principles of allocation were based on ISO 14040/44. Where possible, allocation was avoided. At the part supplier production facilities, manufacturing inputs and outputs are allocated to co-products by mass because of the use of secondary datasets and no primary data available for part suppliers. At Haworth assembly facilities, manufacturing inputs and outputs are allocated to co-products based on economic value. This choice was deemed the most appropriate at Haworth facilities due to the availability of data on economic value. As a default, Sphera Managed LCA Content datasets use a physical mass basis for allocation.

Throughout the study recycled materials were accounted for via the cut-off method. Under this method, impacts and benefits associated with the previous life of a raw material from recycled stock are excluded from the system boundary and includes the impacts associated with reprocessing and preparation of recycled materials. Additionally, impacts and benefits associated with secondary functions of materials at end of life are also excluded.

Production of capital goods, infrastructure, and personnel-related activities are excluded, as required by the BIFMA PCR for seating.

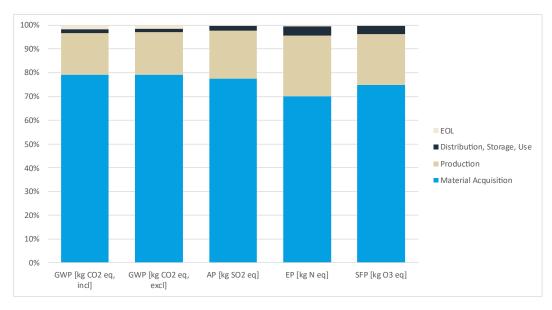
LCA Results

All results are given per functional unit, which is one unit of seating to seat one individual, maintained for a 10-year period. Results are reported separately by life cycle stage per the BIFMA PCR for seating. The results shown in the table below are a weighted average based on production volume at the two manufacturing sites under review. It is discouraged to use of results for Material Acquisition and Production without considering the results for End of Life.

Impact Category	Material Acquisition	Production w/ grid*	Production w/ renewables*	Distribution, Storage, Use	EOL	Total**
IPCC AR6 LCIA Impacts						
Global Warming Potential, incl biogenic [kg CO ₂ eq]	1.06E+02	2.35E+01	2.22E+01	2.13E+00	2.29E+00	1.34E+02
Global Warming Potential, excl biogenic [kg CO ₂ eq]	1.06E+02	2.38E+01	2.25E+01	2.13E+00	1.84E+00	1.34E+02
TRACI 2.1 LCIA Impacts (North America)						
Acidification Potential [kg SO ₂ eq]	3.60E-01	9.38E-02	9.16E-02	9.80E-03	8.68E-04	4.64E-01
Eutrophication Potential [kg N eq]	1.56E-02	5.70E-03	5.45E-03	8.69E-04	9.36E-05	2.22E-02
Ozone Depletion Potential [kg CFC 11 eq]	1.71E-12	8.11E-10	8.14E-10	5.49E-15	1.02E-14	8.13E-10
Smog Formation Potential [kg O ₃ eq]	4.73E+00	1.35E+00	1.30E+00	2.27E-01	1.21E-02	6.32E+00
Resource Use Indicators					•	
Renewable primary resources used as energy carrier [MJ]	1.18E+02	6.89E+01	9.83E+01	1.19E+00	3.18E-01	1.88E+02
Renewable primary resources with energy content used as material [MJ]	0.00E+00	9.11E+00	9.11E+00	0.00E+00	0.00E+00	9.11E+00
Renewable primary resources, total [MJ]	1.18E+02	7.80E+01	1.07E+02	1.19E+00	3.18E-01	1.97E+02
Non-renewable primary resources used as energy carrier [MJ]	1.16E+03	1.98E+02	1.76E+02	2.99E+01	2.42E+00	1.39E+03
Non-renewable primary resources with energy content used as a material [MJ]	1.97E+02	4.78E+01	4.78E+01	0.00E+00	0.00E+00	2.45E+02
Non-renewable primary resources, total [MJ]	1.36E+03	2.46E+02	2.24E+02	2.99E+01	2.42E+00	1.64E+03
Recovered energy [MJ]	0.00E+00	1.57E+01	1.57E+01	0.00E+00	1.07E+01	2.64E+01
Net fresh water usage [kg]***	1.04E+00	2.05E-01	2.19E-01	4.09E-03	5.34E-03	1.26E+00

^{*}Impacts in the "production w/ grid electricity" stage includes electricity from the grid and on-site renewables whereas "production w/ purchased renewables" also includes electricity from the grid (if any), on-site renewables (if any), and voluntary renewable electricity purchased by Haworth for production purposes.

The chart below presents the relative contribution of each life cycle stage to the TRACI 2.1 and IPCC environmental impact categories by life cycle stage per the BIFMA PCR for seating.



^{**}Includes material acquisition, production w/ grid, distribution, storage, use, and EOL.

^{***} Water usage from electricity generation is included

Additionally, results have been calculated using LCIA methodologies for core environmental impact categories specified in EN 15804+A2, as well as LCI indicators required by EN15804+A2. Results are reported per functional unit. For this product, 1 unit of product is required to meet the functional unit. The results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins, or risks. The results shown in the table below are a weighted average based on production volume at the two manufacturing sites under review. It is discouraged to use of results for A1-A3 without considering the results for C1-C4.

	Product Stage w/ grid*	Product Stage w/ renewables*	Construct	Construction Stage Use Stage					End of Life	Benefits and Loads Beyond the System Boundary						
	A1-A3	A1-A3	A4	A5	В1	В2	В3	В4	В5	В6	В7	C1	C2	сз	C4	D
GWP-GHG [kg CO2 eq.]	1.30E+02	1.28E+02	2.13E+00	6.87E-02	0	0	0	0	0	0	0	0	5.18E-02	1.67E+00	4.86E-02	-4.28E+01
Climate Change - total [kg CO2 eq.]	1.29E+02	1.28E+02	2.13E+00	5.22E-01	0	0	0	0	0	0	0	0	5.18E-02	1.67E+00	4.79E-02	-4.21E+01
Climate Change, fossil [kg CO2 eq.]	1.30E+02	1.28E+02	2.13E+00	5.61E-02	0	0	0	0	0	0	0	0	5.17E-02	1.67E+00	4.85E-02	-4.27E+01
Climate Change, biogenic [kg CO2 eq.]	-3.49E-01	-3.49E-01	1.37E-03	4.66E-01	0	0	0	0	0	0	0	0	3.34E-05	5.73E-05	-6.10E-04	5.94E-01
Climate Change, land use and land use change [kg CO2 eq.]	3.72E-02	3.71E-02	2.42E-03	7.18E-06	0	0	0	0	0	0	0	0	5.89E-05	2.78E-05	4.24E-05	-1.12E-02
Ozone depletion [kg CFC-11 eq.]	6.75E-10	7.91E-10	2.60E-13	6.81E-14	0	0	0	0	0	0	0	0	6.35E-15	3.28E-13	8.20E-14	-5.05E-11
Acidification [Mole of H+ eq.]	5.25E-01	5.23E-01	1.05E-02	1.46E-04	0	0	0	0	0	0	0	0	1.56E-04	2.08E-04	1.49E-04	-1.22E-01
Eutrophication, freshwater [kg P eq.]	1.86E-04	1.84E-04	1.04E-05	3.34E-07	0	0	0	0	0	0	0	0	2.55E-07	8.77E-08	8.08E-06	-3.20E-05
Eutrophication, marine [kg N eq.]	1.03E-01	1.02E-01	5.29E-03	5.42E-05	0	0	0	0	0	0	0	0	7.66E-05	5.66E-05	3.47E-05	-2.43E-02
Eutrophication, terrestrial [Mole of N eq.]	1.09E+00	1.08E+00	5.84E-02	6.60E-04	0	0	0	0	0	0	0	0	8.46E-04	9.56E-04	3.82E-04	-2.43E-01
Photochemical ozone formation, human health [kg NMVOC eq.]	3.17E-01	3.14E-01	1.08E-02	1.45E-04	0	0	0	0	0	0	0	0	1.52E-04	1.63E-04	1.10E-04	-7.86E-02
Resource use, mineral and metals [kg Sb eq.]**	1.08E-04	1.09E-04	1.39E-07	7.73E-10	0	0	0	0	0	0	0	0	3.40E-09	2.91E-09	1.30E-09	-6.33E-05
Resource use, fossils [MJ]**	1.84E+03	1.81E+03	2.79E+01	2.20E-01	0	0	0	0	0	0	0	0	6.79E-01	7.48E-01	7.25E-01	-7.09E+02
Water use [m³ world equiv.]**	2.73E+01	2.79E+01	1.24E-01	6.12E-02	0	0	0	0	0	0	0	0	3.02E-03	1.59E-01	-6.17E-04	-2.52E+00
Use of renewable primary energy (PERE) [MJ]	1.96E+02	2.25E+02	1.19E+00	4.33E-02	0	0	0	0	0	0	0	0	2.91E-02	1.79E-01	6.59E-02	-1.11E+02

	Product Stage w/ grid*	Product Stage w/ renewables*	Construct	tion Stage	Use Stage				Use Stage End of L			End of Life	Benefits and Loads Beyond the System Boundary			
	A1-A3	A1-A3	A4	A5	B1	В2	вз	В4	В5	В6	В7	C1	C2	С3	C4	D
Primary energy resources used as raw materials (PERM) [MJ]	9.11E+00	9.11E+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total use of renewable primary energy resources (PERT) [MJ]	2.05E+02	2.34E+02	1.19E+00	4.33E-02	0	0	0	0	0	0	0	0	2.91E-02	1.79E-01	6.59E-02	-1.11E+02
Use of non-renewable primary energy (PENRE) [MJ]	1.61E+03	1.58E+03	2.99E+01	2.22E-01	0	0	0	0	0	0	0	0	7.29E-01	7.48E-01	7.25E-01	-7.10E+02
Non-renewable primary energy resources used as raw materials (PENRM) [MJ]	2.45E+02	2.45E+02	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total use of non-renewable primary energy resources (PENRT) [MJ]	1.85E+03	1.83E+03	2.99E+01	2.22E-01	0	0	0	0	0	0	0	0	7.29E-01	7.48E-01	7.25E-01	-7.10E+02
Input of secondary material (SM) [kg]	7.32E+00	7.32E+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of renewable secondary fuels (RSF) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of non renewable secondary fuels (NRSF) [MJ]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of net fresh water (FW) [m3]	1.25E+00	1.26E+00	4.09E-03	1.44E-03	0	0	0	0	0	0	0	0	9.96E-05	3.78E-03	9.00E-06	-1.33E+00
Hazardous waste disposed (HWD) [kg]	3.07E-05	3.07E-05	8.60E-11	7.26E-12	0	0	0	0	0	0	0	0	2.10E-12	5.94E-12	6.05E-11	-8.59E-06
Non-hazardous waste disposed (NHWD) [kg]	1.30E+01	1.30E+01	2.60E-03	4.29E-02	0	0	0	0	0	0	0	0	6.35E-05	1.52E-01	7.74E-01	-2.97E+00
Radioactive waste disposed (RWD) [kg]	3.15E-02	3.02E-02	8.58E-05	8.80E-06	0	0	0	0	0	0	0	0	2.09E-06	2.68E-05	8.56E-06	-2.40E-02
High-level radioactive waste, conditioned, to final repository (HLRW) [kg]	2.91E-05	2.77E-05	1.02E-07	7.31E-09	0	0	0	0	0	0	0	0	2.48E-09	2.45E-08	7.45E-09	-1.55E-05
Intermediate- and low-level radioactive waste, conditioned, to final repository (ILLRW) [kg]	3.14E-02	3.02E-02	8.57E-05	8.80E-06	0	0	0	0	0	0	0	0	2.09E-06	2.67E-05	8.56E-06	-2.40E-02
Components for re-use (CRU) [kg]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Materials for Recycling (MFR) [kg]	2.05E+00	2.05E+00	0	4.32E-01	0	0	0	0	0	0	0	0	0	1.87E+01	0	0
Material for Energy Recovery (MER) [kg]	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Product Stage w/ grid*	Product Stage w/ renewables*	Construc	tion Stage				Us	e Sta	ge			_	End of Life	Load	enefits and s Beyond the em Boundary
	A1-A3	A1-A3	A4	A 5	В1	В2	ВЗ	В4	В5	В6	В7	C1	C2	C3	C4	D
Total recovered energy exported from the product system (EEE and EET) [MJ]	1.57E+01	1.57E+01	0	2.18E+00	0	0	0	0	0	0	0	0	0	8.49E+00	0	0
Particulate matter [Disease incidences]	1.29E-05	1.28E-05	1.05E-07	8.99E-10	0	0	0	0	0	0	0	0	1.68E-09	2.55E-09	1.48E-09	-1.07E-06
lonizing radiation, human health [kBq U235 eq.]***	4.65E+00	4.57E+00	7.24E-03	1.37E-03	0	0	0	0	0	0	0	0	1.76E-04	3.68E-03	1.26E-03	-4.49E+00
Ecotoxicity, freshwater [CTUe]**	6.15E+02	6.12E+02	2.33E+01	1.18E-01	0	0	0	0	0	0	0	0	5.69E-01	4.90E-01	5.65E-01	-2.15E+02
Human toxicity, cancer [CTUh]**	4.78E-07	4.78E-07	5.43E-10	6.10E-12	0	0	0	0	0	0	0	0	1.04E-11	2.58E-11	3.13E-11	-7.75E-09
Human toxicity, non-cancer [CTUh]**	1.33E-06	1.33E-06	8.79E-09	2.76E-10	0	0	0	0	0	0	0	0	2.12E-10	2.14E-09	2.56E-09	-2.82E-07
Land Use [Pt]**	2.38E+02	2.22E+02	5.25E+00	5.43E-02	0	0	0	0	0	0	0	0	1.28E-01	1.78E-01	6.45E-02	-1.03E+02

The life cycle modules are defined by EN 15804 as follows: Product Stage – raw material supply, transport, and manufacturing; Construction Stage – distribution and installation; Use Stage – use of installed product, maintenance, repair, replacement, refurbishment, operational energy use, and operational water use; End of Life - deconstruction, transport of waste, waste processing, and disposal; Benefits and Loads Beyond the System Boundary - credits from energy and material capture.

As required by the construction products PCR, this EPD shall declare the energy source behind electricity used in the manufacturing process in A3 and its climate impact as kg CO2 eq./kWh (using the GWP-GHG indicator).

A3 Electricity Climate Impact

Site	Energy Source	GWP-GHG	Unit
Cyprianow, Poland	National consumption mix	8.36E-01	kg CO2 eq / kWh
Queluz, Portugal	National residual mix	3.50E-01	kg CO2 eq / kWh
Queluz, Portugal	Renewable sources from supplier: hydro, solar, wind	1.45E-02	kg CO2 eq / kWh

^{*}Impacts in the "product stage w/ grid" stage include electricity from the grid whereas "product stage w/ renewables" includes voluntary renewable electricity purchased by Haworth for production.

^{**}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.

^{***}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.

Functional Unit

Parameter	Value
Declared unit	1 seat for 1 individual maintained for a 10-year period
Number of occupants	1
Reference service life required	10 years
Biogenic carbon in product	0 kg C
Biogenic carbon in packaging	1.03 kg C

A4: Transport to the building site

Parameter	Value per functional unit	Value per functional unit
Transportation type	Truck	Ship
Fuel consumption (I/km)	0.42 Diesel	130 Heavy Fuel Oil
Distance	1,269 km	0.71 km
Capacity utilization	67%	53%
Capacity utilization volume factor	=1	=1
Weight of product (kg)		20.114
Volume (m³)		0.446

A5: Installation in the building

Parameter	Value per functional unit
Packaging waste produced	0.801 kg
Installation Assumptions	No product waste, Installed with hand tools.

B2: Maintenance

DZ. Maintonai	
Parameter	Value per functional unit
Maintenance Process	No maintenance is expected for this product
Maintenance cycle	0
Ancillary Materials for maintenance (kg/cycle)	0
Waste materials resulting from maintenance (kg)	0
Net fresh water consumption during maintenance (m³)	0
Energy input during maintenance (kWh)	0

Reference service life (RSL)

Parameter	Value per functional unit					
Reference service life	10 years					
Design application parameters	Use as indicated in product brochure and warranty					
Declared product properties	Properties given in product description on page 3					
Indoor environment	Typical office and home environment					
Use conditions	Typical office and home use					

B3: Repair

Parameter	Value per functional unit
Repair process	No repairs are expected for this product
Inspection process	No repairs are expected for this product
Repair cycle (#/RSL)	0
Ancillary materials (kg)	0
Waste materials from repair (kg)	0
Net freshwater consumption during repair (m³)	0
Energy input during repair (kWh)	0

B4: Replacement

Parameter	Value per functional unit							
Replacement cycle (#/RSL)	0							
Energy input during replacemen (kWh)	t 0							
Exchange of worn parts during the products life cycle (kg)	0							

B5: Refurbishment

Parameter	Value per functional unit							
Refurbishment process	No refurbishment is expected for this product							
Refurbishment cycle (#/RSL)	0							
Energy input during refurbishment (kWh)	0							
Material input for refurbishment (kg)	0							
Waste material resulting from refurbishment (kg)	0							

B6 and B7: Use of energy and Use of Water

								
Parameter	Value per functional unit							
Ancillary materials (kg)	0							
Net freshwater consumption (m ³	0							
Power output of equipment (kW)	0							
Characteristic performance	n/a							

C1-C4: End-of-life

Parameter	Value per functional unit
Weight of product collected	20.114 kg
Weight to recycling	18.516 kg
Weight to energy recovery	0.768 kg
Weight to landfill	0.83 kg
Distance to recycling	32.2 km
Distance to energy recovery	32.2 km
Distance to landfill	32.2 km



Modules Declared and Data Variation

	Pro	oduct sta	age	Constr	ruction s stage	Use stage						End of life stage				Resource recovery stage	
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling- potential
Module	A1	A2	А3	A4	A 5	B1	B2	В3	В4	B5	В6	В7	C1	C2	СЗ	C4	D
Modules declared	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Geography	GLO	GLO	GLO	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU
Specific data used		1%	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - products		0%		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - sites		22%		-	-	-	-	-	-	=	-	-	-	-	=	-	-

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