

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021

Standing desk QBUS, 1400x800 mm



AJ Produkter

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	EPD-IES-0025208
Version date:	2025-07-29
Validity date:	2030-07-28
EPD type:	EPD of 2 products, 1400x700 mm & 1400x800mm, results based on 1400x800mm.

An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see www.environdec.com.





General information

Programme information

Programme:	The International EPD® System
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PCR: The CEN standard EN 15804 serves as the PCR. In addition, the International EPD System PCR 2019:14 Construction products, version 2.0.1 (2025-06-05), & c-PCR-021 Furniture (c-PCR to PCR 2019:14) Valid until 2030-04-07.

PCR review was conducted by the Technical Committee of the International EPD® System. See <https://environdec.com/about-us/the-international-epd-system-about-the-system> for a list of members. Review chair: Claudia A. Peña, University of Concepción, Chile. The review panel may be contacted via the Secretariat www.environdec.com/contact.

Verification: External and independent (third-party') verification of the declaration and data, according to ISO 14025:2006, via:

☒ EPD verification through an individual EPD verification

Third party verifier:

Viktor Hakkarainen, CHM-Analytics, www.CHM-analytics.com

Individual verifier approved by The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

☐ Yes ☒ No

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 characterization factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.



Company information

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Description of the organization

AJ Products is a Swedish company specializing in manufacturing and retailing workspace solutions for offices, schools, industries, and warehouses. Founded in 1975, we aim to be a leading player in our product categories.

We design work environments that promote well-being, focusing on innovation, sustainability, and self-designed products. Operating in 19 European countries, we employ about 1,100 people and run three factories. Annually, we enhance 330,000 workplaces across Europe with over 15,000 products.

Our goal is to provide high-quality, functional, and safe products that are durable and environmentally friendly. We are committed to sustainability and high standards, holding ISO 14001 and ISO 9001 certifications since 2011.

Product information

The EPD applies to AJ Produkter's QBUS standing desk. The standing desks are high adjustable and from the QBUS series. The desktop has a hard-wearing and easy to clean melamine surface. The T-frame is made of steel and operates almost silently when adjusting the height. The table has a smart anti-collision function that detects obstacles when the desk is lowered and raised and responds quickly by stopping the frame from moving. The standing desks are certified according to standard EN 527-2:2016 and EN 527-1:2011.

Table 1. Overview of product variants covered in this EPD.

Product	Product variations covered
Qbus hight adjustable desk	Widths: 700-800mm Lengths: 1400mm
	Standard size: 800m width, 1200mm length (representative product) AJ Produkter also offers a variation in 700mm width that is included in the LCA and subsequent EPD. As the results based on EN15804 mandatory results differ no more than 10%, make these two dimensions viable to include in the same EPD. The frame is available in several surface finishes, and the tabletop is offered in a broad range of colour options. All such aesthetic variations are included in this declaration. The colours do not influence the environmental results, as the weight of the surface treatment and the powder coating weight is less than 1% of the total weight.



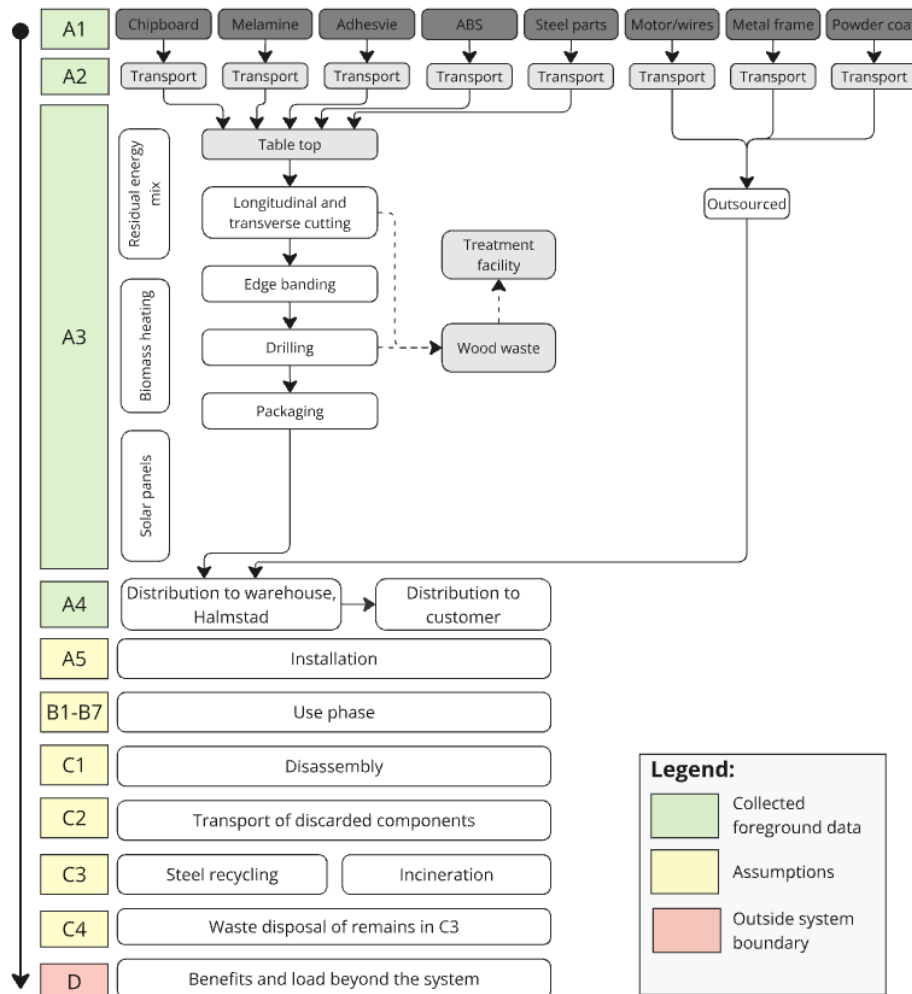
LCA information

Functional Unit	1 piece of QBUS standing desk 1400x800 mm. 1 table = 43,56 kg.
Product group classification	CPC 3814 – Other furniture (excluding those for medical, surgical, dental, or veterinary purposes)
Manufacturing location	Redzikowo, Poland
Geographical scope	Europe
Compliant with	<p>In accordance with ISO 14025, ISO 14040-14044 and GPI 5.0.1 (EPD International, 2024).</p> <p>EPD also follows International's EPD System PCR 2019:14 Construction products, version 2.0.1 (2030-04-07) and PCR 2019:14-c-NPCR-021:2024 Furniture (c-PCR to PCR 2019:14) (Adopted from EPD Norway).</p>
Estimated Service Life (ESL) and Reference Service Life (RSL)	<p>The declared Reference Service Life (RSL) for the Qbus desk is 15 years, in line with the requirements set forth in c-PCR-021 Furniture 2.0 and NPCR 026 Furniture. This lifespan is based on compliance with the EN 15372, 1729 and 16139 standards, which specifies rigorous testing protocols for safety, strength, durability, and stability of non-domestic storage furniture.</p> <p>Approved according to EN 15372, 1729 & 16139 – non-domestic furniture – Requirements for safety, strength, durability, and stability, demonstrating a lifespan that can reasonably be expected to be at least 15 years.</p>
Background data	The data quality is considered high. All site-specific data for raw materials, auxiliary materials, as well as energy use during the manufacturing process are from 2024 and have been represented using Ecoinvent datasets. All other relevant environmental aspects have been modelled with generic Ecoinvent data for the end-of-life processes. The data in Ecoinvent covers the specific geographical regions relevant to this study. Infrastructure and capital goods are not included in the system boundaries.
Cut-Off Rules	The cut-off criteria follow EN 15804+A2 and PCR 2019:14 v2.0.1. All material and energy flows expected to contribute significantly to the results are included. The following auxiliary materials have been excluded due to negligible quantities distributed over the total annual production volume: washing spray, detachable anti-adhesive fluid, cleaner, and silicone spray. These represent well below 1% of total mass and energy use and are not expected to significantly affect the results.
Allocations	Allocation has been done in this study. See allocation procedure, page 7.
Description of system boundaries	Cradle to grave and module D (A + B + C + D).
LCA accountability	Richard Eklund, AJ Produkter AB
Software and database	The database used is Ecoinvent 3.10. SimaPro Analyst ver. 10.2.
Characterization Factors (CF)	The Characterization Factors used in this report is based on Environmental Footprint (EF) 3.1.

Product Life Cycle

System diagram

System diagram and detailed life cycle stages are shown below.



Module Description

A1 – Raw Material Extraction: Extraction and production of raw materials and energy resources used in the product's manufacturing process. It also includes the environmental impact from the pre-treatment of recycled materials.

A2 – Transport: Transport of raw materials and semi-finished products from their original location to the production facility. It covers the energy use and emissions related to transportation.

A3 – Manufacturing: Energy use, waste management, and emissions occurring during the manufacturing process. Also, production of by-products and any emissions related to the manufacturing site.

A4 – Transport to customer: Impact from the transport of the finished product from the manufacturing site to the end-user. The modelling assumptions and parameters is shown below.

A5 – Assembly: The assembly process, covering energy use and waste management of potentially packaging materials during assembly or installation. The modelling assumptions and parameters is shown below.

	Module	Amount	Unit	Activity description
A4	Distribution of components to customer	1061	km	The desk is transported to a Swedish and EU customer.
A5	Installation (waste)	2.69	kg	The packaging waste from installation is assumed to be treated by municipal incineration or similar.

B1, B3, B4, B5, B7: The product's use, maintenance, repair, replacement, and operation during its lifetime. B1, B3, B4, B5, B7 does not have any activity.

B2 – Use Phase: Includes the cleaning of the table during the product's operational life.

B6 – Operational use: Includes energy use during the product's operational life.

	Module	Amount	Unit	Activity description
B2	Use phase (cleaning soluble)	3.14	ml	Cleaning soluble is assumed to be used for cleaning
B2	Use phase (tap water)	7.84	ml	Water is assumed to be used for cleaning
B6	Operational use (electricity)	48	kWh	Energy use over 15 years is 48 kWh (3.2 kWh/year), 1.45 kWh for daily use and 1.75 kWh for standby power each day.

C1 – Deconstruction/Demolition: Energy and emissions involved in dismantling the product at the end of its life.

C2 – Transport of Waste: Environmental impact from transporting the product as waste to treatment facilities.

C3 – Waste Processing: Emissions and energy use from processing waste for recycling or energy recovery.

C4 – Final Disposal: Environmental impact from disposing of non-recyclable materials, typically in landfill. The modelling assumptions and parameters for the C modules are shown below.

	Module	Amount	Unit	Activity description
C1	Disassembly	-	-	The desk is assumed to be manually dismantled.
C2	Transport of discarded components	50	km	Assumed distance to a treatment facility, 50% load capacity.
C3	Amount assumed for incineration	18.71	kg	Once the steel is removed from the table 100% of the remaining product is assumed to go to incineration.
C3	Amount of product assumed for recycling	18.84	kg	85% of the total steel in the product is assumed to reach the recycling process.
C4	Amount assumed for landfill	3.33	kg	15% of the total steel in the product is assumed to reach landfill.

D – Benefits and Loads Beyond the System Boundary: Potential benefits from recycling, reuse, and energy recovery from the product's materials and energy after its lifecycle ends.

	Module	Amount	Unit	Activity description
D	Amount of material exiting the system boundary	18.84	kg	Amount of steel potentially reaching a new lifecycle

Energy source

Electricity is modelled using national residual mixes from AIB, as no Guarantees of Origin (GOs) have been purchased or can be linked directly to the product. The residual mix reflects the actual grid electricity profile when GOs are not used. Onsite solar electricity in Poland and Sweden is considered 100 % renewable and is modelled with Ecoinvent datasets for small-scale PV systems. Electricity is allocated based on metered use per production unit, not by product or GO-based claims.

Thermal energy from biomass in Poland is modelled using Ecoinvent data for wood pellet combustion. The source is considered 100 % renewable and reflects small-scale heat generation. Heat inputs are assigned based on actual usage per process.

Scenario parameter	Value	Energy mix	Dataset
Electricity, Poland, residual mix	0.910 kg CO _{2e} / kWh	75-80% fossil 15-20% renewable	Electricity, medium voltage {PL} electricity, medium voltage, residual mix Cut-off, U
Biomass usage for thermal heating, Poland, kg CO _{2e} /kWh	0.063 kg CO _{2e} / kWh	100% renewable	Heat, central or small-scale, other than natural gas {RoW} heat production, wood pellet, at furnace 300kW Cut-off, U
Electricity, Poland, solar panels	0.091 kg CO _{2e} / kWh	100% renewable	Electricity, low voltage {PL} electricity production, photovoltaic, 3kWp slanted-roof installation, multi-Si, panel, mounted Cut-off, S
Electricity, Sweden, residual mix	0.045 kg CO _{2e} / kWh	5-10% fossil 60-70% renewable 20-30% nuclear	Electricity, medium voltage {SE} electricity, medium voltage, residual mix EN15804, U
Solar cells, Sweden, solar panels	0.102 kg CO _{2e} / kWh	100% renewable	Electricity, low voltage {SE} electricity production, photovoltaic, 3kWp slanted-roof installation, multi-Si, panel, mounted EN15804, S



Allocation procedures:

Allocation is required when material, energy, or waste data cannot be measured separately for the investigated product. Per EN 15804 and PCR 2019:14 version 2.0.1, allocation follows this order:

Avoid allocation where possible.

Use physical properties (e.g., mass, volume) when revenue differences are small.

Apply economic values when physical allocation is not feasible.

This LCA study adheres to all methodological requirements, including performance, system boundaries, data quality, and allocation rules for evaluating inputs and outputs. All data are sourced from factory technicians, with no data gaps filled by estimates or generic data.

Product output is fixed to 1 functional unit for calculations. Economic allocation is applied for energy use in manufacturing (A3) based on product revenue. Production waste in A3 (1.63 kg chipboard incinerated, 1.31 kg steel, 0.19 kg electronics, 0.07 kg wires recycled, 0.20 kg ABS, 0.02 kg plastic, 0.02 kg powder coating landfilled) is handled via waste allocation per section 4.5, with environmental impacts allocated to A3 and benefits reported in module D.

All the raw material type, weights and packaging materials used in this study are precise weights, taken from business system. The raw material distances to the manufacturing site are based on averages from google maps. Energy usage in the factory is based on economic allocation. The distances out to the customer from the factory based on sales from the business system and weighted based on Swedish and the rest of EU.

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Construction process 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	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	EU	EU	PL	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU
Variation products	<10% variation*																-
Variation – sites	0% variation					-	-	-	-	-	-	-	-	-	-	-	-

* This EPD covers two products, each featuring different tabletop dimensions. The difference between the lightest and heaviest product is 5% in weight.

The share of primary data contributing to the GWP-GHG results in modules A1–A3 is 0,2 %.

Primary data refers to site-specific data collected from the manufacturing site and suppliers, including energy use, material inputs and transport distances.



The table below shows the main processes contributing to GWP-GHG in A1–A3 and the corresponding data sources and categories:

Process	Source type	Source	Reference year	Data category	Share of primary data, for A1-A3
Production of raw materials	Collected data	Ecoinvent v3.10	2024	Secondary data	0%
Packaging materials	Collected data	Ecoinvent v3.10	2024	Secondary data	0%
Transport of raw materials to factory	Collected data	Ecoinvent v3.10	2024	Secondary data	0%
Energy use	Collected data	Ecoinvent v3.10	2024	Primary data	0,2%
Waste transport & treatment	Collected data	Ecoinvent v3.10	2024	Secondary data	0%
Total share of primary data, of GWP-GHG results for A1-A3					0,2%

The share of primary data is calculated based on GWP-GHG results. It is a simplified indicator for data quality that supports the use of more primary data, to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories.

Additional information

The manufacturing process for the standing desk uses wood-based material as chipboard. The chipboard is melamine-coated and is cut lengthwise and crosswise. The corners of the chipboard were smoothed using an edge grinder. Next, adhesive was applied to attach the ABS edge band. Finally, holes were drilled for the metal frame. Once the manufacturing process is complete, the tabletop and the metal frame are packaged using cardboard and secured with tape. The tabletop of the standing desk is manufactured in-house at our factory, while the metal frame is sourced. The factory machines are always optimizing to reduce production waste and to always work as efficient as possible. The standing desk is then transported to AJ Produkter's warehouse in Halmstad Sweden, then transported to the customer by lorry and/or by sea freight depending on location.

Content information

Product components	Weight, kg	Weight interval (min-max)	Post-consumer material, weight-%	Biogenic material, weight of DU	Biogenic material, kg C/DU
Chipboard	17.74	15.52 – 17.74	0	14.73	7.36
Melamine	0.18	0.16 – 0.18	0	0	0
ABS edge tape	0.31	0.29 – 0.31	0	0	0
Adhesive	0.03	0.03 – 0.03	0	0	0
Steel	22.17	22.17 – 22.17	0	0	0
Plastic	0.45	0.45 – 0.45	0	0	0
Powder coating	0.33	0.33 – 0.33	0	0	0
Electronic	1.90	1.90 – 1.90	0	0	0
Wires	0.45	0.45 – 0.45	0	0	0
TOTAL	43.56	41.30- 43.56	0	14.73	7.36
Packaging materials	Weight, kg	Weight interval (min-max)	Weight-% (versus the product)	Weight biogenic carbon, kg C/DU	
Cardboard	2.63	2.63 - 2.63	6%	1.10	
Plastic tape	0.06	0.06 - 0.06	0%	0	
TOTAL	2.69	2.63 – 2.63	6%	1.10	

Dangerous substances from the candidate list of SVHC for Authorization	EC No.	CAS No.	Weight-% per functional or declared unit
No dangerous substances included in the product			



Results of the environmental performance indicators

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks. Do not use results in A1-A3 without considering impacts in C1-C4.

Mandatory impact category indicators according to EN 15804+A2

Results per 1 unit of Qbus standing desk 1400x800 mm

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	1,12E+02	7,45E+00	2,37E-01	0,00E+00	1,29E+00	0,00E+00	0,00E+00	0,00E+00	1,45E+01	0,00E+00	0,00E+00	3,38E-01	3,31E+00	2,57E-02	-3,38E+01
GWP-Biogenic	kg CO ₂ eq.	-2,60E+01	2,39E-03	4,15E+00	0,00E+00	-3,37E-01	0,00E+00	0,00E+00	0,00E+00	5,70E-01	0,00E+00	0,00E+00	1,08E-04	2,60E+01	2,28E-01	-1,49E-02
GWP-LULUC	kg CO ₂ eq.	2,09E-01	1,83E-04	1,46E-05	0,00E+00	1,09E-01	0,00E+00	0,00E+00	0,00E+00	4,60E-02	0,00E+00	0,00E+00	8,30E-06	3,53E-05	4,43E-06	-8,14E-03
GWP-total	kg CO ₂ eq.	8,63E+01	7,45E+00	4,39E+00	0,00E+00	1,07E+00	0,00E+00	0,00E+00	0,00E+00	1,51E+01	0,00E+00	0,00E+00	3,38E-01	2,93E+01	2,54E-01	-3,39E+01
ODP	kg CFC 11 eq.	1,38E-06	1,52E-07	1,54E-09	0,00E+00	3,26E-08	0,00E+00	0,00E+00	0,00E+00	2,28E-07	0,00E+00	0,00E+00	6,90E-09	3,74E-09	2,45E-10	-1,36E-07
AP	mol H ⁺ eq.	7,11E-01	8,69E-03	7,50E-04	0,00E+00	8,47E-03	0,00E+00	0,00E+00	0,00E+00	7,25E-02	0,00E+00	0,00E+00	8,42E-04	3,30E-03	1,40E-04	-1,17E-01
EP-freshwater	kg P eq.	6,77E-03	6,25E-06	6,24E-07	0,00E+00	9,04E-05	0,00E+00	0,00E+00	0,00E+00	1,41E-03	0,00E+00	0,00E+00	2,83E-07	2,09E-06	4,38E-06	-1,63E-03
EP-marine	kg N eq.	2,78E-01	1,93E-03	3,36E-04	0,00E+00	2,70E-03	0,00E+00	0,00E+00	0,00E+00	9,37E-03	0,00E+00	0,00E+00	3,23E-04	1,65E-03	3,40E-04	-2,46E-02
EP-terrestrial	mol N eq.	1,25E+00	2,11E-02	3,49E-03	0,00E+00	1,86E-02	0,00E+00	0,00E+00	0,00E+00	1,06E-01	0,00E+00	0,00E+00	3,53E-03	1,74E-02	5,99E-04	-2,88E-01
POCP	kg NMVOC eq.	4,41E-01	1,88E-02	9,05E-04	0,00E+00	5,57E-03	0,00E+00	0,00E+00	0,00E+00	3,51E-02	0,00E+00	0,00E+00	1,47E-03	4,31E-03	2,38E-04	-1,00E-01
ADP-minerals & metals ^{1,2}	kg Sb eq.	4,12E-03	2,46E-07	3,99E-08	0,00E+00	5,06E-06	0,00E+00	0,00E+00	0,00E+00	9,06E-07	0,00E+00	0,00E+00	1,12E-08	1,14E-07	1,76E-09	-1,99E-05
ADP-fossil ¹	MJ	1,45E+03	9,84E+01	7,75E-01	0,00E+00	2,15E+01	0,00E+00	0,00E+00	0,00E+00	3,51E+02	0,00E+00	0,00E+00	4,46E+00	2,26E+00	2,21E-01	-3,49E+02
WDP ¹	m ³	6,17E+01	1,03E-01	1,32E-01	0,00E+00	2,24E+00	0,00E+00	0,00E+00	0,00E+00	1,14E+01	0,00E+00	0,00E+00	4,68E-03	2,69E-01	-5,35E-02	-2,81E+00
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals & metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption															

¹ **Disclaimer 1:** The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

² **Disclaimer 2:** The results of the impact categories abiotic depletion of minerals and metals, land use, human toxicity (cancer), human toxicity, noncancer and ecotoxicity (freshwater) may be highly uncertain in LCAs that include capital goods/infrastructure in generic datasets, in case infrastructure/capital goods contribute greatly to the total results. This is because the LCI data of infrastructure/capital goods used to quantify these indicators in currently available generic datasets sometimes lack temporal, technological and geographical representativeness. Caution should be exercised when using the results of these indicators for decision-making purposes.



Additional mandatory and voluntary impact category indicators

Results per 1 unit of Qbus standing desk 1400x800 mm

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ³	kg CO ₂ e	1,14E+02	7,45E+00	2,37E-01	0,00E+00	1,29E+00	0,00E+00	0,00E+00	0,00E+00	1,45E+01	0,00E+00	0,00E+00	3,38E-01	3,31E+00	2,57E-02	-3,38E+01
Particulate matter	disease inc.	7,30E-06	4,41E-07	6,35E-09	0,00E+00	9,13E-08	0,00E+00	0,00E+00	0,00E+00	1,66E-07	0,00E+00	0,00E+00	2,22E-08	2,98E-08	3,14E-09	-2,38E-06
Ionising radiation ²	kBq U-235 eq	7,49E+00	1,34E-02	3,78E-04	0,00E+00	3,00E-02	0,00E+00	0,00E+00	0,00E+00	3,18E+00	0,00E+00	0,00E+00	6,08E-04	7,29E-04	1,02E-04	-1,55E-01
Ecotoxicity, freshwater ^{1,4}	CTUe	4,92E+03	3,37E+00	4,81E+00	0,00E+00	1,86E+01	0,00E+00	0,00E+00	0,00E+00	2,78E+01	0,00E+00	0,00E+00	1,52E-01	7,88E+00	3,29E+00	-2,83E+03
Human toxicity, cancer ^{1,4}	CTUh	1,39E-05	5,23E-10	3,09E-10	0,00E+00	4,96E-09	0,00E+00	0,00E+00	0,00E+00	5,26E-09	0,00E+00	0,00E+00	2,56E-11	1,19E-09	1,56E-11	-1,07E-05
Human toxicity, non-cancer ^{1,4}	CTUh	4,18E-06	4,97E-08	9,00E-09	0,00E+00	9,53E-09	0,00E+00	0,00E+00	0,00E+00	1,54E-09	0,00E+00	0,00E+00	2,24E-09	4,31E-08	1,57E-09	-3,07E-07
Land use ¹	Pt	1,26E+03	2,20E-01	6,93E-02	0,00E+00	2,02E+01	0,00E+00	0,00E+00	0,00E+00	3,72E-09	0,00E+00	0,00E+00	9,99E-03	2,87E-01	3,27E-01	-3,26E+01

¹ **Disclaimer 1:** The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.

² **Disclaimer 2:** 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.

³ **Disclaimer 3:** This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO₂ is set to zero.

⁴ **Disclaimer 4:** The results of the impact categories abiotic depletion of minerals and metals, land use, human toxicity (cancer), human toxicity, noncancer and ecotoxicity (freshwater) may be highly uncertain in LCAs that include capital goods/infrastructure in generic datasets, in case infrastructure/capital goods contribute greatly to the total results. This is because the LCI data of infrastructure/capital goods used to quantify these indicators in currently available generic datasets sometimes lack temporal, technological and geographical representativeness. Caution should be exercised when using the results of these indicators for decision-making purposes.

Resource use indicators

Option B from EN 15804, ANNEX 3 describes the use of primary energy used in this study such as: The energy used as raw material shall be declared as an input to the module where it enters the product system (often in module A1) and as an output from the product system if it exits the product system as useful energy (often from modules A5 or C3). Energy content that is wasted (e.g. in landfill or in incineration), remains as part of the indicator for energy used for raw materials, and shall not (in contrast to option A) be reported as an input of energy used for energy carriers. The rationale behind this option is that the indicator for energy used as raw materials shall reflect the energy used for the purpose of being raw material in the product or packaging, that is not subsequently transferred in useable form to another product system. In this option, energy used as raw material will often not be zero over the product life cycle.

Results per 1 unit of Qbus standing desk 1400x800 mm

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	6,51E+02	7,62E-01	3,95E-02	0,00E+00	2,27E+01	0,00E+00	0,00E+00	0,00E+00	9,78E+01	0,00E+00	0,00E+00	3,46E-02	8,39E-02	6,40E-03	-1,16E+01
PERM	MJ	3,76E+02	0,00E+00	-3,03E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,19E+02	0,00E+00	0,00E+00
PERT	MJ	1,03E+03	7,62E-01	-3,03E+01	0,00E+00	2,27E+01	0,00E+00	0,00E+00	0,00E+00	9,78E+01	0,00E+00	0,00E+00	3,46E-02	-2,19E+02	6,40E-03	-1,16E+01
PENRE	MJ	3,37E+03	2,29E+02	1,81E+00	0,00E+00	6,88E+01	0,00E+00	0,00E+00	0,00E+00	3,65E+02	0,00E+00	0,00E+00	1,04E+01	5,80E+00	4,70E-01	-7,42E+02
PENRM	MJ	2,42E+01	0,00E+00	-9,46E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-2,29E+01	0,00E+00	0,00E+00
PENRT	MJ	3,39E+03	2,29E+02	8,59E-01	0,00E+00	6,88E+01	0,00E+00	0,00E+00	0,00E+00	3,65E+02	0,00E+00	0,00E+00	1,04E+01	-1,71E+01	4,70E-01	-7,42E+02
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m ³	2,99E+00	4,24E-03	9,86E-03	0,00E+00	2,48E-01	0,00E+00	0,00E+00	0,00E+00	9,52E-02	0,00E+00	0,00E+00	2,00E-04	2,01E-02	1,76E-04	-2,44E-01
Acronyms	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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water															



Waste indicators

Results per 1 unit of Qbus standing desk 1400x800 mm																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	Kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Non-hazardous waste disposed	Kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Radioactive waste disposed	Kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Output flow indicators

Results per 1 unit of Qbus standing desk 1400x800 mm																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	1,11E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,88E+01	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	0,00E+00	0,00E+00	4,48E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,09E+01	0,00E+00	0,00E+00
Exported energy, thermal	MJ	0,00E+00	0,00E+00	2,53E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,74E+02	0,00E+00	0,00E+00

Additional 100% scenarios at end of life in C3 and C4

C3 Results per 1 unit of Qbus standing desk 1400x800 mm				C4 Results per 1 unit of Qbus standing desk 1400x800 mm		
Indicator	Unit	100% recycling	100% incineration	Indicator	Unit	100% landfill
GWP-fossil	kg CO ₂ eq.	x	2,23E+01	GWP-fossil	kg CO ₂ eq.	2,13E+00
GWP-Biogenic	kg CO ₂ eq.	x	3,17E+01	GWP-Biogenic	kg CO ₂ eq.	3,01E+01
GWP-LULUC	kg CO ₂ eq.	x	3,43E-03	GWP-LULUC	kg CO ₂ eq.	5,23E-04
GWP-total	kg CO ₂ eq.	x	5,40E+01	GWP-total	kg CO ₂ eq.	3,23E+01
ODP	kg CFC 11 eq.	x	1,69E-08	ODP	kg CFC 11 eq.	1,37E-08
AP	mol H ⁺ eq.	x	1,19E-02	AP	mol H ⁺ eq.	7,00E-03
EP-freshwater	kg P eq.	x	2,04E-05	EP-freshwater	kg P eq.	5,74E-04
EP-marine	kg N eq.	x	5,61E-03	EP-marine	kg N eq.	3,97E-02
EP-terrestrial	mol N eq.	x	5,73E-02	EP-terrestrial	mol N eq.	2,20E-02
POCP	kg NMVOC eq.	x	1,44E-02	POCP	kg NMVOC eq.	1,42E-02
ADP-minerals & metals ^{1,2}	kg Sb eq.	x	6,62E-07	ADP-minerals & metals ^{1,2}	kg Sb eq.	1,83E-07
ADP-fossil ¹	MJ	x	9,52E+00	ADP-fossil ¹	MJ	1,30E+01
WDP ¹	m ³	x	1,84E+00	WDP ¹	m ³	-7,08E+00

VERSION HISTORY

2025-08-11 Original version of the EPD

2025-08-22 Updated description of declared product variations in table 1.

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Abbreviations

EPD: Environmental Product Declaration
ISO: International Organization for Standardization
EN: European Norm
RSL: Reference Service Life
ESL: Estimated Service Life
PCR: Product Category Rules
LCA: Life Cycle Assessment
CF: Characterization Factors
GWP: Global Warming Potential
GWP-fossil: Global Warming Potential fossil fuels
GWP-biogenic: Global Warming Potential biogenic
GWP-luluc: Global Warming Potential land use and land use change
ODP: Ozone Depletion Potential
AP: Acidification Potential
EP: Eutrophication Potential
EP-freshwater: Eutrophication Potential freshwater
EP-marine: Eutrophication Potential marine
EP-terrestrial: Eutrophication Potential terrestrial
POCP: Photochemical Ozone Creation Potential
ADP: Abiotic Depletion Potential
ADP-minerals & metals: Abiotic Depletion Potential for minerals and metals
ADP-fossil: Abiotic Depletion Potential for fossil resources
WDP: Water Deprivation Potential
EAF: Electric Arc Furnace
BOF: Basic Oxygen Furnace
SVHC: Substances of Very High Concern
CTUh: Comparative Toxic Unit human
CTUe: Comparative Toxic Unit ecological

