

ENVIRONMENTAL PRODUCT DECLARATION **CIBES A5000**

 EPD®



Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
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Valid until:	2027-03-16

CIBES



CIBES LIFT

Cibes is a brand owned by Cibes Lift Group AB Europe's leading manufacturer of space-saving, modular lifts known for its Swedish quality and design. The products are customized for both public and private markets. Sales, installation, and service are provided through the company's global network of subsidiaries and partners. Cibes, with its head office in Gävle, Sweden, has more than 1000 employees, a partner network in more than 70 countries and subsidiaries in about 20 countries.



PERSONAL

- Simplicity is a virtue – Always take responsibility to ensure simplicity for the customer
 - Local presence through people
- Act as a team player with sense of urgency towards your colleagues

PROGRESSIVE

- Continuously review the product line to ensure design and flexibility
 - Quality throughout the value chain
 - Profit enables investments
- Always strive to improve, never get satisfied

PROFESSIONAL

- Most things remain to be done
- We believe that having fun at work creates success
- We believe in a decentralized model with central coordination

OUR CORE VALUES

Our company vision is underpinned by three strong values which shape and guide our behavior as a company: Personal, Progressive and Professional. These core values, which we call the three P's, help us drive our strategies forward and act as one in our day-to-day operations, regardless of where in the world we are, or the task at hand.

OUR 5 PILLARS OF SUSTAINABILITY

Our work for a sustainable business is based on five pillars, which are also integrated with our business strategy: **Safety, Business, Planet, People and Ethics.**

SAFETY – zero harm to people

The health and safety of our employees, customers and partners is our top priority and a prerequisite for our business. We implement a very strict safety strategy to ensure that our products, services and work environments are safe.

BUSINESS – sustainable business advantage

We see no contradiction between sustainability and profitability. Being a leading company in our field, our sustainable business model strengthens our brand, attracts and retains the right talent and gives us a competitive edge.

PLANET – responsible for a higher purpose

Our planet is facing some serious environmental threats, and although we cannot change the world on our own, we are committed to do whatever we can to mobilise our organisation and minimise our environmental impact.

PEOPLE – make the difference

We believe that our employees is our greatest asset and that wasting their talents would be unsustainable. We want to give people the opportunity to develop their skills and grow in a company culture characterised by openness, diversity and respect.

ETHICS – values matter

We work actively to inform our employees, suppliers and business partners, that they are expected to observe and comply with the high standards for equal treatment, work rights and business integrity stated in our Code of Conduct.



GENERAL INFORMATION

PROGRAMME INFORMATION

Programme	The International EPD® System
Address	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website	www.environdec.com
E-mail	info@environdec.com

CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product category rules (PCR): C-PCR-008 Lifts (Elevators) to PCR2019-14
Construction products v1.11 and UN CPC code(s) 4354 Together with
EN 15804:2012+A2:2019

PCR review was conducted by: the Technical Committee of the International EPD®
System. Review chair: Gorka Benito. Contact via info@environdec.com

Independent third-party verification of the declaration and data, according to ISO
14025:2006:

EPD process certification EPD verification

Third party verifier: Hüdai Kara, PhD Metsims Sustainability Consulting
hudai.kara@metsims.com 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 from different programmes may not
be comparable. EPDs of construction products may not be comparable if they
do not comply with EN 15804. For further information about comparability, see EN
15804 and ISO 14025.

The LCA approach harmonizes with the Product Environmental Footprint Category
Rules for building products, cradle to grave (EPD International, 2021). The Life Cycle
Assessment report (Böckin, 2022) is available to EPD-auditor on request and include
all the detailed information required according to ISO 14044 (ISO, 2006b).

PRODUCT SPECIFICATION

Index	Values	Representatives values chosen in case of range
Type of installation	New generic lift	
Commercial name	A5000	
Main purpose	Transport of passengers	
Type of lift	Platform lift (electric)	
Type of drive system	Screw and nut drive	
Rated load (fixed or range)	300-500 kg	400 kg
Rated speed (fixed or range)	0,15 m/s	
Number of stops (fixed or range)	2-6	2
Travelled height (fixed or range)	1-20 m	3,28 m
Number of operating days/year (fixed or range)	365 days	
Applied usage category (UC) according to ISO 25745-2	UC1	
Designed Reference Service Life (RSL)	25 years	
Geographic region of intended installation	Europe	The Netherlands
Additional information	N/A	
Recommended application (main market)	Low-rise residential/commercial	
- Building rise (typical)		
- Building type		
Optional equipment	N/A	
Additional requirements	N/A	
Standby power requirement	24 W (idle mode)	18W (standby after 5 min)

COMPANY INFORMATION

Owner of the EPD: Cibes Lift Group

Contact: Emil Mårtensson

Product-related or management system-related certifications: Cibes Lift Group
products are type approved and certified by a Notified Body. All our products are built
according to existing safety standards and relevant parts of the European Machinery
Directive 2006/42/EC taken into account any additional remarks mentioned in our certifi-
cates. Platform lift with shaft based on the following standard: EN81-41:2010 and parts
of EN 81-20:2020, EN 81-70:2018, Eurocode 1:EN 1991-1-3 & EN 1991-1-4.

Name and location of production site: Cibes Lift AB, Gävle, Sweden.

PRODUCT INFORMATION

Product name: Cibes A5000

Product identification: Platform lift

Product description: Accessibility adapted platform lift solution, with included shaft for
public and residential application areas.



Third party verifier: Hüdai Kara,
Metsims, hudai.kara@metsims.com
Approved by: The International
EPD® System

Hüdai Kara
Hüdai Kara

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LIFE CYCLE ASSESSMENT (LCA) INFORMATION

Functional Unit

The functional unit was defined as the transportation of a load over a distance, expressed as one tonne transported over one kilometre (i.e. 1 tkm) over a vertical trajectory

Lifetime

Reference Service Life: 25 years.

Product group classification

UN CPC 4653

Goal and Scope

Understanding the product's environmental impact during the life cycle. This data will form the ground for internal product development to reduce the climate impact of our product. This information can also be used in external communication.

Manufacturing Site

Cibes Lift Group, Gävle, Sweden.

Geographical Area

Europe. Use and disposal is represented by an average European situation.

Compliant with

This EPD follows the "Book-keeping" LCA approach which is defined as attributional LCA in the ISO 14040 standard.

In accordance with ISO 14025, ISO 14040 – ISO 14044 and EN 15804:2012+A2:2019

This EPD follows the Product Category Rules PCR2019-14 Construction products v1.11 valid until 2024-12-20, and the c-PCR-008 Lifts (Elevators)

Cut-Off Rules

The following procedure is followed for the exclusion of inputs and output:

Data for elementary flows to and from the product system contributing to a minimum of 99% of the declared environmental impacts shall be included. A screening and expert judgement showed that the following aspects contribute less than 1% and could be cut-off:

- Various supplier packaging
- Production of capital goods for manufacturing (machines and facilities)
- Transport to site for components weighing less than ca 10 kg
- Energy for installation

Background data

The data quality is considered good. All site-specific data for raw materials, auxiliary materials as well as energy and emissions in the manufacturing process is from 2021 and have been represented with ecoinvent datasets. All other relevant environmental aspects have been represented by generic ecoinvent data. Ecoinvent is the world's biggest LCI (Life cycle inventory) data library and the latest and most updated version was used. Ecoinvent contains data for the specific geographical regions relevant for this study. The background data from ecoinvent 3.8 are from 2016-2021.

Foreground data – primary

Weight of articles and composition of (most) raw materials. Suppliers' location for transport and specific data on energy and material use for ca 50 wt% of the lift. Packaging, electricity and waste.

Electricity data

Electricity consumption in the A3 module is average

Swedish grid mix and B6 electricity is represented by data for average European grid mix in Ecoinvent 3.8.

Allocations

Polluter Pays / Allocation by Classification

Impact Assessment methods

Potential environmental impacts are calculated with Environmental Footprint 3.0 method as implemented in SimaPro 9.3. Resource use values are calculated from Cumulative Energy Demand V1.11.

Based on LCA Report

Miljögiraff LCA Report 942 A5000.

LCA Practitioner Daniel Böckin, Miljögiraff AB

Software

SimaPro 9.3

FUNCTIONAL UNIT AND TRANSPORTATION PERFORMANCE

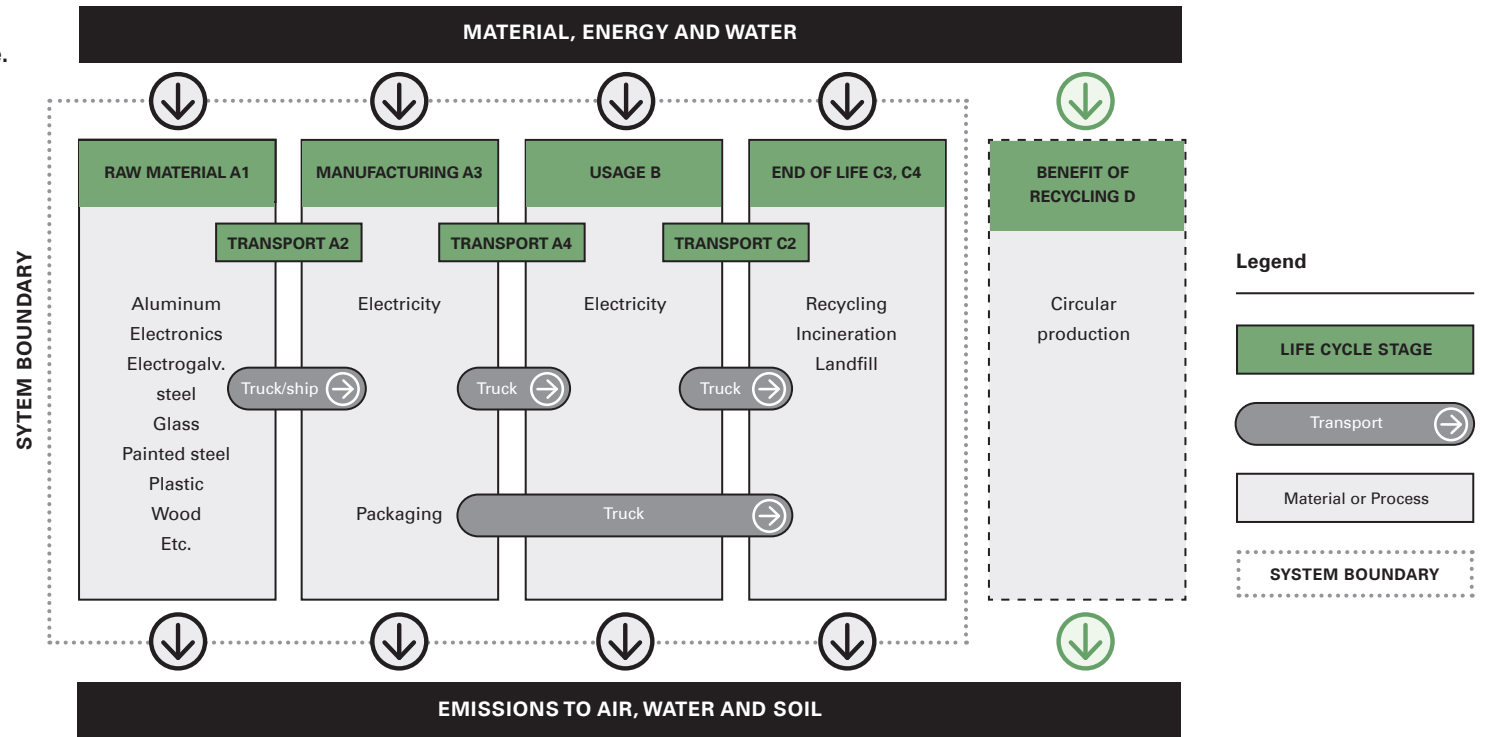
The LCA results shall be presented per functional unit (f.u.). The function of a lift is the transportation of persons and/or freight. In accordance with the PCR, the f.u. is thus defined as the transportation of a load over a distance, expressed as one tonne transported vertically over one kilometre, i.e. tonne-kilometre (tkm).

The total amount of tkm fulfilled by the lift during its lifetime (known as transportation performance, TP) is calculated according to the PCR and ISO 25745-2, according to the table below. The LCA results per functional unit are then obtained by dividing all inputs and outputs by the TP, which for the A5000 is 19,71 tkm.

Parameter	How to calculate	Calculation
TP = transportation performance	Average car load (Q _{av}) multiplied by the distance travelled by the lift during the service life (sRSL)	0,03 tonnes * 657 km = 19,71 tkm
Q_{av} = average car load	Rated load (in tonnes) multiplied by the corresponding percentage from Table 3 of ISO 25745-2	0,4 tonnes * 0,075 = 0,03 tonnes
s_{RSL} = Distance travelled by the lift during the service life	One-way average travel distance (s _{av}) * number of trips per day (n _{td}) * number of operating days per year (d _{op}) * Reference Service Life (RSL)	3,6 meters * 20 trips * 365 days * 25 years = 657 km

SYSTEM DIAGRAM

This study includes a cradle-to-grave perspective. That means that all processes needed for raw material extraction, manufacturing, transport, usage and end-of-life are included in the study.



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

Module	Product stage		Construction process stage			Use stage							End of life stage				Resource recovery stage	
	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	X
Geography	GLO	SE	SE	SE	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU	EU
Type of data used	G/S	G/S	S	G	G	-	-	G	-	-	G	-	-	G	G	-	-	G

G: General data
S: Specific data

CONTENT AND LIFE CYCLE INFORMATION

The following table shows the material content of the A5000 lift and the percentage of recycled and renewable material in the product.

Product materials	Weight, kg	Recycled material, weight-%		Renewable material, weight-%
		Pre-consumer	Post-consumer	
Painted steel	668,3	2,6	0	0
Electrogalvanized steel	97,7	0	0	0
Aluminium	77,5	0	1,1	0
Electronics	59,8	0	0	0
Glass	44,0	0	0	0
Plastic	18,3	0	0	0
Door stopper	2,64	0	0	0
Glue/tape	2,33	0	0	0
Zink	0,81	0	0	0
Oil	0,71	0	0	0
Brass	0,54	0	0	0
TOTAL	972,6	1,8	0,1	0
Packaging materials				
Wood and steel packaging	137,4	0	0	88,8

Dangerous substances from the candidate list of SVHC for Authorisation	EC/List No.	CAS No.	Weight-% per functional or declared unit
Substance: Lead	231-100-4	7439-92-1	0,13%

The majority of the product weight comes from the painted steel components. Additionally, a significant share is electrogalvanized steel, aluminium, electronic and glass components.

Manufacturing takes place in Gävle, Sweden and includes assembling and mounting the different modules of the lift. The source of the energy used for manufacturing is an average Swedish grid mix (0,044 kg CO₂-eq/kWh).

Packaging is shown in the table above and includes packaging for the bulk of the lift as well as separate packaging for the guide profile and lift screws. They consist of wood, plywood and steel.

It is assumed that there are no environmental aspects during **installation** of the product, except the waste management of packaging after installation.

For the **use phase**, the lift is assumed to be installed somewhere in central Europe. The lifetime energy consumption of 4,83 MWh was calculated in accordance with ISO 25745-1 and -2 (with a yearly energy use of 193 kWh, assuming 20 trips per day, and the reference service life of 25 years; for the certified report by Liftinstituut B.V., contact Cibes Lift Group). The energy source was average European electricity on the grid (0,394 kg CO₂-eq/kWh).

End of life is based on a generic scenario of Dutch waste management. The exception is the electronics, which are assumed to be separated and the copper and steel recycled while the rest is incinerated.

ENVIRONMENTAL INFORMATION

Potential environmental impact per functional unit (1 tkm) – mandatory indicators according to EN 15804 and additional voluntary indicators

Results per 1 tkm vertical transport by the Cibes A5000 lift																			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	174	3,55	3,92	182	14,7	0,46	0	0,04	0	0	0	97,1	0	0	3,07	1,45	0	-170
GWP-biogenic	kg CO ₂ eq.	3,65	0,00	-10,3	-6,61	0,01	8,41	0	0,00	0	0	0	2,99	0	0	0,00	0,72	0	-5,33
GWP-luluc	kg CO ₂ eq.	0,73	0,00	0,03	0,77	0,01	0,00	0	0,00	0	0	0	0,23	0	0	0,00	0,00	0	-0,67
GWP-total	kg CO ₂ eq.	180	3,56	-6,28	177	14,7	8,88	0	0,04	0	0	0	100	0	0	3,07	2,17	0	-176
ODP	kg CFC 11 eq.	1,46E-05	8,06E-07	4,59E-07	1,59E-05	3,40E-06	9,58E-08	0	2,80E-08	0	0	0	4,89E-06	0	0	6,65E-07	6,09E-08	0	-1,56E-05
AP	mol H ⁺ eq.	1,06	0,03	0,03	1,12	0,04	0,00	0	0,00	0	0	0	0,55	0	0	0,02	0,00	0	-1,01
EP-freshwater ¹	kg PO ₄ ³⁻ eq.	2,05E-01	6,63E-04	5,92E-03	2,11E-01	2,95E-03	1,27E-04	0	4,04E-05	0	0	0	3,00E-01	0	0	1,41E-04	4,28E-04	0	-1,79E-01
EP-freshwater ¹	kg P eq.	6,67E-02	2,16E-04	1,93E-03	6,88E-02	9,62E-04	4,12E-05	0	1,32E-05	0	0	0	9,78E-02	0	0	4,58E-05	1,39E-04	0	-5,82E-02
EP-marine	kg N eq.	1,04E-01	5,83E-03	9,51E-03	1,19E-01	8,47E-03	2,11E-03	0	4,81E-05	0	0	0	9,21E-02	0	0	7,97E-03	7,78E-04	0	-9,70E-02
EP-terrestrial	mol N eq.	1,01	0,06	0,10	1,18	0,09	0,02	0	0,00	0	0	0	0,81	0	0	0,09	0,01	0	-0,94
POCP	kg NMVOC eq.	3,36E-01	1,91E-02	3,15E-02	3,86E-01	3,55E-02	6,62E-03	0	9,55E-04	0	0	0	2,23E-01	0	0	3,07E-02	1,86E-03	0	-3,06E-01
ADP-m&m ²	kg Sb eq.	1,46E-02	1,15E-05	3,08E-05	1,46E-02	5,20E-05	5,50E-07	0	6,91E-07	0	0	0	9,00E-04	0	0	2,61E-06	3,55E-06	0	-1,34E-02
ADP-f ²	MJ	2219	52,7	102	2374	222,5	6,02	0	2,22	0	0	0	2058	0	0	40,5	3,61	0	-2224
WDP	m ³	34,4	0,15	4,90	39,5	0,68	0,02	0	0,01	0	0	0	24,1	0	0	0,02	0,12	0	-34,0
Particulate matter	disease inc.	6,14E-06	2,61E-07	6,34E-07	7,0E-06	1,18E-06	7,28E-08	0	2,29E-09	0	0	0	1,76E-06	0	0	4,35E-07	1,96E-08	0	-5,44E-06
Ionising radiation	kBq U-235 eq	11,8	0,27	3,22	15,3	1,15	0,03	0	0,01	0	0	0	55,9	0	0	0,18	0,03	0	-10,6
ET	CTUe	4828	40,2	141	5008	175	4,24	0	1,32	0	0	0	1303	0	0	22,0	44,2	0	-4242
HT, cancer	CTUh	2,50E-07	1,47E-09	2,66E-08	2,78E-07	5,62E-09	1,76E-09	0	3,01E-11	0	0	0	4,00E-08	0	0	3,85E-10	9,17E-10	0	-1,99E-07
HT, non-cancer	CTUh	6,63E-06	3,92E-08	8,45E-08	6,75E-06	1,76E-07	7,14E-09	0	8,05E-10	0	0	0	1,28E-06	0	0	1,56E-08	1,62E-08	0	-6,39E-06
Land use	Pt	365	33,0	1190	1588	155	1,39	0	0,31	0	0	0	373	0	0	7,28	1,59	0	-275
GWP-GHG ³ (IPCC)	kg CO ₂ eq.	175	3,53	3,87	182	14,6	0,49	0	0,04	0	0	0	96,6	0	0	3,05	1,46	0	170
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-m&m = Abiotic depletion potential for non-fossil resources; ADP-f = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption. ET = Ecotoxicity, freshwater. HT = Human toxicity																		

¹ Disclaimer: The EP-freshwater indicator is calculated both in kg PO₄ eq and kg P eq as required in the characterization model. (EUTREND model, Struijs et al, 2009b, as implemented in ReCiPe; <http://eplca.jrc.ec.europa.eu/LCDN/developerEF.xhtml>)

² Disclaimer: 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.

³ The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Potential environmental impact for the complete product over its Reference Service Life (25 years, with a total transportation performance of 19,71 tkm) – mandatory indicators according to EN 15804 and additional voluntary indicators

Results per Cibes A5000 lift for 25 years																			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	3430	70,0	77,3	3578	289	9,15	0	0,87	0	0	0	1915	0	0	60,6	28,6	0	-3348
GWP-biogenic	kg CO ₂ eq.	71,9	0,05	-202	-130	0,25	166	0	0,00	0	0	0	59,0	0	0	0,02	14,1	0	-105
GWP-luluc	kg CO ₂ eq.	14,4	0,03	0,68	15,1	0,12	0,00	0	0,00	0	0	0	4,53	0	0	0,01	0,01	0	-13,3
GWP-total	kg CO ₂ eq.	3550	70,1	-124	3496	290	175	0	0,88	0	0	0	1979	0	0	60,6	42,8	0	-3470
ODP	kg CFC 11 eq.	2,88E-04	1,59E-05	9,05E-06	3,13E-04	6,70E-05	1,89E-06	0	5,52E-07	0	0	0	9,64E-05	0	0	1,31E-05	1,20E-06	0	-3,07E-04
AP	mol H ⁺ eq.	20,9	0,50	0,58	22,0	0,82	0,08	0	0,01	0	0	0	10,9	0	0	0,37	0,04	0	-19,8
EP-freshwater ⁴	kg PO ₄ ³⁻ eq.	4,03	0,01	0,12	4,16	0,06	0,00	0	0,00	0	0	0	5,92	0	0	0,00	0,01	0	-3,52
EP-freshwater ⁴	kg P eq	1,31	0,00	0,04	1,36	0,02	0,00	0	0,00	0	0	0	1,93	0	0	0,00	0,00	0	-1,15
EP-marine	kg N eq.	2,04	0,11	0,19	2,35	0,17	0,04	0	0,00	0	0	0	1,82	0	0	0,16	0,02	0	-1,91
EP-terrestrial	mol N eq.	19,8	1,27	2,06	23,2	1,82	0,42	0	0,01	0	0	0	16,0	0	0	1,72	0,14	0	-18,5
POCP	kg NMVOC eq.	6,62	0,38	0,62	7,62	0,70	0,13	0	0,02	0	0	0	4,40	0	0	0,61	0,04	0	-6,03
ADP-m&m ⁵	kg Sb eq.	0,29	0,00	0,00	0,29	0,00	0,00	0	0,00	0	0	0	0,02	0	0	0,00	0,00	0	-0,26
ADP-f ⁵	MJ	43741	1038	2003	46782	4385	119	0	43,8	0	0	0	40572	0	0	799	71,2	0	-43828
WDP	m ³	678	2,99	96,6	778	13,3	0,39	0	0,26	0	0	0	475	0	0	0,41	2,46	0	-670
Particulate matter	disease inc.	1,21E-04	5,15E-06	1,25E-05	1,39E-04	2,33E-05	1,43E-06	0	4,52E-08	0	0	0	3,46E-05	0	0	8,58E-06	3,86E-07	0	-1,07E-04
Ionising radiation	kBq U-235 eq	233	5,26	63,4	302,0	22,6	0,53	0	0,23	0	0	0	1101	0	0	3,61	0,68	0	-209
ET	CTUe	95151	792	2771	98714	3442	83,5	0	26,0	0	0	0	25676	0	0	435	871	0	-83609
HT, cancer	CTUh	4,93E-06	2,90E-08	5,25E-07	5,48E-06	1,11E-07	3,47E-08	0	5,93E-10	0	0	0	7,89E-07	0	0	7,59E-09	1,81E-08	0	-3,92E-06
HT, non-cancer	CTUh	1,31E-04	7,72E-07	1,66E-06	1,33E-04	3,48E-06	1,41E-07	0	1,59E-08	0	0	0	2,52E-05	0	0	3,08E-07	3,20E-07	0	-1,26E-04
Land use	Pt	7186	651	23461	31298	3056	27,5	0	6,11	0	0	0	7355	0	0	143	31,4	0	-5426
GWP-GHG ⁶ (IPCC)	kg CO ₂ eq.	3450	69,5	76,2	3596	287	9,64	0	0,9	0	0	0	1904	0	0	60,1	28,7	0	-3353
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-m&m = Abiotic depletion potential for non-fossil resources; ADP-f = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption. ET = Ecotoxicity, freshwater. HT = Human toxicity																		

⁴ Disclaimer: The EP-freshwater indicator is calculated both in kg PO₄ eq and kg P eq as required in the characterization model. (EUTREND model, Struijs et al, 2009b, as implemented in ReCiPe; <http://epca.jrc.ec.europa.eu/LCDN/developerEF.xhtml>)

⁵ Disclaimer: 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.

⁶ The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

Use of resources - per functional unit (1 tkm)

Results per 1 tkm vertical transport by the Cibes A5000 lift																			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	16,3	0	-105	-88,7	0,16	0	0	0	0	0	0	21,0	0	0	0	0	0	-11,4
PERM	MJ	0	0	118	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERT	MJ	16,3	0	12,6	29,0	0,16	0	0	0	0	0	0	21,0	0	0	0	0	0	-11,4
PENRE	MJ	66,0	2,84	5,41	74,2	12,0	0,32	0	0,12	0	0	0	110	0	0	2,18	0,20	0	-72,6
PENRM	MJ.	53,5	0	0	53,5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PENRT	MJ	120	2,84	5,41	128	12,0	0,32	0	0,12	0	0	0	110	0	0	2,18	0,20	0	-72,6
SM	kg	0,18	0	0	0,18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m ³	0,52	0,01	0,01	0,53	0,02	0,00	0	0	0	0	0	0,08	0	0	0,00	0,01	0	0

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

Use of resources - for the complete product over its Reference Service Life (25 years, with a total transportation performance of 19,71 tkm)

Results per 1 tkm vertical transport by the Cibes A5000 lift																			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	321	0,70	-2069	-1747	3,18	0,06	0	0	0	0	0	413	0	0	0,22	0,38	0	-224
PERM	MJ	0	0	2318	2318	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PERT	MJ	321	0,70	249	571	3,18	0,06	0	0	0	0	0	413	0	0	0,22	0,38	0	-224
PENRE	MJ	1301	55,9	107	1463	236	6,40	0	2,37	0	0	0	2160	0	0	43,0	3,84	0	-1430
PENRM	MJ.	1055	0	0	1055	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PENRT	MJ	2356	55,9	107	2519	236	6,40	0	2,37	0	0	0	2160	0	0	43,0	3,84	0	-1430
SM	kg	3,57	0	0	3,57	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FW	m ³	10,2	0,12	0,16	10,5	0,37	0,01	0	0,00	0	0	0	1,61	0	0	0,03	0,10	0	0,00

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 production and output flows

Waste production per functional unit (1 tkm), for the Cibes A5000

Results per 1 tkm vertical transport by the Cibes A5000 lift																			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	0,12	0	0	0,12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-hazardous waste disposed	kg	0	0	0	0	0	0,48	0	0	0	0	0	0	0	0	0	0	0	0
Radioactive waste disposed	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Waste production, per lifetime (19,71 tkm over 25 years), for the Cibes A5000

Results per 1 tkm vertical transport by the Cibes A5000 lift																			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	2,30	0	0	2,30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-hazardous waste disposed	kg	0	0	0	0	0	8,92	0	0	0	0	0	0	0	0	0	0	0	0
Radioactive waste disposed	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Output flows, per functional unit (1 tkm), for the Cibes A5000

Results per Cibes A5000 lift for 25 years																			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Material for recycling	kg	4,79E-03	0	0	4,79E-03	0	0,43	0	0	0	0	0	0	0	0	0	0	39,6	0
Materials for energy recovery	kg	0	0	0	0	0	6,06	0	0	0	0	0	0	0	0	0	0	0	0
Exported energy, electricity	MJ	1,88E-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exported energy, thermal	MJ	3,86E-06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Output flows, per lifetime (19,71 tkm over 25 years), for the Cibes A5000

Results per Cibes A5000 lift for 25 years																			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Material for recycling	kg	9,44E-02	0	0	9,44E-02	0	8,04	0	0	0	0	0	0	0	0	0	0	781	0
Materials for energy recovery	kg	0	0	0	0	0	113	0	0	0	0	0	0	0	0	0	0	0	0
Exported energy, electricity	MJ	3,71E-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exported energy, thermal	MJ	7,61E-05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Information on biogenic carbon content

Results per functional or declared unit		
BIOGENIC CARBON CONTENT	Unit	QUANTITY
Biogenic carbon content in product	kg C	3,7
Biogenic carbon content in packaging	kg C	57,7

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂.

ADDITIONAL INFORMATION

From a life cycle perspective, the environmental impact of the A5000 lift can mainly be attributed to the production of materials and components (module A1) as well as electricity consumption in the use phase (module B6).

The environmental impact of the raw materials is dominated by resource use of minerals and metals and by climate impacts. The painted steel components (such as steel sheets) represent the largest amount of resource use, along with the electronics (mainly cables, drive package and electric motors) which consume copper. Of the raw materials, the painted steel components also cause most of the climate impacts, as do the aluminium components such as the guide profile.

The environmental impact of the use-phase electricity use is dominated by fossil resource use and climate impacts. The electricity was from an average European grid mix and stood for 32% of total climate impacts (IPCC). Hence, the model of the product system is sensitive to the source of energy in the use phase. If the product is used with wind power instead, the total climate impact per functional unit is reduced by 31%. On the other hand, if the energy source is a mix with a high share of non-renewable electricity, the total climate impact per functional unit is increased by 55%.

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