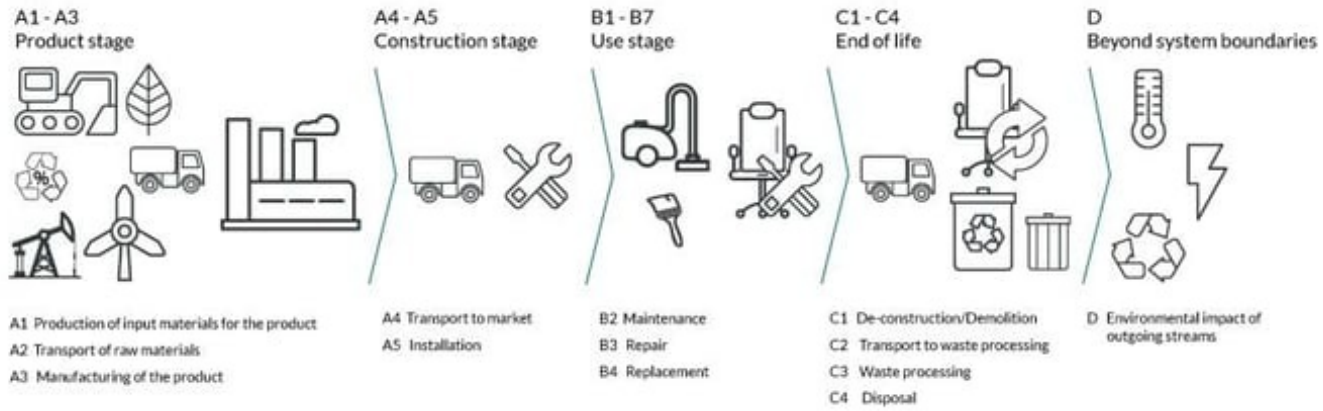
Materials	Source	Data quality	Year
Glue for wood	ecoinvent 3.6	Database	2019
Metal	ecoinvent 3.6	Database	2019
Metal - Stainless steel	ecoinvent 3.6	Database	2019
Powder coating	Ecoinvent 3.6	Database	2019
Tape	ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	ecoinvent 3.6	Database	2019
Wood	ecoinvent 3.6	Database	2019
Plastic - Polypropylene (PP)	Modified ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Insulation - stone wool	NEPD-4117-3336-EN	EPD	2021

System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Product stage			Construction installation stage		Use stage							End of life stage				Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	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	MNR	X	X	X	MNR	MNR	MNR	X	X	X	X	X

System boundary:

The analysis is a cradle-to-cradle, A1-D, where some B-stages that were assumed to be neglectable are not included. The A1-A4 stages includes the extraction and production of raw materials, transportation to the production site, the production process itself, and an estimated transport distance to the market. A5 includes the generated waste from the packaging of the product after the assembly at the customer. The only B-stage that is assumed to be relevant is B2, which includes assumptions on how the customer takes care of the product according to Abstracta's care instructions. The C- and D-stages includes the use of materials and energy for deconstruction, the transport to waste management, the waste processes, disposal of materials that cannot be processed, and the potential of reuse, recovery, and recycling of the product.



Additional technical information:

To preserve the fabric colour and the appearance of the fabric, Stitch should be vacuumed regularly with a soft nozzle.

Polyester Stain Removal: Use uncoloured paper towels or cloth to soak up as much as possible of the stain. Dried stains should be vacuumed. Moisten the stain lightly with a clean white cotton cloth, lukewarm water and possibly a small amount of pH-neutral detergent. Press a dry cloth or uncoloured paper towel against the fabric so that the moisture and dirt are absorbed. Repeat moistening and soaking until the stain is gone. Use clean water without detergent at the last moistening. Finish with soaking.

Abstracta offers a reuse service for our clients. This involves us collecting worn-out products to facilitate reuse, renovation, or recycling. In order to make circularity easier, most of our products feature replaceable parts, simplifying repair. We do this in the hope that we can help contribute in the transition to a more sustainable future. Read more about the service here: https://abstracta.se/story/abstracta-is-introducing-a-new-recycling-service-for-used-products-abstracta/ or contact our Sales Support for more information. Otherwise, try to ensure that the product can be reused when possible, or else, dismantle it so that as much of the materials can be recycled as possible.

LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Environmental impact							
Indicator		**Unit**	A1-A3	A4	A5	B2	B3
	GWP-total	kg CO_2 -eq	1,90E+01	5,80E-01	1,46E+00	1,46E-02	0
	GWP-fossil	kg CO_2 -eq	2,64E+01	5,80E-01	1,38E-02	1,36E-02	0
	GWP-biogenic	kg CO_2 -eq	-7,39E+00	2,39E-04	1,45E+00	2,48E-04	0
	GWP-luluc	kg CO_2 -eq	4,50E-02	2,08E-04	4,57E-06	7,44E-04	0
	ODP	kg CFC11 -eq	8,94E-07	1,31E-07	2,92E-09	1,47E-09	0
	AP	mol H+ -eq	2,34E-01	1,83E-03	6,54E-05	6,26E-05	0
	EP-FreshWater	kg P -eq	7,70E-04	4,61E-06	1,13E-07	8,98E-07	0
	EP-Marine	kg N -eq	3,32E-02	3,71E-04	2,16E-05	9,89E-06	0
	EP-Terrestial	mol N -eq	7,45E-01	4,15E-03	2,34E-04	1,33E-04	0
	POCP	kg NMVOC -eq	9,35E-02	1,53E-03	6,73E-05	3,11E-05	0
	ADP-minerals&metals[1]	kg Sb -eq	2,32E-02	1,59E-05	3,36E-07	2,11E-07	0
	ADP-fossil[1]	MJ	3,47E+02	8,76E+00	1,93E-01	3,67E-01	0
	WDP[1]	m^3	2,33E+03	8,42E+00	2,45E-01	2,84E+01	0

Indicator		**Unit**	B4	C1	C2	C3	C4	D
	GWP-total	kg CO_2 -eq	0	0	5,63E-02	7,20E+00	1,47E-02	-3,08E-01
	GWP-fossil	kg CO_2 -eq	0	0	5,62E-02	8,73E-01	1,47E-02	-2,98E-01
	GWP-biogenic	kg CO_2 -eq	0	0	2,33E-05	6,33E+00	1,45E-05	-5,80E-04
	GWP-luluc	kg CO_2 -eq	0	0	2,00E-05	4,31E-05	3,28E-06	-9,47E-03
	ODP	kg CFC11 -eq	0	0	1,27E-08	1,95E-08	4,23E-09	-2,00E-02
	AP	mol H+ -eq	0	0	1,62E-04	8,61E-04	1,02E-04	-2,38E-03
	EP-FreshWater	kg P -eq	0	0	4,49E-07	3,53E-06	1,61E-07	-2,58E-05
	EP-Marine	kg N -eq	0	0	3,20E-05	3,64E-04	3,44E-05	-7,63E-04
	EP-Terrestial	mol N -eq	0	0	3,58E-04	3,86E-03	3,81E-04	-8,24E-03
	POCP	kg NMVOC -eq	0	0	1,37E-04	9,58E-04	1,10E-04	-2,32E-03
	ADP-minerals&metals[1]	kg Sb -eq	0	0	1,55E-06	7,15E-07	1,10E-07	-3,13E-06
	ADP-fossil[1]	MJ	0	0	8,50E-01	9,04E-01	2,96E-01	-4,12E+00
	WDP[1]	m^3	0	0	8,23E-01	-4,31E-01	6,74E-01	-4,77E+01

GWP-total = Global Warming Potential total; 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

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

1. 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 experienced with the indicator

Remarks to environmental impacts

Additional environmental impact indicators

Indicator		Unit	A1-A3	A4	A5	B2	B3
	PM	Disease incidence	2,27E-06	3,53E-08	9,65E-10	3,32E-10	0
	IRP[2]	kgBq U235 -eq	1,23E+00	3,83E-02	8,27E-04	8,37E-03	0
	ETP-fw[1]	CTUe	4,32E+02	6,48E+00	2,58E-01	4,59E-01	0
	HTP-c[1]	CTUh	3,86E-08	0,00E+00	7,00E-12	1,10E-11	0
	HTP-nc[1]	CTUh	4,83E-07	7,08E-09	3,23E-10	2,82E-10	0
	SQP[1]	dimensionless	5,59E+02	6,08E+00	1,30E-01	2,76E-01	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	3,44E-09	9,26E-09	1,85E-09	-1,39E-07
	IRP[2]	kgBq U235 -eq	0	0	3,72E-03	3,02E-03	1,25E-03	-2,50E-02
	ETP-fw[1]	CTUe	0	0	6,30E-01	4,61E+00	2,32E-01	-2,27E+01
	HTP-c[1]	CTUh	0	0	0,00E+00	2,89E-10	7,00E-12	-5,03E-10
	HTP-nc[1]	CTUh	0	0	6,89E-10	8,62E-09	2,69E-10	-1,80E-08
	SQP[1]	dimensionless	0	0	5,95E-01	2,37E-01	6,32E-01	-2,63E+01

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Soil Quality (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

1. 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 experienced with the indicator
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.

Resource use							
Indicator		**Unit**	A1-A3	A4	A5	B2	B3
	PERE	MJ	2,85E+02	1,25E-01	3,18E-03	3,61E-01	0
	PERM	MJ	5,93E+01	0,00E+00	-5,00E+00	0,00E+00	0
	PERT	MJ	3,45E+02	1,25E-01	-4,99E+00	3,61E-01	0
	PENRE	MJ	3,14E+02	8,76E+00	1,93E-01	3,73E-01	0
	PENRM	MJ	3,38E+01	0,00E+00	0,00E+00	0,00E+00	0
	PENRT	MJ	3,48E+02	8,76E+00	1,93E-01	3,73E-01	0
	SM	kg	1,15E+00	0,00E+00	0,00E+00	0,00E+00	0
	RSF	MJ	3,04E-01	4,46E-03	1,06E-04	3,64E-03	0
	NRSF	MJ	2,58E-01	1,59E-02	4,35E-04	0,00E+00	0
	FW	m^3	2,02E-01	9,32E-04	9,12E-05	1,64E-03	0

Indicator		**Unit**	B4	C1	C2	C3	C4	D
	PERE	MJ	0	0	1,22E-02	9,55E-02	5,16E-03	-2,43E+01
	PERM	MJ	0	0	0,00E+00	-4,12E+01	0,00E+00	0,00E+00
	PERT	MJ	0	0	1,22E-02	-4,11E+01	5,16E-03	-2,43E+01
	PENRE	MJ	0	0	8,50E-01	9,51E-01	2,96E-01	-4,12E+00
	PENRM	MJ	0	0	0,00E+00	-2,55E+01	0,00E+00	0,00E+00
	PENRT	MJ	0	0	8,50E-01	-2,45E+01	2,96E-01	-4,12E+00
	SM	kg	0	0	0,00E+00	0,00E+00	6,66E-05	0,00E+00
	RSF	MJ	0	0	4,36E-04	2,16E-03	1,12E-04	-3,40E-03
	NRSF	MJ	0	0	1,56E-03	0,00E+00	1,14E-02	-1,41E+00
	FW	m^3	0	0	9,10E-05	1,40E-03	3,22E-04	-2,92E-02

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 materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

End of life - Waste

Indicator		Unit	A1-A3	A4	A5	B2	B3
	HWD	kg	1,34E-01	4,51E-04	0,00E+00	3,44E-05	0
	NHWD	kg	4,74E+00	4,23E-01	8,54E-01	2,28E-03	0
	RWD	kg	1,38E-03	5,97E-05	0,00E+00	3,84E-06	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	HWD	kg	0	0	4,39E-05	0,00E+00	1,42E-01	-3,06E-04
	NHWD	kg	0	0	4,14E-02	3,50E-01	1,70E+00	-1,02E-01
	RWD	kg	0	0	5,79E-06	0,00E+00	1,89E-06	-2,05E-05

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

End of life - Output flow

Indicator		Unit	A1-A3	A4	A5	B2	B3
	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0
	MFR	kg	9,13E-02	0,00E+00	7,94E-01	0,00E+00	0
	MER	kg	6,49E-05	0,00E+00	1,16E-06	0,00E+00	0
	EEE	MJ	1,74E-01	0,00E+00	4,88E-02	0,00E+00	0
	EET	MJ	2,64E+00	0,00E+00	7,39E-01	0,00E+00	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	CRU	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	0	0	0,00E+00	2,71E-02	6,25E-05	0,00E+00
	MER	kg	0	0	0,00E+00	4,36E+00	5,05E-07	0,00E+00
	EEE	MJ	0	0	0,00E+00	2,74E+00	4,37E-06	0,00E+00
	EET	MJ	0	0	0,00E+00	4,15E+01	6,61E-05	0,00E+00

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

Biogenic Carbon Content

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	1,34E+00
Biogenic carbon content in accompanying packaging	kg C	7,40E-01

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

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