



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Bau easy chair



LAMMHULTS

Lammhults Möbel AB

Owner of the declaration:

Product:

Bau easy chair

Declared unit:

1 pcs

This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A2:2019 serves as core

PCR

NPCR 026:2022 Part B for Furniture

Program operator:

The Norwegian EPD Foundation

Declaration number:

NEPD-7273-6675-EN

Registration number:

NEPD-7273-6675-EN

Issue date: 19.08.2024

Valid to: 19.08.2029

EPD software:

LCAno EPD generator ID: 485916

The Norwegian EPD Foundation

General information

Product

Bau easy chair

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway

Phone: +47 977 22 020 web: www.epd-norge.no

Declaration number:

NEPD-7273-6675-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 026:2022 Part B for Furniture

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 pcs Bau easy chair

Declared unit (cradle to gate) with option:

A1-A3,A4,A5,B2,B3,B4,C1,C2,C3,C4,D

Functional unit:

Bau easy chair straight

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Elisabet Amat, GREENIZE projects

(no signature required)

Owner of the declaration:

Lammhults Möbel AB Contact person: Helena Kumlin Phone: +46 472 26 95 00 e-mail: Helena.kumlin@lammhults.se

Manufacturer:

Lammhults Möbel AB

Place of production:

Lammhults Möbel AB Växjövägen 41 SE-363 45 Lammhult, Sweden

Management system:

ISO 14001, 9001, 45001

Organisation no:

556058-2602

Issue date:

19.08.2024

Valid to:

19.08.2029

Year of study:

2023

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD: Alexandra Lidnert

Reviewer of company-specific input data and EPD: Lovisa Aiff

Approved:

Håkon Hauar

Managing Director of EPD-Norway

Product

Product description:

Bau, designed by Note (design studio), is a modular seating series that ignores conventional ideas of right and wrong. Bau is softer, lower, and more eccentric than the often somewhat rigid and conformist modular systems to which we have become accustomed. It can be employed as a solitary easy chair or combined to create a playful variety of seating configurations. The collection includes a linking table, whose geometrical edginess contrasts with the sofa's laid-back personality.

Product specification

Bau consist of 6 modular units. Shell of fibre board with high resilient polyurethane foam. Adjustable glides. All modules can be used as solitaires or be linked with an additional linking device. Linking table, 300x490 mm, table top of 3 mm texture powder coated sheet metal.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Glue for wood	0,60	2,60	0,00	0,00
Metal - Steel	0,19	0,80	0,00	0,00
Plastic - Polyethylene (LDPE)	0,02	0,10	0,00	0,00
Plastic - Polypropylene (PP)	0,01	0,05	0,00	0,00
Plastic - Polyurethane (PUR)	7,28	31,51	0,00	0,00
Textile - Polyester (PE)	0,89	3,84	0,00	0,00
Textile - Wool	1,28	5,53	0,00	0,00
Wood - Plywood	12,84	55,56	0,00	0,00
Total	23,10	100,00	0,00	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	1,14	28,66	0,00	0,00
Packaging - Plastic	0,18	4,47	0,00	0,00
Recycled cardboard	2,66	66,87	2,66	100,00
Total incl. packaging	27,08	100,00	2,66	

Technical data:

Height 72cm Width 75cm Depth 90cm Seat height 39cm

Bau easy chair meets the requirements of EN 16139:2013 and Möbelfakta

Market:

Available world wide

Reference service life, product

15 years (warranty 5 years)

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs Bau easy chair

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

Allocation

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis.

Data quality:

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Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other LCA databases. The data quality of the raw materials in A1 is presented in the table below.

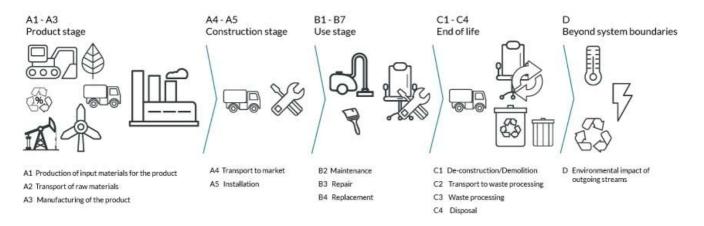
Materials	Source	Data quality	Year
Glue for wood	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Packaging - Cardboard	Modified ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Polyethylene (LDPE)	ecoinvent 3.6	Database	2019
Plastic - Polypropylene (PP)	ecoinvent 3.6	Database	2019
Plastic - Polyurethane (PUR)	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	ecoinvent 3.6	Database	2019
Textile - Wool	Modified ecoinvent 3.6	Database	2019
Wood - Plywood	modified ecoinvent 3.6	Database	2019

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

Р	roduct stag	ge	Construction installation stage		Use stage				Use stage End of life stage Beyond the sys boundaries			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	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
Χ	Χ	Χ	Χ	Χ	MND	X	Χ	Χ	MND	MND	MND	Χ	X	X	Χ	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 Lammhults' 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:

https://www.lammhults.se/products/modular-seating/bau

 $Lammhults\ Care\ \&\ Maintenance:\ https://issuu.com/lammhults/docs/lammhultscaremaintenance 2205$

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Some assumptions have been made regarding the products lifetime after leaving the factory gates. The product is assumed to be transported to the capitol of each country sold/delivered to. An average distance (A4) to the customer has been calculated through this data. In the A5 phase, the packaging of the product becomes waste, and the impacts are added automatically according to assumptions made in the EPD tool on waste handling on-site. In the use stage, the assumption is that the customer takes care of the product by vacuuming the product twice a year. For the end-of-life stage of the product, it has been assumed that there is a 50 km distance from the customer to a waste terminal. The rest of the values are automatically filled in by the tool. For the D-stage, automatic values are filled in, according to generic data.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	548	0,043	l/tkm	23,56
Assembly (A5)	Unit	Value			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	2,66			
Waste, packaging, corrugated board box, 0 % recycled, to average treatment (kg)	kg	1,14			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0,18			
Maintenance (B2)	Unit	Value			
Electricity, European average (kWh)	kWh/DU	0,35			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, over 32 tonnes, EURO 6 (km)	53,3 %	50	0,023	l/tkm	1,15
Waste processing (C3)	Unit	Value			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,60			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0,02			
Waste treatment per kg Polypropylene (PP), incineration with fly ash extraction - C3 (kg)	kg	0,01			
Waste treatment per kg Polyurethane (PU), incineration (kg)	kg	7,28			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	0,19			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	2,17			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	12,84			
Waste, materials to recycling (kg)	kg	0,06			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from					
incineration of Scrap steel (kg)	kg	0,12			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0,11			
Landfilling of ashes from incineration of Polyethylene, PE, process per kg ashes and residues - C4 (kg)	kg	0,00			
Landfilling of ashes from incineration of Polypropylene, PP, process per kg ashes and residues - C4 (kg)	kg	0,00			
Landfilling of ashes from incineration of Polyurethane (PU), process per kg ashes and residues - C4 (kg)	kg	0,28			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,11			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0,15			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	21,19			
Substitution of primary steel with net scrap (kg)	kg	0,05			
Substitution of thermal energy, district heating, in	MJ				
Norway (MJ)	IVIJ	320,55			

LCA: Results

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

Environme	ental impact							
	Indicator	Uni	t	A1-A3	A4	A5	B2	В3
	GWP-total	kg CO ₂	-eq	1,15E+02	2,43E+00	6,53E+00	1,50E-01	0
	GWP-fossil	kg CO ₂	kg CO ₂ -eq		2,42E+00	7,56E-02	1,48E-01	0
	GWP-biogenic	kg CO ₂	-eq	1,20E+01	1,00E-03	6,45E+00	1,04E-03	0
	GWP-luluc	kg CO ₂	-eq	5,95E+00	8,63E-04	2,14E-05	3,45E-04	0
Ö	ODP	kg CFC1	1 -eq	5,89E-06	5,49E-07	1,38E-08	1,26E-08	0
	АР	mol H+	-eq	1,80E+00	6,97E-03	3,08E-04	8,67E-04	0
4	EP-FreshWater	kg P -	eq	1,78E-02	1,94E-05	5,34E-07	1,58E-05	0
4	EP-Marine	kg N -	eq	3,43E-01	1,38E-03	1,12E-04	1,10E-04	0
**	EP-Terrestial	mol N	-eq	7,00E+00	1,54E-02	1,10E-03	1,36E-03	0
	POCP	kg NMVC	OC -eq	4,02E-01	5,91E-03	3,20E-04	3,44E-04	0
	ADP-minerals&metals ¹	kg Sb-	eq	1,67E-03	6,70E-05	1,57E-06	1,09E-06	0
	ADP-fossil ¹	MJ		1,60E+03	3,66E+01	9,18E-01	3,06E+00	0
<u>%</u>	WDP ¹	m ³		2,74E+04	3,54E+01	1,30E+00	4,60E+01	0
	Indicator	Unit	B4	C1	C2	C3	C4	D
	GWP-total	kg CO ₂ -eq	0	0	1,18E-01	4,58E+01	8,10E-02	-1,98E+00
	GWP-fossil	kg CO ₂ -eq	0	0	1,18E-01	2,12E+01	8,10E-02	-1,91E+00
	GWP-biogenic	kg CO ₂ -eq	0	0	5,05E-05	2,46E+01	4,94E-05	-3,87E-03
	GWP-luluc	kg CO ₂ -eq	0	0	3,59E-05	4,71E-04	9,48E-06	-6,40E-02
Ö	ODP	kg CFC11 -eq	0	0	2,84E-08	2,63E-07	5,62E-09	-1,35E-01
Œ	АР	mol H+ -eq	0	0	3,80E-04	2,10E-02	2,06E-04	-1,56E-02
	EP-FreshWater	kg P -eq	0	0	9,38E-07	4,03E-05	9,07E-07	-1,68E-04
	EP-Marine	kg N -eq	0	0	8,32E-05	1,09E-02	5,89E-05	-5,06E-03
	EP-Terrestial	mol N -eq	0	0	9,27E-04	1,06E-01	6,80E-04	-5,47E-02
	POCP	kg NMVOC -eq	0	0	3,64E-04	2,54E-02	1,88E-04	-1,52E-02
	POCP ADP-minerals&metals ¹	kg NMVOC -eq kg Sb-eq	0	0	3,64E-04 2,10E-06	2,54E-02 8,73E-06	1,88E-04 2,51E-07	-1,52E-02 -1,94E-05

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

Remarks to environmental impacts

[&]quot;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

Additional er	nvironmental impac	t indicators						
	Indicator	Unit		A1-A3	A4	A5	B2	В3
	PM	Disease incidence		2,19E-05	1,48E-07	4,61E-09	2,27E-09	0
(m) P	IRP ²	kgBq U235 -eq		1,09E+01	1,60E-01	3,94E-03	2,68E-02	0
42	ETP-fw ¹	CTUe		4,20E+03	2,72E+01	1,20E+00	2,15E+00	0
40. ************************************	HTP-c ¹	CTUh		1,40E-07	0,00E+00	3,50E-11	6,00E-11	0
4° E	HTP-nc ¹	CTUh		1,76E-06	2,97E-08	1,49E-09	2,07E-09	0
	SQP ¹	dimensionless		-4,73E+04	2,56E+01	6,78E-01	7,40E-01	0
I	ndicator	Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	1,08E-08	1,06E-07	1,97E-09	-9,32E-07
	IRP ²	kgBq U235 -eq	0	0	8,37E-03	3,96E-02	2,61E-03	-1,70E-01
	ETP-fw ¹	CTUe	0	0	1,40E+00	7,97E+01	1,20E+00	-1,48E+02
40.4	HTP-c ¹	CTUh	0	0	0,00E+00	3,02E-09	6,20E-11	-2,91E-09
%° €	HTP-nc ¹	CTUh	0	0	1,35E-09	8,64E-08	2,30E-09	-1,33E-07

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)

2,20E+00

3,23E+00

1,48E+00

-1,78E+02

dimensionless

SQP¹

[&]quot;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.

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Resource use									
W 3	Indicator		U	nit	A1-A3	A4	A5	B2	В3
	PERE		N	۷J	1,29E+03	5,25E-01	1,56E-02	5,93E-01	0
	PERM		N	۷J	2,41E+02	0,00E+00	-3,37E+01	0,00E+00	0
Ţ,	PERT		N	۷J	1,53E+03	5,25E-01	-3,37E+01	5,93E-01	0
	PENRE		N	ΛJ	1,39E+03	3,67E+01	9,18E-01	3,07E+00	0
4	PENRM		N	NJ	2,54E+02	0,00E+00	-7,56E+00	0,00E+00	0
IA	PENRT		N	NJ	1,64E+03	3,67E+01	-6,64E+00	3,07E+00	0
	SM		k	¢g	2,66E+00	0,00E+00	0,00E+00	0,00E+00	0
2	RSF		N	NJ	8,10E-01	1,88E-02	5,08E-04	4,33E-02	0
	NRSF		MJ		2,21E+00	6,71E-02	2,04E-03	1,03E-02	0
%	FW		m ³		2,13E+00	3,92E-03	4,37E-04	2,60E-03	0
			n	n	2,13E+00	3,32L-03	4,37L-04	2,00L-03	U
Inc	dicator	U	n I nit	n ³ B4	2,13E+00	3,92L-03	C3	C4	D
Inc	dicator	N	nit	B4	C1	C2	C3	C4	D
ুন ুই	dicator PERE	V	n it MJ	B4 0	C1 0	C2 2,41E-02	C3 1,26E+00	C4 4,51E-02	D -1,64E+02
Inc	dicator PERE PERM	N N	nit MJ	0 0	C1 0	C2 2,41E-02 0,00E+00	C3 1,26E+00 -2,08E+02	C4 4,51E-02 0,00E+00	D -1,64E+02 0,00E+00
Inc	PERE PERM PERT	N N	MJ	B4 0 0 0	C1 0 0	C2 2,41E-02 0,00E+00 2,41E-02	C3 1,26E+00 -2,08E+02 -2,06E+02	C4 4,51E-02 0,00E+00 4,51E-02	D -1,64E+02 0,00E+00 -1,64E+02
Inc	PERE PERM PERT PENRE	N N N	MI MI MI	B4 0 0 0 0	C1 0 0 0	C2 2,41E-02 0,00E+00 2,41E-02 1,92E+00	C3 1,26E+00 -2,08E+02 -2,06E+02 1,48E+01	C4 4,51E-02 0,00E+00 4,51E-02 5,07E-01	D -1,64E+02 0,00E+00 -1,64E+02 -2,70E+01
	PERE PERM PERT PENRE PENRM	N N N	MI MI MI MI	B4 0 0 0 0 0	C1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C2 2,41E-02 0,00E+00 2,41E-02 1,92E+00 0,00E+00	C3 1,26E+00 -2,08E+02 -2,06E+02 1,48E+01 -2,46E+02	C4 4,51E-02 0,00E+00 4,51E-02 5,07E-01 0,00E+00	D -1,64E+02 0,00E+00 -1,64E+02 -2,70E+01 0,00E+00
	PERE PERM PERT PENRE PENRM PENRM	N N N N	MI MI MI MI	B4 0 0 0 0 0 0	C1 0 0 0 0 0	C2 2,41E-02 0,00E+00 2,41E-02 1,92E+00 0,00E+00 1,92E+00	C3 1,26E+00 -2,08E+02 -2,06E+02 1,48E+01 -2,46E+02 -2,31E+02	C4 4,51E-02 0,00E+00 4,51E-02 5,07E-01 0,00E+00 5,07E-01	D -1,64E+02 0,00E+00 -1,64E+02 -2,70E+01 0,00E+00 -2,70E+01
	PERE PERM PERT PENRE PENRM PENRT SM	N N N N	MI MI MI MI MI Kg	B4 0 0 0 0 0 0	C1 0 0 0 0 0 0	C2 2,41E-02 0,00E+00 2,41E-02 1,92E+00 0,00E+00 1,92E+00 0,00E+00	C3 1,26E+00 -2,08E+02 -2,06E+02 1,48E+01 -2,46E+02 -2,31E+02 0,00E+00	C4 4,51E-02 0,00E+00 4,51E-02 5,07E-01 0,00E+00 5,07E-01 0,00E+00	D -1,64E+02 0,00E+00 -1,64E+02 -2,70E+01 0,00E+00 -2,70E+01 0,00E+00

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 resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; PENRM = 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

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End of life - Waste									
	Indicator			nit	A1-A3	A4	A5	B2	В3
	HWD	ЧWD		g	1,84E+00	1,89E-03	0,00E+00	4,61E-04	0
Ī	NHWD		k	g	1,25E+01	1,78E+00	3,98E+00	1,04E-02	0
₩ ₩	RWD		kg		6,60E-03	2,50E-04	0,00E+00	2,19E-05	0
In	dicator		Unit	B4	C1	C2	C3	C4	D
Ā	HWD		kg	0	0	1,05E-04	0,00E+00	4,41E-01	-1,53E-03
Ū	NHWD		kg	0	0	1,66E-01	6,00E-01	3,68E-01	-6,50E-01
3	RWD		kg	0	0	1,31E-05	0,00E+00	1,59E-06	-1,39E-04

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								
Ind	icator	Uni	Unit		A4	A5	B2	В3
®▷	CRU	kg	kg		0,00E+00	0,00E+00	0,00E+00	0
&>	MFR	kg		1,51E+00	0,00E+00	3,63E+00	0,00E+00	0
Þ₹	MER	kg		2,23E+00	0,00E+00	1,41E-05	0,00E+00	0
50	EEE	MJ		1,10E+00	0,00E+00	2,17E-01	0,00E+00	0
D	EET	MJ		1,67E+01	0,00E+00	3,29E+00	0,00E+00	0
Indicato	or	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	6,28E-02	0,00E+00	0,00E+00
DF	MER	kg	0	0	0,00E+00	2,31E+01	0,00E+00	0,00E+00
₹ D	EEE	MJ	0	0	0,00E+00	2,07E+01	0,00E+00	0,00E+00
DØ	EET	MJ	0	0	0,00E+00	3,14E+02	0,00E+00	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									
Unit	At the factory gate								
kg C	5,83E+00								
kg C	1,76E+00								
	kg C								

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

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Source	Amount	Unit
Electricity, Sweden (kWh)	ecoinvent 3.6	54,94	g CO2-eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO ₂ -eq	115,38	2,43	170,44	168,46
Total energy consumption	MJ	2678,81	37,26	2739,36	2538,46
Amount of recycled materials	%	4.99			

Additional environmental impact indicators required in NPCR Part A for construction products							
Indicator	Unit	Unit		A4	A5	B2	В3
GWPIOBC	kg CO ₂ -eq	kg CO ₂ -eq		2,43E+00	7,56E-02	1,61E-01	0
Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	1,18E-01	2,47E+01	8,88E-02	-1,98E+00

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

Variants and Options

Key environmental indicators (A1-A3) for variants of this EPD				
Variants	Weight (kg)	GWPtotal (kg CO ₂ -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)
Bau easy chair closed	29,33	129,96	2921,09	10,16
Bau easy chair open	30,98	115,11	2995,25	9,62
Bau pouf closed	24,04	112,56	2410,82	10,93
Bau pouf straight	20,28	96,45	2027,49	12,95
Bau pouf open	23,02	106,33	2299,88	11,41

Key environmental indicators (A1-A3) for options for this EPD					
Options	Weight (kg)	GWPtotal (kg CO ₂ -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)	
Bau linking table	9,39	36,98	813,38	9,09	

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