

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Ada Wide High, padded arms - Four Legs







LK HJEIIE

The Norwegian EPD Foundation

Owner of the declaration: Hjelle AS

Product: Ada Wide High, padded arms - Four Legs

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-8835-8505

Registration number: NEPD-8835-8505

Issue date: 27.01.2025

Valid to: 27.01.2030

EPD software: LCAno EPD generator ID: 769722

General information

Product

Ada Wide High, padded arms - Four Legs

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-8835-8505

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 Ada Wide High, padded arms - Four Legs

Declared unit (cradle to gate) with option: A1-A3,A4,A5,B2,B3,B4,C1,C2,C3,C4,D

Functional unit:

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:

Hjelle AS Contact person: Jahn Marius Larsen Phone: 92048833 e-mail: jahn@hjelle.no

Manufacturer:

Hjelle AS

Place of production:

Hjelle AS Vikøyra Industriområde 3 6230 Sykkylven, Norway

Management system:

Organisation no:

912684261

Issue date:

27.01.2025

Valid to: 27.01.2030

Year of study:

2024

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: Jahn Marius Larsen

Reviewer of company-specific input data and EPD: Elisabeth Hurlen

Approved:

Håkon Hauan, CEO EPD-Norge

Product

Product description:

Ada is petite and delicate, but welcomes you with an outstanding comfort with extra focus on lumbar support. This distinctive combination provides the ideal seating solution for long dinners, office environments, or corporate conference rooms. With a big range of customization options, Ada can be used in any environment. With a selection of four leg choices, two width variations, two height options, and two unique armrest designs, Ada offers great adaptability to suit any setting or purpose.

Product specification

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Plastic - Polyethylene (LDPE)	0,05	0,42	0,00	0,00
Textile - Wool	0,47	4,28	0,05	11,20
Metal - Steel	7,80	71,47	0,00	0,00
Plastic - Polyurethane (PUR)	2,60	23,82	0,00	0,00
Total	10,91	100,00	0,05	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0,86	56,58	0,00	0,00
Packaging - Plastic	0,01	0,66	0,00	0,00
Recycled cardboard	0,65	42,76	0,65	100,00
Total incl. packaging	12,43	100,00	0,70	

Technical data:

Width: 59cm Height: 104cm Depth: 60cm Seat hight: 48cm

Market:

Worldwide

Reference service life, product

Reference service life, building

15 years

LCA: Calculation rules

Declared unit:

1 pcs Ada Wide High, padded arms - Four Legs

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:

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
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 - Polyurethane (PUR)	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Textile - Wool	MD-23110-EN_rev1	EPD	2021



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

System boundary:



Additional technical information:

Transportation to an average customer in Oslo is 600km (A4: average European lorry >32 tonnes)

LCA: Scenarios and additional technical information

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

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonn <u>e)</u>
Truck, over 32 tonnes, EURO 6 (km)	53,3 %	600	0,023	l/tkm	13,80
Assembly (A5)	Unit	Value			
Waste, packaging, corrugated board box, 0 % recycled, to average treatment (kg)	kg	0,86			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	0,65			
Waste, packaging, plastic tape, to average treatment (kg)	kg	0,010			
Waste processing (C3)	Unit	Value			
Waste, materials to recycling (kg)	kg	2,64			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	7,80			
Waste treatment per kg Polyurethane (PU), incineration (kg)	kg	2,60			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	0,46			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0,046			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	5,15			
Landfilling of ashes from incineration of Polyurethane (PU), process per kg ashes and residues - C4 (kg)	kg	0,098			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,023			
Landfilling of ashes from incineration of Polyethylene, PE, process per kg ashes and residues - C4 (kg)	kg	0,0016			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary steel with net scrap (kg)	kg	2,64			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	63,042			
Substitution of electricity, in Norway (MJ)	MJ	4,16			

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
Ð	GWP-total		kg CO ₂ -e	eq	6,01E+01	6,50E-01	2,59E+00	0	0
P	GWP-fossil		kg CO ₂ -e	eq	6,00E+01	6,50E-01	2,52E-02	0	0
P	GWP-biogenic		kg CO ₂ -e	eq	6,91E-02	2,78E-04	2,56E+00	0	0
P	GWP-luluc		kg CO ₂ -e	eq	4,56E-02	1,98E-04	8,14E-06	0	0
Ò	ODP		kg CFC11 -	-eq	2,81E-06	1,57E-07	5,21E-09	0	0
(All	AP		mol H+ -e	eq	2,63E-01	2,09E-03	1,17E-04	0	0
æ	EP-FreshWater		kg P -ec	1	3,18E-03	5,17E-06	2,02E-07	0	0
æ	EP-Marine		kg N -ec	1	5,58E-02	4,58E-04	3,92E-05	0	0
æ	EP-Terrestial		mol N -e	q	5,71E-01	5,11E-03	4,18E-04	0	0
	POCP		kg NMVOC	-eq	1,93E-01	2,01E-03	1,20E-04	0	0
e Al	ADP-minerals&metals ¹		kg Sb-eo	7	8,38E-04	1,16E-05	5,99E-07	0	0
B	ADP-fossil ¹		MJ		8,32E+02	1,06E+01	3,45E-01	0	0
%	WDP ¹		m ³		3,17E+03	8,09E+00	4,45E-01	0	0
\sim									
<u> </u>	Indicator		Unit	B4	C1	C2	C3	C4	D
P	Indicator GWP-total		Unit kg CO ₂ -eq	B4 0	C1 0	C2 0	C3 8,63E+00	C4 6,38E-02	D -3,29E+00
P P	Indicator GWP-total GWP-fossil		Unit kg CO ₂ -eq kg CO ₂ -eq	<u>В4</u> О О	C1 0 0	C2 0 0	C3 8,63E+00 7,17E+00	C4 6,38E-02 6,37E-02	D -3,29E+00 -3,28E+00
P P	Indicator GWP-total GWP-fossil GWP-biogenic		Unit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq	B4 0 0 0	C1 0 0 0	C2 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00	C4 6,38E-02 6,37E-02 4,92E-05	D -3,29E+00 -3,28E+00 -2,36E-03
P P P P	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc		Unit kg CO2 - eq	B4 0 0 0	C1 0 0 0 0	C2 0 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00 4,97E-05	C4 6,38E-02 6,37E-02 4,92E-05 1,83E-05	D -3,29E+00 -3,28E+00 -2,36E-03 -1,39E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP		Unit kg CO2 - eq	B4 0 0 0 0 0	C1 0 0 0 0 0	C2 0 0 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00 4,97E-05 3,79E-08	C4 6,38E-02 6,37E-02 4,92E-05 1,83E-05 1,84E-08	D -3,29E+00 -3,28E+00 -2,36E-03 -1,39E-02 -2,66E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP		Unit kg CO2 - eq mol H+ - eq	B4 0 0 0 0 0 0	C1 0 0 0 0 0 0 0	C2 0 0 0 0 0 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00 4,97E-05 3,79E-08 6,32E-03	C4 6,38E-02 6,37E-02 4,92E-05 1,83E-05 1,84E-08 4,27E-04	D -3,29E+00 -3,28E+00 -2,36E-03 -1,39E-02 -2,66E-02 -1,75E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater		Unit kg CO2 - eq kg CP2 - eq kg P - eq	B4 0 0 0 0 0 0 0 0 0	C1 0 0 0 0 0 0 0 0	C2 0 0 0 0 0 0 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00 4,97E-05 3,79E-08 6,32E-03 3,20E-06	C4 6,38E-02 6,37E-02 4,92E-05 1,83E-05 1,84E-08 4,27E-04 6,59E-07	D -3,29E+00 -3,28E+00 -2,36E-03 -1,39E-02 -2,66E-02 -1,75E-02 -2,12E-04
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine		Unit kg CO2 - eq kg P - eq kg N - eq	B4 0 0 0 0 0 0 0 0 0 0	C1 0 0 0 0 0 0 0 0 0 0	C2 0 0 0 0 0 0 0 0 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00 4,97E-05 3,79E-08 6,32E-03 3,20E-06 3,50E-03	C4 6,38E-02 6,37E-02 4,92E-05 1,83E-05 1,84E-08 4,27E-04 6,59E-07 1,51E-04	D -3,29E+00 -3,28E+00 -2,36E-03 -1,39E-02 -2,66E-02 -1,75E-02 -2,12E-04 -3,98E-03
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial		Unit kg CO2 - eq kg P - eq kg N - eq mol N - eq	B4 0 0 0 0 0 0 0 0 0 0 0 0	C1 0 0 0 0 0 0 0 0 0 0 0 0	C2 0 0 0 0 0 0 0 0 0 0 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00 4,97E-05 3,79E-08 6,32E-03 3,20E-06 3,50E-03 3,36E-02	C4 6,38E-02 6,37E-02 4,92E-05 1,83E-05 1,84E-08 4,27E-04 6,59E-07 1,51E-04 1,68E-03	D -3,29E+00 -3,28E+00 -2,36E-03 -1,39E-02 -2,66E-02 -1,75E-02 -2,12E-04 -3,98E-03 -4,13E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial POCP	l	Unit kg CO2 - eq kg P - eq kg N - eq mol N - eq g NMVOC - eq	B4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00 4,97E-05 3,79E-08 6,32E-03 3,20E-06 3,50E-03 3,36E-02 8,02E-03	C4 6,38E-02 6,37E-02 4,92E-05 1,83E-05 1,84E-08 4,27E-04 6,59E-07 1,51E-04 1,68E-03 4,82E-04	D -3,29E+00 -3,28E+00 -2,36E-03 -1,39E-02 -2,66E-02 -2,12E-04 -3,98E-03 -3,98E-03 -4,13E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial POCP ADP-minerals&metals ¹	l	Unit kg CO2 - eq kg P - eq kg N - eq mol N - eq g NMVOC - eq kg Sb- eq	B4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00 4,97E-05 3,79E-08 6,32E-03 3,20E-06 3,50E-03 3,36E-02 8,02E-03 1,47E-06	C4 6,38E-02 6,37E-02 4,92E-05 1,83E-05 1,84E-08 4,27E-04 6,59E-07 1,51E-04 1,68E-03 4,82E-04 1,02E-06	D -3,29E+00 -3,28E+00 -2,36E-03 -1,39E-02 -2,66E-02 -1,75E-02 -3,98E-03 -4,13E-02 -1,75E-02 -1,75E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial POCP ADP-minerals&metals ¹ ADP-fossil ¹	k	Unit kg CO2 - eq kg P - eq kg N - eq mol N - eq g NMVOC - eq kg Sb- eq MJ	B4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	C3 8,63E+00 7,17E+00 1,45E+00 4,97E-05 3,79E-08 6,32E-03 3,20E-06 3,30E-02 8,02E-03 1,47E-06 3,17E+00	C4 6,38E-02 6,37E-02 4,92E-05 1,83E-05 1,84E-08 4,27E-04 6,59E-07 1,51E-04 1,68E-03 4,82E-04 1,02E-06 1,37E+00	D -3,29E+00 -3,28E+00 -2,36E-03 -1,39E-02 -2,66E-02 -1,75E-02 -2,12E-04 -3,98E-03 -3,98E-03 -4,13E-02 -1,75E-02 -5,39E-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

"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		3,86E-06	5,97E-08	1,73E-09	0	0
(**) B	IRP ²	kgBq U235 -eq		2,10E+00	4,61E-02	1,48E-03	0	0
	ETP-fw ¹	CTUe		2,20E+03	7,72E+00	4,59E-01	0	0
44 * ****	HTP-c ¹	CTUh		1,97E-07	0,00E+00	1,40E-11	0	0
4 <u>8</u>	HTP-nc ¹	CTUh		1,70E-06	7,46E-09	5,75E-10	0	0
è	SQP ¹	dimensionless	dimensionless		1,21E+01	2,35E-01	0	0
Ir	ndicator	Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	0	3,25E-08	7,68E-09	-4,24E-07
(m) 2	IRP ²	kgBq U235 -eq	0	0	0	5,24E-03	5,52E-03	-2,29E-02
 	ETP-fw ¹	CTUe	0	0	0	2,08E+01	8,82E-01	-1,91E+02
40-* *** *	HTP-c ¹	CTUh	0	0	0	8,18E-10	3,30E-11	-1,45E-08
80 E	HTP-nc ¹	CTUh	0	0	0	2,15E-08	9,38E-10	2,77E-07
è	SQP ¹	dimensionless	0	0	0	3,89E-01	3,01E+00	-3,68E+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		U	nit	A1-A3	A4	A5	B2	B3
Š	PERE		MJ		2,05E+02	1,33E-01	5,71E-03	0	0
	PERM	PERM		٨J	2,03E+01	0,00E+00	-1,75E+01	0	0
° € ₁	PERT		Ν	J	2,25E+02	1,33E-01	-1,75E+01	0	0
Ð	PENRE		Ν	J	7,84E+02	1,06E+01	3,45E-01	0	0
eå.	PENRM		Ν	٨J	8,32E+01	0,00E+00	-3,66E-01	0	0
IA	PENRT		Ν	٨J	8,68E+02	1,06E+01	-2,08E-02	0	0
	SM		k	٨g	7,02E-01	0,00E+00	0,00E+00	0	0
1	RSF		Ν	LN	1,61E+00	4,64E-03	1,89E-04	0	0
Ū.	NRSF		MJ		1,21E+01	1,56E-02	7,75E-04	0	0
(%)	FW		n	n ³	1,30E+00	1,20E-03	1,63E-04	0	0
I	ndicator	ι	Jnit	B4	C1	C2	C3	C4	D
i. B	PERE		MJ	0	0	0	9,34E-02	2,78E-02	-3,43E+01
B	PERM		MJ	0	0	0	-2,82E+00	0,00E+00	0,00E+00
° ₹ s	PERT		MJ	0	0	0	-2,73E+00	2,78E-02	-3,43E+01
B	PENRE		MJ	0	0	0	3,18E+00	1,37E+00	-2,97E+01
Åa	PENRM		MJ	0	0	0	-8,28E+01	0,00E+00	0,00E+00
IA	PENRT		MJ	0	0	0	-7,97E+01	1,37E+00	-2,97E+01
	SM		kg	0	0	0	0,00E+00	0,00E+00	0,00E+00
2	RSF		MJ	0	0	0	2,17E-03	7,30E-04	9,95E-02
1. Ale and the second s	NRSF		MJ	0	0	0	0,00E+00	3,98E-02	1,15E+00
\$	FW		m ³	0	0	0	1,08E-02	1,23E-03	-4,50E-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; SENRE = Use of non renewable primary energy resources; SENRE = Use of non renewable primary energy resources; SENRE = Use of non renewable primary energy resources; SENRE = Use of secondary 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	k	g	9,10E-01	5,77E-04	0,00E+00	0	0
Ū	NHWD	k	g	1,23E+01	9,17E-01	1,52E+00	0	0
%	RWD	kg		3,79E-03	7,21E-05	0,00E+00	0	0
In	dicator	Unit	B4	C1	C2	C3	C4	D
A	HWD	kg	0	0	0	0,00E+00	5,20E+00	-1,54E-02
Ū	NHWD	kg	0	0	0	0,00E+00	1,05E-01	-1,31E+00
8	RWD	kg	0	0	0	0,00E+00	8,39E-06	-1,93E-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									
Ind	icator	Un	it	A1-A3	A4	A5	B2	B3	
¢۵	CRU	kg		0,00E+00	0,00E+00	0,00E+00	0	0	
\$\$	MFR	kg	I	7,67E-01	0,00E+00	1,41E+00	0	0	
DF	MER	kg	I	2,94E+00	0,00E+00	2,56E-06	0	0	
50	EEE	M.	J	1,79E+00	0,00E+00	8,64E-02	0	0	
DI	EET	M.	MJ		0,00E+00	1,31E+00	0	0	
Indicato	or	Unit	B4	C1	C2	C3	C4	D	
ÔÞ	CRU	kg	0	0	0	0,00E+00	0,00E+00	0,00E+00	
\$D	MFR	kg	0	0	0	2,65E+00	0,00E+00	0,00E+00	
DF	MER	kg	0	0	0	1,09E+01	0,00E+00	0,00E+00	
50	EEE	MJ	0	0	0	4,28E+00	0,00E+00	0,00E+00	
DI	EET	MJ	0	0	0	6,48E+01	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

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	2,10E-01
Biogenic carbon content in accompanying packaging	kg C	6,99E-01

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, Norway (kWh)	ecoinvent 3.6	24,33	g CO2-eq/kWh

Dangerous substances

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

Indoor environment

Our furniture does not contain any substrates that affect indoor climate.

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO ₂ -eq	60,08	0,65	72,01	68,72
Total energy consumption	MJ	1002,84	10,71	1018,61	955,86
Amount of recycled materials	%	5,64			

Additional environmental impact indicators required in NPCR Part A for construction products								
Indicator	Unit		A1-A3	A4	A5	B2	B3	
GWPIOBC	kg CO ₂ -eq	kg CO ₂ -eq			2,52E-02	0	0	
Indicator	Unit	B4	C1	C2	C3	C4	D	
GWPIOBC	kg CO ₂ -eq	0	0	0	7,93E+00	6,56E-02	-4,74E+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 (%)				
Ada Wide High, padded arms - Swing	14,14	121,18	1676,16	4,97				
Ada Wide High, padded arms - Sled	13,24	63,55	1051,46	5,31				
Ada Wide High, padded arms - Office	13,64	115,22	1627,29	4,81				
Ada Wide High, padded arms - Conference	14,14	111,36	1579,20	4,97				

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NPCR Part A: Construction products and services. Ver. 2.0. March 2021, EPD-Norge. NPCR 026 Part B for Furniture. Ver. 2.0 March 2022, EPD-Norge.

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