

ENVIRONMENTAL PRODUCT DECLARATION

in accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:	Kinnarps AB
Program operator:	The Norwegian EPD Foundation
Publisher:	The Norwegian EPD Foundation
Declaration number:	NEPD-3608-2543-EN
Registration number:	NEPD-3608-2543-EN
ECO Platform reference number:	-
Issue date:	30.06.2022
Valid to:	30.06.2027

Task chair Salida

Kinnarps AB



www.epd-norge.no



General information

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Program operator: The Norwegian EPD Foundation Pb. 5250 Majorstuen, 0303 Oslo Phone: +47 23 08 80 00 e-mail: post@epd-norge.no	Manufacturer: Kinnarps AB
Declaration number: NEPD-3608-2543-EN	Place of production: Kinnarps AB Industrigatan 521 88 Kinnarp Sweden
ECO Platform reference number:	Management system: ISO 9001, ISO 14001, ISO 45001, FSC® (C010544)
This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A1:2013 serves as core PCR NPCR 026:2018 Part B for furniture	Organisation no: 556256-6736
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.	Issue date: 30.06.2022
Declared unit: 1 Pcs Task chair Salida	Valid to: 30.06.2027
Declared unit with option: A1,A2,A3,A4	Year of study: 2022
Functional unit:	Comparability: EPDs from programmes other than the Norwegian EPD Foundation may not be comparable
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. Individual third party verification of each EPD is not required when the EPD tool is i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPDNorway, and iii) the process is reviewed annually. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools.	Development and verification of EPD: The declaration has been developed and verified using EPD tool lca.tools ver EPD2020.11, developed by LCA.no AS. The EPD tool is integrated into the company's environmental management system, and has been approved by EPD-Norway
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.	Developer of EPD: Isabell Vesterberg Reviewer of company-specific input data and EPD: Rickard Thil
Erik Svanes, Norsus AS (no signature required)	Approved: <div style="text-align: center;"> Sign  Håkon Hauan, CEO EPD-Norge </div>

Key environmental indicators	Unit	Cradle to gate A1 - A3
Global warming	kg CO2 eqv	118,42
Total energy use	MJ	2001,29
Amount of recycled materials	%	14,85

Product

Market:

Mainly Europe, but is available world wide.

Product description:

Task chair Salida D-1085-D with upholstered seat and back in wool fabric, with plastic starbase. The data applies for castors made for soft floors as well as for hard floors.

Extensive comfort meets excellent technical design in Salida. With an added aesthetic dimension, the resulting chair is harmony itself. The ergonomical innovations built in to the product are easy to use and are harmoniously integrated in the design that has given Salida a number of design awards.

Link to product description:

<https://www.kinnarps.com/products/seating/task-chairs/salida/>.

For other options, see variants and options.

Product specification

Salida has a patented three-dimensional spring unit in a mechanism that automatically adjusts the support to the user's weight. Because of this, it fits well in an environment where more people use the same chair during the day.

It is equipped with a Synchrone mechanism that allows the seat and back to follow each other in a well-balanced movement pattern. Increase comfort further by supplementing with extra upholstery for a softer chair, hip support that straightens the back in the correct position or a headrest that provides support for the head and neck.

The back is available as upholstered or in mesh, you can also get extra padding or a supplementary headrest. Salida is available in a variety of fabric choice from Kinnarps Colour Studio.

Technical data:

Salida task chair fulfills the following technical standards:

EN 1335-1 Dimensions

EN 1335-2 Safety requirements

EN 1335-3 Safety test methods, tested against 110 kg personnel weight

Reference service life, product

10 years (5 years warranty).

Reference service life, building

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Metal - Aluminium	3,80	22,39	1,90	50,00
Metal - Steel	2,89	17,03	0,43	14,93
Metal - Zinc	0,45	2,62	0,00	0,00
Textile - Polyester (PE)	0,01	0,06	0,00	0,00
Textile - Wool	0,42	2,46	0,00	0,00
Glass fibre	0,19	1,11	0,19	100,00
Plastic - Polyurethane (PUR)	1,59	9,38	0,00	0,00
Plastic - Acrylonitrile butadiene styrene (ABS)	1,23	7,22	0,00	0,00
Plastic - Polyethylene	0,00	0,00	0,00	100,00
Plastic - Polypropylene (PP)	3,62	21,32	0,00	0,00
Plastic - Polyoxymethylene (POM)	0,01	0,07	0,00	0,00
Plastic - Nylon (PA)	0,25	1,48	0,00	0,00
Plastic - Polyamide with glass fibre (PAGF30)	2,46	14,48	0,00	0,00
Plastic - Polyethylene (LDPE)	0,00	0,01	0,00	0,00
Plastic - Polyester	0,06	0,35	0,00	0,00
Total:	16,97		2,52	

LCA: Calculation rules

Declared unit:

1 Pcs Task chair Salida

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.

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.

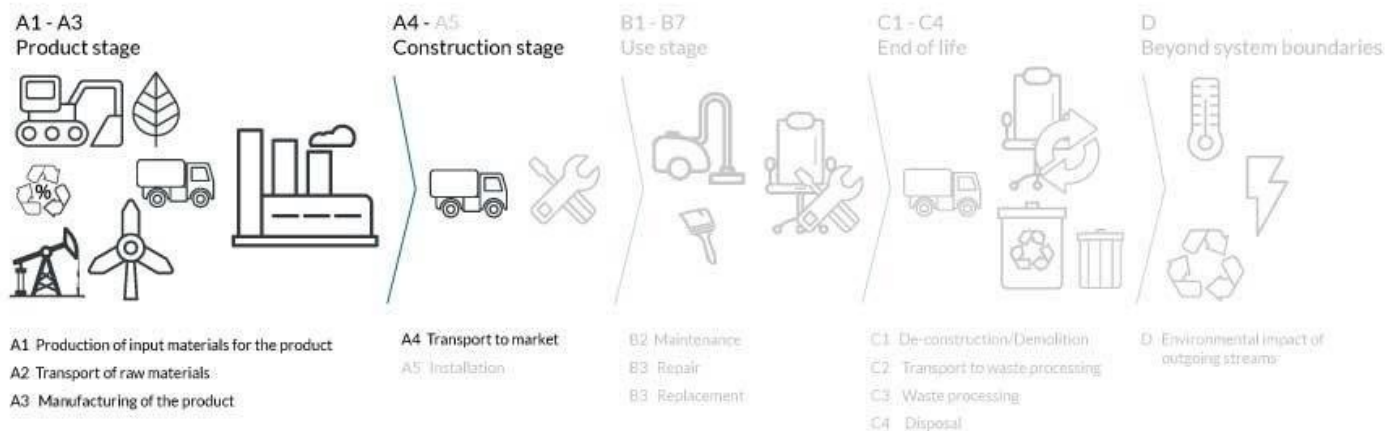
Specific data for the manufacturing processes (product stage A3) refers to the year 2020. All other specific data is from year of study.

Allocation:

The allocation is made in accordance with the provisions of EN 15804. 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.

System boundary:

The upholstery is manufactured at Kinnarps' production site in Skillingaryd, where the fabric is also processed. The steel and plastic components are purchased as premanufactured components. Final assembly of the product is done at Kinnarps' production site in Kinnarp.



Additional technical information:

LCA: Scenarios and additional technical information

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

The product is shipped to consumer in Kinnarps' trucks with blankets and cardboard sheets as packaging material which is returned to the factory after delivery and reused. This method saves 270 kg of packaging material per container and enables 50% more products to be transported in each truck. Kinnarps' trucks have a load efficiency of over 90% and are run on diesel with renewable content. For more information about sustainability at Kinnarps, visit <https://www.kinnarps.com/about-kinnarps/sustainability/>.

Transport from production place to user (A4)

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/t)
Truck	36,7 %	Truck, 16-32 tonnes, HVO, EURO 6 (kgkm) - RER	300	0,043113	l/tkm	12,93
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

Assembly (A5)

.	Unit	Value
Auxiliary	kg	
Water consumption	m ³	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
Output materials for waste treatment	kg	
Dust in the air	kg	
VOC emissions	kg	

Use (B1)

.	Unit	Value

Maintenance (B2)/Repair (B3)

.	Unit	Value
Maintenance cycle*		
Auxiliary		
Other resources		
Water consumption	m ³	
Electricity consumption	kWh	
Other energy carriers	MJ	
Material loss	kg	
VOC emissions	kg	

Replacement (B4)/Refurbishment (B5)

.	Unit	Value
Replacement cycle*		
Electricity consumption	kWh	
Replacement of worn parts		

* Described above if relevant

Operational energy (B6) and water consumption (B7)

.	Unit	Value
Water consumption	m ³	
Electricity consumption	kWh	
Other energy carriers	MJ	
Power output of equipment	kW	

End of Life (C1, C2)

.	Unit	Value
Hazardous waste disposed	kg	
Collected as mixed construction waste	kg	
Reuse	kg	
Recycling		
Energy recovery		
To landfill	kg	

Transport to waste processing (C2)

Type	Capacity utilisation (incl. return) %	Type of vehicle	Distance km	Fuel/Energy consumption	Unit	Value (l/t)
Truck					l/tkm	
Railway					l/tkm	
Boat					l/tkm	
Other Transportation					l/tkm	

LCA: Results

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

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

Product stage				Construction installation stage	User 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	Deconstruction 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	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	

Environmental impact

Parameter	Unit	A1	A2	A3	A4
GWP	kg CO ₂ -eq	1,14E+02	2,49E+00	2,35E+00	1,90E-01
ODP	kg CFC11 -eq	3,45E-06	4,48E-07	3,00E-06	3,06E-08
POCP	kg C ₂ H ₄ -eq	3,33E-02	6,96E-04	3,21E-03	6,94E-05
AP	kg SO ₂ -eq	5,74E-01	1,72E-02	1,21E-02	7,70E-04
EP	kg PO ₄ ³⁻ -eq	7,41E-02	2,05E-03	2,56E-03	1,14E-04
ADPM	kg Sb -eq	4,08E-03	3,09E-05	4,91E-05	2,41E-05
ADPE	MJ	1,14E+03	3,75E+01	2,08E+01	3,84E+00

GWP Global warming potential; ODP Depletion potential of the stratospheric ozone layer; POCP Formation potential of tropospheric photochemical oxidants; AP Acidification potential of land and water; EP Eutrophication potential; ADPM Abiotic depletion potential for non fossil resources; ADPE Abiotic depletion potential for fossil resources

Reading example: 9,0 E-03 = 9,0*10⁻³ = 0,009

*INA Indicator Not Assessed

Resource use

Parameter	Unit	A1	A2	A3	A4
RPEE	MJ	1,12E+02	7,49E-01	1,18E+02	1,90E-01
RPEM	MJ	8,37E+00	0,00E+00	0,00E+00	0,00E+00
TPE	MJ	1,20E+02	7,49E-01	1,18E+02	1,90E-01
NRPE	MJ	1,33E+03	3,88E+01	3,97E+02	4,19E+00
NRPM	MJ	3,03E+02	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	1,64E+03	3,88E+01	3,97E+02	4,14E+00
SM	kg	2,52E+00	2,44E-01	8,42E-03	2,25E-01
RSF	MJ	0,00E+00	6,64E-03	2,83E-02	6,16E-03
NRSF	MJ	0,00E+00	2,27E-02	1,89E-01	2,12E-02
W	m ³	7,23E-01	7,90E-03	1,46E-01	1,71E-03

RPEE Renewable primary energy resources used as energy carrier; RPEM Renewable primary energy resources used as raw materials; TPE Total use of renewable primary energy resources; NRPE Non renewable primary energy resources used as energy carrier; NRPM Non renewable primary energy resources used as materials; TRPE 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; W Use of net fresh water

Reading example: 9,0 E-03 = $9,0 \cdot 10^{-3} = 0,009$

*INA Indicator Not Assessed

End of life - Waste

Parameter	Unit	A1	A2	A3	A4
HW	kg	1,81E-02	6,71E-04	1,56E-01	5,87E-04
NHW	kg	6,11E+01	2,23E+00	1,12E+00	6,23E-01
RW	kg	INA*	INA*	INA*	INA*

HW Hazardous waste disposed; NHW Non hazardous waste disposed; RW Radioactive waste disposed

Reading example: 9,0 E-03 = $9,0 \cdot 10^{-3} = 0,009$

*INA Indicator Not Assessed

End of life - Output flow

Parameter	Unit	A1	A2	A3	A4
CR	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MR	kg	0,00E+00	4,35E-03	2,16E+00	4,03E-03
MER	kg	0,00E+00	7,69E-05	1,83E-03	7,14E-05
EEE	MJ	INA*	INA*	INA*	INA*
ETE	MJ	INA*	INA*	INA*	INA*

CR Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy

Reading example: 9,0 E-03 = $9,0 \cdot 10^{-3} = 0,009$

*INA Indicator Not Assessed

Additional Norwegian 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	Data source	Amount	Unit
Energy, district heating, Norwegian average (kWh)	Østfoldforskning	19,71	g CO ₂ -ekv/kWh
Energy, electricity, nuclear, Sweden: 1 kWh	Modified ecoinvent 3.6	22,11	g CO ₂ -ekv/kWh

Dangerous substances

The product contains substances given by the REACH Candidate list and the Norwegian priority list that are less than 0,1 % by weight.

Indoor environment

Additional environmental information

Key environmental indicators for variants for this EPD: Cradle to Gate analyse from A1 to A3

Variant number	Global warming (kg CO ₂)	Total energy use (MJ)	Share of recycled material in product(%)
Task chair Salida - D-1085-DL with upholstered seat and back, wool fabric, plastic starbase and 4D-armrests	146,34	2 427,68	14,79
Task chair Salida - D-1085-DN with upholstered seat and back with headrest, wool fabric and plastic starbase	134,67	2 271,81	14,72
Task chair Salida - D-1085-DLC with upholstered seat and back, wool fabric, plastic starbase and armrests	139,53	2 392,05	11,05

Bibliography

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ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.

EN 15804:2012+A1:2013 Environmental product declaration - Core rules for the product category of construction products.

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NPCR Part A: Construction products and services. Ver. 1.0. April 2017, EPD-Norge.

NPCR 026 Part B for Furniture. Ver. 2.0 October 2018, EPD-Norge.

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