

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-3423-2034-EN
Registration number:	NEPD-3423-2034-EN
ECO Platform reference number:	-
Issue date:	08.04.2022
Valid to:	08.04.2027

Sit/stand desk Series[P]

Kinnarps AB



www.epd-norge.no



General information

Product:

Sit/stand desk Series[P]

Owner of the declaration:

Kinnarps AB
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Program operator:

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Manufacturer:

Kinnarps AB

Declaration number:

NEPD-3423-2034-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:

08.04.2022

Valid to:

08.04.2027

Declared unit:

1 Pcs Sit/stand desk Series[P]

Year of study:

2020

Declared unit with option:

A1,A2,A3,A4

Comparability:

EPDs from programmes other than the Norwegian EPD Foundation may not be comparable

Functional unit:

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

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.

Developer of EPD:

Isabell Vesterberg

Reviewer of company-specific input data and EPD:

Rickard Thil

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.

Approved:

Sign



Håkon Hauan, CEO EPD-Norge

Erik Svanes, Norsus AS

(no signature required)

Key environmental indicators	Unit	Cradle to gate A1 - A3
Global warming	kg CO2 eqv	82,66
Total energy use	MJ	2581,59
Amount of recycled materials	%	12,25

Product

Market:

Mainly Europe, but is available world wide.

Product description:

Sit/stand desk Series[P] with straight table top, 160 x 80 cm, laminate and flex beam. Total product weight 49 kg.

The stable sit/stand desks in Series[P] are designed to suit today's flexible worklife. They are easy to raise and lower, available in many different finishes with smart options and fulfil all ergonomic requirements for movement and variation. The desks are customised for different needs, situations and working environments.

Link to product description: [https://www.kinnarps.com/products/desks-tables/desks/series\[p\]-1/](https://www.kinnarps.com/products/desks-tables/desks/series[p]-1/)

Product specification

The standard top for Series[P] sit/stand desk has a core material of 22 mm chipboard with surface selection of laminate or veneer. The 2 mm edge consists of wood for veneer design and ABS plastic for laminate design. Legs and beam consists of powder-coated steel with colour options white, black and silver. A flex beam is available as an option, which makes it easy to change the tabletop to other sizes between 120-200 cm. The legs are adjustable in two height ranges, 620-1270 mm and 680-1180 mm.

This EPD is valid for the following options:

- Top with or without cutout
 - Laminate in white, light grey, dark grey, beech, portland and grey white
 - All three colour options for legs and beam
- For other options, see variants.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Metal - Steel	29,98	59,88	6,00	20,00
Plastic - Acrylonitrile butadiene styrene (ABS)	0,28	0,55	0,00	0,00
Plastic - Polypropylene (PP)	0,09	0,19	0,00	0,00
Wood - Chipboard	18,40	38,95	0,00	0,00
Powder coating	0,18	0,36	0,00	0,00
Glue for wood	0,04	0,07	0,00	0,00
Plastic - Nylon (PA)	0,00	0,01	0,00	0,00
Total:	48,97		6,00	

LCA: Calculation rules

Declared unit:

1 Pcs Sit/stand desk Series[P]

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.

Electronic components are not included in the 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
Plastic - Acrylonitrile butadiene styrene (ABS)	ecoinvent 3.4	Database	2015
Plastic - Polypropylene (PP)	ecoinvent 3.4	Database	2015
Metal - Steel	ecoinvent 3.3	Database	2016
Glue for wood	ecoinvent 3.4	Database	2017
Process	ecoinvent 3.4	Database	2017
Wood - Chipboard	ecoinvent 3.4	Database	2017
Powder coating	ecoinvent 3.5	Database	2018
Plastic - Nylon (PA)	ecoinvent 3.6	Database	2019

Technical data:

Series[P] is certified to the following environmental and quality standards: Möbelfakta, NF Environnement, NF OEC, GS.

Series[P] is FSC® labeled in the following executions:

Veneer: birch, beech, oak, ash

Laminate: white, birch, grey oak, grey white, oak, beech, brown portland, light grey

Fulfilled technical standards:

EN 527-1 Dimensions

EN 527-2 Mechanical safety requirements

EN 527-3 Methods of test for the determination of the stability and the mechanical strength of the structure

ISO 21016 part of for sit/stand table, Test methods for the determination of strength, durability and stability

VOC emission test:

The product is tested and compliant with ANSI/BIFMA x7.1-2011.

Reference service life, product

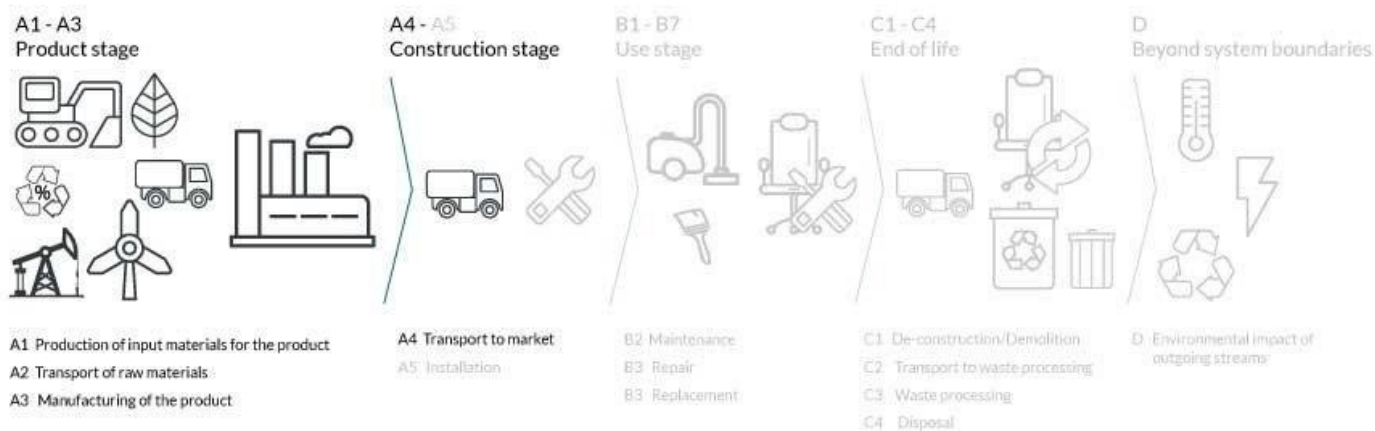
15 years, (5 years warranty).

Reference service life, building

System boundary:

The steel components; legs, beam and foot, are manufactured at Kinnarps' production site in Jönköping. The table top is manufactured at Kinnarps' production site in Kinnarp where final assembly of the product is also done.

The flow chart below illustrates the system boundaries of the analysis.



Additional technical information:

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/>.

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)

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 from 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	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	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	7,09E+01	2,99E+00	8,76E+00	5,47E-01
ODP	kg CFC11 -eq	4,29E-06	5,65E-07	7,90E-06	8,82E-08
POCP	kg C ₂ H ₄ -eq	4,25E-02	8,05E-04	9,28E-03	2,00E-04
AP	kg SO ₂ -eq	3,37E-01	1,62E-02	4,05E-02	2,22E-03
EP	kg PO ₄ ³⁻ -eq	8,25E-02	2,01E-03	7,78E-03	3,29E-04
ADPM	kg Sb -eq	9,46E-04	1,08E-04	1,26E-04	6,94E-05
ADPE	MJ	7,83E+02	5,11E+01	9,05E+01	1,11E+01

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	3,34E+02	1,41E+00	3,15E+02	5,47E-01
RPEM	MJ	1,56E+02	0,00E+00	0,00E+00	0,00E+00
TPE	MJ	4,90E+02	1,41E+00	3,15E+02	5,47E-01
NRPE	MJ	8,43E+02	5,36E+01	1,03E+03	1,21E+01
NRPM	MJ	1,56E+01	0,00E+00	0,00E+00	0,00E+00
TRPE	MJ	8,59E+02	5,34E+01	1,03E+03	1,19E+01
SM	kg	6,00E+00	9,71E-01	2,11E-02	6,48E-01
RSF	MJ	0,00E+00	2,66E-02	7,18E-02	1,78E-02
NRSF	MJ	0,00E+00	9,17E-02	1,32E+00	6,12E-02
W	m ³	6,30E-01	1,52E-02	3,98E-01	4,94E-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	5,74E-03	2,56E-03	4,92E+00	1,69E-03
NHW	kg	9,06E+01	5,58E+00	3,88E+00	1,79E+00
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	1,74E-02	1,17E+01	1,16E-02
MER	kg	0,00E+00	3,08E-04	2,31E-03	2,06E-04
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 CO2-ekv/kWh
Energy, electricity, nuclear, Sweden: 1 kWh	Modified ecoinvent 3.6	22,11	g CO2-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

The product is low-emitting and tested according to Swedish Möbelfakta.

Additional environmental information

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

Variant number	Global warming (kg CO2)	Total energy use (MJ)	Share of recycled material in product(%)
Series[P] - Sit/stand desk 120x80 cm, laminate	81,25	2 049,55	13,38
Series[P] - Sit/stand desk 140x80 cm, laminate	82,13	2 102,91	12,89
Series[P] - Sit/stand desk 180x80 cm, laminate	85,88	2 309,98	11,51
Series[P] - Sit/stand desk 100x80 cm, laminate no flex beam	77,31	1 884,42	14,19
Series[P] - Sit/stand desk 200x80 cm, laminate	86,62	2 359,76	11,20
Series[P] - Sit/stand desk 140x90 cm, laminate and top with cutout	84,00	2 184,48	12,33
Series[P] - Sit/stand desk 160x90 cm, laminate	85,40	2 276,93	11,71
Series[P] - Sit/stand desk 180x90 cm, laminate	86,77	2 368,84	11,15
Series[P] - Sit/stand desk 200x90 cm, laminate	88,22	2 462,07	10,64
Series[P] - Sit/stand desk 160x80 cm, veneer	83,10	2 181,26	12,22
Series[P] - Sit/stand desk 160x80 cm, birch/grey oak laminate	85,84	2 218,65	12,25
Series[P] - Sit/stand desk 160x80 cm, oak laminate	83,96	2 193,05	12,25

Bibliography

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

ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.

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

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