

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Stool Nico



lekolar[®]

EPD-Global

Owner of the declaration:

Lekolar

Product:

Stool Nico

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:

EPD-Global

Declaration number:

NEPD-14790-15469

Issue date:

29.01.2026

Valid to:

29.01.2031

EPD software:

LCAno EPD generator ID: 1374392

General information

Product

Stool Nico

Program operator:

EPD-Global
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 977 22 020
web: www.epd-global.com

Declaration number:

NEPD-14790-15469

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-Global shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 pcs Stool Nico

Declared unit (cradle to gate) with option:

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

Functional unit:

1 pcs Stool Nico

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-Global'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-Global, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Global'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 EPD-Global'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:

Lekolar
Contact person: Hanna Bremander
Phone: 0479-19900
e-mail: Hanna.Bremander@lekolar.com

Manufacturer:

Lekolar

Place of production:

Lekolar
Hallarydsvägen 8
283 36 Osby, Sweden

Management system:

ISO 27001, ISO 9001:2015, ISO 45001:2018, ISO 14001:2015

Organisation no:

556605-0646

Issue date:

29.01.2026

Valid to:

29.01.2031

Year of study:

2025

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-Global.

Developer of EPD: Hanna Bremander

Reviewer of company-specific input data and EPD: Frida Andersson

Approved:



Håkon Hauan, CEO EPD-Global

Product

Product description:

Nico is a stool designed for use in educational and institutional environments such as schools, preschools, and other public indoor spaces.

The stool consists of a seat combined with a supporting stand/frame, manufactured to provide stability and durability during normal use. The design is robust and suitable for frequent daily use in indoor environments. The product is delivered fully assembled and does not require installation by the end user.

Nico is intended for long-term use and has an expected reference service life of 15 years under normal indoor conditions. During use, the product does not require operational energy or water. Maintenance is limited to regular cleaning with a damp cloth and mild cleaning agents.

Read more at www.Lekolar.com

Product specification

Stool Nico has a fixed seat height of 60 cm.

The stool is manufactured using robust materials suitable for frequent use in schools and similar public environments. The construction ensures stability and strength while maintaining a compact design that allows easy handling and repositioning.

Variants included in this EPD:

Stool Nico 44 cm

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Kraft paper - Unbleached	0.02	0.5249	0.0001758	0.8791
Metal - Stainless steel	0.02	0.5249	0.004367	21.83
Metal - Steel	2.67	70.08	0.534	20.00
Paint, water-based	0.05	1.31	0.00	0.00
Plastic - Polyethylene (LDPE)	0.02	0.5249	0.00	0.00
Powder coating	0.03	0.7874	0.00	0.00
Wood - Plywood	1.00	26.25	0.00	0.00
Total	3.81	100.00	0.54	

Technical data:

Möbelfakta
FSC certified

Fulfilled technical standards:

EN 1729 Furniture - Chairs and tables for educational institutions

EN 16139 Furniture - Safety, strength and durability - Requirements and test methods for non-domestic seating

Market:

Nordic

Reference service life, product

15 years

Reference service life, building

Not relevant

LCA: Calculation rules

Declared unit:

1 pcs Stool Nico

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
Kraft paper - Unbleached	ecoinvent 3.6	Database	2019
Metal - Stainless steel	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Paint, water-based	ecoinvent 3.6	Database	2019
Plastic - Polyethylene (LDPE)	ecoinvent 3.6	Database	2019
Powder coating	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)

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	MND	x	x	x	MND	MND	MND	x	x	x	x	x

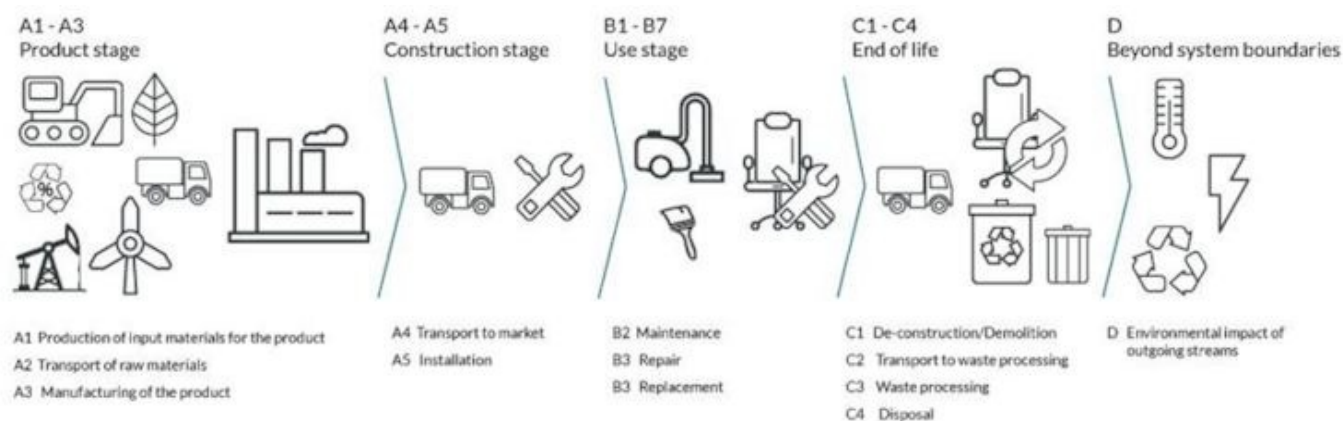
System boundary:

This EPD covers the full life cycle of the stool. Modules A1–A3 include extraction and processing of raw materials, transport of raw materials to the production site, and manufacturing of the finished product. All significant material and energy flows related to the production of the stool are included.

In module A4, the stool is transported from the manufacturing site to the place of use. Module A5 covers handling at the destination, including assembly where applicable.

During the use stage, no environmental loads are assumed in B1. Module B2 includes regular maintenance, limited to cleaning with a damp cloth and mild cleaning agents. No repair (B3) or replacement (B4) is assumed to occur within the declared reference service life of 15 years. Modules B5–B7 are not relevant, as the product does not require refurbishment, operational energy, or operational water during use.

At the end of life, module C1 includes deconstruction of the product. In C2, the stool is transported to waste processing facilities. Module C3 covers waste processing of the materials, and C4 includes final disposal. Module D accounts for potential environmental benefits from reuse, recycling, and energy recovery beyond the system boundary.



Additional technical information:

To prolong the service life of furniture and interior products, regular maintenance and proper care are essential. For indoor furniture such as stools, desks and chairs, it is recommended to carry out routine cleaning and inspection to maintain appearance, performance and stability. Regular cleaning should be performed with a mild soap solution and a soft cloth to remove dirt and stains from surfaces without damaging coatings.

Read more at: <https://www.lekolar.se/aktuellt/skotselrad-mobler-och-inredning/>

LCA: Scenarios and additional technical information

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

The scenarios applied in this EPD are based on typical conditions for furniture used in educational and institutional indoor environments. Transport in module A4 represents delivery of the finished stool from the manufacturing site to the place of use using conventional freight transport. The product is delivered fully assembled, and module A5 covers handling at the destination without the need for additional installation activities. Packaging is handled according to standard practice.














During the use stage, the stool is assumed to be used under normal indoor conditions with an expected reference service life of 15 years. No environmental loads are assumed in module B1. Maintenance in module B2 is limited to regular cleaning with a damp cloth and mild cleaning agents. No repair (B3) or replacement (B4) is assumed to occur during the reference service life. The product does not require refurbishment, operational energy, or operational water during use, and therefore modules B5–B7 are not relevant.














At the end of life, module C1 includes deconstruction of the product. In module C2, the stool is transported to waste processing facilities using standard transport distances. Module C3 covers waste processing according to common treatment routes for furniture materials, such as recycling of metals and energy recovery from combustible materials. Module C4 includes final disposal of residual waste. Module D accounts for potential environmental benefits from material recycling and energy recovery beyond the system boundary.

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 %	300.00	0.043	l/tkm	12.90
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km)	36.7 %	85.00	0.043	l/tkm	3.66
Waste processing (C3)	Unit	Value			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	0.03			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0.02			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	1.00			
Waste treatment per kg Paperboard, incineration with fly ash extraction - C3 (kg)	kg	0.02			
Waste, materials to recycling (kg)	kg	0.9127			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	2.69			
Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Paperboard, process per kg ashes and residues - C4 (kg)	kg	0.0003574			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0.0115			
Landfilling of ashes from incineration of Non-hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0.007118			
Landfilling of ashes from incineration of Polyethylene, PE, process per kg ashes and residues - C4 (kg)	kg	0.0007048			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	1.78			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary steel with net scrap (kg)	kg	0.73			
Substitution of electricity, in Norway (MJ)	MJ	0.7684			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	11.63			

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	1.55E+01	1.87E-01	0	0	0
	GWP-fossil	kg CO ₂ -eq	1.69E+01	1.87E-01	0	0	0
	GWP-biogenic	kg CO ₂ -eq	-1.48E+00	7.73E-05	0	0	0
	GWP-luluc	kg CO ₂ -eq	8.59E-02	6.65E-05	0	0	0
	ODP	kg CFC11 -eq	1.36E-06	4.23E-08	0	0	0
	AP	mol H ⁺ -eq	1.26E-01	5.37E-04	0	0	0
	EP-FreshWater	kg P -eq	1.27E-03	1.49E-06	0	0	0
	EP-Marine	kg N -eq	1.87E-02	1.06E-04	0	0	0
	EP-Terrestrial	mol N -eq	2.07E-01	1.19E-03	0	0	0
	POCP	kg NMVOC -eq	7.00E-02	4.55E-04	0	0	0
	ADP-minerals&metals ¹	kg Sb-eq	6.44E-04	5.16E-06	0	0	0
	ADP-fossil ¹	MJ	2.23E+02	2.82E+00	0	0	0
	WDP ¹	m ³	2.05E+03	2.73E+00	0	0	0

Indicator		Unit	B4	C1	C2	C3	C4	D
	GWP-total	kg CO ₂ -eq	0	0	5.29E-02	1.86E+00	1.96E-02	-8.74E-01
	GWP-fossil	kg CO ₂ -eq	0	0	5.29E-02	1.56E-01	1.96E-02	-8.71E-01
	GWP-biogenic	kg CO ₂ -eq	0	0	2.19E-05	1.70E+00	1.48E-05	-5.82E-04
	GWP-luluc	kg CO ₂ -eq	0	0	1.88E-05	6.88E-06	5.99E-06	-2.68E-03
	ODP	kg CFC11 -eq	0	0	1.20E-08	2.79E-09	6.16E-09	-4.91E-03
	AP	mol H ⁺ -eq	0	0	1.52E-04	2.72E-04	1.40E-04	-4.55E-03
	EP-FreshWater	kg P -eq	0	0	4.23E-07	6.84E-07	1.94E-07	-5.54E-05
	EP-Marine	kg N -eq	0	0	3.01E-05	1.19E-04	5.01E-05	-1.01E-03
	EP-Terrestrial	mol N -eq	0	0	3.36E-04	1.27E-03	5.54E-04	-1.04E-02
	POCP	kg NMVOC -eq	0	0	1.29E-04	3.36E-04	1.60E-04	-4.57E-03
	ADP-minerals&metals ¹	kg Sb-eq	0	0	1.46E-06	1.58E-07	3.44E-07	-1.45E-05
	ADP-fossil ¹	MJ	0	0	8.00E-01	2.46E-01	4.55E-01	-7.73E+00
	WDP ¹	m ³	0	0	7.74E-01	5.18E-01	8.66E-01	2.97E+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"

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	1.40E-06	1.14E-08	0	0	0
 IRP ²	kgBq U235 -eq	1.21E+00	1.23E-02	0	0	0
 ETP-fw ¹	CTUe	1.22E+03	2.09E+00	0	0	0
 HTP-c ¹	CTUh	8.42E-08	0.00E+00	0	0	0
 HTP-nc ¹	CTUh	1.15E-06	2.29E-09	0	0	0
 SQP ¹	dimensionless	3.17E+02	1.97E+00	0	0	0











Indicator	Unit	B4	C1	C2	C3	C4	D
 PM	Disease incidence	0	0	3.24E-09	6.41E-09	2.58E-09	-1.00E-07
 IRP ²	kgBq U235 -eq	0	0	3.50E-03	6.29E-04	1.82E-03	-3.27E-03
 ETP-fw ¹	CTUe	0	0	5.93E-01	1.46E+00	2.64E-01	-5.00E+01
 HTP-c ¹	CTUh	0	0	0.00E+00	1.69E-10	9.00E-12	-3.96E-09
 HTP-nc ¹	CTUh	0	0	6.48E-10	2.58E-09	2.46E-10	7.90E-08
 SQP ¹	dimensionless	0	0	5.59E-01	5.03E-02	9.88E-01	-6.95E+00

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"

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	6.84E+01	4.04E-02	0	0	0
	PERM	MJ	1.43E+01	0.00E+00	0	0	0
	PERT	MJ	8.27E+01	4.04E-02	0	0	0
	PENRE	MJ	2.22E+02	2.82E+00	0	0	0
	PENRM	MJ	8.49E-01	0.00E+00	0	0	0
	PENRT	MJ	2.23E+02	2.82E+00	0	0	0
	SM	kg	5.39E-01	0.00E+00	0	0	0
	RSF	MJ	1.12E-01	1.45E-03	0	0	0
	NRSF	MJ	8.05E-01	5.17E-03	0	0	0
	FW	m ³	1.61E-01	3.02E-04	0	0	0




Indicator		Unit	B4	C1	C2	C3	C4	D
	PERE	MJ	0	0	1.14E-02	1.11E-02	8.30E-03	-6.50E+00
	PERM	MJ	0	0	0.00E+00	-1.43E+01	0.00E+00	0.00E+00
	PERT	MJ	0	0	1.14E-02	-1.43E+01	8.30E-03	-6.50E+00
	PENRE	MJ	0	0	8.00E-01	2.49E-01	4.55E-01	-7.72E+00
	PENRM	MJ	0	0	0.00E+00	-8.49E-01	0.00E+00	0.00E+00
	PENRT	MJ	0	0	8.00E-01	-6.01E-01	4.55E-01	-7.72E+00
	SM	kg	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RSF	MJ	0	0	4.10E-04	2.35E-04	2.20E-04	2.80E-02
	NRSF	MJ	0	0	1.46E-03	0.00E+00	1.38E-02	4.92E-01
	FW	m ³	0	0	8.55E-05	3.93E-04	4.10E-04	-8.86E-03

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"

End of life - Waste




Indicator		Unit	A1-A3	A4	A5	B2	B3
	HWD	kg	1.27E-01	1.46E-04	0	0	0
	NHWD	kg	4.73E+00	1.37E-01	0	0	0
	RWD	kg	9.30E-04	1.92E-05	0	0	0






Indicator		Unit	B4	C1	C2	C3	C4	D
	HWD	kg	0	0	4.13E-05	0.00E+00	1.78E+00	-4.22E-03
	NHWD	kg	0	0	3.89E-02	3.00E-02	1.46E-02	-3.51E-01
	RWD	kg	0	0	5.45E-06	0.00E+00	2.80E-06	-2.83E-06

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

"Reading example: 9.0 E-03 = $9.0 \cdot 10^{-3}$ = 0.009"

End of life - Output flow

Indicator		Unit	A1-A3	A4	A5	B2	B3
	CRU	kg	0.00E+00	0.00E+00	0	0	0
	MFR	kg	6.09E-02	0.00E+00	0	0	0
	MER	kg	1.05E-01	0.00E+00	0	0	0
	EEE	MJ	7.28E-02	0.00E+00	0	0	0
	EET	MJ	1.10E+00	0.00E+00	0	0	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	9.13E-01	0.00E+00	0.00E+00
	MER	kg	0	0	0.00E+00	3.76E+00	0.00E+00	0.00E+00
	EEE	MJ	0	0	0.00E+00	8.25E-01	0.00E+00	0.00E+00
	EET	MJ	0	0	0.00E+00	1.25E+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 = $9.0 \cdot 10^{-3}$ = 0.009"

Biogenic Carbon Content

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	4.64E-01
Biogenic carbon content in accompanying packaging	kg C	0.00E+00

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, European average (kWh)	ecoinvent 3.6	428.03	g CO ₂ -eq/kWh
Electricity, Sweden (kWh)	ecoinvent 3.6	54.94	g CO ₂ -eq/kWh

Dangerous substances

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

Indoor environment

Does not affect indoor environment.

Additional Environmental Information

Key Environmental Indicators

Key environmental performance indicators	Unit	Product stage	Construction stage		Use stage			End-of-life				Net benefits and loads from reuse, recovery, and/or recycling
		A1-A3	A4	A5	B2	B3	B4	C1	C2	C3	C4	D
GWPtotal	kg CO ₂ -eq	15.48	0.19	0.00	0.00	0.00	0.00	0.00	0.05	1.86	0.02	-0.87
Total energy consumption	MJ	291.66	2.87	0.00	0.00	0.00	0.00	0.00	0.81	0.26	0.48	-13.70
Share of recycled materials	%	14.13										

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	1.74E+01	1.87E-01	0	0	0

Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	5.29E-02	1.56E-01	1.97E-02	-8.73E-01

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)	GWP _{total} (kg CO ₂ -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)
Stool Nico 44 cm	2.93	10.35	223.28	12.44

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