



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Longo 1470





The Norwegian EPD Foundation

Owner of the declaration:

Materia AB

Product:

Longo 1470

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-6645-5677-EN

Registration number:

NEPD-6645-5677-EN

Issue date: 21.05.2024

Valid to: 21.05.2029

EPD software:

LCAno EPD generator ID: 261738

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General information

Product

Longo 1470

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-6645-5677-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 Longo 1470

Declared unit (cradle to gate) with option:

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

Functional unit:

production of two seating solution provided and maintained for a period of 15 years

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:

Materia AB

Contact person: Amanda Djerf Phone: +46 (0)727 48 54 54 e-mail: Amanda.d@materia.se

Manufacturer:

Materia AB

Place of production:

Materia AB Box 340

SE-573 24 Tranås, Sweden

Management system:

ISO 9001, ISO 14001, ISO 45001

Organisation no:

556396-9491

Issue date:

21.05.2024

Valid to:

21.05.2029

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: Amanda Djerf

Reviewer of company-specific input data and EPD: Tobias Sjöberg

Approved:

Håkon Hauan Managing Director of EPD-Norway



Product

Product description:

Longo is a bench and sofa system for all types of meeting areas with high demands on comfort and furniture design. Together with the round stool Rondo, and the matching Longo table with the same design, Longo creates a harmonious and welldesigned meeting area. The vast combination opportunities offered by Longo can be enhanced even further with curved bench and sofa sections. Longo can be used as free standing units or linked together.

Product specification

Seat and back of plywood. Padding of shaped cold-cured foam and fiberfill. Frame of tubular steel, chrome alt. black or silver grey powder coating.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Glue for wood	0,02	0,05	0,00	1,21
Metal - Steel	5,80	14,41	1,16	20,00
Plastic - Polyurethane (PUR)	7,41	18,41	0,00	0,00
Powder coating	0,10	0,25	0,00	0,00
Textile - Polyester (PE)	2,61	6,49	2,61	100,00
Wood - Medium Density Fibreboard (MDF)	1,90	4,72	0,00	0,00
Wood - Plywood	22,40	55,66	0,00	0,00
Total	40,24		3,77	

Technical data:

Fulfilled technical standards:

EN 16139 Strength, durability and safety, for personnel weight of 110 kg.

EN 1728 Test methods for the determination of the strength and durability

EN 1022 Determination of stability

EN 12720 Assessment of surface resistance to cold liquids

SIS 83 91 17 Assessment of surfaces resistance to scratches

EN ISO 105-E04 Colour fastness to perspiration

Fulfilled fire requirements:

EN 1021-1 Assessment of the ignitability of upholstered furniture – part 1: Ignition source smouldering cigarette.

EN 1021-2 Assessment of the ignitability of upholstered furniture – part 2: Ignition source match flame equivalent

Euroclass D

Market:

mainly Europe, but is available world wide

Reference service life, product

15 years service life, 5 years warranty if no other indicated

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs Longo 1470

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.

Specific data for the manufacturing processes (product stage A3) refers to the year 2024. All other specific data is from years of study.



Materials	Source	Data quality	Year
Glue for wood	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Plastic - Polyurethane (PUR)	ecoinvent 3.6	Database	2019
Powder coating	Ecoinvent 3.6	Database	2019
Textile - Polyester (PE)	Modified ecoinvent 3.6	Database	2019
Wood - Medium Density Fibreboard (MDF)	ecoinvent 3.6	Database	2019
Wood - Plywood	modified ecoinvent 3.6	Database	2019

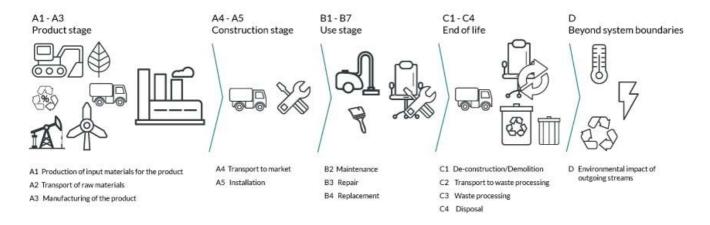


System boundaries (X=included, MND=module not declared, MNR=module not relevant)

	Pı	roduct stag	ge		uction ion stage				Use stage				End of life stage			Beyond the system boundaries	
Raw	materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refu <i>r</i> b ishment	Operational energy use	Operational water use	De- construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery- Recycling-potential
Α	.1	A2	A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
X	<	Х	Х	Х	X	MND	Χ	Χ	Х	MND	MND	MND	X	Х	X	Χ	X

System boundary:

Final assembly is done at Materia AB i Tranås. Upholstery, steel components and fixtures are purchased as premanufactured components.



Additional technical information:

Certifications:

ISO 14001

ISO 9001

ISO 45001

FSC® Chain of Custody



LCA: Scenarios and additional technical information

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

At our site in Tranås, we only use electricity renewable sources

The product is shipped to the 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 run on diesel with renewable content. For more information about sustainability at Kinnarps, visit

https://www.kinnarps.com/about-kinnarps/sustainability/.

Materia: https://materia.se/om-materia/hallbarhet/

The maintenance scenario includes wet-wiping once a week for the whole reference service life. For upholstered variants, the maintenance scenario includes vaccum cleaning of textiles once a week for the whole reference service life.

In normal use, no repair or replacement is required during the product's referenced service life.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, HVO, EURO 6 (kgkm)	36,7 %	300	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	0,043	l/tkm	3,66
Waste processing (C3)	Unit	Value			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,02			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	0,10			
Waste treatment per kg Polyurethane (PU), incineration (kg)	kg	7,41			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	5,80			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	2,61			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	24,30			
Waste, materials to recycling (kg)	kg	1,97			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	3,83			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0,00			
Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,02			
Landfilling of ashes from incineration of Polyurethane (PU), process per kg ashes and residues - C4 (kg)	kg	0,28			
residues et (kg)					
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,13			
Landfilling of ashes from incineration of Textile,	kg kg	0,13 0,28			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg) Landfilling of ashes from incineration of Wood,					
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg) Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg) Benefits and loads beyond the system	kg	0,28			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg) Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg) Benefits and loads beyond the system boundaries (D)	kg Unit	0,28 Value			



LCA: Results

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

Environme	ental impact							
(F)	Indicator	Unit		A1-A3	A4	A5	B2	B3
	GWP-total	kg CO ₂ -	eq	6,00E+01	4,72E-01	0	0	0
	GWP-fossil	kg CO ₂ -	kg CO ₂ -eq		4,70E-01	0	0	0
	GWP-biogenic	kg CO ₂ -	eq	-3,87E+01	7,97E-04	0	0	0
	GWP-luluc	kg CO ₂ -	eq	1,84E-01	7,34E-04	0	0	0
Ü	ODP	kg CFC11	-eq	6,96E-06	9,70E-08	0	0	0
Œ	АР	mol H+ -	-eq	5,63E-01	3,30E-03	0	0	0
	EP-FreshWater	kg P -e	q	5,95E-03	1,73E-05	0	0	0
	EP-Marine	kg N -e	q	1,25E-01	8,73E-04	0	0	0
-	EP-Terrestial	mol N -	eq	1,30E+00	9,76E-03	0	0	0
	POCP	kg NMVO0	-eq	4,18E-01	3,57E-03	0	0	0
	ADP-minerals&metals ¹	kg Sb-e	q	2,83E-03	5,72E-05	0	0	0
	ADP-fossil ¹	MJ	MJ		9,96E+00	0	0	0
<u>%</u>	WDP ¹	m ³		1,39E+04	2,95E+01	0	0	0
	Indicator	Unit	B4	C1	C2	C3	C4	D
	GWP-total	kg CO ₂ -eq	0	0	5,62E-01	6,49E+01	7,91E-02	-4,44E+00
	GWP-fossil	kg CO ₂ -eq	0	0	5,61E-01	2,06E+01	7,90E-02	-4,34E+00
	GWP-biogenic	kg CO ₂ -eq	0	0	2,32E-04	4,44E+01	6,66E-05	-6,34E-03
	GWP-luluc	kg CO ₂ -eq	0	0	2,00E-04	1,82E-04	1,82E-05	-9,06E-02
(3)								
$\overline{}$	ODP	kg CFC11 -eq	0	0	1,27E-07	1,33E-07	1,67E-08	-1,90E-01
CA .	ODP AP	kg CFC11 -eq mol H+ -eq	0		1,27E-07 1,61E-03	1,33E-07 2,15E-02		-1,90E-01 -3,01E-02
				0			1,67E-08	
CET .	АР	mol H+ -eq	0	0	1,61E-03	2,15E-02	1,67E-08 4,22E-04	-3,01E-02
	AP EP-FreshWater	mol H+ -eq kg P -eq	0	0 0	1,61E-03 4,48E-06	2,15E-02 1,30E-05	1,67E-08 4,22E-04 9,15E-07	-3,01E-02 -3,38E-04
&	AP EP-FreshWater EP-Marine	mol H+ -eq kg P -eq kg N -eq	0 0	0 0 0	1,61E-03 4,48E-06 3,19E-04	2,15E-02 1,30E-05 1,17E-02	1,67E-08 4,22E-04 9,15E-07 1,45E-04	-3,01E-02 -3,38E-04 -8,81E-03
	AP EP-FreshWater EP-Marine EP-Terrestial	mol H+ -eq kg P -eq kg N -eq mol N -eq	0 0 0	0 0 0 0	1,61E-03 4,48E-06 3,19E-04 3,57E-03	2,15E-02 1,30E-05 1,17E-02 1,14E-01	1,67E-08 4,22E-04 9,15E-07 1,45E-04 1,61E-03	-3,01E-02 -3,38E-04 -8,81E-03 -9,42E-02
	AP EP-FreshWater EP-Marine EP-Terrestial POCP	mol H+ -eq kg P -eq kg N -eq mol N -eq kg NMVOC -eq	0 0 0 0	0 0 0 0 0	1,61E-03 4,48E-06 3,19E-04 3,57E-03 1,37E-03	2,15E-02 1,30E-05 1,17E-02 1,14E-01 2,72E-02	1,67E-08 4,22E-04 9,15E-07 1,45E-04 1,61E-03 4,59E-04	-3,01E-02 -3,38E-04 -8,81E-03 -9,42E-02 -2,96E-02

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 env	Additional environmental impact indicators											
	Indicator	Unit	A1-A3	A4	A5	B2	В3					
	PM	Disease incidence	1,31E-05	1,09E-07	0	0	0					
	IRP ²	kgBq U235 -eq	7,19E+00	3,25E-02	0	0	0					
	ETP-fw ¹	CTUe	3,70E+03	1,45E+01	0	0	0					
40.* ***** <u>*</u>	HTP-c ¹	CTUh	2,75E-07	0,00E+00	0	0	0					
4° E	HTP-nc ¹	CTUh	2,30E-06	2,43E-08	0	0	0					
	SQP ¹	dimensionless	5,49E+03	1,86E+01	0	0	0					

1	Indicator Unit		B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	3,44E-08	1,07E-07	6,94E-09	-1,45E-06
	IRP ²	kgBq U235 -eq	0	0	3,71E-02	1,85E-02	5,38E-03	-2,32E-01
3	ETP-fw ¹	CTUe	0	0	6,29E+00	5,95E+01	1,18E+00	-2,99E+02
40.* *** <u>\$</u>	HTP-c ¹	CTUh	0	0	0,00E+00	2,51E-09	5, 10E-11	-1,20E-08
48	HTP-nc ¹	CTUh	0	0	6,87E-09	1,02E-07	1,69E-09	-1,34E-08
	SQP ¹	dimensionless	0	0	5,94E+00	1,36E+00	3,06E+00	-2,51E+02

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)

[&]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.



Resource use								
	Indicator		Unit	A1-A3	A4	A5	B2	В3
	PERE		MJ	1,05E+03	4,51E-01	0	0	0
2	PERM		MJ	3,26E+02	0,00E+00	0	0	0
Ţ,	PERT		МЈ	1,38E+03	4,51E-01	0	0	0
	PENRE		МЈ	1,39E+03	9,96E+00	0	0	0
Å	PENRM		MJ	2,90E+02	0,00E+00	0	0	0
I	PENRT		MJ	1,68E+03	9,96E+00	0	0	0
	SM		kg	3,77E+00	0,00E+00	0	0	0
2	RSF		MJ	2,12E+00	1,47E-02	0	0	0
	NRSF		MJ	1,26E+00	5,05E-02	0	0	0
(%)	FW		m ³	2,29E+00	4,07E-03	0	0	0
	ndicator	Unit	B4	C1	C2	C3	C4	D
i i	PERE	MJ	0	0	1,21E-01	3,46E-01	3,76E-02	-2,32E+02
	PERM	МЈ	0	0	0,00E+00	-3,26E+02	0,00E+00	0,00E+00
°F₃	PERT	MJ	0	0	1,21E-01	-3,25E+02	3,76E-02	-2,32E+02
8	PENRE	MJ	0	0	8,49E+00	1,10E+01	1,28E+00	-5,19E+01
Å	PENRM	MJ	0	0	0,00E+00	-2,90E+02	0,00E+00	0,00E+00
IA	PENRT	МЈ	0	0	8,49E+00	-2,79E+02	1,28E+00	-5,19E+01
<u></u>	SM	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
2	RSF	МЈ	0	0	4,35E-03	8,16E-03	9,57E-04	2,22E-02
	NRSF	MJ	0	0	1,55E-02	0,00E+00	1,37E-01	-1,18E+01
•	FW	m^3	0	0	9,08E-04	3,53E-02	1,17E-03	-2,81E-01

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; PENRM = Use of non renewable primary energy resources; SM = Use of secondary materials; PENRM = Use of renewable primary energy resources; SM = Use of secondary materials; PENRM = 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		Uı	nit	A1-A3	A4	A5	B2	В3	
	HWD		kg		5,47E-01	1,40E-03	0	0	0	
Ī	NHWD		k	g	1,94E+01	1,48E+00	0	0	0	
₩	RWD		kg		5,93E-03	3,99E-05	0	0	0	
In	dicator		Unit	B4	C1	C2	C3	C4	D	
ā	HWD		kg	0	0	4,38E-04	0,00E+00	4,25E+00	-1,08E-02	
Ū	NHWD		kg	0	0	4,13E-01	1,20E-01	3,22E-01	-1,59E+00	
æ	RWD		kg	0	0	5,78E-05	0,00E+00	7,68E-06	-1,91E-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	licator	Uı	Unit		A4	A5	B2	В3				
@▷	CRU	k	kg		0,00E+00	0	0	0				
&>	MFR	k	kg		0,00E+00	0	0	0				
Þ₹	MER	k	g	4,58E-01	0,00E+00	0	0	0				
50	EEE	N	MJ		0,00E+00	0	0	0				
Da	D®		MJ		0,00E+00	0	0	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	1,97E+00	0,00E+00	0,00E+00				
DF	MER	kg	0	0	0,00E+00	4,02E+01	0,00E+00	0,00E+00				
₹ D	EEE	MJ	0	0	0,00E+00	2,93E+01	0,00E+00	0,00E+00				
DØ	EET	MJ	0	0	0,00E+00	4,43E+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									
Indicator	Unit	At the factory gate							
Biogenic carbon content in product	kg C	1,11E+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	Data source	Amount	Unit
Electricity, European average (kWh)	ecoinvent 3.6	428,03	g CO2-eq/kWh
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	60,02	0,47	126,07	121,64
Total energy consumption	MJ	2448,30	10,47	2480,22	2184,95
Amount of recycled materials	%	9,26			

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		4,72E-01	0	0	0	
Indicator	Unit	B4	C1	C2	C3	C4	D	
GWPIOBC	kg CO ₂ -eq	0	0	5,62E-01	2,47E+01	8,85E-02	-5,26E+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.



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