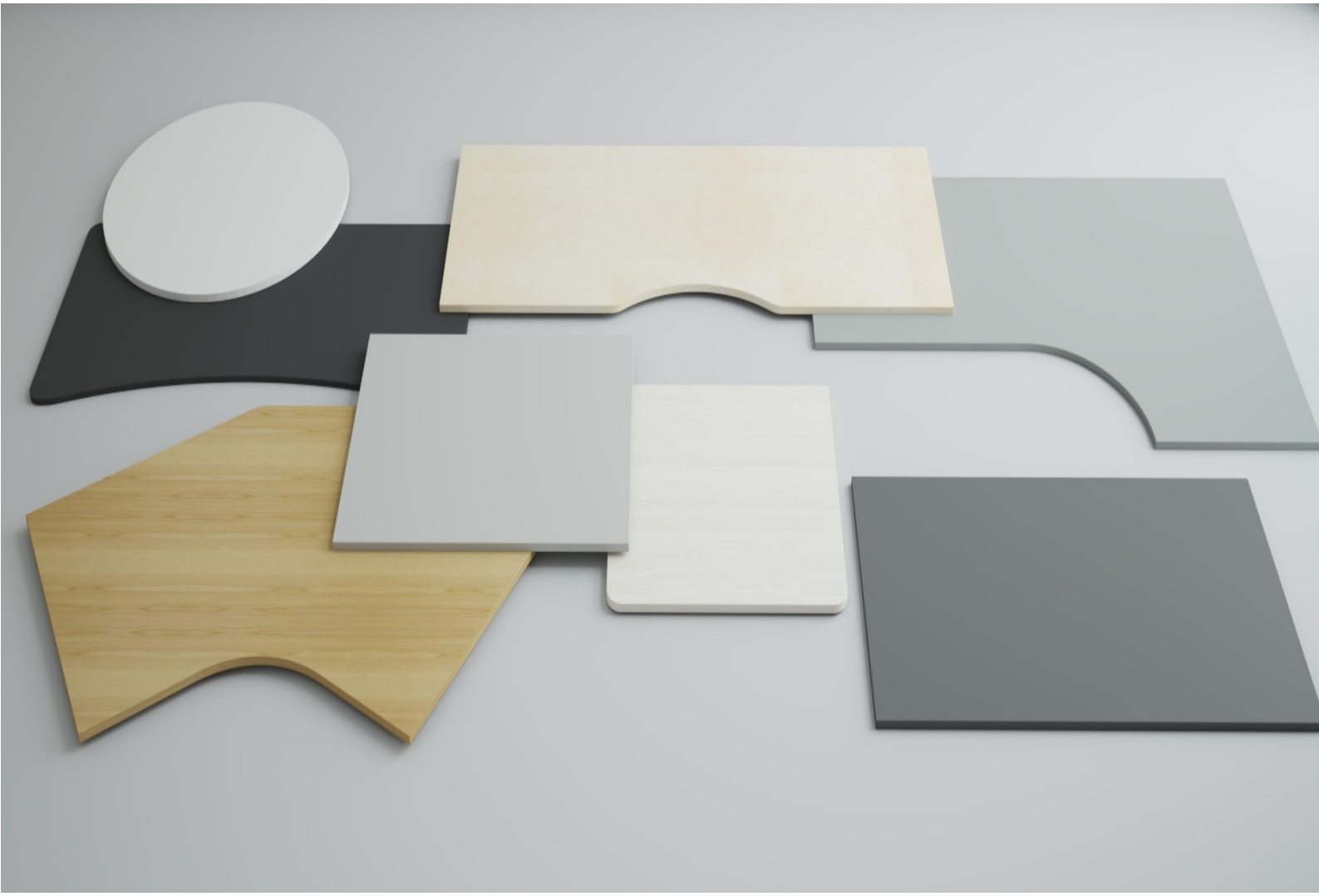
epd-norge
Global program operator

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Tellus tabletop with variants (Tellus nr 16 tabletop, meas.1600x800x22 melamine)



Svenheim

The Norwegian EPD Foundation

Owner of the declaration:
JSC Svenheim

Product:
Tellus tabletop with variants (Tellus nr 16 tabletop, meas.1600x800x22 melamine)

Declared unit:
1 pcs

This declaration is based on Product Category Rules:
CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 026:2018 Part B for furniture

Program operator:
The Norwegian EPD Foundation

Declaration number:

NEPD-5477-4795-EN

Registration number:

NEPD-5477-4795-EN

Issue date: 01.12.2023

Valid to: 01.12.2028

EPD Software:
LCA.no EPD generator ID: 61739

General information

Product

Tellus tabletop with variants (Tellus nr 16 tabletop, meas.1600x800x22 melamine)

Owner of the declaration:

JSC Svenheim
Contact person: Linas Vosylius
Phone: +370 657 52044
e-mail: linas@svenheim.lt

Program operator:

Post Box 5250 Majorstuen, 0303 Oslo, Norway
The Norwegian EPD Foundation
Phone: +47 23 08 80 00
web: post@epd-norge.no

Manufacturer:

JSC Svenheim

Declaration number:

NEPD-5477-4795-EN

Place of production:

JSC Svenheim
Naujoji str.132
LT-62175 Alytus, Lithuania

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 026:2018 Part B for furniture

Management system:

ISO 14001, Certificate No. 81858-2010-AE-LUT-FINAS ISO 9001, Certificate No. 81860-2010-AQ-LTU-FINAS Accredited unit: DNV Certification OY/AB, Finland

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.

Organisation no:

LT100004040014

Declared unit:

1 pcs Tellus tabletop with variants (Tellus nr 16 tabletop, meas.1600x800x22 melamine)

Issue date: 01.12.2023

Declared unit (cradle to gate) with option:

A1-A3,A4,A5,C1,C2,C3,C4,D

Valid to: 01.12.2028

Year of study:

2023

Functional unit:

TELLUS is our functional tabletop series. We have emphasized optimum space utilization and freedom of choice by offering a wide range of table top sizes and shapes.

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

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

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: Aiste Vieraityte

Reviewer of company-specific input data and EPD: Linas Vosylius

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)

Approved:

Håkon Hauan, CEO EPD-Norge

Product

Product description:

The tabletop made using 22mm chipboard, with the choice of birch, beech, oak, ash, ash white pigmented veneer, white, grey laminate or melamine surface, as standard. The boards have straight edge band with 2mm radius. Veneered surface has 5 coats of UV lacquer, which makes the surface very durable.

Product specification

Office furniture, tabletop 1600x800x22 melamine

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Glue for wood	0,02	0,11	0,00	0,00
Plastic - Acrylonitrile butadiene styrene (ABS)	0,22	1,15	0,00	0,00
Plastic - Melamine	0,23	1,23	0,00	0,00
Wood - Chipboard	18,30	97,51	0,00	0,00
Total	18,77		0,00	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0,09	23,96	0,00	0,00
Recycled cardboard	0,29	76,04	0,29	100,00
Total incl. packaging	19,15		0,29	

Technical data:

Total weight 19,2 kg including packaging.

Market:

Europe

Reference service life, product

15

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs Tellus tabletop with variants (Tellus nr 16 tabletop, meas.1600x800x22 melamine)

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:

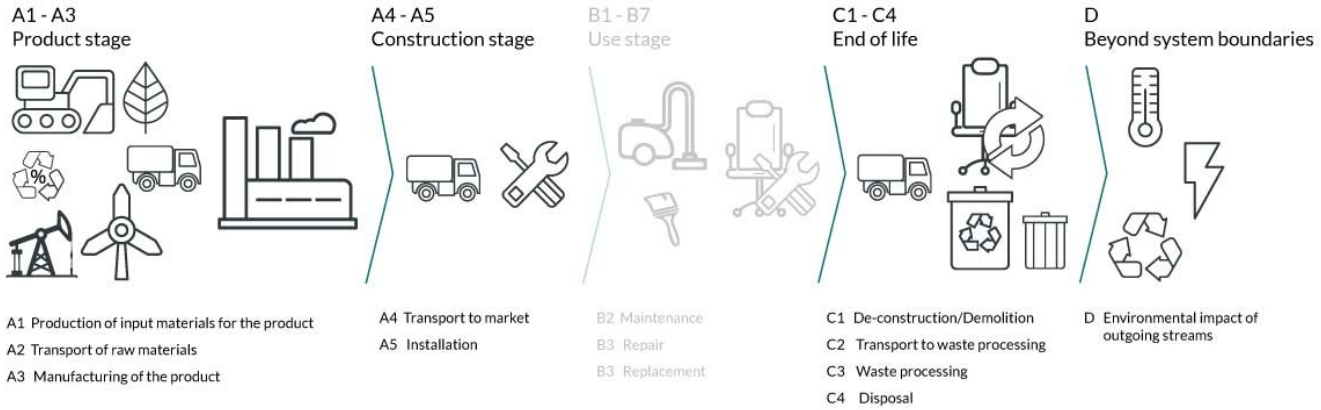
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other LCA databases. The data quality of the raw materials in A1 is presented in the table below.

Materials	Source	Data quality	Year
Glue for wood	ecoinvent 3.6	Database	2019
Plastic - Acrylonitrile butadiene styrene (ABS)	ecoinvent 3.6	Database	2019
Plastic - Melamine	ecoinvent 3.6	Database	2019
Wood - Chipboard	ecoinvent 3.6	Database	2019
Packaging - Cardboard	Modified ecoinvent 3.6	Database	2019
Recycled cardboard	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	MND	MND	MND	MND	MND	MND	X	X	X	X	X

System boundary:



Additional technical information:

Further information can be found at https://svenheim.no/.

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/tonne)
Ship, Coastal Barge (km)	71,0 %	490	0,011	l/tkm	5,39
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	1426	0,043	l/tkm	61,32

Assembly (A5)	Unit	Value			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	0,29			
Waste, packaging, corrugated board box, 0 % recycled, to average treatment (kg)	kg	0,09			

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	0,23			
Waste treatment per kg Plastics, Mixture, municipal incineration with fly ash extraction (kg)	kg	0,22			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	18,30			

Disposal (C4)	Unit	Value			
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	0,05			
Landfilling of ashes from incineration of Plastics, Mixture, municipal incineration with fly ash extraction, process per kg ashes and residues - C4 (kg)	kg	0,01			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0,22			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	13,86			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	209,75			

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	C1	C2	C3	C4	D
	GWP-total	kg CO_2 -eq	-1,95E+01	4,92E+00	6,58E-01	0	2,67E-01	3,21E+01	1,14E-02	-1,26E+00
	GWP-fossil	kg CO_2 -eq	1,62E+01	4,91E+00	6,21E-03	0	2,67E-01	1,32E+00	1,14E-02	-1,22E+00
	GWP-biogenic	kg CO_2 -eq	-3,57E+01	2,20E-03	6,52E-01	0	1,10E-04	3,08E+01	5,87E-06	-2,51E-03
	GWP-luluc	kg CO_2 -eq	3,63E-02	2,41E-03	2,05E-06	0	9,49E-05	5,71E-05	1,75E-06	-4,19E-02
	ODP	kg CFC11 -eq	1,99E-06	1,09E-06	1,31E-09	0	6,04E-08	2,87E-08	1,27E-09	-8,86E-02
	AP	mol H+ -eq	1,05E-01	1,73E-02	2,94E-05	0	7,66E-04	3,12E-03	4,00E-05	-1,00E-02
	EP-FreshWater	kg P -eq	9,15E-04	4,13E-05	5,10E-08	0	2,13E-06	5,33E-06	1,45E-07	-1,08E-04
	EP-Marine	kg N -eq	1,93E-02	4,44E-03	9,73E-06	0	1,52E-04	1,47E-03	1,25E-05	-3,28E-03
	EP-Terrestial	mol N -eq	2,77E-01	4,93E-02	1,05E-04	0	1,70E-03	1,56E-02	1,42E-04	-3,54E-02
	POCP	kg NMVOC -eq	8,80E-02	1,63E-02	3,03E-05	0	6,50E-04	3,83E-03	3,95E-05	-9,77E-03
	ADP-minerals&metals[1]	kg Sb -eq	2,68E-04	1,27E-04	1,51E-07	0	7,36E-06	1,27E-06	6,51E-08	-1,21E-05
	ADP-fossil[1]	MJ	3,07E+02	7,33E+01	8,69E-02	0	4,03E+00	2,15E+00	1,06E-01	-1,74E+01
	WDP[1]	m^3	1,93E+03	7,46E+01	1,10E-01	0	3,90E+00	4,01E+00	1,09E+00	-2,17E+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

"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	C1	C2	C3	C4	D
	PM	Disease incidence	2,85E-06	2,83E-07	4,34E-10	0	1,63E-08	3,19E-08	5,05E-10	-6,07E-07
	IRP[2]	kgBq U235 -eq	1,35E+00	3,22E-01	3,72E-04	0	1,76E-02	4,90E-03	4,98E-04	-1,11E-01
	ETP-fw[1]	CTUe	4,30E+02	5,44E+01	1,16E-01	0	2,99E+00	7,01E+00	1,85E-01	-9,46E+01
	HTP-c[1]	CTUh	6,35E-08	0,00E+00	4,00E-12	0	0,00E+00	7,60E-10	8,00E-12	-1,73E-09
	HTP-nc[1]	CTUh	2,54E-07	5,48E-08	1,46E-10	0	3,26E-09	3,41E-08	3,38E-10	-9,07E-08
	SQP[1]	dimensionless	1,52E+03	5,17E+01	5,83E-02	0	2,82E+00	3,74E-01	3,26E-01	-1,16E+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)

"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	C1	C2	C3	C4	D
	PERE	MJ	1,56E+02	1,11E+00	1,43E-03	0	5,77E-02	1,07E-01	6,07E-03	-1,07E+02
	PERM	MJ	1,91E+02	0,00E+00	-3,17E+00	0	0,00E+00	-1,63E+02	0,00E+00	0,00E+00
	PERT	MJ	3,47E+02	1,11E+00	-3,17E+00	0	5,77E-02	-1,63E+02	6,07E-03	-1,07E+02
	PENRE	MJ	2,96E+02	7,33E+01	8,69E-02	0	4,03E+00	2,17E+00	1,06E-01	-1,74E+01
	PENRM	MJ	1,09E+01	0,00E+00	0,00E+00	0	0,00E+00	-1,09E+01	0,00E+00	0,00E+00
	PENRT	MJ	3,07E+02	7,33E+01	8,69E-02	0	4,03E+00	-8,72E+00	1,06E-01	-1,74E+01
	SM	kg	2,95E-01	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	RSF	MJ	1,64E+00	4,38E-02	4,75E-05	0	2,06E-03	2,47E-03	1,45E-04	-1,88E-02
	NRSF	MJ	2,97E-01	1,45E-01	1,96E-04	0	7,38E-03	0,00E+00	6,85E-02	-6,37E+00
	FW	m^3	4,05E-01	8,28E-03	4,10E-05	0	4,31E-04	4,66E-03	1,04E-04	-1,29E-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 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"
*INA Indicator Not Assessed

End of life - Waste

Indicator		Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	1,52E-01	3,86E-03	3,84E-04	0	2,08E-04	0,00E+00	2,08E-01	-8,17E-04
	NHWD	kg	2,33E+00	3,31E+00	4,34E-03	0	1,96E-01	2,52E-01	7,27E-02	-4,11E-01
	RWD	kg	1,28E-03	4,99E-04	5,75E-07	0	2,75E-05	0,00E+00	5,53E-07	-9,10E-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

Indicator		Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	2,39E+00	0,00E+00	3,57E-01	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MER	kg	1,18E+00	0,00E+00	5,23E-07	0	0,00E+00	1,88E+01	0,00E+00	0,00E+00
	EEE	MJ	8,05E-01	0,00E+00	2,20E-02	0	0,00E+00	1,31E+01	0,00E+00	0,00E+00
	EET	MJ	1,22E+01	0,00E+00	3,32E-01	0	0,00E+00	1,98E+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	9,79E+00
Biogenic carbon content in accompanying packaging	kg C	4,26E-02

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

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	-19,46	4,92	18,50	17,24
Total energy consumption	MJ	454,21	74,61	535,46	404,29
Amount of recycled materials	%	1,52			

Additional environmental impact indicators required in NPCR Part A for construction products									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWPIOBC	kg CO_2 -eq	2,11E+01	4,92E+00	0,00E+00	0	2,67E-01	1,07E+00	1,29E-02	-1,24E+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 (%)
Tellus nr 75 tabletop 1800x900x22 wide curve melamine	24,70	-25,81	571,53	1,42
Tellus nr 16 tabletop 1600x800x22 melamine	19,20	-19,46	454,21	1,52
Tellus nr 1 tabletop 600x300x22 melamine	2,75	-2,47	66,81	1,49
Tellus nr 2 tabletop 600x600x22 melamine	5,40	-5,23	130,49	1,51
Tellus nr 3 tabletop 800x600x22 melamine	7,20	-7,06	172,94	1,51
Tellus nr 12 tabletop 800x800x22 melamine	9,60	-9,54	229,19	1,52
Tellus nr 4 tabletop 1000x600x22 melamine	9,00	-8,90	215,39	1,52
Tellus nr 13 tabletop 1000x800x22 melamine	12,00	-12,02	285,45	1,52
Tellus nr 5 tabletop 1200x600x22 melamine	10,80	-10,74	257,85	1,52
Tellus nr 44 tabletop 1200x700x22 melamine	12,60	-12,62	299,77	1,52
Tellus nr 14 tabletop 1200x800x22 melamine	14,40	-14,50	341,70	1,52
Tellus nr 6 tabletop 1400x600x22 melamine	12,60	-12,57	300,29	1,52
Tellus nr 15 tabletop 1400x800x22 melamine	16,80	-16,98	397,96	1,52
Tellus nr 16 tabletop 1600x800x23 veneer	21,30	-24,19	483,77	1,40
Tellus nr 16 tabletop 1600x800x23 laminate	21,70	-19,76	550,45	2,90
Tellus nr 17 tabletop 1800x800 x22 melamine	21,50	-21,95	510,46	1,52
Tellus nr 17 tabletop 1800x800x23 veneer	24,00	-27,20	543,97	1,40
Tellus nr 17 tabletop 1800x800 x23 laminate	24,40	-22,28	618,71	2,90
Tellus nr 18 tabletop 2000x800 x22 melamine	23,90	-24,43	566,71	1,53
Tellus nr 70 tabletop 1600x800x22 wide curve melamine	18,20	-18,47	431,71	1,52
Tellus nr 25 corner table 1200x1200 ext. 800/800 melamine	19,65	-20,07	465,55	1,53
Tellus nr 51 corner table 1600x1200 ext. 600 melamine	21,50	-22,04	509,42	1,52
Tellus nr 52 corner table 1800x1200 ext. 600 melamine	25,80	-26,56	610,03	1,53
Tellus nr 50 corner table 2000x1200 ext. 600 melamine	25,10	-25,84	587,64	1,53
Tellus Round Tabletop Ø700x22 melamine	5,80	-5,67	138,48	1,52
Tellus Round Tabletop Ø900x22 melamine	9,50	-9,57	226,79	1,52
Tellus Round Tabletop Ø1200x22 melamine	16,90	-17,30	399,89	1,53
Tellus S Tabletop rectangular, Dim:1600 x 0900, 25mm MDF, Mushroom DT 4176 , 10/40° profile with edge	22,80	5,54	1037,51	1,47
Tellus S Tabletop rectangular, Dim:1600 x 0900, 25mm Chip board, Mushroom DT 4176 , Straight edge like surface	27,70	-15,08	828,55	1,21

Bibliography

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EN 15804:2012+A2:2019 Environmental product declaration - Core rules for the product category of construction products.
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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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