Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Saga collection with variants

Owner of the declaration:
JSC Svenheim

Product:
Saga collection with variants

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-15245-18660

Issue date:
20.03.2026

Latest revision
v2.0 Date: 26.03.2026

Valid to:
20.03.2031

EPD software:
LCAno EPD generator ID: 1501635

EPD-Global

General information

Product

Saga collection with variants

Owner of the declaration:

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Manufacturer:

JSC Svenheim

Declaration number:

NEPD-15245-18660

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 026:2022 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-Global shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Organisation no:

LT100004040014

Declared unit:

1 pcs Saga collection with variants

Issue date:

20.03.2026

Declared unit (cradle to gate) with option:

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

Valid to:

20.03.2031

Year of study:

2025

Functional unit:

-

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-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

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: 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 EPD-Global'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-Global

Product

Product description:

SAGA is thoughtfully designed furniture collection which brings consistency, functionality, and refined aesthetics to professional environments. Consists of a sideboard, display cabinet, low sideboard, and 3 drawers cabinet, the collection offers versatile storage and presentation solutions while maintaining a clean, harmonious look across the space.The balanced proportions and minimalist design create a calm, orderly atmosphere, making the collection ideal for healthcare facilities, offices, and public interiors.

Product specification

Saga sideboard with 2 doors and 3 drawers, H 942 x W 1600 x D 400 mm, body whitened oak veneer, front whitened oak veneer, flat-panel doors, whitened oak legs w/adj. feet, H 150 mm

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Chemical	0.28	0.3998	0.00	0.00
Glue for wood	0.7854	1.12	0.00	0.00
Kraft paper - Unbleached	0.16	0.2285	0.001407	0.8791
Metal - Steel	1.00	1.43	0.00	0.00
Plastic - Acrylonitrile butadiene styrene (ABS)	0.17	0.2427	0.00	0.00
Plastic - Melamine	0.02	0.02856	0.00	0.00
Wood - Chipboard	55.23	78.86	0.00	0.00
Wood - Medium Density Fibreboard (MDF)	8.90	12.71	0.00	0.00
Wood - Plywood	3.16	4.51	0.00	0.00
Wood - Solid oak	0.326	0.4655	0.00	0.00
Total	70.03	100.00	0.00	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Cardboard	0.63	30.00	0.00	0.00
Recycled cardboard	1.47	70.00	1.47	1.47
Total incl. packaging	72.13	100.00	1.47	

Technical data:

Total weight 72 kg including packaging.

Market:

Europe

Reference service life, product

15 years (warranty - 5 years)

Reference service life, building

Not relevant.

LCA: Calculation rules

Declared unit:

1 pcs Saga collection with variants

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:

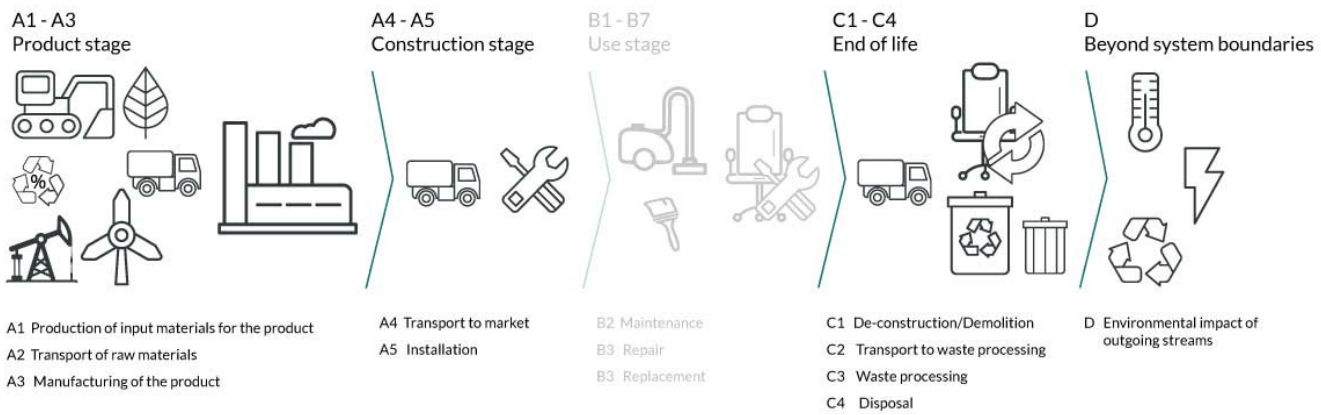
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

Materials	Source	Data quality	Year
Chemical	ecoinvent 3.6	Database	2019
Glue for wood	ecoinvent 3.6	Database	2019
Kraft paper - Unbleached	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Packaging - Cardboard	Modified ecoinvent 3.6	Database	2019
Plastic - Acrylonitrile butadiene styrene (ABS)	ecoinvent 3.6	Database	2019
Plastic - Melamine	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Wood - Chipboard	ecoinvent 3.6	Database	2019
Wood - Medium Density Fibreboard (MDF)	ecoinvent 3.6	Database	2019
Wood - Plywood	modified ecoinvent 3.6	Database	2019
Wood - Solid oak	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	MNR	X	X	X	X

System boundary:



Additional technical information:

Transportation to an average customer in Norway is 1916km (A4: average European lorry > 32 tonnes 1426km and by sea coastal barge - 490km.)

LCA: Scenarios and additional technical information

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

In the end of life stage, the transport distance for waste to waste processing is 72 km (C1). The reuse, recovery and recycling stage is beyond the system boundaries (D). It is assumed that the solution is dismantled and the materials recycled. In the table below Norwegian treatment of industrial waste is calculated. This calculation includes only CO2 emissions (GWP) in the Cmodules. The transport distance to reuse, recovery or recycling varies for each material, but the average distance is 373 km.
The vehicles used and associated data are described in detail in [5].

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 %	490.00	0.011	l/tkm	5.39
Truck, 16-32 tonnes, EURO 6 (km)	36.7 %	1426.00	0.043	l/tkm	61.32

Assembly (A5)	Unit	Value			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	1.47			
Waste, packaging, corrugated board box, 0 % recycled, to average treatment (kg)	kg	0.63			

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 Plastics, Mixture, municipal incineration with fly ash extraction (kg)	kg	0.17			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	67.62			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	0.02			
Waste treatment per kg Paperboard, incineration with fly ash extraction - C3 (kg)	kg	1.01			
Waste, materials to recycling (kg)	kg	5.53			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	16.30			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	1.11			

Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Paperboard, process per kg ashes and residues - C4 (kg)	kg	0.002859			
Landfilling of ashes from incineration of Plastics, Mixture, municipal incineration with fly ash extraction, process per kg ashes and residues - C4 (kg)	kg	0.005944			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0.7778			
Landfilling of ashes from incineration of Non-hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0.004745			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	0.6607			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0.2014			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of primary steel with net scrap (kg)	kg	0.1105			
Substitution of electricity, in Norway (MJ)	MJ	47.43			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	717.54			

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	C2	C3	C4	D
	GWP-total	kg CO_2 -eq	-5.78E+01	1.79E+01	3.60E+00	9.73E-01	2.30E+02	1.29E-01	-4.43E+00
	GWP-fossil	kg CO_2 -eq	5.84E+01	1.79E+01	3.40E-02	9.72E-01	3.84E+00	1.29E-01	-4.28E+00
	GWP-biogenic	kg CO_2 -eq	-1.16E+02	8.02E-03	3.56E+00	4.02E-04	2.27E+02	5.85E-05	-8.66E-03
	GWP-luluc	kg CO_2 -eq	2.42E-01	8.78E-03	1.12E-05	3.46E-04	7.76E-04	1.61E-05	-1.43E-01
	ODP	kg CFC11 -eq	8.20E-06	3.97E-06	7.17E-09	2.20E-07	3.62E-07	1.05E-08	-3.03E-01
	AP	mol H+ -eq	3.79E-01	6.30E-02	1.61E-04	2.79E-03	1.51E-02	3.50E-04	-3.49E-02
	EP-FreshWater	kg P -eq	2.50E-03	1.50E-04	2.79E-07	7.76E-06	7.57E-05	1.37E-06	-3.77E-04
	EP-Marine	kg N -eq	7.37E-02	1.62E-02	5.32E-05	5.53E-04	6.19E-03	1.03E-04	-1.13E-02
	EP-Terrestial	mol N -eq	1.02E+00	1.80E-01	5.76E-04	6.18E-03	6.63E-02	1.18E-03	-1.22E-01
	POCP	kg NMVOC -eq	3.18E-01	5.94E-02	1.66E-04	2.37E-03	1.67E-02	3.31E-04	-3.40E-02
	ADP-minerals&metals[1]	kg Sb-eq	1.03E-03	4.64E-04	8.27E-07	2.68E-05	1.26E-05	4.85E-07	-4.35E-05
	ADP-fossil[1]	MJ	1.02E+03	2.67E+02	4.75E-01	1.47E+01	1.79E+01	9.09E-01	-6.05E+01
	WDP[1]	m^3	2.24E+04	2.72E+02	6.02E-01	1.42E+01	5.83E+01	1.39E+01	-7.34E+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"

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	C2	C3	C4	D
	PM	Disease incidence	1.02E-05	1.03E-06	2.37E-09	5.95E-08	1.97E-07	3.75E-09	-2.09E-06
	IRP[2]	kgBq U235 -eq	5.29E+00	1.17E+00	2.03E-03	6.42E-02	6.26E-02	4.49E-03	-3.80E-01
	ETP-fw[1]	CTUe	1.81E+03	1.98E+02	6.34E-01	1.09E+01	7.24E+01	1.85E+00	-3.30E+02
	HTP-c[1]	CTUh	2.87E-07	0.00E+00	1.90E-11	0.00E+00	5.58E-09	9.50E-11	-6.51E-09
	HTP-nc[1]	CTUh	1.02E-06	2.00E-07	7.96E-10	1.19E-08	1.39E-07	3.44E-09	-2.97E-07
	SQP[1]	dimensionless	5.59E+03	1.89E+02	3.19E-01	1.03E+01	5.28E+00	2.57E+00	-3.98E+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"

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	C2	C3	C4	D
	PERE	MJ	7.37E+02	4.06E+00	7.82E-03	2.10E-01	2.13E+00	7.10E-02	-3.68E+02
	PERM	MJ	6.18E+02	0.00E+00	-1.86E+01	0.00E+00	-1.05E+03	0.00E+00	0.00E+00
	PERT	MJ	1.36E+03	4.06E+00	-1.86E+01	2.10E-01	-1.05E+03	7.10E-02	-3.68E+02
	PENRE	MJ	1.01E+03	2.67E+02	4.75E-01	1.47E+01	1.79E+01	9.09E-01	-6.05E+01
	PENRM	MJ	1.30E+01	0.00E+00	0.00E+00	0.00E+00	-1.21E+01	0.00E+00	0.00E+00
	PENRT	MJ	1.02E+03	2.67E+02	4.75E-01	1.47E+01	5.78E+00	9.09E-01	-6.05E+01
	SM	kg	1.47E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RSF	MJ	6.72E+00	1.60E-01	2.59E-04	7.53E-03	4.71E-02	1.43E-03	-6.00E-02
	NRSF	MJ	3.16E+00	5.29E-01	1.07E-03	2.69E-02	0.00E+00	2.53E-01	-2.17E+01
	FW	m^3	1.29E+00	3.02E-02	2.24E-04	1.57E-03	2.58E-02	1.18E-03	-4.43E-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"

End of life - Waste

Indicator		Unit	A1-A3	A4	A5	C2	C3	C4	D
	HWD	kg	5.92E-01	1.41E-02	0.00E+00	7.58E-04	0.00E+00	1.23E+00	-3.43E-03
	NHWD	kg	1.16E+01	1.21E+01	2.10E+00	7.15E-01	1.13E+00	4.21E-01	-1.46E+00
	RWD	kg	4.34E-03	1.82E-03	0.00E+00	1.00E-04	0.00E+00	2.67E-06	-3.11E-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"

End of life - Output flow

Indicator		Unit	A1-A3	A4	A5	C2	C3	C4	D
	CRU	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	9.41E+00	0.00E+00	1.95E+00	0.00E+00	5.53E+00	0.00E+00	0.00E+00
	MER	kg	4.74E+00	0.00E+00	2.86E-06	0.00E+00	8.62E+01	0.00E+00	0.00E+00
	EEE	MJ	3.18E+00	0.00E+00	1.20E-01	0.00E+00	4.86E+01	0.00E+00	0.00E+00
	EET	MJ	4.80E+01	0.00E+00	1.82E+00	0.00E+00	7.35E+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"

Biogenic Carbon Content

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	3.11E+01
Biogenic carbon content in accompanying packaging	kg C	9.72E-01

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, Lithuania (kWh)	ecoinvent 3.6	373.46	g CO2-eq/kWh

Dangerous substances

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

Indoor environment

Our furniture doesn't contain any constituent parts that affect indoor climate.

Additional Environmental Information

Key Environmental Indicators

Key environmental performance indicators	Unit	Product stage	Construction stage		End-of-life			Net benefits and loads from reuse, recovery, and/or recycling
		A1-A3	A4	A5	C2	C3	C4	D
GWPtotal	kg CO_2 -eq	-57.82	17.93	3.60	0.97	230.44	0.13	-4.43
Total energy consumption	MJ	1756.48	272.02	0.48	14.94	20.10	1.23	-449.73
Share of recycled materials	%	2.04						

Additional environmental impact indicators required in NPCR Part A for construction products								
Indicator	Unit	A1-A3	A4	A5	C2	C3	C4	D
GWPIOBC	kg CO_2 -eq	6.38E+01	1.79E+01	3.40E-02	9.73E-01	3.85E+00	1.30E-01	-4.37E+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 (%)
Saga display cabinet with 2 glass doors and 3 drawers, H 2093 x W 800 x 400 mm, body amber oak MFC, front amber oak MFC, clear lacquered oak legs w/adj. feet, H 150 mm	71.00	-58.28	1732.96	2.84
Saga drawer cabinet with 3 drawers, H 942 x W 800 x D 400 mm, body birch veneer, front birch veneer, clear lacquered birch legs w/adj. feet, H 150 mm	40.00	-32.61	1006.01	2.20
Saga low sideboard with 3 drawer, H 640 x W 1200 x D 400 mm, body black ash veneer, front black ash veneer, black ash legs w/adj. feet, H 150 mm	46.00	-43.34	1044.30	2.54

Bibliography

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NPCR 026 Part B for Furniture. Ver. 2.0 March 2022, EPD-Norge.

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