



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

OFFECCT Falabella











OFFECCT

Flol:

The Norwegian EPD Foundation

Owner of the declaration:

Flokk AS

Product:

OFFECCT Falabella

Declared unit:

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core

NPCR 026:2022 Part B for Furniture

Program operator:

The Norwegian EPD Foundation

Declaration number:

NEPD-8768-8444

Registration number:

NEPD-8768-8444

Issue date: 20.01.2025

Valid to: 20.01.2030

EPD software:

LCAno EPD generator ID: 763486



General information

Product

OFFECCT Falabella

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-8768-8444

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 OFFECCT Falabella

Declared unit (cradle to gate) with option:

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

Functional unit:

OFFECCT Falabella stool, stained ash veneer, upholstered seat in Cura/Gabriel – Including Packaging

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:

Contact person: Atle Thiis-Messel Phone: 0047 98 25 68 30 e-mail: atle.messel@flokk.com

Manufacturer:

Flokk AS Drammensveien 145, 0277 Oslo, Norway

Place of production:

Flokk - Turek ul. Górnicza 8 62-700 Turek, Poland

Management system:

ISO 14001, ISO 9001.

Organisation no:

No 928 902 749

Issue date:

20.01.2025

Valid to:

20.01.2030

Year of study:

2024

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: Damian Bakowski

Reviewer of company-specific input data and EPD: Monika Kuczynska

Approved:

Håkon Hauan

Managing Director of EPD-Norway



Product

Product description:

Falabella is a tribute to the craftsmanship and love of a carefully chiseled solitaire. Designed by Lucy Kurrein, Falabella is a neat and lightweight piece of furniture with a personal shape and a name borrowed from the world's smallest horse. The stool is small, neat and lightweight, made of plywood, sculptural in its expression and easy both to move around and to like.

Product specification

The model studied in detail in this declaration is the OFFECCT Falabella stool, stained ash veneer, upholstered seat in Cura from Gabriel including carton box packaging. The key environmental indicators for the other models and option of the OFFECCT Falabella are presented on a table page 11 of this declaration.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Adhesive	0,15	3,68	0,00	2,54
Glue for wood	0,06	1,47	0,00	0,00
Plastic - Polyethylene (LDPE)	0,01	0,29	0,00	0,00
Textile - Felt	0,02	0,51	0,01	50,00
Wood - Solid ash	0,80	19,61	0,00	0,00
Chemical	0,04	0,98	0,00	0,00
Textile - Polyester	0,05	1,21	0,05	97,80
Wood - Plywood	2,95	72,25	0,00	0,00
Total	4,08	100,00	0,06	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Paper	0,01	0,38	0,00	34,31
Packaging - Plastic	0,07	5,13	0,00	0,00
Recycled cardboard	1,29	94,48	1,29	100,00
Total incl. packaging	5,44	100,00	1,35	

Technical data:

Stool in stained ash veneer.

Available in white pigmented ash veneer or black stained ash veneer Upholstered seat as option.

Dimensions: Height: 44 cm

Seat height: 44 cm Width: 41.1 cm Depth: 41.1 cm

Market:

Worldwide

Reference service life, product

15 years (warranty 5 years)

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs OFFECCT Falabella

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:



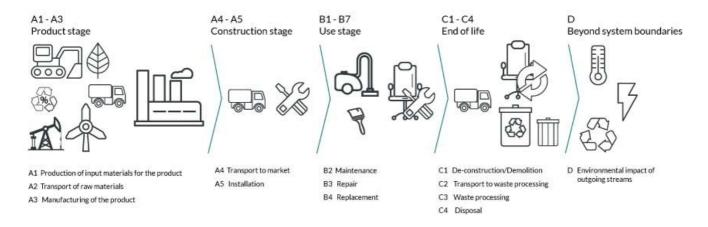
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

Materials	Source	Data quality	Year
Adhesive	Modified ecoinvent 3.6	Database/Supplier	2019
Chemical	ecoinvent 3.6	Database	2019
Glue for wood	ecoinvent 3.6	Database	2019
Packaging - Paper	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Polyethylene (LDPE)	ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Textile - Felt	Modified ecoinvent 3.6	Database	2019
Textile - Polyester	ecoinvent 3.6	Database	2019
Textile - Polyester	Modified ecoinvent 3.6	Database	2019
Wood - Plywood	modified ecoinvent 3.6	Database	2019
Wood - Solid ash	modified ecoinvent 3.6	Database	2019

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

Р	roduct stag	ge		uction on 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	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
Χ	Χ	Χ	Χ	Χ	MND	X	Χ	Χ	MND	MND	MND	Χ	X	X	Χ	X

System boundary:



Additional technical information:



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)
Truck, over 32 tonnes, EURO 5 (km)	53,3 %	1000	0,023	l/tkm	23,00
Assembly (A5)	Unit	Value			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	1,28			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0,070			
Waste, packaging, paper printed, to average treatment (kg)	kg	0,0052			
Maintenance (B2)	Unit	Value			
Water, tap water (m3)	m3/DU	0,78			
Electricity, European average (kWh)	kWh/DU	10,53			
Electricity, World average (kWh)	kWh/DU	1,17			
Repair (B3)	Unit	Value			
Electricity, European average (kWh)	kWh/DU	0,49			
Electricity, World average (kWh)	kWh/DU	0,055			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 5 (km)	36,7 %	85	0,044	l/tkm	3,74
Waste processing (C3)	Unit	Value			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	0,070			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,25			
Waste treatment per kg Wood, incineration with fly ash extraction (kg)	kg	3,74			
Waste treatment per kg Polyethylene, PE, incineration with fly ash extraction - C3 (kg)	kg	0,012			
Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,0035			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0,047			
Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg)	kg	0,043			
Landfilling of ashes from incineration of Polyethylene, PE, process per kg ashes and residues - C4 (kg)	kg	0,00042			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	2,69			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	40,75			



LCA: Results

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

	ental impact							
	Indicator	Unit		A1-A3	A4	A5	B2	В3
	GWP-total	kg CO ₂ -	eq	-3,42E+00	4,95E-01	2,22E+00	5,67E+00	2,54E-01
	GWP-fossil	kg CO ₂ -	kg CO ₂ -eq		4,95E-01	2,65E-02	5,62E+00	2,52E-01
	GWP-biogenic	kg CO ₂ -	eq	-8,25E+00	2,03E-04	2,20E+00	3,61E-02	1,62E-03
	GWP-luluc	kg CO ₂ -	eq	2,34E-02	1,44E-04	7,34E-06	1,27E-02	5,74E-04
٨	ODP	kg CFC11	-eq	6,15E-07	1,14E-07	4,75E-09	4,39E-07	1,95E-08
CE.	AP	mol H+	-eq	3,13E-02	2,08E-03	1,06E-04	3,22E-02	1,44E-03
	EP-FreshWater	kg P -e	q	2,77E-04	3,77E-06	1,83E-07	5,47E-04	2,47E-05
	EP-Marine	kg N -e	q	8,93E-03	6,25E-04	3,90E-05	4,31E-03	1,91E-04
	EP-Terrestial	mol N -	eq	1,01E-01	6,92E-03	3,79E-04	5,22E-02	2,32E-03
	POCP	kg NMVO	C -eq	2,86E-02	2,22E-03	1,10E-04	1,35E-02	5,94E-04
	ADP-minerals&metals ¹	kg Sb-є	q	1,14E-04	8,45E-06	5,39E-07	4,34E-05	1,69E-06
	ADP-fossil ¹	MJ	MJ		7,69E+00	3,16E-01	1,08E+02	4,87E+00
<u></u>	WDP ¹	m3	m ³		5,90E+00	4,52E-01	1,51E+03	6,70E+01
(%)		111		1,27E+04	3,301100	4,32L 01	1,5112+05	0,702+01
	Indicator	Unit	B4	C1	C2	C3	C4	D
			B4 0					
	Indicator	Unit		C1	C2	C3	C4	D
	Indicator GWP-total	Unit kg CO ₂ -eq	0	C1 0	C2 7,72E-02	C3 6,99E+00	C4 2,25E-02	D -2,45E-01
	Indicator GWP-total GWP-fossil	Unit kg CO ₂ -eq kg CO ₂ -eq	0	0 0	C2 7,72E-02 7,71E-02	C3 6,99E+00 6,37E-01	C4 2,25E-02 2,25E-02	D -2,45E-01 -2,36E-01
P	Indicator GWP-total GWP-fossil GWP-biogenic	Unit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq	0 0 0	C1 0 0	C2 7,72E-02 7,71E-02 3,14E-05	C3 6,99E+00 6,37E-01 6,35E+00	C4 2,25E-02 2,25E-02 9,64E-06	D -2,45E-01 -2,36E-01 -4,88E-04
Ф Ф Ф	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc	Wnit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq	0 0 0	0 0 0 0	C2 7,72E-02 7,71E-02 3,14E-05 2,70E-05	C3 6,99E+00 6,37E-01 6,35E+00 1,47E-04	C4 2,25E-02 2,25E-02 9,64E-06 2,29E-06	D -2,45E-01 -2,36E-01 -4,88E-04 -8,14E-03
Ф Ф Ф	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP	Wnit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq	0 0 0 0 0	0 0 0 0 0	C2 7,72E-02 7,71E-02 3,14E-05 2,70E-05 1,76E-08	C3 6,99E+00 6,37E-01 6,35E+00 1,47E-04 6,74E-08	C4 2,25E-02 2,25E-02 9,64E-06 2,29E-06 1,22E-09	D -2,45E-01 -2,36E-01 -4,88E-04 -8,14E-03 -1,72E-02
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP	Wnit kg CO ₂ -eq mol H+ -eq	0 0 0 0 0	0 0 0 0 0 0	C2 7,72E-02 7,71E-02 3,14E-05 2,70E-05 1,76E-08 3,15E-04	C3 6,99E+00 6,37E-01 6,35E+00 1,47E-04 6,74E-08 1,42E-03	C4 2,25E-02 2,25E-02 9,64E-06 2,29E-06 1,22E-09 4,79E-05	D -2,45E-01 -2,36E-01 -4,88E-04 -8,14E-03 -1,72E-02 -1,95E-03
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater	Wnit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CFC11 -eq mol H+ -eq kg P -eq	0 0 0 0 0 0	0 0 0 0 0 0	C2 7,72E-02 7,71E-02 3,14E-05 2,70E-05 1,76E-08 3,15E-04 6,06E-07	C3 6,99E+00 6,37E-01 6,35E+00 1,47E-04 6,74E-08 1,42E-03 1,41E-05	C4 2,25E-02 2,25E-02 9,64E-06 2,29E-06 1,22E-09 4,79E-05 2,25E-07	D -2,45E-01 -2,36E-01 -4,88E-04 -8,14E-03 -1,72E-02 -1,95E-03 -2,10E-05
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine	Wnit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CFC11 -eq mol H+ -eq kg P -eq kg N -eq	0 0 0 0 0 0	0 0 0 0 0 0 0	C2 7,72E-02 7,71E-02 3,14E-05 2,70E-05 1,76E-08 3,15E-04 6,06E-07 9,35E-05	C3 6,99E+00 6,37E-01 6,35E+00 1,47E-04 6,74E-08 1,42E-03 1,41E-05 4,57E-04	C4 2,25E-02 2,25E-02 9,64E-06 2,29E-06 1,22E-09 4,79E-05 2,25E-07 1,28E-05	D -2,45E-01 -2,36E-01 -4,88E-04 -8,14E-03 -1,72E-02 -1,95E-03 -2,10E-05 -6,36E-04
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial	Wnit kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CFC11 -eq mol H+ -eq kg P -eq kg N -eq mol N -eq	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	7,72E-02 7,71E-02 3,14E-05 2,70E-05 1,76E-08 3,15E-04 6,06E-07 9,35E-05 1,03E-03	C3 6,99E+00 6,37E-01 6,35E+00 1,47E-04 6,74E-08 1,42E-03 1,41E-05 4,57E-04 4,97E-03	C4 2,25E-02 2,25E-02 9,64E-06 2,29E-06 1,22E-09 4,79E-05 2,25E-07 1,28E-05 1,49E-04	D -2,45E-01 -2,36E-01 -4,88E-04 -8,14E-03 -1,72E-02 -1,95E-03 -2,10E-05 -6,36E-04 -6,88E-03
	Indicator GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial POCP	kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CFC11 -eq mol H+ -eq kg P -eq kg N -eq mol N -eq	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	C2 7,72E-02 7,71E-02 3,14E-05 2,70E-05 1,76E-08 3,15E-04 6,06E-07 9,35E-05 1,03E-03 3,17E-04	C3 6,99E+00 6,37E-01 6,35E+00 1,47E-04 6,74E-08 1,42E-03 1,41E-05 4,57E-04 4,97E-03 1,28E-03	C4 2,25E-02 2,25E-02 9,64E-06 2,29E-06 1,22E-09 4,79E-05 2,25E-07 1,28E-05 1,49E-04 4,16E-05	D -2,45E-01 -2,36E-01 -4,88E-04 -8,14E-03 -1,72E-02 -1,95E-03 -2,10E-05 -6,36E-04 -6,88E-03 -1,90E-03

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 er	Additional environmental impact indicators									
	Indicator	Unit		A1-A3	A4	A5	B2	В3		
	PM	Disease incidence		1,15E-06	4,35E-08	1,58E-09	1,14E-07	4,75E-09		
(**)	IRP ²	kgBq U235 -eq		2,81E-01	3,36E-02	1,36E-03	8,90E-01	4,03E-02		
4	ETP-fw ¹	CTUe		2,99E+02	5,63E+00	4,12E-01	8,66E+01	3,84E+00		
44. *** <u>B</u>	HTP-c ¹	CTUh		1,54E-08	0,00E+00	1,30E-11	2,79E-09	9,70E-11		
4% B	HTP-nc ¹	CTUh		8,02E-08	5,44E-09	5,11E-10	8,81E-08	3,37E-09		
	SQP ¹	dimensionless		7,27E+02	8,83E+00	2,36E-01	2,53E+01	1,13E+00		
li	ndicator	Unit	B4	C1	C2	C3	C4	D		
	PM	Disease incidence	0	0	5,55E-09	1,88E-08	3,65E-10	-1,18E-07		
	IRP ²	kgBq U235 -eq	0	0	5,08E-03	1,13E-02	6,23E-04	-2,16E-02		
	ETP-fw ¹	CTUe	0	0	8,57E-01	1,20E+01	3,11E-01	-1,84E+01		
20. x	HTP-c ¹	CTUh	0	0	0,00E+00	6,67E-10	1,60E-11	-3,36E-10		
₩ <u></u>	HTP-nc ¹	CTUh	0	0	9,25E-10	9,87E-09	6,06E-10	-1,76E-08		
	SQP ¹	dimensionless	0	0	8,02E-01	9,73E-01	3,32E-01	-2,26E+01		

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.

Flol: l:

Resource use								
	Indicator		Unit	A1-A3	A4	A5	B2	В3
Ç.	PERE		MJ	1,76E+02	9,69E-02	5,40E-03	1,99E+01	9,05E-01
	PERM		MJ		0,00E+00	-7,61E+00	0,00E+00	0,00E+00
্ব	PERT		MJ	2,37E+02	9,69E-02	-7,60E+00	1,99E+01	9,05E-01
3	PENRE		MJ	7,17E+01	7,70E+00	3,16E-01	1,08E+02	4,88E+00
	PENRM		MJ	8,33E+00	0,00E+00	-2,97E+00	0,00E+00	0,00E+00
IA	PENRT		MJ	8,01E+01	7,70E+00	-2,66E+00	1,08E+02	4,88E+00
	SM		kg	1,35E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
2	RSF		MJ		3,39E-03	1,75E-04	1,38E+00	6,27E-02
	NRSF		МЈ		1,14E-02	6,98E-04	3,70E-01	1,51E-02
®	FW		m ³		8,76E-04	1,50E-04	8,69E-01	3,99E-03
	ndicator	Unit	D.4					
NZ N		Unit	B4	C1	C2	C3	C4	D
	PERE	MJ	0	0	1,64E-02	4,32E-01	C4 1,28E-02	-2,09E+01
<u>.</u>								
	PERE	МЈ	0	0	1,64E-02	4,32E-01	1,28E-02	-2,09E+01
	PERE PERM	MJ	0	0	1,64E-02 0,00E+00	4,32E-01 -5,24E+01	1,28E-02 0,00E+00	-2,09E+01 0,00E+00
4	PERE PERM PERT	MJ MJ	0 0 0	0 0	1,64E-02 0,00E+00 1,64E-02	4,32E-01 -5,24E+01 -5,20E+01	1,28E-02 0,00E+00 1,28E-02	-2,09E+01 0,00E+00 -2,09E+01
4 45 B	PERE PERM PERT PENRE	MJ MJ MJ	0 0 0 0	0 0 0	1,64E-02 0,00E+00 1,64E-02 1,16E+00	4,32E-01 -5,24E+01 -5,20E+01 2,70E+00	1,28E-02 0,00E+00 1,28E-02 1,15E-01	-2,09E+01 0,00E+00 -2,09E+01 -3,38E+00
4	PERE PERM PERT PENRE PENRM	MJ MJ MJ	0 0 0 0 0 0	0 0 0 0	1,64E-02 0,00E+00 1,64E-02 1,16E+00 0,00E+00	4,32E-01 -5,24E+01 -5,20E+01 2,70E+00 -4,96E+00	1,28E-02 0,00E+00 1,28E-02 1,15E-01 0,00E+00	-2,09E+01 0,00E+00 -2,09E+01 -3,38E+00 0,00E+00
# # # # #	PERE PERM PERT PENRE PENRM PENRT	MJ MJ MJ	0 0 0 0 0	0 0 0 0 0	1,64E-02 0,00E+00 1,64E-02 1,16E+00 0,00E+00 1,16E+00	4,32E-01 -5,24E+01 -5,20E+01 2,70E+00 -4,96E+00 -2,25E+00	1,28E-02 0,00E+00 1,28E-02 1,15E-01 0,00E+00 1,15E-01	-2,09E+01 0,00E+00 -2,09E+01 -3,38E+00 0,00E+00 -3,38E+00
	PERE PERM PERT PENRE PENRM PENRT SM	MJ MJ MJ MJ MJ kg	0 0 0 0 0 0	0 0 0 0 0 0	1,64E-02 0,00E+00 1,64E-02 1,16E+00 0,00E+00 1,16E+00 0,00E+00	4,32E-01 -5,24E+01 -5,20E+01 2,70E+00 -4,96E+00 -2,25E+00 0,00E+00	1,28E-02 0,00E+00 1,28E-02 1,15E-01 0,00E+00 1,15E-01 0,00E+00	-2,09E+01 0,00E+00 -2,09E+01 -3,38E+00 0,00E+00 -3,38E+00 0,00E+00

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; 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

Flol: l:

End of life - Waste									
	Indicator			Unit		A4	A5	B2	В3
	HWD	HWD		kg		4,21E-04	0,00E+00	1,87E-02	8,39E-04
Ū	NHWD		k	g	1,34E+00	6,69E-01	1,36E+00	4,24E-01	1,73E-02
.	RWD		kg		2,97E-04	5,25E-05	0,00E+00	7,21E-04	3,26E-05
In	dicator		Unit	B4	C1	C2	C3	C4	D
	HWD		kg	0	0	5,93E-05	0,00E+00	3,18E-02	-1,59E-04
Ū	NHWD		kg	0	0	5,56E-02	2,50E-01	5,94E-02	-7,98E-02
®	RWD		kg	0	0	7,93E-06	0,00E+00	9,20E-08	-1,77E-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								
Ind	icator	Ur	it	A1-A3	A4	A5	B2	В3
@ D	CRU	k	kg		0,00E+00	0,00E+00	0,00E+00	0,00E+00
&>	MFR	k	9	8,33E-01	0,00E+00	1,24E+00	0,00E+00	0,00E+00
DF	MER	k	3	6,61E-06	0,00E+00	3,69E-04	0,00E+00	0,00E+00
50	EEE	M	MJ		0,00E+00	7,40E-02	0,00E+00	0,00E+00
	EET	M	J	6,97E+00	0,00E+00	1,12E+00	0,00E+00	0,00E+00
Indicato	r	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	0,00E+00	0,00E+00	0,00E+00
DØ	MER	kg	0	0	0,00E+00	4,08E+00	0,00E+00	0,00E+00
50	EEE	MJ	0	0	0,00E+00	2,68E+00	0,00E+00	0,00E+00
DI	EET	MJ	0	0	0,00E+00	4,05E+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*10-3 = 0,009" *INA Indicator Not Assessed

Biogenic Carbon Content								
Unit	At the factory gate							
kg C	1,70E+00							
kg C	5,99E-01							
	kg C							

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, high voltage, hydro (kWh) - PL	ecoinvent 3.6	4,02	g CO2-eg/kWh

Dangerous substances

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

Indoor environment

Greenguard Gold.

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO ₂ -eq	-3,42	0,50	12,30	12,06
Total energy consumption	MJ	248,34	7,81	396,72	371,23
Amount of recycled materials	%	24,78			

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		4,95E-01	2,65E-02	5,99E+00	2,69E-01
Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	7,72E-02	7,54E-01	2,28E-02	-2,41E-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)	GWPtotal (kg CO ₂ -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)			
OFFECCT Falabella stool, stained ash veneer – No Packaging	3,80	-3,42	199,78	0,00			
OFFECCT Falabella stool, stained ash veneer, uholstered seat (Cura/Gabriel) – No Packaging	4,09	-2,68	210,20	1,53			

Key environmental indicators (A1-A3) for options for this EPD						
Options	Weight (kg)	GWPtotal (kg CO ₂ -eq)	Total energy consumption (MJ)	Amount of recycled materials (%)		
OFFECCT Falabella – Packaging	1,36	-0,72	38,45	94,61		



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