

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

OFFECCT SOUNDWAVE® ACOUSTIC PANELS



Soundwave Bella



Soundwave

Botanic



Soundwave Ceramic





Soundwave Geo



Soundwave Jasmine



Soundwave Luna



Soundwave swell



small



Soundwave Wall



Soundwave Pix large



Soundwave Village

Owner of the declaration:

OFFECCT SOUNDWAVE® ACOUSTIC PANELS

NPCR 026:2022 Part B for Furniture

This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A2:2019 serves as core

Flokk AS

Product:

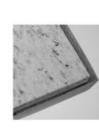
1 pcs

PCR

Declared unit:



Soundwave Wicker



Soundwave Basfill



Soundwave Stripes

OFFECCT

Program operator: The Norwegian EPD Foundation

Declaration number:

NEPD-7061-6454-EN

Registration number:

NEPD-7061-6454-EN

Issue date: 05.07.2024

Valid to: 05.07.2029

EPD software: LCAno EPD generator ID: 450766

liol:l:















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General information

Product OFFECCT SOUNDWAVE® ACOUSTIC PANELS

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-7061-6454-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 OFFECCT SOUNDWAVE® ACOUSTIC PANELS

Declared unit (cradle to gate) with option:

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

Functional unit:

OFFECCT SOUNDWAVE® CERAMIC, ACOUSTIC PANEL 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:

Flokk AS 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, ISO 50001(Norway, Sweden)

Organisation no:

No 928 902 749

Issue date:

05.07.2024

Valid to: 05.07.2029

03.07.2025

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: Damian Bakowski

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

Approved:

Håkon Hauan Managing Director of EPD-Norway

Product

Product description:

Offecct offers a wide range of sound absorbing panels designed by our renowned designers. The strong collection Soundwave® is a well-known collection of modern acoustic wall panels that apart from its acoustic properties also brings character to the interior. The flexibility of the systemalso allows you to create your own patterns and give eachroom its own identity. The only limit is your imagination.

Product specification

The model studied in this declaration is the OFFECCT SOUNDWAVE® CERAMIC acoustic panel, including packaging. The model declared does not include any options such as fabric covers. Key environmental indicators for other models within the family, as well as applicable product collection options, are presented in a table on page 11 of this declaration.

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Adhesive	0,01	0,97	0,00	0,00
Plastic - Polyamide	0,02	1,93	0,00	0,00
Textile - Felt	0,80	97,10	0,44	55,00
Total	0,83	100,00	0,44	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Packaging - Paper	0,00	0,25	0,00	34,31
Packaging - Plastic	ackaging - Plastic 0,07		0,00	0,00
Recycled cardboard	0,93	92,73	0,93	100,00
Total incl. packaging	1,83	100,00	1,37	

Technical data:

Soundwave Panels are designed to be used as lightweight sound absorbers in the upper frequency range (500 Hz and above). These panels help reduce disturbing reflections of environmental sounds such as voices, telephones, etc. They are made of recyclable molded polyester fiber in anthracite, grey, and off-white, alternatively upholstered in Europost from Gabriel.

ACCESSORIES: Separate filling made of recycled textile and PET. Basfill is placed inside the Soundwave panels to enhance sound absorption in the lower frequency range (150-500 Hz).

Market:

Worldwide

Reference service life, product

5 years

Reference service life, building

LCA: Calculation rules

Declared unit:

1 pcs OFFECCT SOUNDWAVE® ACOUSTIC PANELS

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:

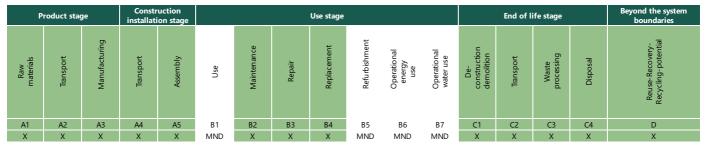
Specific data for the product composition are provided by the manufacturer. They represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on registered EPDs according to EN 15804, Ostfold Research databases, ecoinvent and other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

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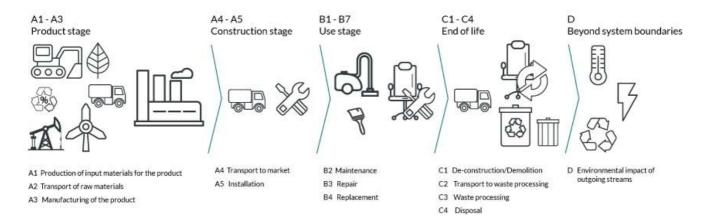
Materials	Source	Data quality	Year
Adhesive	ecoinvent 3.6	Database	2019
Packaging - Paper	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Polyamide	Modified ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Textile - Felt	Modified ecoinvent 3.6	Database	2019

|**:**|o|:|:

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



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	0,93			
Waste, packaging, paper printed, to average treatment (kg)	kg	0,00			
Waste, packaging, plastic film (LDPE), to average treatment - A5 (kg)	kg	0,07			
Maintenance (B2)	Unit	Value			
Electricity, European average (kWh)	kWh/DU	10,53			
Electricity, World average (kWh)	kWh/DU	1,17			
Water, tap water (m3)	m3/DU	0,78			
Repair (B3)	Unit	Value			
Electricity, European average (kWh)	kWh/DU	0,50			
Electricity, World average (kWh)	kWh/DU	0,06			
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	1.441	274
	30,1 70	05	0,011	l/tkm	3,74
Waste processing (C3)	Unit	Value	0,011	i/tkm	3,74
Waste processing (C3) Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)			C, C	l/tkm	3,74
Waste treatment per kg Non-hazardous waste,	Unit	Value		i/tkm	3,74
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg) Waste treatment per kg Textile, incineration with	Unit kg	Value 0,01		i/tkm	3,74
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg) Waste treatment per kg Textile, incineration with fly ash extraction (kg)	Unit kg kg	Value 0,01 0,82		i/tkm	3,74
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg) Waste treatment per kg Textile, incineration with fly ash extraction (kg) Disposal (C4) Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and	Unit kg kg Unit	Value 0,01 0,82 Value		i/tkm	3,74
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg) Waste treatment per kg Textile, incineration with fly ash extraction (kg) Disposal (C4) Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg) Landfilling of ashes from incineration of Textile,	Unit kg kg Unit kg	Value 0,01 0,82 Value 0,00		i/tkm	3,74
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg) Waste treatment per kg Textile, incineration with fly ash extraction (kg) Disposal (C4) Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg) Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg) Benefits and loads beyond the system	Unit kg kg Unit kg kg	Value 0,01 0,82 Value 0,00 0,04			3,74

LCA: Results

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

Environm	ental impact							
	Indicator	Unit		A1-A3	A4	A5	B2	B3
Ð	GWP-total	kg CO ₂	-eq	4,29E+00	1,66E-01	1,60E+00	5,67E+00	2,54E-01
Ŧ	GWP-fossil	kg CO ₂	-eq	5,63E+00	1,66E-01	2,05E-02	5,62E+00	2,52E-01
(P)	GWP-biogenic	kg CO ₂	-eq	-1,36E+00	6,81E-05	1,57E+00	3,61E-02	1,62E-03
P	GWP-luluc	kg CO ₂	-eq	1,09E-02	4,84E-05	5,39E-06	1,27E-02	5,74E-04
Ò	ODP	kg CFC1	1 -eq	4,97E-07	3,83E-08	3,50E-09	4,39E-07	1,95E-08
(F	АР	mol H+	-eq	3,12E-02	6,97E-04	7,79E-05	3,22E-02	1,44E-03
	EP-FreshWater	kg P -	eq	2,56E-04	1,26E-06	1,35E-07	5,47E-04	2,47E-05
÷	EP-Marine	kg N -	eq	7,92E-03	2,10E-04	2,98E-05	4,31E-03	1,91E-04
	EP-Terrestial	mol N	-eq	9,06E-02	2,32E-03	2,79E-04	5,22E-02	2,32E-03
	POCP	kg NMVO	C -eq	2,72E-02	7,46E-04	8,12E-05	1,35E-02	5,94E-04
s.	ADP-minerals&metals ¹	kg Sb-	eq	5,55E-04	2,83E-06	3,95E-07	4,34E-05	1,69E-06
Ð	ADP-fossil ¹	MJ		8,57E+01	2,58E+00	2,33E-01	1,08E+02	4,87E+00
<u>%</u>	WDP ¹	m ³		1,24E+04	1,98E+00	3,47E-01	1,51E+03	6,70E+01
	Indicator	Unit	B4	C1	C2	C3	C4	D
P								
T.	GWP-total	kg CO ₂ -eq	0	0	2,59E-02	1,23E+00	1,36E-04	-6,80E-02
P	GWP-total GWP-fossil	kg CO ₂ -eq kg CO ₂ -eq	0	0	2,59E-02 2,59E-02	1,23E+00 2,88E-02	1,36E-04 1,31E-04	-6,80E-02 -6,56E-02
-								
P	GWP-fossil	kg CO ₂ -eq	0	0	2,59E-02	2,88E-02	1,31E-04	-6,56E-02
¢	GWP-fossil GWP-biogenic	kg CO ₂ -eq kg CO ₂ -eq	0	0 0	2,59E-02 1,05E-05	2,88E-02 1,20E+00	1,31E-04 5,08E-06	-6,56E-02 -1,35E-04
P P P	GWP-fossil GWP-biogenic GWP-luluc	kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq	0 0 0	0 0 0	2,59E-02 1,05E-05 9,04E-06	2,88E-02 1,20E+00 1,85E-06	1,31E-04 5,08E-06 2,01E-08	-6,56E-02 -1,35E-04 -2,26E-03
P P P	GWP-fossil GWP-biogenic GWP-luluc ODP	kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CFC11 -eq	0 0 0 0 0 0	0 0 0 0	2,59E-02 1,05E-05 9,04E-06 5,90E-09	2,88E-02 1,20E+00 1,85E-06 9,60E-10	1,31E-04 5,08E-06 2,01E-08 1,40E-11	-6,56E-02 -1,35E-04 -2,26E-03 -4,78E-03
P P P O	GWP-fossil GWP-biogenic GWP-luluc ODP AP	kg CO ₂ -eq kg CO ₂ -eq kg CO ₂ -eq kg CFC11 -eq mol H+ -eq		0 0 0 0 0	2,59E-02 1,05E-05 9,04E-06 5,90E-09 1,06E-04	2,88E-02 1,20E+00 1,85E-06 9,60E-10 1,31E-04	1,31E-04 5,08E-06 2,01E-08 1,40E-11 4,62E-07	-6,56E-02 -1,35E-04 -2,26E-03 -4,78E-03 -5,40E-04
	GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater	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	2,59E-02 1,05E-05 9,04E-06 5,90E-09 1,06E-04 2,03E-07	2,88E-02 1,20E+00 1,85E-06 9,60E-10 1,31E-04 1,80E-07	1,31E-04 5,08E-06 2,01E-08 1,40E-11 4,62E-07 1,76E-09	-6,56E-02 -1,35E-04 -2,26E-03 -4,78E-03 -5,40E-04 -5,83E-06
	GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine	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 0 0 0	2,59E-02 1,05E-05 9,04E-06 5,90E-09 1,06E-04 2,03E-07 3,14E-05	2,88E-02 1,20E+00 1,85E-06 9,60E-10 1,31E-04 1,80E-07 6,26E-05	1,31E-04 5,08E-06 2,01E-08 1,40E-11 4,62E-07 1,76E-09 1,44E-07	-6,56E-02 -1,35E-04 -2,26E-03 -4,78E-03 -5,40E-04 -5,83E-06 -1,77E-04
	GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial	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	2,59E-02 1,05E-05 9,04E-06 5,90E-09 1,06E-04 2,03E-07 3,14E-05 3,47E-04	2,88E-02 1,20E+00 1,85E-06 9,60E-10 1,31E-04 1,80E-07 6,26E-05 6,64E-04	1,31E-04 5,08E-06 2,01E-08 1,40E-11 4,62E-07 1,76E-09 1,44E-07 1,64E-06	-6,56E-02 -1,35E-04 -2,26E-03 -4,78E-03 -5,40E-04 -5,83E-06 -1,77E-04 -1,91E-03
	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 CFC11 -eq mol H+ -eq kg P -eq kg N -eq mol N -eq kg NMVOC -eq		0 0 0 0 0 0 0 0 0 0	2,59E-02 1,05E-05 9,04E-06 5,90E-09 1,06E-04 2,03E-07 3,14E-05 3,47E-04 1,06E-04	2,88E-02 1,20E+00 1,85E-06 9,60E-10 1,31E-04 1,80E-07 6,26E-05 6,64E-04 1,63E-04	1,31E-04 5,08E-06 2,01E-08 1,40E-11 4,62E-07 1,76E-09 1,44E-07 1,64E-06 4,54E-07	-6,56E-02 -1,35E-04 -2,26E-03 -4,78E-03 -5,40E-04 -5,83E-06 -1,77E-04 -1,91E-03 -5,27E-04

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	Unit		A4	A5	B2	B3
	PM	Disease incidence		3,56E-07	1,46E-08	1,17E-09	1,14E-07	4,75E-09
()~() B	IRP ²	kgBq U235 -eq		2,14E-01	1,13E-02	1,00E-03	8,90E-01	4,03E-02
	ETP-fw ¹	CTUe		2,20E+02	1,89E+00	3,02E-01	8,66E+01	3,84E+00
444 ** *****	HTP-c ¹	CTUh		3,45E-09	0,00E+00	9,00E-12	2,79E-09	9,70E-11
4 <u>6</u>	HTP-nc ¹	CTUh	CTUh		1,83E-09	3,73E-10	8,81E-08	3,37E-09
	SQP ¹	dimensionless	dimensionless		2,96E+00	1,81E-01	2,53E+01	1,13E+00
h	ndicator	Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	1,86E-09	1,36E-09	6,00E-12	-3,27E-08
(***) E	IRP ²	kgBq U235 -eq	0	0	1,70E-03	1,68E-04	5,69E-06	-5,99E-03
	ETP-fw ¹	CTUe	0	0	2,87E-01	2,09E-01	2,25E-03	-5,10E+00
44.* ****	HTP-c ¹	CTUh	0	0	0,00E+00	3,00E-11	0,00E+00	-9,40E-11
42°	HTP-nc ¹	CTUh	0	0	3,10E-10	1,44E-09	4,00E-12	-4,89E-09
è	SQP ¹	dimensionless	0	0	2,69E-01	1,25E-02	1,86E-03	-6,27E+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"

*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	Resource use								
	Indicator		U	nit	A1-A3	A4	A5	B2	B3
i di seconda di second	PERE		Ν	۲N	4,35E+01	3,25E-02	4,03E-03	1,99E+01	9,05E-01
	PERM		Ν	۱J	5,45E+00	0,00E+00	-5,45E+00	0,00E+00	0,00E+00
ି 📬	PERT		Ν	۱J	4,89E+01	3,25E-02	-5,44E+00	1,99E+01	9,05E-01
A	PENRE		Ν	۱J	6,30E+01	2,58E+00	2,33E-01	1,08E+02	4,88E+00
Å2	PENRM		Ν	۱J	2,24E+01	0,00E+00	-2,97E+00	0,00E+00	0,00E+00
IA	PENRT		Ν	۱J	8,53E+01	2,58E+00	-2,74E+00	1,08E+02	4,88E+00
	SM		k	g	1,37E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
1	RSF		Ν	۱J	1,34E-01	1,14E-03	1,30E-04	1,38E+00	6,27E-02
<u>M</u>	NRSF		Ν	٨J	1,09E-01	3,81E-03	5,12E-04	3,70E-01	1,51E-02
\$	FW		n	1 ³	7,22E-02	2,94E-04	1,11E-04	8,69E-01	3,99E-03
	ndicator	Ur	nit	B4	C1	C2	C3	C4	D
i I	PERE	N	Ŋ	0	0	5,50E-03	2,96E-03	6,94E-05	-5,79E+00
æ	PERM	N	Ŋ	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
°F.	PERT	N	Ŋ	0	0	5,50E-03	2,96E-03	6,94E-05	-5,79E+00
B	PENRE	N	IJ	0	0	3,90E-01	9,70E-02	1,28E-03	-9,38E-01
Å	PENRM	N	۱J	0	0	0,00E+00	-1,94E+01	0,00E+00	0,00E+00
IA	PENRT	N	IJ	0	0	3,90E-01	-1,93E+01	1,28E-03	-9,38E-01
	SM	k	g	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	RSF	N	۱J	0	0	1,97E-04	6,94E-05	1,72E-06	-1,01E-03
<u>I</u>	NRSF	N	۱J	0	0	7,03E-04	0,00E+00	0,00E+00	-3,43E-01
۲	FW	m	1 ³	0	0	4,11E-05	1,72E-04	1,11E-06	-6,98E-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; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy resources; SM = Use of secondary materials; PERT = Total use of non renewable primary energy resources; SM = Use of secondary materials; REF = Use of renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of renewable primary energy resources; SM = Use of non-renewable primary energy resources; SM = Use of secondary fuels; REF = Use of non-renewable primary energy resources; SM = Use of non-renewable primary energy ener

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

End of life - Waste									
	Indicator		Ui	nit	A1-A3	A4	A5	B2	B3
à	HWD		k	g	1,53E-01	1,41E-04	0,00E+00	1,87E-02	8,39E-04
Ū	NHWD	kg		g	1,79E+00	2,24E-01	9,98E-01	4,24E-01	1,73E-02
	RWD		k	g	2,20E-04	1,76E-05	0,00E+00	7,21E-04	3,26E-05
In	dicator		Unit	B4	C1	C2	C3	C4	D
à	HWD		kg	0	0	1,99E-05	0,00E+00	3,34E-03	-4,41E-05
Ū	NHWD		kg	0	0	1,86E-02	8,00E-03	1,34E-03	-2,22E-02
8	RWD		kg	0	0	2,66E-06	0,00E+00	9,51E-09	-4,91E-06

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	End of life - Output flow									
India	Indicator		nit	A1-A3	A4	A5	B2	B3		
\otimes	CRU	k	g	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00		
\$\$I>	MFR	k	g	8,33E-01	0,00E+00	8,98E-01	0,00E+00	0,00E+00		
D₽	MER	k	g	6,61E-06	0,00E+00	1,80E-04	0,00E+00	0,00E+00		
5D	EEE	Ν	МЈ		0,00E+00	5,31E-02	0,00E+00	0,00E+00		
DI	EET	Ν	МЈ		0,00E+00	8,03E-01	0,00E+00	0,00E+00		
Indicator		Unit	B4	C1	C2	C3	C4	D		
\otimes	CRU	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00		
432	MFR	kg	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00		
D₽	MER	kg	0	0	0,00E+00	8,28E-01	0,00E+00	0,00E+00		
5D	EEE	MJ	0	0	0,00E+00	5,70E-01	0,00E+00	0,00E+00		
	EET	MJ	0	0	0,00E+00	8,63E+00	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	0,00E+00					
Biogenic carbon content in accompanying packaging	kg C	4,29E-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, high voltage, hydro (kWh) - PL	ecoinvent 3.6	4,02	g CO2-eq/kWh

Dangerous substances

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

Indoor environment

Greenguard Gold, Möbelfakta.

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO ₂ -eq	4,29	0,17	13,23	13,16
Total energy consumption	MJ	106,66	2,62	245,80	238,72
Amount of recycled materials	%	74,37			

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		5,48E+00	1,66E-01	2,06E-02	5,99E+00	2,69E-01
Indicator	Unit	B4	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	2,59E-02	1,36E+00	2,62E-03	-6,70E-02

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 (%)	
SOUNDWAVE® BELLA, ACOUSTIC PANEL - No Packaging	0,61	3,70	65,68	52,81	
SOUNDWAVE® BOTANIC, ACOUSTIC PANEL - No Packaging	0,71	4,17	71,38	53,13	
SOUNDWAVE® CERAMIC, ACOUSTIC PANEL - No Packaging	0,83	4,74	78,11	53,41	
SOUNDWAVE® FLO, ACOUSTIC PANEL - No Packaging	0,72	4,21	71,79	53,15	
SOUNDWAVE® GEO, ACOUSTIC PANEL - No Packaging	0,58	3,55	63,96	52,71	
SOUNDWAVE® JASMINE, ACOUSTIC PANEL - No Packaging	0,30	2,23	48,27	51,69	
SOUNDWAVE® LUNA, ACOUSTIC PANEL - No Packaging	0,72	4,24	72,17	53,17	
SOUNDWAVE® PIX 146 X 290 MM w/ FABRIC COVER (Europost/Gabriel), ACOUSTIC PANEL - No Packaging	0,19	6,27	64,30	28,71	
SOUNDWAVE® PIX 290 X 290 MM w/ FABRIC COVER (Europost/Gabriel), ACOUSTIC PANEL - No Packaging	0,35	11,41	94,82	27,61	
SOUNDWAVE® SCRUNCH, ACOUSTIC PANEL - No Packaging	0,84	4,78	78,65	53,42	
SOUNDWAVE® SKY, ACOUSTIC PANEL - No Packaging	0,75	4,36	73,64	53,24	
SOUNDWAVE® STRIPES, ACOUSTIC PANEL - No Packaging	0,72	4,22	71,92	53,16	
SOUNDWAVE® SWELL, ACOUSTIC PANEL - No Packaging	0,65	3,93	68,42	52,98	
SOUNDWAVE® WALL, ACOUSTIC PANEL - No Packaging	1,98	10,02	141,85	54,90	
SOUNDWAVE® VILLAGE, ACOUSTIC PANEL - No Packaging	0,92	5,15	83,07	53,56	
SOUNDWAVE® WICKER, ACOUSTIC PANEL - No Packaging	0,49	3,16	59,20	52,31	

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 (%)	
SOUNDWAVE® FABRIC COVER (Europost/Gabriel) - available for BELLA / BOTANIC / FLO / SCRUNCH / SWELL	0,35	19,66	107,69	0,00	
SOUNDWAVE® BASFILL, SEPARATE FILLING MATERIAL	0,50	2,34	27,95	55,00	
SOUNDWAVE® PACKAGING - 1-4 pcs in Carton box	1,00	-0,45	28,55	92,82	
SOUNDWAVE® PACKAGING - 5-8 pcs in Carton box	1,49	-0,43	44,00	88,63	
SOUNDWAVE® PACKAGING - 18 pcs in Carton box	3,36	-0,47	101,76	84,86	

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