



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Vika Floor Screen without Lighting 427x1540x231





abstracta

The Norwegian EPD Foundation

Owner of the declaration:

Abstracta AB

Product:

Vika Floor Screen without Lighting 427x1540x231

Declared unit:

1 pc

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-6357-5615-EN

Registration number:

NEPD-6357-5615-EN

Issue date: 04.04.2024

Valid to: 04.04.2029

EPD software:

LCAno EPD generator ID: 264583

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General information

Product

Vika Floor Screen without Lighting 427x1540x231

Program operator:

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

Declaration number:

NEPD-6357-5615-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 Vika Floor Screen without Lighting 427x1540x231

Declared unit (cradle to gate) with option:

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

Functional unit:

This EPD considers one pcs of Vika Floor Screen. The product is a sound absorbing floor screen, with the possibility to add lighting. At the end of its life it can be dismantled and recycled or returned to Abstracta for reuse or recycling.

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:

Abstracta AB

Contact person: Tim Wisme

Phone:

e-mail: tim.wisme@abstracta.se

Manufacturer:

Abstracta AB

Place of production:

Abstracta AB Lammengatan 2 363 45 Lammhult, Sweden

Management system:

ISO 9001, 14001 och 45001

Organisation no:

556046-3852

Issue date:

04.04.2024

Valid to:

04.04.2029

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: Tim Wisme

Reviewer of company-specific input data and EPD: Erik Graesen

Approved:

Håkon Hauan, CEO EPD-Norge

Product

Product description:

In collaboration with designer Khodi Feiz, Abstracta takes a new approach to acoustic lighting — one that aims to create a peaceful atmosphere. The result is Vika, a sculptural floor screen that radiates atmospheric light while managing both low-frequency and high-frequency noise. "It's another way of thinking about sound and light," says Feiz.

Vika can be used to divide a large space into smaller rooms, creating a better soundscape and a quieter atmosphere.

A clever thing about Vika is that both the floor screens and the ceiling luminaire are designed to be close to those in the room who are its sound sources. This stops sound waves before they can bounce off the walls and ceiling.

For more information about the product, visit the product page https://abstracta.se/product/vika-acoustic-floor-screen-luminaire/

Product specification

Vika consists of a soft, sound-absorbing core, partly made of recycled PET bottles, and is covered with Texfel acoustic felt. Its base is made of black-coated metal. Optionally available with lighting, however, these variants are not included in this EPD.

This EPD includes these variants:

Vika Floor Screen without Lighting 427x1540x231

Vika Floor Screen without Lighting 1180x1540x231

See the product sheet for more information: https://lammhults.sharepoint.com/:b:/s/abs-webpage/ERhF4cCwy4lKgpee0cY6XWQBGslaf9Klw5gZfSiSXZbmwA?e=pgtkjn

Materials	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Adhesive	0,06	0,88	0,00	0,00
Filt	2,88	42,22	1,44	50,00
Metal - Aluminium	0,10	1,44	0,00	0,00
Metal - Stainless steel	0,06	0,82	0,01	21,83
Metal - Steel	2,69	39,51	0,00	0,00
Powder coating	0,02	0,28	0,00	0,00
Textile - Felt	1,01	14,74	0,90	90,00
Textile - Polyester (PE)	0,01	0,12	0,00	0,00
Total	6,82		2,36	

Packaging	kg	%	Recycled share in material (kg)	Recycled share in material (%)
Recycled cardboard	1,93	100,00	1,93	100,00
Total incl. packaging	8,75		4,29	

Technical data:

The dimensions of Vika Floor Screen without Lighting are 427x1540x231, but other sizes are also available. For more information on the technical data of Vika Floor Screen, see the technical data sheet: https://lammhults.sharepoint.com/:b:/s/abs-webpage/Ea58LrptusBBmk1FpWgvkqcBQAoU0JY7CBQN-eO3UoEJ3w?e=t5Qiz5.

Market:

The product is available worldwide. The distance to the market is based on shipping to Scandinavia or Western Europe.

Reference service life, product

At least 10 years, with a 5-year warranty and a 10-year spare part guarantee.

Reference service life, building

Assumed to be 60 years.

LCA: Calculation rules

Declared unit:

1 pcs Vika Floor Screen without Lighting 427x1540x231

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	ecoinvent 3.6	Database	2019
Filt	S-P-04908	EPD	2020
Metal - Aluminium	ecoinvent 3.6	database	2019
Metal - Stainless steel	ecoinvent 3.6	Database	2019
Metal - Steel	ecoinvent 3.6	Database	2019
Powder coating	Ecoinvent 3.6	Database	2019
Recycled cardboard	Modified ecoinvent 3.6	Database	2019
Textile - Felt	S-P-11466	EPD	2023
Textile - Polyester (PE)	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	Refu <i>r</i> b ishment	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
Х	Χ	Χ	Х	Χ	MNR	Χ	Χ	Χ	MNR	MNR	MNR	Χ	Х	Х	Χ	X

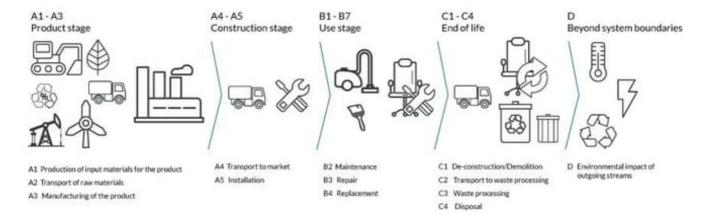
System boundary:

The EPD is a cradle-to-cradle analysis, A1-D, where some B-stages (use phase) that were assumed to be neglectable are not included.

The A1-A4 stages includes the extraction and production of raw materials, transportation to the production site, the production process itself, and an estimated transport distance to the market. A5 includes the generated waste from the packaging of the product after assembly at the

The only B stage that is assumed to be relevant is B2. This stage includes assumptions on how the customer takes care of the product according to Abstracta's care instructions.

The C- and D-stages includes the use of materials and energy for deconstruction, the transport to waste management, the waste processes, disposal of materials that cannot be processed, and the potential of reuse, recovery, and recycling of the product.



Additional technical information:

To preserve the fabric colour and the appearance of the fabric, Vika should be vacuumed regularly with a soft nozzle.

Polyester Stain Removal: Use uncoloured paper towel or cloth to soak up as much as possible of the stain. Dried stains should be vacuumed. Moisten the stain lightly with a clean white cotton cloth, lukewarm water and possibly a small amount of pH-neutral detergent. Press a dry cloth or uncoloured paper towel against the fabric so that moisture and dirt are absorbed. Repeat moistening and soaking until the stain is gone. Use clean water without detergent at the last moistening. Finish with soaking.

Abstracta offers a reuse service for our clients. This involves us collecting worn-out products to facilitate reuse, renovation, or recycling. In order to make circularity easier, most of our products feature replaceable parts, simplifying repair. We do this in the hope that we can help contribute in the transition to a more sustainable future. Read more about the service here: https://abstracta.se/story/abstracta-is-introducing-a-new-recycling-service-for-used-products-abstracta/ or contact our Sales Support for more information. Otherwise, try to ensure that the product can be reused when possible, or else, dismantle it so that as much of the materials can be recycled as possible.

LCA: Scenarios and additional technical information

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

Some assumptions have been made regarding the products lifetime after leaving the factory gates. The product is assumed to be transported to a customer in Scandinavia, Germany, the UK, or France (88% of sales in 2023). An average distance to the customer has been calculated through this data. In the A5 phase, the packaging of the product becomes waste, and the impacts are added automatically according to assumptions made in the EPD tool on waste handling on-site. In the use stage, the assumption is that the customer takes care of the product by vacuuming it for 1 minute/m2 of the product, with a 600 W vacuum, on a yearly basis. For the end-of-life stage of the product, it has been assumed that there is a 50 km distance from the customer to a waste terminal. The rest of the values are automatically filled in by the tool. For the D-stage, automatic values are filled in, according to generic data.

values are filled in, according to generic data.					
Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Ship, Ferry, Sea (km)	50,0 %	8	0,034	l/tkm	0,27
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	502	0,043	l/tkm	21,58
Assembly (A5)	Unit	Value			
Waste, packaging, cardboard, 100 % recycled, to average treatment (kg)	kg	1,93			
Maintenance (B2)	Unit	Value			
Electricity, Nordic (kWh)	kWh/DU	0,20			
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 %	50	0,043	l/tkm	2,15
Waste processing (C3)	Unit	Value			
Waste treatment per kg Hazardous waste, incineration (kg)	kg	0,06			
Waste treatment per kg Non-hazardous waste, incineration with fly ash extraction - C3 (kg)	kg	0,02			
Waste treatment per kg Polyethylene terephthalate, PET, incineration with fly ash extraction - C3 (kg)	kg	2,88			
Waste treatment per kg Scrap aluminium, incineration with fly ash extraction (kg)	kg	0,10			
Waste treatment per kg Scrap steel, incineration with fly ash extraction (kg)	kg	2,75			
Waste treatment per kg Textile, incineration with fly ash extraction (kg)	kg	1,01			
Waste, materials to recycling (kg)	kg	0,94			
Disposal (C4)	Unit	Value			
Landfilling of ashes and residues from incineration of Scrap aluminium (kg)	kg	0,09			
Landfilling of ashes and residues from incineration of Scrap steel (kg)	kg	1,82			
Landfilling of ashes from incineration of Hazardous waste, from incineration (kg)	kg	0,01			
Landfilling of ashes from incineration of Non- hazardous waste, process per kg ashes and residues - C4 (kg)	kg	0,00			
Landfilling of ashes from incineration of Polyethylene terephthalate, PET, process per kg ashes and residues - C4 (kg)	kg	0,06			
Landfilling of ashes from incineration of Textile, soiled, process per kg ashes and residues (kg)	kg	0,05			
Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	3,95			
Substitution of primary aluminium with net scrap (kg)	kg	0,01			
Substitution of primary steel with net scrap (kg)	kg	0,93			
Substitution of thermal energy, district heating, in Norway (MJ)	МЈ	59,82			

LCA: Results

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

Environme	ental impact								
	Indicator		Unit		A1-A3	A4	A5	B2	В3
	GWP-total		kg CO ₂ -eq		2,12E+01	7,26E-01	3,31E+00	2,91E-02	0
	GWP-fossil		kg CO ₂ -eq		2,36E+01	7,25E-01	3,13E-02	2,72E-02	0
	GWP-biogenic		kg CO ₂ -e	eq	-2,46E+00	2,99E-04	3,28E+00	4,96E-04	0
	GWP-luluc		kg CO ₂ -e	eq	5,35E-02	2,60E-04	1,03E-05	1,49E-03	0
Ö	ODP		kg CFC11 -	-eq	1,51E-05	1,64E-07	6,60E-09	2,94E-09	0
CF .	АР		mol H+ -	eq	1,17E-01	2,31E-03	1,48E-04	1,25E-04	0
**	EP-FreshWater		kg P -eq	I	2,53E-03	5,76E-06	2,57E-07	1,80E-06	0
**	EP-Marine		kg N -ec	1	2,61E-02	4,71E-04	4,89E-05	1,98E-05	0
**	EP-Terrestial		mol N -e	q	2,65E-01	5,26E-03	5,30E-04	2,66E-04	0
	POCP		kg NMVOC	-eq	1,02E-01	1,93E-03	1,52E-04	6,22E-05	0
	ADP-minerals&metals ¹		kg Sb-ed	7	3,66E-04	1,99E-05	7,61E-07	4,22E-07	0
	ADP-fossil ¹		МЈ		3,49E+02	1,09E+01	4,37E-01	7,34E-01	0
<u>%</u>	WDP ¹		m^3		1,75E+03	1,05E+01	5,54E-01	5,67E+01	0
	Indicator	Ų	Unit	B4	C1	C2	C3	C4	D
	Indicator GWP-total		Unit CO ₂ -eq	B4 0	C1 0	C2 7,15E-02	C3 7,62E+00	C4 2,91E-02	D -1,47E+00
		kg C							
_	GWP-total	kg C	CO ₂ -eq	0	0	7,15E-02	7,62E+00	2,91E-02	-1,47E+00
	GWP-total GWP-fossil	kg C kg C	CO ₂ -eq	0	0	7,15E-02 7,15E-02	7,62E+00 6,14E+00	2,91E-02 2,91E-02	-1,47E+00 -1,46E+00
	GWP-total GWP-fossil GWP-biogenic	kg C kg C kg C	CO ₂ -eq CO ₂ -eq CO ₂ -eq	0 0	0 0	7,15E-02 7,15E-02 2,96E-05	7,62E+00 6,14E+00 1,48E+00	2,91E-02 2,91E-02 2,56E-05	-1,47E+00 -1,46E+00 -1,70E-03
	GWP-total GWP-fossil GWP-biogenic GWP-luluc	kg C kg C kg C kg C	CO ₂ -eq CO ₂ -eq CO ₂ -eq CO ₂ -eq	0 0 0	0 0 0 0	7,15E-02 7,15E-02 2,96E-05 2,54E-05	7,62E+00 6,14E+00 1,48E+00 4,85E-05	2,91E-02 2,91E-02 2,56E-05 7,35E-06	-1,47E+00 -1,46E+00 -1,70E-03 -1,41E-02
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP	kg C kg C kg C kg CF mol	CO ₂ -eq	0 0 0 0	0 0 0 0	7,15E-02 7,15E-02 2,96E-05 2,54E-05 1,62E-08	7,62E+00 6,14E+00 1,48E+00 4,85E-05 2,40E-08	2,91E-02 2,91E-02 2,56E-05 7,35E-06 7,15E-09	-1,47E+00 -1,46E+00 -1,70E-03 -1,41E-02 -2,53E-02
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP	kg C kg C kg C kg CF mol	CO ₂ -eq FC11 -eq H+ -eq	0 0 0 0 0	0 0 0 0 0	7,15E-02 7,15E-02 2,96E-05 2,54E-05 1,62E-08 2,05E-04	7,62E+00 6,14E+00 1,48E+00 4,85E-05 2,40E-08 1,59E-03	2,91E-02 2,91E-02 2,56E-05 7,35E-06 7,15E-09 1,71E-04	-1,47E+00 -1,46E+00 -1,70E-03 -1,41E-02 -2,53E-02 -8,55E-03
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater	kg C kg C kg C kg CF mol kg	CO ₂ -eq FC11 -eq H+ -eq P -eq	0 0 0 0 0 0	0 0 0 0 0 0	7,15E-02 7,15E-02 2,96E-05 2,54E-05 1,62E-08 2,05E-04 5,71E-07	7,62E+00 6,14E+00 1,48E+00 4,85E-05 2,40E-08 1,59E-03 4,46E-06	2,91E-02 2,91E-02 2,56E-05 7,35E-06 7,15E-09 1,71E-04 2,98E-07	-1,47E+00 -1,46E+00 -1,70E-03 -1,41E-02 -2,53E-02 -8,55E-03 -9,72E-05
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine	kg C kg C kg C kg CF mol kg	CO ₂ -eq FC11 -eq H+ -eq P -eq N -eq	0 0 0 0 0 0	0 0 0 0 0 0	7,15E-02 7,15E-02 2,96E-05 2,54E-05 1,62E-08 2,05E-04 5,71E-07 4,06E-05	7,62E+00 6,14E+00 1,48E+00 4,85E-05 2,40E-08 1,59E-03 4,46E-06 7,52E-04	2,91E-02 2,91E-02 2,56E-05 7,35E-06 7,15E-09 1,71E-04 2,98E-07 5,95E-05	-1,47E+00 -1,46E+00 -1,70E-03 -1,41E-02 -2,53E-02 -8,55E-03 -9,72E-05 -2,06E-03
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial	kg C kg C kg C kg CF mol kg kg	CO ₂ -eq FC11 -eq H+ -eq P -eq N -eq I N -eq	0 0 0 0 0 0 0	0 0 0 0 0 0 0	7,15E-02 7,15E-02 2,96E-05 2,54E-05 1,62E-08 2,05E-04 5,71E-07 4,06E-05 4,55E-04	7,62E+00 6,14E+00 1,48E+00 4,85E-05 2,40E-08 1,59E-03 4,46E-06 7,52E-04 7,67E-03	2,91E-02 2,91E-02 2,56E-05 7,35E-06 7,15E-09 1,71E-04 2,98E-07 5,95E-05 6,61E-04	-1,47E+00 -1,46E+00 -1,70E-03 -1,41E-02 -2,53E-02 -8,55E-03 -9,72E-05 -2,06E-03 -2,17E-02
	GWP-total GWP-fossil GWP-biogenic GWP-luluc ODP AP EP-FreshWater EP-Marine EP-Terrestial POCP	kg C kg C kg CF mol kg kg mo	CO ₂ -eq FC11 -eq H+ -eq P -eq N -eq I N -eq	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	7,15E-02 7,15E-02 2,96E-05 2,54E-05 1,62E-08 2,05E-04 5,71E-07 4,06E-05 4,55E-04 1,74E-04	7,62E+00 6,14E+00 1,48E+00 4,85E-05 2,40E-08 1,59E-03 4,46E-06 7,52E-04 7,67E-03 1,89E-03	2,91E-02 2,91E-02 2,56E-05 7,35E-06 7,15E-09 1,71E-04 2,98E-07 5,95E-05 6,61E-04 1,89E-04	-1,47E+00 -1,46E+00 -1,70E-03 -1,41E-02 -2,53E-02 -8,55E-03 -9,72E-05 -2,06E-03 -2,17E-02 -8,19E-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 e	nvironmental impa	t indicators						
	Indicator	Unit		A1-A3	A4	A5	B2	В3
	PM	// Disease incidence		1,57E-06	4,41E-08	2,18E-09	6,64E-10	0
	IRP ²	kgBq U235 -eq		1,60E+00	4,78E-02	1,87E-03	1,67E-02	0
4	ETP-fw ¹	CTUe		1,22E+03	8,10E+00	5,83E-01	9,19E-01	0
40 x ************************************	HTP-c ¹	CTUh		8,52E-08	0,00E+00	1,70E-11	2,10E-11	0
40	HTP-nc ¹	CTUh		5,76E-07	8,85E-09	7,32E-10	5,64E-10	0
	SQP ¹	dimensionless		1,34E+02	7,60E+00	2,93E-01	5,53E-01	0
	Indicator	Unit	B4	C1	C2	C3	C4	D
	PM	Disease incidence	0	0	4,38E-09	1,56E-08	2,95E-09	-2,64E-07
(n)	IRP ²	kgBq U235 -eq	0	0	4,72E-03	4,03E-03	2,21E-03	-3,30E-02
	ETP-fw ¹	CTUe	0	0	8,01E-01	5,67E+00	4,02E-01	-8,53E+01
40.* *** <u>B</u>	HTP-c ¹	CTUh	0	0	0,00E+00	4,63E-10	1,60E-11	-5,64E-09
48° E	HTP-nc ¹	CTUh	0	0	8,75E-10	1,21E-08	4,92E-10	7,83E-08

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)

7,56E-01

3,33E-01

1,20E+00

-3,38E+01

dimensionless

SQP¹

[&]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		U	nit	A1-A3	A4	A5	B2	B3
	PERE		N	۷J	6,68E+01	1,56E-01	7,20E-03	7,22E-01	0
	PERM		N	ΛJ	1,88E+01	0,00E+00	-1,13E+01	0,00E+00	0
₽	PERT		N	۷J	8,56E+01	1,56E-01	-1,13E+01	7,22E-01	0
	PENRE		N	۷J	2,95E+02	1,09E+01	4,37E-01	7,45E-01	0
	PENRM		N	۷J	6,04E+01	0,00E+00	0,00E+00	0,00E+00	0
IA	PENRT		N	۷J	3,56E+02	1,09E+01	4,37E-01	7,45E-01	0
	SM		k	κg	4,29E+00	0,00E+00	0,00E+00	0,00E+00	0
2	RSF		N	۷J	1,46E-01	5,57E-03	2,39E-04	7,29E-03	0
	NRSF		N	۷J	8,26E-02	1,99E-02	9,84E-04	0,00E+00	0
∳ 6	FW	m ³		1,99E-01	1,16E-03	2,06E-04	3,28E-03	0	
			"	N-	1,552 01	1,102 03	_,	3,202 03	Ü
	ndicator	U	/nit	B4	C1	C2	C3	C4	D
	ndicator PERE							,	
		N	Init	B4	C1	C2	C3	C4	D
ूर कु	PERE	V	Init MJ	B4 0	C1 0	C2 1,55E-02	C3 1,26E-01	C4 1,34E-02	D -3,17E+01
ूर (हे ड	PERE PERM	N N	MJ	0 0	C1 0	C2 1,55E-02 0,00E+00	C3 1,26E-01 0,00E+00	C4 1,34E-02 0,00E+00	D -3,17E+01 0,00E+00
्रह उट्टे ्र	PERE PERM PERT	N N	Unit MJ MJ	B4 0 0 0	C1 0 0	C2 1,55E-02 0,00E+00 1,55E-02	C3 1,26E-01 0,00E+00 1,26E-01	C4 1,34E-02 0,00E+00 1,34E-02	D -3,17E+01 0,00E+00 -3,17E+01
	PERE PERM PERT PENRE	N N N	MI MI MI	B4 0 0 0 0	C1 0 0 0	C2 1,55E-02 0,00E+00 1,55E-02 1,08E+00	C3 1,26E-01 0,00E+00 1,26E-01 1,39E+00	C4 1,34E-02 0,00E+00 1,34E-02 5,37E-01	D -3,17E+01 0,00E+00 -3,17E+01 -1,47E+01
III	PERE PERM PERT PENRE PENRM	N N N	MI MI MI MI	B4 0 0 0 0 0	C1 0 0 0 0	C2 1,55E-02 0,00E+00 1,55E-02 1,08E+00 0,00E+00	C3 1,26E-01 0,00E+00 1,26E-01 1,39E+00 -6,04E+01	C4 1,34E-02 0,00E+00 1,34E-02 5,37E-01 0,00E+00	D -3,17E+01 0,00E+00 -3,17E+01 -1,47E+01 0,00E+00
	PERE PERM PERT PENRE PENRM PENRT	N N N N	MI MI MI MI MI	B4 0 0 0 0 0 0	C1 0 0 0 0 0	C2 1,55E-02 0,00E+00 1,55E-02 1,08E+00 0,00E+00 1,08E+00	C3 1,26E-01 0,00E+00 1,26E-01 1,39E+00 -6,04E+01 -5,90E+01	C4 1,34E-02 0,00E+00 1,34E-02 5,37E-01 0,00E+00 5,37E-01	D -3,17E+01 0,00E+00 -3,17E+01 -1,47E+01 0,00E+00 -1,47E+01
	PERE PERM PERT PENRE PENRM PENRT SM	N N N N	MJ MJ MJ MJ MJ MJ kg	B4 0 0 0 0 0 0	C1 0 0 0 0 0 0	C2 1,55E-02 0,00E+00 1,55E-02 1,08E+00 0,00E+00 1,08E+00 0,00E+00	C3 1,26E-01 0,00E+00 1,26E-01 1,39E+00 -6,04E+01 -5,90E+01 0,00E+00	C4 1,34E-02 0,00E+00 1,34E-02 5,37E-01 0,00E+00 5,37E-01 0,00E+00	D -3,17E+01 0,00E+00 -3,17E+01 -1,47E+01 0,00E+00 -1,47E+01 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 resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary 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

End of life - Waste									
	Indicator		U	nit	A1-A3	A4	A5	B2	В3
	HWD			g	1,87E-01	5,63E-04	0,00E+00	6,88E-05	0
Ū	NHWD	kg		g	5,91E+00	5,28E-01	1,93E+00	4,56E-03	0
- B	RWD		kg		7,49E-04	7,46E-05	0,00E+00	7,69E-06	0
In	dicator		Unit	B4	C1	C2	C3	C4	D
Ā	HWD		kg	0	0	5,57E-05	0,00E+00	1,95E+00	-5,17E-03
Ū	NHWD		kg	0	0	5,26E-02	7,90E-02	5,34E-02	-5,61E-01
3	RWD		kg	0	0	7,36E-06	0,00E+00	3,16E-06	-2,78E-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	Indicator			A1-A3	A4	A5	B2	В3
®▷	CRU	kg	kg		0,00E+00	0,00E+00	0,00E+00	0
&>	MFR	kg	kg		0,00E+00	1,80E+00	0,00E+00	0
Þ₹	MER	kg		2,11E-01	0,00E+00	2,63E-06	0,00E+00	0
50	EEE	MJ		1,30E-01	0,00E+00	1,11E-01	0,00E+00	0
D	EET	MJ		1,96E+00	0,00E+00	1,67E+00	0,00E+00	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	9,43E-01	0,00E+00	0,00E+00
DF	MER	kg	0	0	0,00E+00	6,82E+00	0,00E+00	0,00E+00
₹ D	EEE	МЈ	0	0	0,00E+00	3,81E+00	0,00E+00	0,00E+00
DØ	EET	МЈ	0	0	0,00E+00	5,76E+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	0,00E+00							
kg C	1,07E+00							
	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	Data source	Amount	Unit
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

A test for the indoor emissions is available here: https://lammhults.sharepoint.com/:b:/s/abs-webpage/Ec_jJut4HDlOn05QeqhowbwByeAsjf1W6xP55qQZJ1uqAg?e=83tDuL

Additional Environmental Information

Key Environmental Indicators

Key environmental indicators	Unit	A1-A3	A4	A1-C4	A1-D
GWPtotal	kg CO ₂ -eq	21,22	0,73	33,01	31,53
Total energy consumption	MJ	362,53	11,13	378,76	331,59
Amount of recycled materials	%	42,96			

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		7,26E-01	3,13E-02	3,95E-02	0	
Indicator	Unit	B4	C1	C2	C3	C4	D	
GWPIOBC	kg CO ₂ -eq	0	0	7,15E-02	7,77E+00	3,23E-02	-1,97E+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 (%)			
Vika Floor Screen without Lighting 1180x1540x231	26,60	64,81	1109,60	49,04			

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@ and narwa		Program operator and publisher	Phone:	+47 23 08 80 00
	epd-norway	The Norwegian EPD Foundation		post@epd-norge.no
	Global Program Operator	Post Box 5250 Majorstuen, 0303 Oslo, Norway	web:	www.epd-norge.no
		Owner of the declaration:	Phone:	
	abstracta	Abstracta AB	e-mail:	tim.wisme@abstracta.se
		Lammengatan 2, 363 45 Lammhult	web:	www.abstracta.se
		Author of the Life Cycle Assessment	Phone:	+47 916 50 916
	(LCA [≬]	LCA.no AS	e-mail:	post@lca.no
	.no	Dokka 6B, 1671	web:	www.lca.no
		Developer of EPD generator	Phone:	+47 916 50 916
	(LCA [≬]	LCA.no AS	e-mail:	post@lca.no
	.no	Dokka 6B,1671 Kråkerøy	web:	www.lca.no
	ECO PLATFORM	ECO Platform	web:	www.eco-platform.org
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