

Owner: Eco Silicate Systems, owned by
ETS Europe BV
No.: MD-26094-EN
Issued: 10-09-2026
Valid to: 10-09-2031

3rd PARTY VERIFIED

EPD

VERIFIED ENVIRONMENTAL PRODUCT DECLARATION | ISO 14025 & EN 15804



Owner of declaration

Eco Silicate Systems, owned by
ETS Europe BV
Herentalsebaan 406, Unit D1
2160 Wommelgem, Belgium
0446415180
www.ecosilicatesystems.com



Programme

EPD Danmark
www.epddanmark.dk



- ☐ Industry EPD
☒ Product EPD

- ☒ Product specific
☐ Average
☐ Worst Case

Declared product(s)

Eco Rapid, Eco Rapid Indu, Eco Rapid Deco, Eco Terrazzo
Binder*, Eco Dual, Eco Screed & Eco Mortar.
*Requires additional terrazzo filler materials.

Number of declared datasets/product variations: 7

Production site

Two production sites in Germany

Use of Guarantees of Origin

- ☒ No certificates used
☐ Electricity covered by GoO
☐ Biogas covered by GoO

Declared/ functional unit

1 ton dry mortar

Year of production site data (A3)

2024

EPD version

[1], September, 2026, Original version

Issued:
10-09-2026

Valid to:
10-09-2031

Basis of calculation

This EPD is developed and verified in accordance with the European standard EN 15804+A2.

Comparability

EPDs of construction products may not be comparable if they do not comply with the requirements in EN 15804. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database.

Validity

This EPD has been verified in accordance with ISO 14025 and is valid for 5 years from the date of issue.

Use

The intended use of an EPD is to communicate scientifically based environmental information for construction products, for the purpose of assessing the environmental performance of buildings.

EPD type

- ☐ Cradle-to-gate with modules C1-C4 and D
☒ Cradle-to-gate with options, modules C1-C4 and D
☐ Cradle-to-grave and module D
☐ Cradle-to-gate
☐ Cradle-to-gate with options

CEN standard EN 15804 serves as the core PCR

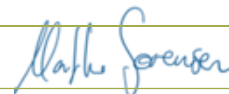
Independent verification of the declaration and data, according to EN ISO 14025

- ☐ internal ☒ external

Third party verifier:



Kim Christiansen, kimconsult



Martha Katrine Sørensen
EPD Danmark

Life cycle stages and modules (MND = module not declared)

Product			Construction process		Use								End of life			Beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport	Installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Re-use, recovery and recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

Product information

Product description

The declared products are 100% mineral, silicate-based dry mortars, supplied as factory-made dry mixtures that require the addition of water on site. Eco Terrazzo Binder also requires additional terrazzo materials according to the manufacturer's product data sheet. The declared products are used as self-levelling floor mortars, screeds, terrazzo binders and levelling/repair mortars for industrial, commercial and residential floors, both indoors and outdoors. Typical applications include warehouses, logistics and production facilities, car parks, offices, retail and public buildings. Additional information regarding fire class, wearing resistance and strength class for the declared products can be obtained on the website of the manufacturer:

Website: www.ecosilicatesystems.com

In the table below the composition of materials in each product is presented. The material composition is declared within a range due to business confidentiality concerns. Materials account for 100% of the mass of the declared product.

Materials	Weight-% of declared product						
	Eco Rapid	Eco Rapid Indu	Eco Rapid Deco	Eco Terrazzo Binder	Eco Dual	Eco Screed	Eco Mortar
Aggregates filler	30-50	40-60	20-40	30-50	30-50	30-50	30-50
Mineral filler	20-40	5-20	20-40	0-10	20-40	10-30	20-40
Reactive mineral binders	10-30	15-35	20-40	40-60	15-35	20-40	10-30
Binders and polymers	0-15	0-15	0-15	0-15	0-15	0-15	0-15
Additives	0-5	0-5	0-5	0-5	0-5	0-5	0-5

Product packaging:

The composition of the sales- and transport packaging of the product is shown in the table below.

Material	Weight of packaging material (kg)	Weight-% of packaging
Paper bag	4,00	77,5
LDPE foil	0,15	3
Euro pallet	1,01	19,5
Total	5,15	100

Representativity

This declaration, including data collection and the modelled foreground system including results, represents the production of Eco Silicate Systems, owned by ETS Europe BV on the two production sites located in Germany.

Product specific data are based on average values collected in the period 01.01.2024 – 31.12.2024 and the representative geographical area of the study is Germany for the production modules (A1-A3) and Denmark for the construction process, end-of-life and Re-use, recovery and recycling potential stages (A5, C1-C4 & D). Background data are based on ecoinvent 3.11 The database adheres to the requirements of EN 15804:2012 +A2:2019 section 6.3.8.2, by being less than 10 years old. Generally, the background data used is of high quality, and the majority of the datasets are only a couple of years old. In cases where the data quality has not been sufficient, adjustments have been made to get a more accurate representation of geography and technology. Overall data quality assessed as fair to poor representativeness has negligible influence. Key contributors are considered representative and no further adjustments were required. Data quality has been assessed in accordance with Annex E of

EN 15804+A2.

Hazardous substances

None of the declared products by Eco Silicate Systems, owned by ETS Europe BV contain substances listed on the "Candidate List of Substances of Very High Concern for authorisation"

(<http://echa.europa.eu/candidate-list-table>)

Product(s) use

The declared products can be used for self-levelling floor mortars, screeds, terrazzo binders

and levelling/repair mortars for industrial, commercial and residential floors, both indoors and outdoors. When using Eco Terrazzo Binder for terrazzo flooring, the user shall add the relevant additional terrazzo materials according to the selected mix design and the manufacturer's product data sheet.

Essential characteristics

Picture of products



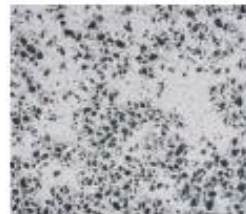
Technical information regarding the performance of the declared products can be obtained by contacting the manufacturer or on their website.

Website: www.ecosilicatesystems.com

Reference Service Life (RSL)

Not declared

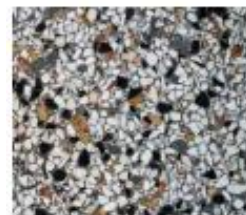
The reference service life is not defined as the use-phase is not included in the study.



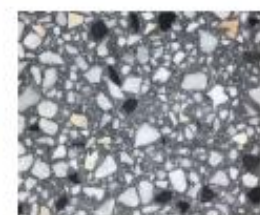
Dark green mix



Light purple mix



Italy



Dark mix

LCA background

Declared unit

The LCI and LCIA results in this EPD relate to the declared unit of 1 ton dry mortar.

The following tables display the conversion factors and relevant product densities.

Name	Value	Unit
Declared unit	1	ton
Conversion factor to 1 kg	0,001	-

Declared products	Bulk density [g/cm ³]	Density of finished, cured product [g/cm ³]
Eco Screed	2,11	1,90
Eco Mortar	1,93	1,78
Eco Rapid	1,98	1,84
Eco Rapid Indu	1,80	1,68
Eco Rapid Deco	1,79	1,62
Eco Terrazzo Binder	2,10	2,00*
Eco Dual	2,07	1,91

*Estimated finished product density based on cured Eco Terrazzo Binder mixed with limestone and quartz sand. As the mix design is optional, the density may vary.

Functional unit

Not defined

PCR

This EPD is developed according to the core rules for the product category of construction

products in EN 15804:2012+A2:2019, PCR 2019:14 Construction Product version 2.0.0 and the product category rules NPCR 009 – Part B for Technical – Chemical products for building and construction industry version 3.0 (EPD Global, formerly EPD Norway).

Energy modelling principles

Foreground system:

The declared products are not manufactured using guarantees of origin (GoO) for electricity and process heat during production stage (A3). The products are modeled using residual mix in the production stage (A3). The remaining energy processes are modelled using consumption grid mix.'

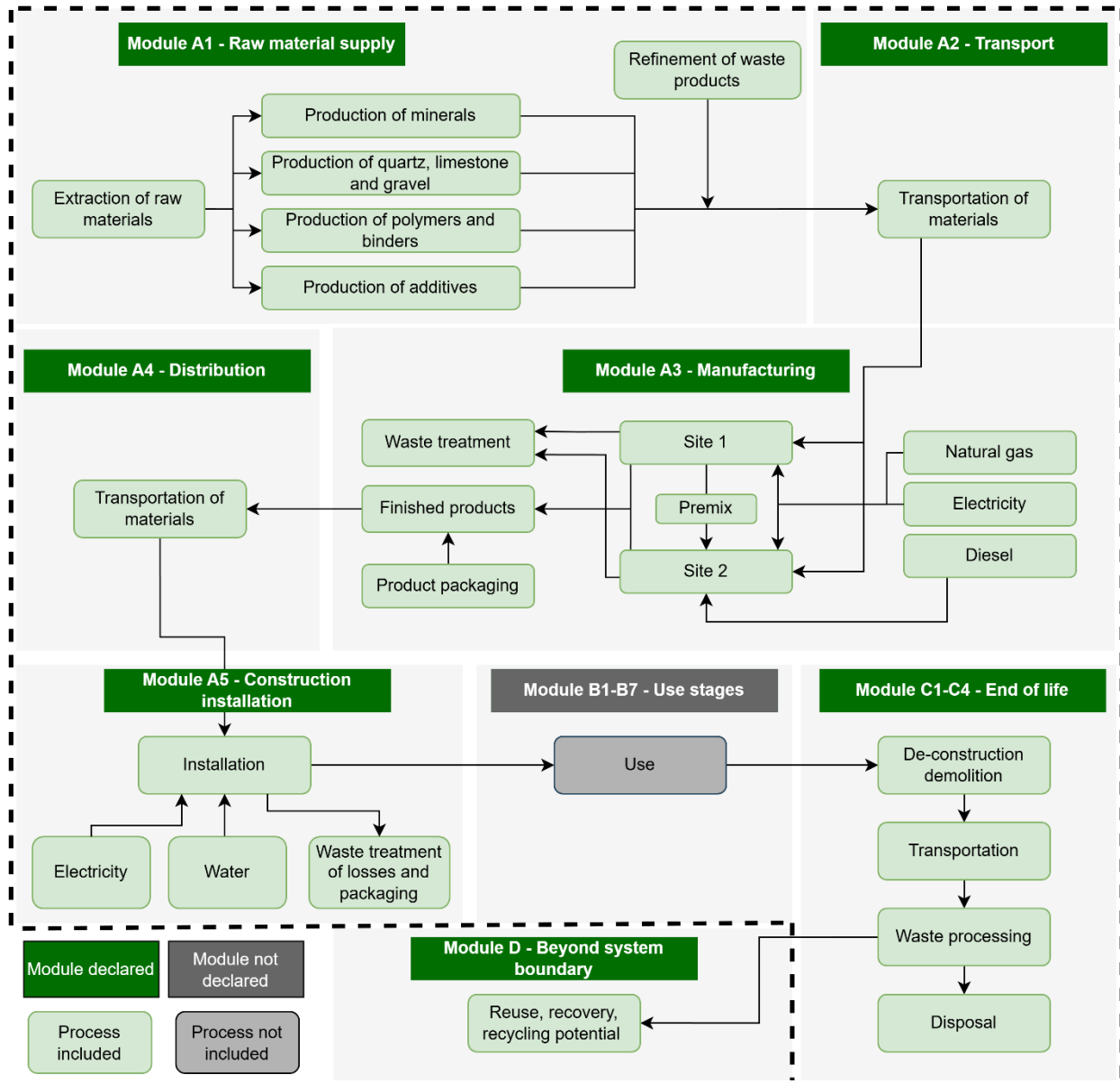
Information about the energy mix in the foreground system:

Energy mix	EF	Unit
Residual grid mix, medium voltage, DE	0,820	kg CO ₂ e/kWh
Natural gas, heat, central, Europe without Switzerland	0,0301	kg CO ₂ e/MJ

Background system:

Both upstream and downstream processes are modelled using consumption mix.

Flow diagram



System boundary

This EPD is based on a cradle-to-gate with options LCA, in which 100 weight-% has been accounted for.

The general rules for the exclusion of inputs and outputs follows the requirements in EN 15804, 6.3.5, where the total of neglected input flows per module shall be a maximum of 5% of energy usage and mass and 1% of energy usage and mass for unit processes.

Allocation is performed in accordance with EN 15804. Electricity, heat and auxiliary use at the production site as well as waste from the production facility is allocated based on mass (production volume).

Product stage (A1-A3) includes:

- A1 – Extraction and processing of raw materials
- A2 – Transport to the production site
- A3 – Manufacturing processes

The product stage comprises the acquisition of all raw materials, products and energy, transport to the production site, packaging and waste processing up to the “end-of-waste” state or final disposal. The LCA results are declared in aggregated form for the product stage, which means that the sub-modules A1, A2 and A3 are declared as one module A1-A3.

Specific information on calcium aluminate binder for the declared products was provided. Two types are used: TERNAL® Xtrem and TERNAL® White, which are modelled using corresponding EPDs from Imerys through EPD International (S-P-06578 and S-P-06863).

The raw materials for the mortar recipe are transported to the two production facilities in Germany. There, they are mixed resulting in a dry powder. The powder is further packed into paper bags and loaded on pallets to be transported to the installation site. For some of the products have concentrated “premixes” manufactured at one site and intermediately transferred to the other for filling and mixing, repacking and loading.

Construction process stage (A4-A5) includes:

A representative scenario has been selected to describe the installation and construction stage for the Danish market. The packed mortar is transported 700 km from the production sites in Germany to the construction site, including 400 km to the German/Danish border and an additional default distance of 300 km for domestic transport, in accordance with NPCR 009 part B (see Additional Information “User-specific transport calculations”). On the construction site, the mortar is mixed with water using an electrical mixer. For Eco Terrazzo Binder, A4-A5 includes transport, water and electricity, but not the additional terrazzo materials specified in the product data sheet.

End of Life (C1-C4) includes:

C1: A conservative assumption has been applied for the deconstruction of the building of 1.4 L of diesel per 1 ton of selectively deconstructed building material. Data is obtained from the report *Livscyklusvurdering (LCA) af konsekvenser ved selektiv nedrivning* by the Danish Environmental ministry (*Miljøstyrelsen*, 2022).

C2: As Eco Silicate Systems primarily sells products to customers in Denmark, the waste is also assumed to be treated in Denmark, and the estimated transport associated with waste treatment reflects this assumption. The modelled transport distances are assumed to be 50 km.

C3: According to the Danish environment agency (2023) waste statistics, 99,39% is recovered, majorly to “other final use of materials” (such as aggregates for road fill). For the modelling of waste treatment of deconstructed silicate-based mineral mortars data is used from Teknologisk Institut, 2019 – “*Nulspildsprojektet – Genanvendelse af spildbeton fra egen produktion*”, where 1 L of diesel is consumed for crushing 1 ton of concrete. This assumption is used for the declared products of Silicate-based mineral mortars.

C4: The 0,6% of the deconstructed silicate-based flooring is sent to landfill. It is treated as inert waste and landfilled in Denmark. The modelling of this scenario reflects Danish conditions.

**Re-use, recovery and recycling potential (D)
includes:**

The crushed silicate-based mineral mortars are assumed to be able to replace gravel, where no further treatment is needed after crushing. This is deemed to be the most representative and likely end-of-life scenario. The recycling of concrete is assumed to take place in Denmark, and the avoided production of gravel is modelled to reflect Danish conditions.

LCA results

Eco Dual

ENVIRONMENTAL IMPACTS PER 1 ton Eco Dual									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	[kg CO ₂ eq.]	2,27E+02	1,37E+02	9,45E+00	5,50E+00	1,03E+01	7,88E+00	3,61E-02	-4,51E+00
GWP-fossil	[kg CO ₂ eq.]	2,33E+02	1,37E+02	2,41E+00	5,49E+00	1,03E+01	3,87E+00	3,60E-02	-4,25E+00
GWP-biogenic	[kg CO ₂ eq.]	-5,87E+00	9,03E-02	7,03E+00	1,55E-03	6,81E-03	4,01E+00	6,93E-05	-2,54E-01
GWP-luluc	[kg CO ₂ eq.]	1,86E-01	4,55E-02	1,31E-03	4,51E-04	3,43E-03	3,17E-04	6,75E-06	-5,38E-03
ODP	[kg CFC 11 eq.]	6,26E-06	2,99E-06	4,02E-08	1,19E-07	2,25E-07	8,36E-08	1,28E-09	-5,50E-08
AP	[mol H ⁺ eq.]	1,04E+00	4,40E-01	1,10E-02	4,91E-02	3,32E-02	3,46E-02	2,40E-04	-3,35E-02
EP-freshwater	[kg P eq.]	5,46E-02	9,36E-03	1,24E-03	1,67E-04	7,05E-04	1,18E-04	1,87E-06	-1,44E-03
EP-marine	[kg N eq.]	2,97E-01	1,48E-01	3,35E-03	2,29E-02	1,12E-02	1,61E-02	1,02E-04	-9,70E-03
EP-terrestrial	[mol N eq.]	2,75E+00	1,61E+00	3,43E-02	2,50E-01	1,21E-01	1,76E-01	1,12E-03	-1,31E-01
POCP	[kg NMVOC eq.]	1,01E+00	6,67E-01	1,18E-02	7,54E-02	5,03E-02	5,31E-02	4,20E-04	-3,16E-02
ADPm ¹	[kg Sb eq.]	7,55E-04	4,62E-04	5,18E-06	1,85E-06	3,48E-05	1,30E-06	4,45E-08	-6,08E-05
ADPf ¹	[MJ]	3,19E+03	1,94E+03	2,77E+01	7,14E+01	1,47E+02	5,02E+01	9,48E-01	-5,20E+01
WDP ¹	[m ³ world eq. deprived]	6,56E+01	9,81E+00	-1,97E-01	1,62E-01	7,40E-01	1,14E-01	4,62E-02	-1,54E+01
Caption	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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimer	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.								

ADDITIONAL ENVIRONMENTAL IMPACTS PER 1 ton Eco Dual									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	[Disease incidence]	1,13E-05	1,10E-05	1,76E-07	1,40E-06	8,26E-07	9,84E-07	6,05E-09	-6,69E-07
IRP ²	[kBq U235 eq.]	1,09E+01	2,32E+00	1,09E-01	3,73E-02	1,75E-01	2,63E-02	8,84E-04	-3,57E-01
ETP-fw ¹	[CTUe]	1,49E+03	2,58E+02	2,13E+01	3,36E+00	1,94E+01	2,37E+00	5,03E-02	-1,86E+01
HTP-c ¹	[CTUh]	4,34E-08	2,34E-08	8,83E-10	5,54E-10	1,77E-09	3,90E-10	4,61E-12	-2,17E-09
HTP-nc ¹	[CTUh]	1,57E-06	1,22E-06	4,26E-08	8,74E-09	9,17E-08	6,15E-09	1,30E-10	-5,59E-08
SQP ¹	-	2,30E+03	1,15E+03	4,59E+01	4,20E+00	8,66E+01	2,96E+00	1,93E+00	-1,28E+02
Caption	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)								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimers	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience 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 PER 1 ton Eco Dual

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	[MJ]	2,35E+02	3,16E+01	6,64E+01	4,89E-01	2,38E+00	2,82E+01	1,87E-01	-1,81E+01
PERM	[MJ]	8,95E+01	0,00E+00	-6,15E+01	0,00E+00	0,00E+00	-2,78E+01	-1,68E-01	0,00E+00
PERT	[MJ]	3,25E+02	3,16E+01	4,90E+00	4,89E-01	2,38E+00	3,44E-01	1,92E-02	-1,81E+01
PENRE	[MJ]	2,69E+03	1,94E+03	7,09E+01	7,14E+01	1,47E+02	4,80E+02	3,54E+00	-5,20E+01
PENRM	[MJ]	4,75E+02	0,00E+00	-4,32E+01	0,00E+00	0,00E+00	-4,29E+02	-2,59E+00	0,00E+00
PENRT	[MJ]	3,17E+03	1,94E+03	2,77E+01	7,14E+01	1,47E+02	5,02E+01	9,48E-01	-5,20E+01
SM	[kg]	2,61E+02	8,68E-01	1,45E-02	2,90E-02	6,55E-02	2,04E-02	2,31E-04	-1,42E-01
RSF	[MJ]	6,09E-01	1,14E-02	1,73E-04	7,64E-05	8,59E-04	5,38E-05	5,69E-06	-1,03E-03
NRSF	[MJ]	3,51E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m³]	1,66E+00	2,43E-01	-3,89E-03	3,98E-03	1,83E-02	2,81E-03	1,09E-03	-3,62E-01
Caption	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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 ton Eco Dual

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	5,87E+01	2,78E+00	1,35E-01	7,39E-02	2,10E-01	5,20E-02	7,44E-04	-4,06E-01
NHWD	[kg]	3,92E+02	5,97E+01	1,98E+02	1,16E+00	4,50E+00	8,18E-01	1,81E-02	-9,68E+00
RWD	[kg]	4,24E-03	5,72E-04	2,55E-05	9,19E-06	4,31E-05	6,47E-06	2,05E-07	-8,27E-05
CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	9,10E-02	0,00E+00	9,16E-01	0,00E+00	0,00E+00	1,08E+03	0,00E+00	0,00E+00
MER	[kg]	1,43E+00	0,00E+00	4,24E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,06E+01	3,82E-01	4,59E-02	5,39E-03	2,88E-02	3,79E-03	2,22E-04	-1,48E-01
EET	[MJ]	1,59E+01	4,69E-01	1,57E-02	1,94E-03	3,53E-02	1,37E-03	3,99E-05	-1,18E-02
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

BIOGENIC CARBON CONTENT PER 1 ton Eco Dual

Parameter	Unit	At the factory gate
Biogenic carbon content in product	[kg C]	4,41E-01
Biogenic carbon content in accompanying packaging	[kg C]	1,27E+01
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂	

Eco Rapid

ENVIRONMENTAL IMPACTS PER 1 ton Eco Rapid									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	[kg CO ₂ eq.]	3,07E+02	1,37E+02	9,45E+00	5,49E+00	1,03E+01	7,93E+00	3,60E-02	-4,50E+00
GWP-fossil	[kg CO ₂ eq.]	3,11E+02	1,37E+02	2,41E+00	5,48E+00	1,03E+01	3,89E+00	3,59E-02	-4,24E+00
GWP-biogenic	[kg CO ₂ eq.]	-4,75E+00	9,03E-02	7,03E+00	1,55E-03	6,79E-03	4,04E+00	6,91E-05	-2,54E-01
GWP-luluc	[kg CO ₂ eq.]	2,16E-01	4,55E-02	1,31E-03	4,50E-04	3,42E-03	3,19E-04	6,72E-06	-5,36E-03
ODP	[kg CFC 11 eq.]	9,33E-06	2,99E-06	4,03E-08	1,19E-07	2,24E-07	8,41E-08	1,28E-09	-5,49E-08
AP	[mol H ⁺ eq.]	1,32E+00	4,40E-01	1,10E-02	4,90E-02	3,31E-02	3,48E-02	2,39E-04	-3,34E-02
EP-freshwater	[kg P eq.]	6,07E-02	9,36E-03	1,24E-03	1,67E-04	7,03E-04	1,18E-04	1,86E-06	-1,43E-03
EP-marine	[kg N eq.]	3,72E-01	1,48E-01	3,35E-03	2,28E-02	1,11E-02	1,62E-02	1,02E-04	-9,67E-03
EP-terrestrial	[mol N eq.]	3,42E+00	1,61E+00	3,43E-02	2,50E-01	1,21E-01	1,77E-01	1,12E-03	-1,30E-01
POCP	[kg NMVOC eq.]	1,37E+00	6,67E-01	1,18E-02	7,53E-02	5,01E-02	5,34E-02	4,19E-04	-3,15E-02
ADPm ¹	[kg Sb eq.]	1,17E-03	4,62E-04	5,18E-06	1,85E-06	3,47E-05	1,31E-06	4,43E-08	-6,06E-05
ADPf ¹	[MJ]	4,93E+03	1,94E+03	2,77E+01	7,12E+01	1,46E+02	5,06E+01	9,45E-01	-5,18E+01
WDP ¹	[m ³ world eq. deprived]	8,48E+01	9,81E+00	-1,95E-01	1,61E-01	7,37E-01	1,15E-01	4,61E-02	-1,54E+01
Caption	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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimer	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.								

ADDITIONAL ENVIRONMENTAL IMPACTS PER 1 ton Eco Rapid									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	[Disease incidence]	1,33E-05	1,10E-05	1,76E-07	1,40E-06	8,23E-07	9,91E-07	6,03E-09	-6,67E-07
IRP ²	[kBq U235 eq.]	1,50E+01	2,32E+00	1,09E-01	3,73E-02	1,74E-01	2,64E-02	8,82E-04	-3,56E-01
ETP-fw ¹	[CTUe]	1,60E+03	2,58E+02	2,13E+01	3,36E+00	1,94E+01	2,38E+00	5,01E-02	-1,86E+01
HTP-c ¹	[CTUh]	4,92E-08	2,34E-08	8,83E-10	5,53E-10	1,76E-09	3,93E-10	4,60E-12	-2,16E-09
HTP-nc ¹	[CTUh]	2,02E-06	1,22E-06	4,27E-08	8,72E-09	9,14E-08	6,19E-09	1,30E-10	-5,57E-08
SQP ¹	-	2,40E+03	1,15E+03	4,59E+01	4,20E+00	8,63E+01	2,98E+00	1,92E+00	-1,28E+02
Caption	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)								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimers	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience 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 PER 1 ton Eco Rapid									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	[MJ]	2,76E+02	3,16E+01	6,57E+01	4,88E-01	2,38E+00	1,37E+01	9,99E-02	-1,80E+01
PERM	[MJ]	7,42E+01	0,00E+00	-6,08E+01	0,00E+00	0,00E+00	-1,34E+01	-8,08E-02	0,00E+00
PERT	[MJ]	3,50E+02	3,16E+01	4,90E+00	4,88E-01	2,38E+00	3,46E-01	1,92E-02	-1,80E+01

PENRE	[MJ]	3,69E+03	1,94E+03	1,08E+02	7,12E+01	1,46E+02	1,18E+03	7,74E+00	-5,18E+01
PENRM	[MJ]	1,21E+03	0,00E+00	-8,01E+01	0,00E+00	0,00E+00	-1,13E+03	-6,80E+00	0,00E+00
PENRT	[MJ]	4,90E+03	1,94E+03	2,77E+01	7,12E+01	1,46E+02	5,06E+01	9,45E-01	-5,18E+01
SM	[kg]	1,91E+02	8,68E-01	1,45E-02	2,90E-02	6,52E-02	2,06E-02	2,30E-04	-1,42E-01
RSF	[MJ]	6,12E-01	1,14E-02	1,73E-04	7,63E-05	8,56E-04	5,42E-05	5,67E-06	-1,03E-03
NRSF	[MJ]	4,68E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m³]	2,16E+00	2,43E-01	-3,85E-03	3,98E-03	1,82E-02	2,82E-03	1,08E-03	-3,61E-01
Caption	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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 ton Eco Rapid									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	1,04E+01	2,78E+00	1,35E-01	7,37E-02	2,09E-01	5,23E-02	7,42E-04	-4,04E-01
NHWD	[kg]	4,62E+02	5,97E+01	1,98E+02	1,16E+00	4,49E+00	8,23E-01	1,81E-02	-9,65E+00
RWD	[kg]	5,73E-03	5,72E-04	2,55E-05	9,17E-06	4,30E-05	6,51E-06	2,04E-07	-8,25E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	9,10E-02	0,00E+00	9,16E-01	0,00E+00	0,00E+00	1,08E+03	0,00E+00	0,00E+00
MER	[kg]	1,43E+00	0,00E+00	4,24E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,10E+01	3,82E-01	4,59E-02	5,38E-03	2,87E-02	3,82E-03	2,22E-04	-1,48E-01
EET	[MJ]	1,56E+01	4,69E-01	1,57E-02	1,94E-03	3,52E-02	1,38E-03	3,98E-05	-1,17E-02
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

BIOGENIC CARBON CONTENT PER 1 ton Eco Rapid		
Parameter	Unit	At the factory gate
Biogenic carbon content in product	[kg C]	1,47E-01
Biogenic carbon content in accompanying packaging	[kg C]	1,27E+01
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂	

Eco Rapid Indu

ENVIRONMENTAL IMPACTS PER 1 ton Eco Rapid Indu									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	[kg CO ₂ eq.]	5,06E+02	1,37E+02	9,46E+00	5,55E+00	1,04E+01	8,02E+00	3,64E-02	-4,55E+00
GWP-fossil	[kg CO ₂ eq.]	5,01E+02	1,37E+02	2,42E+00	5,55E+00	1,04E+01	3,94E+00	3,64E-02	-4,29E+00
GWP-biogenic	[kg CO ₂ eq.]	4,94E+00	9,03E-02	7,03E+00	1,57E-03	6,87E-03	4,08E+00	6,99E-05	-2,57E-01
GWP-luluc	[kg CO ₂ eq.]	2,24E-01	4,55E-02	1,32E-03	4,55E-04	3,46E-03	3,23E-04	6,81E-06	-5,43E-03
ODP	[kg CFC 11 eq.]	2,35E-05	2,99E-06	4,06E-08	1,20E-07	2,27E-07	8,51E-08	1,29E-09	-5,55E-08
AP	[mol H ⁺ eq.]	1,76E+00	4,40E-01	1,11E-02	4,96E-02	3,35E-02	3,52E-02	2,42E-04	-3,38E-02
EP-freshwater	[kg P eq.]	2,03E-01	9,36E-03	1,25E-03	1,69E-04	7,11E-04	1,20E-04	1,89E-06	-1,45E-03
EP-marine	[kg N eq.]	5,44E-01	1,48E-01	3,37E-03	2,31E-02	1,13E-02	1,64E-02	1,03E-04	-9,79E-03
EP-terrestrial	[mol N eq.]	4,58E+00	1,61E+00	3,46E-02	2,53E-01	1,23E-01	1,79E-01	1,13E-03	-1,32E-01
POCP	[kg NMVOC eq.]	1,74E+00	6,67E-01	1,19E-02	7,62E-02	5,07E-02	5,41E-02	4,24E-04	-3,19E-02
ADPm ¹	[kg Sb eq.]	1,46E-03	4,62E-04	5,22E-06	1,87E-06	3,51E-05	1,33E-06	4,49E-08	-6,14E-05
ADPf ¹	[MJ]	7,92E+03	1,94E+03	2,79E+01	7,21E+01	1,48E+02	5,12E+01	9,57E-01	-5,25E+01
WDP ¹	[m ³ world eq. deprived]	1,11E+02	9,81E+00	1,16E-01	1,63E-01	7,46E-01	1,16E-01	4,67E-02	-1,56E+01
Caption	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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimer	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.								

ADDITIONAL ENVIRONMENTAL IMPACTS PER 1 ton Eco Rapid Indu									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	[Disease incidence]	1,18E-05	1,10E-05	1,77E-07	1,41E-06	8,33E-07	1,00E-06	6,10E-09	-6,75E-07
IRP ²	[kBq U235 eq.]	1,91E+01	2,32E+00	1,10E-01	3,77E-02	1,76E-01	2,68E-02	8,93E-04	-3,60E-01
ETP-fw ¹	[CTUe]	2,05E+03	2,58E+02	2,14E+01	3,39E+00	1,96E+01	2,41E+00	5,08E-02	-1,88E+01
HTP-c ¹	[CTUh]	6,63E-08	2,34E-08	8,88E-10	5,60E-10	1,78E-09	3,98E-10	4,66E-12	-2,19E-09
HTP-nc ¹	[CTUh]	2,73E-06	1,22E-06	4,30E-08	8,82E-09	9,25E-08	6,26E-09	1,32E-10	-5,64E-08
SQP ¹	-	2,42E+03	1,15E+03	4,62E+01	4,24E+00	8,73E+01	3,01E+00	1,95E+00	-1,29E+02
Caption	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)								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimers	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience 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 PER 1 ton Eco Rapid Indu									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	[MJ]	3,06E+02	3,16E+01	6,57E+01	4,93E-01	2,41E+00	7,64E+00	6,34E-02	-1,83E+01
PERM	[MJ]	6,81E+01	0,00E+00	-6,08E+01	0,00E+00	0,00E+00	-7,29E+00	-4,40E-02	0,00E+00
PERT	[MJ]	3,75E+02	3,16E+01	4,92E+00	4,93E-01	2,41E+00	3,50E-01	1,94E-02	-1,83E+01

PENRE	[MJ]	6,36E+03	1,94E+03	1,26E+02	7,21E+01	1,48E+02	1,52E+03	9,81E+00	-5,25E+01
PENRM	[MJ]	1,57E+03	0,00E+00	-9,85E+01	0,00E+00	0,00E+00	-1,47E+03	-8,85E+00	0,00E+00
PENRT	[MJ]	7,93E+03	1,94E+03	2,79E+01	7,21E+01	1,48E+02	5,12E+01	9,57E-01	-5,25E+01
SM	[kg]	2,89E+02	8,68E-01	1,48E-02	2,93E-02	6,60E-02	2,08E-02	2,33E-04	-1,43E-01
RSF	[MJ]	5,52E-01	1,14E-02	1,74E-04	7,72E-05	8,67E-04	5,48E-05	5,74E-06	-1,04E-03
NRSF	[MJ]	1,47E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m ³]	2,69E+00	2,43E-01	3,38E-03	4,02E-03	1,85E-02	2,86E-03	1,10E-03	-3,65E-01
Caption	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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 ton Eco Rapid Indu									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	1,07E+02	2,78E+00	1,35E-01	7,46E-02	2,12E-01	5,30E-02	7,51E-04	-4,09E-01
NHWD	[kg]	8,11E+02	5,97E+01	1,99E+02	1,17E+00	4,54E+00	8,33E-01	1,83E-02	-9,76E+00
RWD	[kg]	8,48E-03	5,72E-04	2,56E-05	9,28E-06	4,35E-05	6,59E-06	2,07E-07	-8,35E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	1,01E+00	0,00E+00	9,16E-01	0,00E+00	0,00E+00	1,09E+03	0,00E+00	0,00E+00
MER	[kg]	2,65E+01	0,00E+00	4,24E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	5,02E+01	3,82E-01	4,61E-02	5,44E-03	2,90E-02	3,86E-03	2,25E-04	-1,49E-01
EET	[MJ]	1,62E+01	4,69E-01	1,59E-02	1,96E-03	3,56E-02	1,39E-03	4,03E-05	-1,19E-02
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

BIOGENIC CARBON CONTENT PER 1 ton Eco Rapid Indu		
Parameter	Unit	At the factory gate
Biogenic carbon content in product	[kg C]	1,47E-01
Biogenic carbon content in accompanying packaging	[kg C]	1,27E+01
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂	

Eco Rapid Deco

ENVIRONMENTAL IMPACTS PER 1 ton Eco Rapid Deco									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	[kg CO ₂ eq.]	5,09E+02	1,37E+02	9,51E+00	5,69E+00	1,07E+01	8,23E+00	3,73E-02	-4,67E+00
GWP-fossil	[kg CO ₂ eq.]	5,03E+02	1,37E+02	2,47E+00	5,69E+00	1,07E+01	4,04E+00	3,72E-02	-4,40E+00
GWP-biogenic	[kg CO ₂ eq.]	5,54E+00	9,03E-02	7,03E+00	1,61E-03	7,04E-03	4,19E+00	7,16E-05	-2,63E-01
GWP-luluc	[kg CO ₂ eq.]	2,42E-01	4,55E-02	1,36E-03	4,67E-04	3,55E-03	3,31E-04	6,97E-06	-5,56E-03
ODP	[kg CFC 11 eq.]	2,24E-05	2,99E-06	4,18E-08	1,23E-07	2,33E-07	8,73E-08	1,32E-09	-5,69E-08
AP	[mol H ⁺ eq.]	1,77E+00	4,40E-01	1,15E-02	5,09E-02	3,43E-02	3,61E-02	2,48E-04	-3,47E-02
EP-freshwater	[kg P eq.]	2,00E-01	9,36E-03	1,29E-03	1,73E-04	7,30E-04	1,23E-04	1,93E-06	-1,49E-03
EP-marine	[kg N eq.]	5,30E-01	1,48E-01	3,46E-03	2,37E-02	1,16E-02	1,68E-02	1,06E-04	-1,00E-02
EP-terrestrial	[mol N eq.]	4,52E+00	1,61E+00	3,55E-02	2,59E-01	1,26E-01	1,84E-01	1,16E-03	-1,35E-01
POCP	[kg NMVOC eq.]	1,75E+00	6,67E-01	1,22E-02	7,81E-02	5,20E-02	5,54E-02	4,34E-04	-3,27E-02
ADPm ¹	[kg Sb eq.]	1,54E-03	4,62E-04	5,40E-06	1,92E-06	3,60E-05	1,36E-06	4,60E-08	-6,29E-05
ADPf ¹	[MJ]	8,04E+03	1,94E+03	2,88E+01	7,39E+01	1,52E+02	5,25E+01	9,80E-01	-5,38E+01
WDP ¹	[m ³ world eq. deprived]	1,09E+02	9,81E+00	1,38E+00	1,67E-01	7,65E-01	1,19E-01	4,78E-02	-1,59E+01
Caption	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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimer	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.								

ADDITIONAL ENVIRONMENTAL IMPACTS PER 1 ton Eco Rapid Deco									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	[Disease incidence]	1,26E-05	1,10E-05	1,83E-07	1,45E-06	8,54E-07	1,03E-06	6,25E-09	-6,92E-07
IRP ²	[kBq U235 eq.]	2,13E+01	2,32E+00	1,14E-01	3,86E-02	1,81E-01	2,74E-02	9,14E-04	-3,69E-01
ETP-fw ¹	[CTUe]	2,53E+03	2,58E+02	2,17E+01	3,48E+00	2,01E+01	2,47E+00	5,20E-02	-1,93E+01
HTP-c ¹	[CTUh]	6,60E-08	2,34E-08	9,12E-10	5,74E-10	1,83E-09	4,08E-10	4,77E-12	-2,24E-09
HTP-nc ¹	[CTUh]	2,84E-06	1,22E-06	4,42E-08	9,05E-09	9,48E-08	6,42E-09	1,35E-10	-5,78E-08
SQP ¹	-	2,30E+03	1,15E+03	4,78E+01	4,35E+00	8,96E+01	3,09E+00	1,99E+00	-1,32E+02
Caption	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)								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimers	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience 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 PER 1 ton Eco Rapid Deco									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	[MJ]	3,24E+02	3,16E+01	6,57E+01	5,06E-01	2,47E+00	4,76E+00	4,65E-02	-1,87E+01
PERM	[MJ]	6,50E+01	0,00E+00	-6,06E+01	0,00E+00	0,00E+00	-4,40E+00	-2,66E-02	0,00E+00
PERT	[MJ]	3,89E+02	3,16E+01	5,11E+00	5,06E-01	2,47E+00	3,59E-01	1,99E-02	-1,87E+01

PENRE	[MJ]	6,47E+03	1,94E+03	1,28E+02	7,39E+01	1,52E+02	1,52E+03	9,85E+00	-5,38E+01
PENRM	[MJ]	1,58E+03	0,00E+00	-9,87E+01	0,00E+00	0,00E+00	-1,47E+03	-8,87E+00	0,00E+00
PENRT	[MJ]	8,05E+03	1,94E+03	2,88E+01	7,39E+01	1,52E+02	5,25E+01	9,80E-01	-5,38E+01
SM	[kg]	3,31E+02	8,68E-01	1,57E-02	3,01E-02	6,77E-02	2,13E-02	2,39E-04	-1,47E-01
RSF	[MJ]	5,53E-01	1,14E-02	1,79E-04	7,91E-05	8,89E-04	5,62E-05	5,88E-06	-1,07E-03
NRSF	[MJ]	1,30E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m³]	2,65E+00	2,43E-01	3,28E-02	4,13E-03	1,89E-02	2,93E-03	1,12E-03	-3,74E-01
Caption	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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 ton Eco Rapid Deco									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	5,31E+01	2,78E+00	1,37E-01	7,65E-02	2,17E-01	5,43E-02	7,69E-04	-4,20E-01
NHWD	[kg]	8,64E+02	5,97E+01	2,06E+02	1,20E+00	4,66E+00	8,54E-01	1,87E-02	-1,00E+01
RWD	[kg]	8,70E-03	5,72E-04	2,65E-05	9,51E-06	4,46E-05	6,75E-06	2,12E-07	-8,56E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	1,01E+00	0,00E+00	9,16E-01	0,00E+00	0,00E+00	1,12E+03	0,00E+00	0,00E+00
MER	[kg]	2,65E+01	0,00E+00	4,24E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	5,12E+01	3,82E-01	4,78E-02	5,58E-03	2,98E-02	3,96E-03	2,30E-04	-1,53E-01
EET	[MJ]	1,29E+01	4,69E-01	1,64E-02	2,01E-03	3,65E-02	1,43E-03	4,13E-05	-1,22E-02
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

BIOGENIC CARBON CONTENT PER 1 ton Eco Rapid Deco		
Parameter	Unit	At the factory gate
Biogenic carbon content in product	[kg C]	8,82E-02
Biogenic carbon content in accompanying packaging	[kg C]	1,27E+01
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂	

Eco Terrazzo Binder

For Eco Terrazzo Binder, the results are declared for the binder itself and are not suitable to be used independently, as the product requires additional terrazzo materials according to the selected mix design.

ENVIRONMENTAL IMPACTS PER 1 ton Eco Terrazzo Binder									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	[kg CO ₂ eq.]	4,82E+02	1,37E+02	9,41E+00	5,31E+00	9,99E+00	7,68E+00	3,48E-02	-4,36E+00
GWP-fossil	[kg CO ₂ eq.]	4,79E+02	1,37E+02	2,38E+00	5,31E+00	9,98E+00	3,77E+00	3,47E-02	-4,11E+00
GWP-biogenic	[kg CO ₂ eq.]	2,80E+00	9,03E-02	7,03E+00	1,50E-03	6,57E-03	3,91E+00	6,68E-05	-2,46E-01
GWP-luluc	[kg CO ₂ eq.]	2,34E-01	4,55E-02	1,29E-03	4,36E-04	3,31E-03	3,09E-04	6,51E-06	-5,19E-03
ODP	[kg CFC 11 eq.]	2,35E-05	2,99E-06	3,94E-08	1,15E-07	2,17E-07	8,15E-08	1,23E-09	-5,31E-08
AP	[mol H ⁺ eq.]	1,77E+00	4,40E-01	1,08E-02	4,75E-02	3,20E-02	3,37E-02	2,32E-04	-3,24E-02
EP-freshwater	[kg P eq.]	2,20E-01	9,36E-03	1,21E-03	1,62E-04	6,81E-04	1,15E-04	1,80E-06	-1,39E-03
EP-marine	[kg N eq.]	5,44E-01	1,48E-01	3,29E-03	2,21E-02	1,08E-02	1,57E-02	9,89E-05	-9,37E-03
EP-terrestrial	[mol N eq.]	4,43E+00	1,61E+00	3,37E-02	2,42E-01	1,17E-01	1,72E-01	1,08E-03	-1,26E-01
POCP	[kg NMVOC eq.]	1,57E+00	6,67E-01	1,15E-02	7,29E-02	4,86E-02	5,17E-02	4,05E-04	-3,05E-02
ADPm ¹	[kg Sb eq.]	1,28E-03	4,62E-04	5,09E-06	1,79E-06	3,36E-05	1,27E-06	4,29E-08	-5,87E-05
ADPf ¹	[MJ]	6,89E+03	1,94E+03	2,71E+01	6,90E+01	1,41E+02	4,90E+01	9,15E-01	-5,02E+01
WDP ¹	[m ³ world eq. deprived]	9,16E+01	9,81E+00	-1,13E+00	1,56E-01	7,14E-01	1,11E-01	4,46E-02	-1,49E+01
Caption	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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimer	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.								

ADDITIONAL ENVIRONMENTAL IMPACTS PER 1 ton Eco Terrazzo Binder									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	[Disease incidence]	1,08E-05	1,10E-05	1,72E-07	1,35E-06	7,97E-07	9,59E-07	5,83E-09	-6,46E-07
IRP ²	[kBq U235 eq.]	1,88E+01	2,32E+00	1,08E-01	3,61E-02	1,69E-01	2,56E-02	8,53E-04	-3,45E-01
ETP-fw ¹	[CTUe]	3,29E+03	2,58E+02	2,10E+01	3,25E+00	1,88E+01	2,31E+00	4,85E-02	-1,80E+01
HTP-c ¹	[CTUh]	7,01E-08	2,34E-08	8,66E-10	5,36E-10	1,70E-09	3,80E-10	4,45E-12	-2,09E-09
HTP-nc ¹	[CTUh]	2,52E-06	1,22E-06	4,18E-08	8,44E-09	8,85E-08	5,99E-09	1,26E-10	-5,39E-08
SQP ¹	-	2,42E+03	1,15E+03	4,48E+01	4,06E+00	8,36E+01	2,88E+00	1,86E+00	-1,24E+02
Caption	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)								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimers	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience 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 PER 1 ton Eco Terrazzo Binder									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	[MJ]	3,30E+02	3,16E+01	6,79E+01	4,72E-01	2,30E+00	5,07E+01	3,23E-01	-1,75E+01
PERM	[MJ]	1,14E+02	0,00E+00	-6,30E+01	0,00E+00	0,00E+00	-5,04E+01	-3,04E-01	0,00E+00

PERT	[MJ]	4,44E+02	3,16E+01	4,85E+00	4,72E-01	2,30E+00	3,35E-01	1,86E-02	-1,75E+01
PENRE	[MJ]	5,98E+03	1,94E+03	9,31E+01	6,90E+01	1,41E+02	9,01E+02	6,06E+00	-5,02E+01
PENRM	[MJ]	9,23E+02	0,00E+00	-6,60E+01	0,00E+00	0,00E+00	-8,52E+02	-5,14E+00	0,00E+00
PENRT	[MJ]	6,90E+03	1,94E+03	2,71E+01	6,90E+01	1,41E+02	4,90E+01	9,15E-01	-5,02E+01
SM	[kg]	5,40E+02	8,68E-01	1,38E-02	2,81E-02	6,32E-02	1,99E-02	2,23E-04	-1,37E-01
RSF	[MJ]	5,52E-01	1,14E-02	1,70E-04	7,39E-05	8,29E-04	5,24E-05	5,49E-06	-9,95E-04
NRSF	[MJ]	1,63E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m³]	2,25E+00	2,43E-01	-2,56E-02	3,85E-03	1,77E-02	2,73E-03	1,05E-03	-3,49E-01
Caption	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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 ton Eco Terrazzo Binder									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	5,95E+01	2,78E+00	1,33E-01	7,14E-02	2,03E-01	5,07E-02	7,18E-04	-3,92E-01
NHWD	[kg]	9,11E+02	5,97E+01	1,93E+02	1,12E+00	4,35E+00	7,97E-01	1,75E-02	-9,35E+00
RWD	[kg]	8,90E-03	5,72E-04	2,51E-05	8,88E-06	4,16E-05	6,30E-06	1,98E-07	-7,99E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	1,01E+00	0,00E+00	9,16E-01	0,00E+00	0,00E+00	1,04E+03	0,00E+00	0,00E+00
MER	[kg]	2,65E+01	0,00E+00	4,24E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	5,23E+01	3,82E-01	4,53E-02	5,21E-03	2,78E-02	3,70E-03	2,15E-04	-1,43E-01
EET	[MJ]	1,52E+01	4,69E-01	1,54E-02	1,88E-03	3,41E-02	1,33E-03	3,85E-05	-1,14E-02
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

BIOGENIC CARBON CONTENT PER 1 ton Eco Terrazzo Binder		
Parameter	Unit	At the factory gate
Biogenic carbon content in product	[kg C]	1,03E+00
Biogenic carbon content in accompanying packaging	[kg C]	1,27E+01
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂	

Eco Screed

ENVIRONMENTAL IMPACTS PER 1 ton Eco Screed									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	[kg CO ₂ eq.]	2,14E+02	1,37E+02	9,45E+00	5,63E+00	1,06E+01	8,15E+00	3,69E-02	-4,62E+00
GWP-fossil	[kg CO ₂ eq.]	2,20E+02	1,37E+02	2,41E+00	5,63E+00	1,06E+01	4,00E+00	3,68E-02	-4,36E+00
GWP-biogenic	[kg CO ₂ eq.]	-6,12E+00	9,03E-02	7,03E+00	1,59E-03	6,97E-03	4,15E+00	7,09E-05	-2,61E-01
GWP-luluc	[kg CO ₂ eq.]	1,96E-01	4,55E-02	1,31E-03	4,62E-04	3,51E-03	3,28E-04	6,90E-06	-5,51E-03
ODP	[kg CFC 11 eq.]	5,72E-06	2,99E-06	4,02E-08	1,22E-07	2,30E-07	8,65E-08	1,31E-09	-5,64E-08
AP	[mol H ⁺ eq.]	9,79E-01	4,40E-01	1,10E-02	5,03E-02	3,40E-02	3,58E-02	2,46E-04	-3,43E-02
EP-freshwater	[kg P eq.]	5,84E-02	9,36E-03	1,24E-03	1,71E-04	7,22E-04	1,22E-04	1,91E-06	-1,47E-03
EP-marine	[kg N eq.]	2,64E-01	1,48E-01	3,35E-03	2,34E-02	1,14E-02	1,67E-02	1,05E-04	-9,94E-03
EP-terrestrial	[mol N eq.]	2,51E+00	1,61E+00	3,43E-02	2,56E-01	1,24E-01	1,82E-01	1,15E-03	-1,34E-01
POCP	[kg NMVOC eq.]	9,39E-01	6,67E-01	1,18E-02	7,72E-02	5,15E-02	5,49E-02	4,30E-04	-3,24E-02
ADPm ¹	[kg Sb eq.]	7,86E-04	4,62E-04	5,18E-06	1,89E-06	3,56E-05	1,35E-06	4,55E-08	-6,23E-05
ADPf ¹	[MJ]	3,18E+03	1,94E+03	2,77E+01	7,31E+01	1,50E+02	5,20E+01	9,70E-01	-5,32E+01
WDP ¹	[m ³ world eq. deprived]	6,42E+01	9,81E+00	-2,09E-01	1,65E-01	7,57E-01	1,18E-01	4,73E-02	-1,58E+01
Caption	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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimer	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.								

ADDITIONAL ENVIRONMENTAL IMPACTS PER 1 ton Eco Screed									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	[Disease incidence]	1,12E-05	1,10E-05	1,76E-07	1,43E-06	8,45E-07	1,02E-06	6,19E-09	-6,85E-07
IRP ²	[kBq U235 eq.]	1,16E+01	2,32E+00	1,09E-01	3,82E-02	1,79E-01	2,72E-02	9,05E-04	-3,65E-01
ETP-fw ¹	[CTUe]	1,96E+03	2,58E+02	2,13E+01	3,44E+00	1,99E+01	2,45E+00	5,14E-02	-1,91E+01
HTP-c ¹	[CTUh]	4,39E-08	2,34E-08	8,82E-10	5,68E-10	1,81E-09	4,04E-10	4,72E-12	-2,22E-09
HTP-nc ¹	[CTUh]	1,54E-06	1,22E-06	4,26E-08	8,95E-09	9,39E-08	6,37E-09	1,33E-10	-5,72E-08
SQP ¹	-	2,31E+03	1,15E+03	4,59E+01	4,30E+00	8,86E+01	3,06E+00	1,97E+00	-1,31E+02
Caption	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)								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimers	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience 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 PER 1 ton Eco Screed									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	[MJ]	2,46E+02	3,16E+01	6,68E+01	5,00E-01	2,44E+00	3,54E+01	2,31E-01	-1,85E+01
PERM	[MJ]	9,72E+01	0,00E+00	-6,19E+01	0,00E+00	0,00E+00	-3,50E+01	-2,12E-01	0,00E+00

PERT	[MJ]	3,43E+02	3,16E+01	4,90E+00	5,00E-01	2,44E+00	3,56E-01	1,97E-02	-1,85E+01
PENRE	[MJ]	2,70E+03	1,94E+03	7,05E+01	7,31E+01	1,50E+02	4,74E+02	3,52E+00	-5,32E+01
PENRM	[MJ]	4,68E+02	0,00E+00	-4,28E+01	0,00E+00	0,00E+00	-4,22E+02	-2,55E+00	0,00E+00
PENRT	[MJ]	3,16E+03	1,94E+03	2,77E+01	7,31E+01	1,50E+02	5,20E+01	9,70E-01	-5,32E+01
SM	[kg]	3,11E+02	8,68E-01	1,45E-02	2,97E-02	6,70E-02	2,12E-02	2,36E-04	-1,45E-01
RSF	[MJ]	6,09E-01	1,14E-02	1,73E-04	7,83E-05	8,79E-04	5,57E-05	5,82E-06	-1,06E-03
NRSF	[MJ]	2,34E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m³]	1,60E+00	2,43E-01	-4,16E-03	4,08E-03	1,87E-02	2,90E-03	1,11E-03	-3,70E-01
Caption	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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 ton Eco Screed

Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	8,38E+00	2,78E+00	1,35E-01	7,56E-02	2,15E-01	5,38E-02	7,61E-04	-4,15E-01
NHWD	[kg]	4,23E+02	5,97E+01	1,98E+02	1,19E+00	4,61E+00	8,46E-01	1,85E-02	-9,91E+00
RWD	[kg]	4,01E-03	5,72E-04	2,54E-05	9,41E-06	4,41E-05	6,69E-06	2,10E-07	-8,47E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	9,10E-02	0,00E+00	9,16E-01	0,00E+00	0,00E+00	1,11E+03	0,00E+00	0,00E+00
MER	[kg]	1,43E+00	0,00E+00	4,24E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,14E+01	3,82E-01	4,59E-02	5,51E-03	2,94E-02	3,92E-03	2,28E-04	-1,52E-01
EET	[MJ]	1,61E+01	4,69E-01	1,57E-02	1,99E-03	3,62E-02	1,42E-03	4,08E-05	-1,20E-02
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

BIOGENIC CARBON CONTENT PER 1 ton Eco Screed

Parameter	Unit	At the factory gate
Biogenic carbon content in product	[kg C]	5,88E-01
Biogenic carbon content in accompanying packaging	[kg C]	1,27E+01
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂	

Eco Mortar

ENVIRONMENTAL IMPACTS PER 1 ton Eco Mortar									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	[kg CO ₂ eq.]	2,47E+02	1,37E+02	9,45E+00	5,48E+00	1,03E+01	7,93E+00	3,60E-02	-4,50E+00
GWP-fossil	[kg CO ₂ eq.]	2,52E+02	1,37E+02	2,41E+00	5,48E+00	1,03E+01	3,89E+00	3,59E-02	-4,24E+00
GWP-biogenic	[kg CO ₂ eq.]	-4,76E+00	9,03E-02	7,03E+00	1,55E-03	6,79E-03	4,04E+00	6,91E-05	-2,54E-01
GWP-luluc	[kg CO ₂ eq.]	1,94E-01	4,55E-02	1,31E-03	4,50E-04	3,42E-03	3,19E-04	6,72E-06	-5,36E-03
ODP	[kg CFC 11 eq.]	6,93E-06	2,99E-06	4,03E-08	1,18E-07	2,24E-07	8,41E-08	1,28E-09	-5,49E-08
AP	[mol H ⁺ eq.]	1,11E+00	4,40E-01	1,11E-02	4,90E-02	3,31E-02	3,48E-02	2,39E-04	-3,34E-02
EP-freshwater	[kg P eq.]	5,44E-02	9,36E-03	1,24E-03	1,67E-04	7,03E-04	1,18E-04	1,86E-06	-1,43E-03
EP-marine	[kg N eq.]	3,12E-01	1,48E-01	3,36E-03	2,28E-02	1,11E-02	1,62E-02	1,02E-04	-9,67E-03
EP-terrestrial	[mol N eq.]	2,91E+00	1,61E+00	3,44E-02	2,50E-01	1,21E-01	1,77E-01	1,12E-03	-1,30E-01
POCP	[kg NMVOC eq.]	1,11E+00	6,67E-01	1,18E-02	7,53E-02	5,01E-02	5,34E-02	4,19E-04	-3,15E-02
ADPm ¹	[kg Sb eq.]	8,71E-04	4,62E-04	5,19E-06	1,85E-06	3,47E-05	1,31E-06	4,43E-08	-6,06E-05
ADPf ¹	[MJ]	3,67E+03	1,94E+03	2,77E+01	7,12E+01	1,46E+02	5,06E+01	9,45E-01	-5,18E+01
WDP ¹	[m ³ world eq. deprived]	7,25E+01	9,81E+00	-6,87E-02	1,61E-01	7,37E-01	1,15E-01	4,61E-02	-1,54E+01
Caption	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 = Ozone Depletion; AP = Acidification; EP-freshwater = Eutrophication – aquatic freshwater; EP-marine = Eutrophication – aquatic marine; EP-terrestrial = Eutrophication – terrestrial; POCP = Photochemical zone formation; ADPm = Abiotic Depletion Potential – minerals and metals; ADPf = Abiotic Depletion Potential – fossil fuels; WDP = water depletion potential								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimer	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.								

ADDITIONAL ENVIRONMENTAL IMPACTS PER 1 ton Eco Mortar									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PM	[Disease incidence]	1,21E-05	1,10E-05	1,76E-07	1,40E-06	8,23E-07	9,91E-07	6,03E-09	-6,67E-07
IRP ²	[kBq U235 eq.]	1,20E+01	2,32E+00	1,09E-01	3,72E-02	1,74E-01	2,64E-02	8,82E-04	-3,56E-01
ETP-fw ¹	[CTUe]	1,51E+03	2,58E+02	2,13E+01	3,35E+00	1,94E+01	2,38E+00	5,01E-02	-1,86E+01
HTP-c ¹	[CTUh]	4,16E-08	2,34E-08	8,84E-10	5,53E-10	1,76E-09	3,93E-10	4,60E-12	-2,16E-09
HTP-nc ¹	[CTUh]	1,71E-06	1,22E-06	4,28E-08	8,72E-09	9,14E-08	6,19E-09	1,30E-10	-5,57E-08
SQP ¹	-	2,28E+03	1,15E+03	4,60E+01	4,19E+00	8,63E+01	2,98E+00	1,92E+00	-1,28E+02
Caption	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)								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								
Disclaimers	¹ The results of this environmental indicator shall be used with care as the uncertainties on these results are high or as there is limited experience 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 PER 1 ton Eco Mortar									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	[MJ]	2,42E+02	3,16E+01	6,57E+01	4,88E-01	2,38E+00	1,37E+01	9,98E-02	-1,80E+01
PERM	[MJ]	7,42E+01	0,00E+00	-6,08E+01	0,00E+00	0,00E+00	-1,34E+01	-8,06E-02	0,00E+00

PERT	[MJ]	3,17E+02	3,16E+01	4,91E+00	4,88E-01	2,38E+00	3,46E-01	1,92E-02	-1,80E+01
PENRE	[MJ]	2,97E+03	1,94E+03	8,08E+01	7,12E+01	1,46E+02	6,67E+02	4,67E+00	-5,18E+01
PENRM	[MJ]	6,73E+02	0,00E+00	-5,31E+01	0,00E+00	0,00E+00	-6,16E+02	-3,72E+00	0,00E+00
PENRT	[MJ]	3,65E+03	1,94E+03	2,77E+01	7,12E+01	1,46E+02	5,06E+01	9,45E-01	-5,18E+01
SM	[kg]	2,11E+02	8,68E-01	1,46E-02	2,90E-02	6,52E-02	2,06E-02	2,30E-04	-1,42E-01
RSF	[MJ]	6,10E-01	1,14E-02	1,73E-04	7,63E-05	8,56E-04	5,42E-05	5,67E-06	-1,03E-03
NRSF	[MJ]	3,51E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	[m³]	1,83E+00	2,43E-01	-9,09E-04	3,98E-03	1,82E-02	2,82E-03	1,08E-03	-3,61E-01
Caption	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 material; RSF = Use of renewable secondary fuels; NRSF = Use of non renewable secondary fuels; FW = Net use of fresh water								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

WASTE CATEGORIES AND OUTPUT FLOWS PER 1 ton Eco Mortar									
Parameter	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	9,01E+00	2,78E+00	1,35E-01	7,37E-02	2,09E-01	5,23E-02	7,42E-04	-4,04E-01
NHWD	[kg]	4,15E+02	5,97E+01	1,98E+02	1,16E+00	4,49E+00	8,23E-01	1,81E-02	-9,65E+00
RWD	[kg]	4,53E-03	5,72E-04	2,55E-05	9,17E-06	4,30E-05	6,51E-06	2,04E-07	-8,25E-05

CRU	[kg]	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	[kg]	9,10E-02	0,00E+00	9,16E-01	0,00E+00	0,00E+00	1,08E+03	0,00E+00	0,00E+00
MER	[kg]	1,43E+00	0,00E+00	4,24E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	[MJ]	1,07E+01	3,82E-01	4,60E-02	5,37E-03	2,87E-02	3,82E-03	2,22E-04	-1,48E-01
EET	[MJ]	1,56E+01	4,69E-01	1,58E-02	1,94E-03	3,52E-02	1,38E-03	3,98E-05	-1,17E-02
Caption	HWD = Hazardous waste disposed; NHWD = Non hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy								
	The numbers are declared in scientific notation, fx 1,95E+02. This number can also be written as: 1,95*10 ² or 195, while 1,12E-11 is the same as 1,12*10 ⁻¹¹ or 0,0000000000112.								

BIOGENIC CARBON CONTENT PER 1 ton Eco Mortar		
Parameter	Unit	At the factory gate
Biogenic carbon content in product	[kg C]	1,47E-01
Biogenic carbon content in accompanying packaging	[kg C]	1,27E+01
Note	1 kg biogenic carbon is equivalent to 44/12 kg of CO ₂	

Additional information

LCA interpretation

Impacts are dominated by the product stage (A1–A3), primarily driven by raw materials and the electricity use from one of the productions sites. Transport to construction site (A4) constitutes a relatively high contribution to impact due to the long transport distance applied in this study and the contribution from this module is consistent across the products. The remaining modules A2, A5 and C-modules contribute with minor impacts.

Technical information on scenarios

Transport to the building site (A4)

Scenario information	Value	Unit
Fuel type	Diesel	-
Vehicle type	Truck (16-32 t), Euro 5	-
Transport distance from the production sites in Germany to the German/Danish boarder	400	km
Transport distance from the German/Danish boarder to the construction site	300	km
Capacity utilization (including empty runs)	26,32	%
Gross density of products transported	1800-2100	kg/m ³

Installation of the product in the building (A5)

Scenario information	Value	Unit
Water use	150-230	l
Energy type and consumption	1,05-1,13	kWh/ton
Waste materials	5	%

End of life (C1-C4)

Scenario information	Value	Unit
Collected separately	1	ton/ton
Collected with mixed waste	0	ton/ton
For reuse	0	ton/ton
For recycling	0,994	ton/ton
For energy recovery	0	ton/ton
For final disposal	0,006	ton/ton

Re-use, recovery and recycling potential (D)

Scenario information/Material	Value	Unit
Substitution of gravel	0,994	ton/ton
Energy recovery from waste incineration	0	MJ

Indoor air

The EPD does not give information on release of dangerous substances to indoor air because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.1.

Soil and water

The EPD does not give information on release of dangerous substances to soil and water because the horizontal standards on the relevant measurements are not available. Read more in EN15804+A1 chapter 7.4.2.

User-specific transport calculations (A4)

The declared A4 module reflects a 700 km scenario in accordance to NPCR 009 Part B for Technical-Chemical products for building and construction industry.

If the user of this EPD wish to model specific data, it is recommended to apply 400 km, to reflect the transportation from Germany to the Danish/German mainland border and then add the distance to the construction site.

References

Publisher	 epddanmark www.epddanmark.dk Template version 2025.1
Programme operator	Danish Technological Institute Gregersensvej DK-2630 Taastrup www.teknologisk.dk
LCA-practitioner	 NIRAS A/S Østre Havnegade 12 DK-9000, Aalborg http://www.niras.dk Natascha Falbe Frandsen Simon Winther Schor Jasper Emil Strømgren
LCA software /background data	Software: Simapro 10.2.0.2 / Background data: ecoinvent 3.11 LCIA Method: EN 15804+A2 reference package 3.1
3rd party verifier	<i>Kim Christiansen, kimconsult</i> Verified according to Verification Checklist 1 v. 2.9.1 – 2025.1.1

General Programme instructions

General Programme Instructions, version 3.0, spring 2025

www.epddanmark.dk

Technical Rules and Guidelines

Technical Rules and Guidelines, version 1.0, spring 2025

www.epddanmark.dk

EN 15804

DS/EN 15804 + A2:2019 - "Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products"

PCR 2019:14 – Construction products

c-PCR 2019:14-c-PCR-017 – *Technical-chemical products (for construction sector), adopted from NPCR 009: Part B for Technical-Chemical products for building and construction industry, version 3.0 (EPD Norway)*

EN 15942

DS/EN 15942:2011 – "Sustainability of construction works – Environmental product declarations – Communication format business-to-business"

ISO 14025

DS/EN ISO 14025:2010 – "Environmental labels and declarations – Type III environmental declarations – Principles and procedures"

ISO 14040

DS/EN ISO 14040:2008 – "Environmental management – Life cycle assessment – Principles and framework"

ISO 14044

DS/EN ISO 14044:2008 – "Environmental management – Life cycle assessment – Requirements and guidelines"

Miljøstyrelsen, 2022 Last visited: 18-06-2026

[Miljøprojekt nr. 2185 – Livscyklusvurdering \(LCA\) af konsekvenser ved selektiv nedrivning](#)

Teknologisk Institut, August 2019

[Projekt - Nulspilprojektet – Genanvendelse af spildbeton fra egen produktion - Teknologisk Institut](#)

Miljøstyrelsen, 2023 Last visited: 18-06-2026

[Find affaldsstatistikker og kortlægning - Miljøstyrelsen](#)