

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Uniplan 250 Zero



The Norwegian EPD Foundation

Owner of the declaration:
Mapei

Product:
Uniplan 250 Zero

Declared unit:
1 kg

This declaration is based on Product Category Rules:
CEN Standard EN 15804:2012+A2:2019 serves as core
PCR
NPCR 009:2021 Part B for Technical - Chemical products
for building and construction industry

Program operator:
The Norwegian EPD Foundation

Declaration number:
NEPD-9002-9002-1

Registration number:
NEPD-9002-9002-1

Issue date: 31.12.2024

Valid to: 31.12.2029

EPD software:
LCAno EPD generator ID: 595019

General information

Product

Uniplan 250 Zero

Program operator:

The Norwegian EPD Foundation
 Post Box 5250 Majorstuen, 0303 Oslo, Norway
 Phone: +47 977 22 020
 web: www.epd-norge.no

Declaration number:

NEPD-9002-9002-1

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
 NPCR 009:2021 Part B for Technical - Chemical products for building
 and construction industry

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 kg Uniplan 250 Zero

Declared unit with option:

A1-A3,A4,A5,C1,C2,C3,C4,D

Functional unit:

Functional unit is not covered by this PCR.

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. NEPDT73

Third party verifier:

Linda Høibye, Life Cycle Assessment Consulting

(no signature required)

Owner of the declaration:

Mapei
 Contact person: Environmental sustainability
 Phone: + 39 02 37673036
 e-mail: corporate.sustainability@mapei.it

Manufacturer:

Mapei AS

Place of production:

Mapei AS
 Vallsetvegen 6
 2120 Sagstua, Norway

Management system:

ISO 9001, ISO 14001 and ISO 45001

Organisation no:

911 103 079

Issue date:

31.12.2024

Valid to:

31.12.2029

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.
 NEPDT105

Developer of EPD: Laura Carettoni

Reviewer of company-specific input data and EPD: Marco Mazzetti

Approved:



Håkon Hauan
 Managing Director of EPD-Norway

Product

Product description:

Uniplan 250 Zero is a pumpable, rapid-drying, cement-based, self-levelling compound for levelling and smoothing of new and existing concrete and cementitious substrates. Intended for indoor use both on new construction and renovation for residential housing, offices, commercial and public buildings where specific requirements for high surface strength and rapid floor covering installation are needed and can be used with mechanical adhesion to the substrate.

Uniplan 250 Zero is available in 20kg bag.

- Can be applied in thicknesses from 3 to 40 mm per layer.
- Can be covered after 1 - 2 days depending on the thickness and temperature, up to 30 mm after 1 day, up to 40 mm after 2 days.
- Can be covered with all types of resilient floor coverings, textiles, floating parquet and laminate, ceramics and natural stone, glued multilayer parquet and glued solid hardwood flooring.
- Water amount 3.8 – 4.0 liter per 20 kg bag (19 – 20%).

For more information see the TDS (Technical Data Sheet) on Mapei AS website (www.mapei.com/no).

Product specification

| Materials | kg | % |
|------------------|------|--------|
| Inorganic Binder | 0,27 | 26,76 |
| Additives | 0,00 | 0,27 |
| Binders | 0,01 | 1,20 |
| Filler | 0,72 | 71,77 |
| Total | 1,00 | 100,00 |

| Packaging | kg | % |
|-----------------------|------|--------|
| Packaging | 0,03 | 100,00 |
| Total incl. packaging | 1,03 | 100,00 |

Technical data:

Uniplan 250 Zero is CE-marked and classified as CT-C30-F7-A1FL according to European norm EN 13813 "Screed material and floor screeds - Screed material – Properties and requirements". See the TDS on www.mapei.com/no.

Market:

Nordic & Baltic countries

Reference service life, product

The reference service life of the product is similar to the service life of the building.

Reference service life, building

60 years

LCA: Calculation rules

Declared unit:

1 kg Uniplan 250 Zero

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. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.

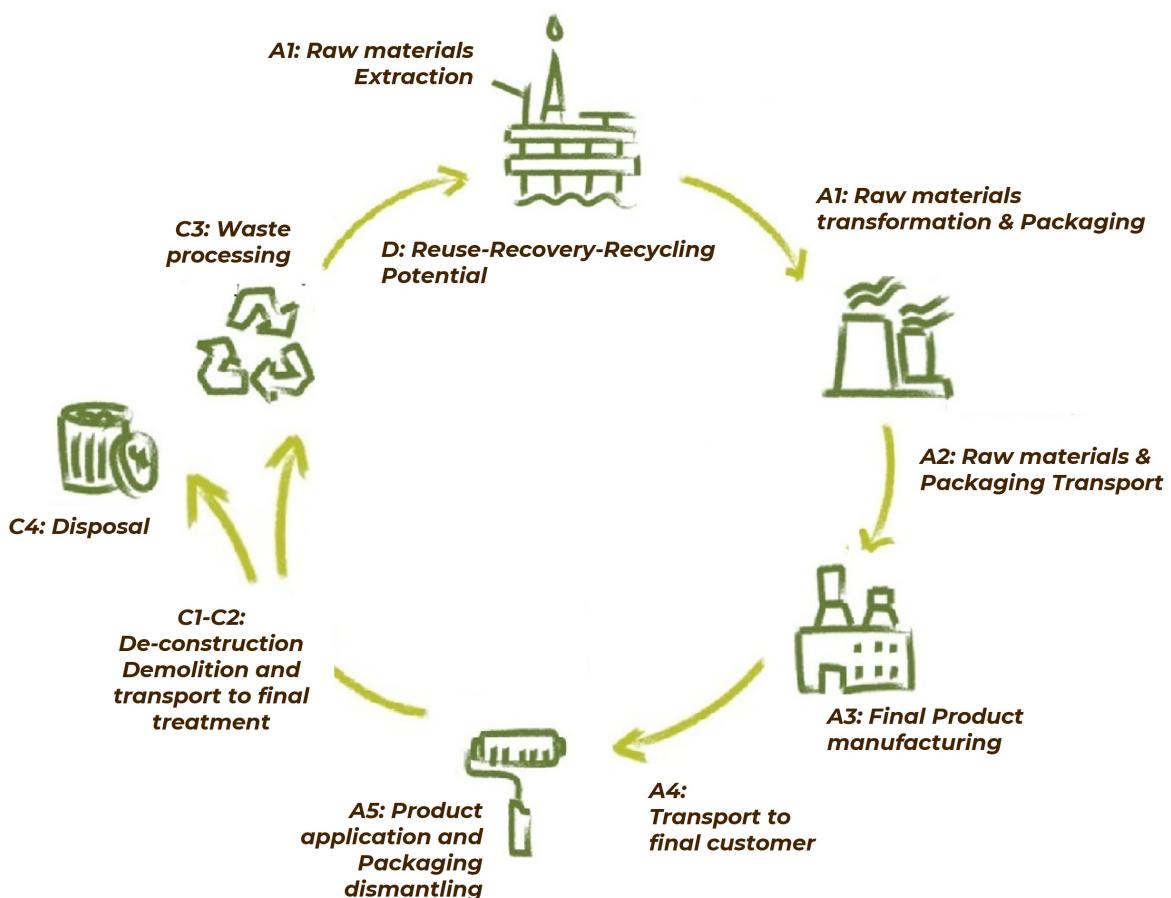
| Materials | Source | Data quality | Year |
|------------------|---------------|--------------|------|
| Additives | ecoinvent 3.6 | Database | 2019 |
| Additives | Supplier | EPD | 2021 |
| Binders | ecoinvent 3.6 | Database | 2019 |
| Filler | ecoinvent 3.6 | Database | 2019 |
| Filler | Supplier | EPD | 2021 |
| Inorganic Binder | ecoinvent 3.6 | Database | 2019 |
| Inorganic Binder | Supplier | EPD | 2020 |
| Inorganic Binder | Supplier | EPD | 2023 |
| Packaging | ecoinvent 3.6 | Database | 2019 |

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

| Product stage | | | Construction installation stage | | Use stage | | | | | | End of life stage | | | | Beyond the system boundaries | |
|---------------|-----------|---------------|---------------------------------|----------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|------------------------------|------------------------------------|
| Raw materials | Transport | Manufacturing | Transport | Assembly | Use | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal | Reuse-Recovery-Recycling-potential |
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 | D |
| X | X | X | X | X | MND | MND | MND | MND | MND | MND | MND | X | X | X | X | X |

System boundary:

The approach is "cradle to gate" (A1–A3) with modules C1–C4 and module D and optional modules (A1–A3 + A4 – A5 + C + D). The production process starts from raw materials, that are purchased from external and intercompany suppliers and stored in the plant. Bulk raw materials are stored in specific silos and added automatically in the production mixer, according to the formula of the product. Other raw materials, supplied in bags, big bags or tanks, are stored in the warehouse and added automatically or manually in the mixer. The production is a discontinuous process, in which all the components are mechanically mixed in batches. The semi-finished product is then packaged, put on wooden pallets and stored in the finished products warehouse. The quality of final products is controlled before the sale.


Additional technical information:

LCA: Scenarios and additional technical information

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

The results of stage A4 in the table of this EPD refer to domestic transport set by the PCR. This product may also be delivered to the countries in the table "Additional A4 information". To calculate the GWP of transportation to these countries, the result GWP_{tot} of module A4 from this EPD shall be multiplied by the multiplication factors below. The installation phase (A5) includes the water to be added and the electricity consumption for mixing. The packaging is collected and sent to treatment. The demolition phase (C1) includes the electricity for demolition. The transport of waste is carried out by truck over 100 km (C2). It is assumed that 30% of the product is disposed into landfill and 70% is collected and recycled. Module D contains credits from the recycling of the fraction of product in module C3, at the end of life, the product can be collected and recycled for use in substitution of virgin raw aggregates.

| Transport from production place to user (A4) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|---|---------------------------------------|---------------|-------------------------|-------|---------------------|
| Truck, 16-32 tonnes, EURO 6 (km) - RER | 36,7 % | 300 | 0,043 | l/tkm | 12,90 |
| Transport from production place to user (A4) | Unit | Value | | | |
| Oslo, Norway (truck 90km) | multiplication factor * GWP (A4) | 0,30 | | | |
| Kristiansand, Norway (truck 400km) | multiplication factor * GWP (A4) | 1,33 | | | |
| Stavanger, Norway (truck 640km) | multiplication factor * GWP (A4) | 2,13 | | | |
| Bergen, Norway (truck 530km) | multiplication factor * GWP (A4) | 1,77 | | | |
| Trondheim, Norway (truck 420km) | multiplication factor * GWP (A4) | 1,40 | | | |
| Tromsø, Norway (truck 1700km) | multiplication factor * GWP (A4) | 5,67 | | | |
| Stockholm, Sweden (truck 500km) | multiplication factor * GWP (A4) | 1,67 | | | |
| Helsinki, Finland (truck 1200km, ferry 100km) | multiplication factor * GWP (A4) | 4,23 | | | |
| Copenhagen, Denmark (truck 680km) | multiplication factor * GWP (A4) | 2,27 | | | |
| Assembly (A5) | Unit | Value | | | |
| Waste, packaging, paper bag, to average treatment (kg) | kg | 0,0045 | | | |
| Waste, packaging, pallet, EUR wooden pallet, single use, to average treatment (kg) | kg | 0,025 | | | |
| Water, tap water (kg) | kg/DU | 0,19 | | | |
| Electricity, European average (kWh) | kWh/DU | 0,0030 | | | |
| De-construction demolition (C1) | Unit | Value | | | |
| Demolition of building per kg of cement-based product (kg) | kg/DU | 1,000000000 | | | |
| Electricity, European average (kWh) | kWh/DU | 0,0050 | | | |
| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
| Truck, 7.5-16 tonnes, EURO 6 (km) - RER | 35,4 % | 100 | 0,056 | l/tkm | 5,60 |
| Waste processing (C3) | Unit | Value | | | |
| Waste treatment of cement-based product after demolition (kg) | kg | 0,70 | | | |
| Disposal (C4) | Unit | Value | | | |
| Disposal of cement-based product in landfill (kg) | kg | 0,30 | | | |
| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
| Substitution of primary aggregates with crushed recycled cement-based products (kg) | kg | 0,70 | | | |

LCA: Results

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

| Environmental impact | | | | | | | | | | |
|---|----------------------------------|------------------------|-----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | |
|  | GWP-total | kg CO ₂ -eq | 1,69E-01 | 5,04E-02 | 4,78E-02 | 6,14E-03 | 2,20E-02 | 5,04E-04 | 1,29E-03 | -1,64E-03 |
|  | GWP-fossil | kg CO ₂ -eq | 2,14E-01 | 5,04E-02 | 2,04E-03 | 6,12E-03 | 2,20E-02 | 4,97E-04 | 1,28E-03 | -1,60E-03 |
|  | GWP-biogenic | kg CO ₂ -eq | -4,48E-02 | 2,08E-05 | 4,58E-02 | 1,57E-05 | 1,02E-05 | 4,29E-06 | 1,09E-06 | -3,20E-05 |
|  | GWP-luluc | kg CO ₂ -eq | 1,30E-04 | 1,79E-05 | 3,19E-06 | 5,25E-06 | 9,52E-06 | 6,88E-07 | 2,52E-07 | -1,08E-06 |
|  | ODP | kg CFC11 -eq | 1,84E-08 | 1,14E-08 | 2,33E-10 | 1,04E-09 | 4,83E-09 | 9,80E-11 | 6,26E-10 | -2,92E-10 |
|  | AP | mol H ⁺ -eq | 1,75E-03 | 1,45E-04 | 1,33E-05 | 5,42E-05 | 6,32E-05 | 4,02E-06 | 1,25E-05 | -1,44E-05 |
|  | EP-FreshWater | kg P -eq | 3,08E-06 | 4,02E-07 | 1,46E-07 | 2,41E-07 | 2,02E-07 | 3,14E-08 | 9,59E-09 | -4,26E-08 |
|  | EP-Marine | kg N -eq | 5,23E-04 | 2,86E-05 | 3,40E-06 | 2,00E-05 | 1,20E-05 | 1,18E-06 | 4,70E-06 | -5,00E-06 |
|  | EP-Terrestrial | mol N -eq | 5,06E-03 | 3,20E-04 | 3,80E-05 | 2,19E-04 | 1,34E-04 | 1,36E-05 | 5,18E-05 | -5,88E-05 |
|  | POCP | kg NMVOC -eq | 1,35E-03 | 1,23E-04 | 9,78E-06 | 6,07E-05 | 5,13E-05 | 3,64E-06 | 1,48E-05 | -1,55E-05 |
|  | ADP-minerals&metals ¹ | kg Sb-eq | 1,49E-06 | 1,39E-06 | 2,36E-08 | 2,17E-08 | 7,94E-07 | 6,31E-09 | 1,14E-08 | -1,42E-07 |
|  | ADP-fossil ¹ | MJ | 2,36E+00 | 7,61E-01 | 3,57E-02 | 9,88E-02 | 3,29E-01 | 1,54E-02 | 4,15E-02 | -2,71E-02 |
|  | WDP ¹ | m ³ | 5,53E+00 | 7,36E-01 | 4,74E-01 | 6,69E-01 | 3,93E-01 | 1,70E+00 | 8,73E-02 | -1,27E+00 |

GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

¹INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Remarks to environmental impacts

Total CO₂ emissions measured throughout the entire life cycle of the product have been offset through the acquisition of certified carbon credits in support of forestry protection projects. More information available at: www.mapei.it

Additional environmental impact indicators

| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | |
|---|---------------------|-------------------|----------|----------|----------|----------|----------|----------|----------|-----------|
|  | PM | Disease incidence | 7,36E-09 | 3,08E-09 | 9,10E-11 | 5,10E-09 | 1,23E-09 | 6,40E-11 | 2,67E-10 | -3,07E-10 |
|  | IRP ² | kgBq U235 -eq | 5,64E-03 | 3,33E-03 | 2,72E-04 | 6,23E-04 | 1,44E-03 | 2,59E-04 | 1,80E-04 | -2,49E-04 |
|  | ETP-fw ¹ | CTUe | 6,30E+00 | 5,64E-01 | 2,93E-02 | 6,07E-02 | 2,56E-01 | 1,09E-02 | 2,05E-02 | -2,79E-02 |
|  | HTP-c ¹ | CTUh | 5,10E-11 | 0,00E+00 | 2,00E-12 | 2,00E-12 | 0,00E+00 | 1,00E-12 | 1,00E-12 | -1,00E-12 |
|  | HTP-nc ¹ | CTUh | 1,34E-09 | 6,17E-10 | 6,90E-11 | 5,80E-11 | 3,08E-10 | 1,00E-11 | 1,20E-11 | -3,40E-11 |
|  | SQP ¹ | dimensionless | 6,06E+00 | 5,33E-01 | 1,16E-02 | 1,73E-02 | 1,95E-01 | 8,73E-03 | 1,51E-01 | 6,15E-02 |

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Potential Soil Quality Index (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

| Resource use | | | | | | | | | | |
|--------------|-------|----------------|----------|----------|-----------|----------|----------|----------|----------|-----------|
| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | |
| | PERE | MJ | 5,65E-01 | 1,09E-02 | 5,53E-03 | 8,78E-03 | 5,59E-03 | 7,95E-03 | 6,38E-04 | -6,35E-03 |
| | PERM | MJ | 4,11E-01 | 0,00E+00 | -4,11E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| | PERT | MJ | 9,75E-01 | 1,09E-02 | -4,05E-01 | 8,78E-03 | 5,59E-03 | 7,95E-03 | 6,38E-04 | -6,35E-03 |
| | PENRE | MJ | 1,83E+00 | 7,61E-01 | 3,58E-02 | 9,89E-02 | 3,29E-01 | 1,54E-02 | 4,15E-02 | -2,86E-02 |
| | PENRM | MJ | 5,64E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| | PENRT | MJ | 2,40E+00 | 7,61E-01 | 3,58E-02 | 9,89E-02 | 3,29E-01 | 1,54E-02 | 4,15E-02 | -2,86E-02 |
| | SM | kg | 3,59E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| | RSF | MJ | 9,81E-03 | 3,90E-04 | 3,82E-04 | 6,18E-04 | 2,02E-04 | 0,00E+00 | 1,32E-05 | -1,30E-04 |
| | NRSF | MJ | 6,47E-01 | 1,39E-03 | 1,48E-04 | 1,47E-04 | 7,33E-04 | 0,00E+00 | 3,79E-05 | -1,33E-04 |
| | FW | m ³ | 2,44E-03 | 8,14E-05 | 2,24E-04 | 4,00E-05 | 3,91E-05 | 2,64E-05 | 4,94E-05 | -9,96E-04 |

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non renewable primary energy resources used as raw materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

*Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

*INA Indicator Not Assessed

End of life - Waste

| Indicator | | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|---|------|-------------|----------|----------|----------|----------|----------|----------|----------|-----------|
|  | HWD | kg | 4,95E-03 | 3,93E-05 | 4,12E-06 | 8,21E-06 | 1,82E-05 | 1,54E-06 | 0,00E+00 | -6,54E-06 |
|  | NHWD | kg | 8,42E-02 | 3,70E-02 | 2,96E-02 | 2,13E-04 | 1,30E-02 | 4,87E-05 | 3,00E-01 | -1,98E-04 |
|  | RWD | kg | 1,11E-05 | 5,19E-06 | 1,93E-07 | 6,95E-07 | 2,22E-06 | 1,63E-07 | 0,00E+00 | -2,15E-07 |

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

| Indicator | | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|---|-----|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
|  | CRU | kg | 0,00E+00 |
|  | MFR | kg | 3,08E-03 | 0,00E+00 | 4,19E-03 | 0,00E+00 | 0,00E+00 | 7,00E-01 | 0,00E+00 | 0,00E+00 |
|  | MER | kg | 3,22E-03 | 0,00E+00 | 2,51E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|  | EEE | MJ | 1,04E-03 | 0,00E+00 | 1,75E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
|  | EET | MJ | 1,57E-02 | 0,00E+00 | 2,65E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"

*INA Indicator Not Assessed

Biogenic Carbon Content

| Indicator | Unit | At the factory gate |
|---|-------------|----------------------------|
| Biogenic carbon content in product | kg C | 0,00E+00 |
| Biogenic carbon content in accompanying packaging | kg C | 1,25E-02 |

 Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO₂

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

| Electricity mix | Source | Amount | Unit |
|---------------------------|---------------|--------|--------------|
| Electricity, Norway (kWh) | ecoinvent 3.6 | 24,33 | g CO2-eq/kWh |

Dangerous substances

The product contains substances given by the REACH Candidate list that are less than 0,1 % by weight.

Indoor environment

Uniplan 250 Zero is certified with an EC1plus class according to GEV-EMICODE.

Additional Environmental Information

| Additional environmental impact indicators required in NPCR Part A for construction products | | | | | | | | | |
|--|------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| GWPIOBC | kg CO ₂ -eq | 2,12E-01 | 5,04E-02 | 2,15E-03 | 6,30E-03 | 2,20E-02 | 4,98E-04 | 1,29E-03 | -1,71E-03 |

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.

Bibliography

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 NPCR Part A: Construction products and services. Ver. 2.0, 24.03.2021 EPD Norway.
 NPCR 009 Part B for Technical - Chemical products for building and construction industry, Ver. 3.0, 06.10.2021, EPD Norway.

European directive 2008/98/EC.

EN 13813 "Screed material and floor screeds - Screed material – Properties and requirements".

| | | |
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