# Environmental product declaration

In accordance with 14025 and EN15804+A2

## weberfloor 4635 design grinded stone

The Norwegian EPD Foundation

**Owner of the declaration:**
Saint-Gobain Sweden AB, Weber floor

**Product:**
weberfloor 4635 design grinded stone

**Declared unit:**
1 kg

**This declaration is based on Product Category Rules:**
CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 009:2018 Part B for Technical - Chemical products in the building and construction industry

**EPD Software:**
LCA.no EPD generator

**Program operator:**
The Norwegian EPD Foundation

**Declaration number:**

NEPD-4075-3097-EN

**Registration number:**

NEPD-4075-3097-EN

**Issue date:** 22.12.2022

**Valid to:** 22.12.2027

**System ID:**

52513

## General information

**Product**

weberfloor 4635 design grinded stone

**Program operator:**

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

**Declaration number:**
NEPD-4075-3097-EN

**This declaration is based on Product Category Rules:**

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 009:2018 Part B for Technical - Chemical products in the 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 weberfloor 4635 design grinded stone
**Declared unit with option:**
A1-A3,A4,A5,C1,C2,C3,C4,D

**Functional unit:**

**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. Individualthird party verification of each EPD is not required when the EPD tool is i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPDNorway, and iii)the proccess is reviewed annualy. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools.

**Verification of EPD tool:**

Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Anne Rønning, Norsus AS
(no signature required)

**Owner of the declaration:**

Saint-Gobain Sweden AB, Weber floor
Contact person: Anders Anderberg
Phone: +46 8 625 6105
e-mail: anders.anderberg@weber.se

**Manufacturer:**

Saint-Gobain Sweden AB, Weber floor

**Place of production:**

Saint-Gobain Sweden AB, Weber floor
Box 415 , SE-19162 Sollentuna
Sweden

**Management system:**

ISO 9001, ISO 14001

**Organisation no:**

SE-556241-2592

**Issue date:** 22.12.2022

**Valid to:** 22.12.2027

**Year of study:**

2021

**Comparability:**

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

**Development and verification of EPD:**

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway.

Developer of EPD:

Thomas Flycht

Reviewer of company-specific input data and EPD:

Helene Wallgren

**Approved:**

Håkon Hauan
Managing Director of EPD-Norway

## Product

### Product description:

weberfloor 4635 design grinded stone is a pumpable rapid hardening levelling compound for floors internally in buildings. After curing, the surface is dry-grinded to a high gloss with diamond grinding equipment. Grinding takes place until the dark aggregate grains appear against the lighter background. After grinding and surface treatment, the material forms a joint-free stone-like surface. It is designed to form a final surface in areas such as offices, commercial areas, show rooms, etc. where it is an esthetic element in the room.

### Product specification

The composition of the product is described in the following table:

| Materials | |
|---|---|
| Aggregate | 35-70 |
| Binder | 20-70 |
| Filler | 1-10 |
| Additives | 1-10 |

### Technical data:

weberfloor 4635 design grinded stone is designed, produced and CE marked according to EN 13813.

For further information, see www.se.weber

### Market:

Scandinavian countries

### Reference service life, product

> 50 years

### Reference service life, building

> 50 years

## LCA: Calculation rules

### Declared unit:

1 kg weberfloor 4635 design grinded stone

### 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.

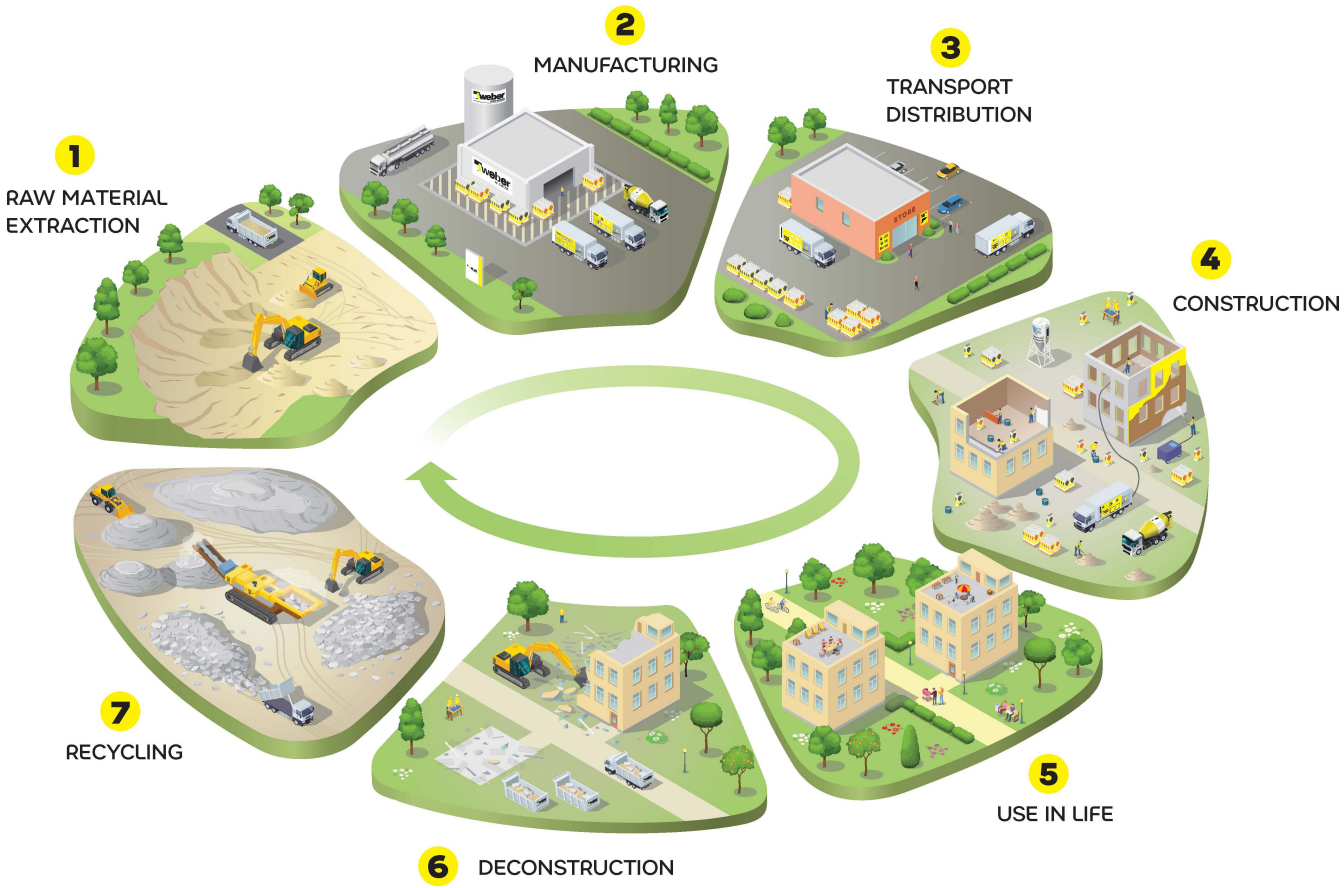
| Materials | Source | Data quality | Year |
|---|---|---|---|
| Additives | ecoinvent 3.6 | Database | 2019 |
| Aggregate | ecoinvent 3.6 | Database | 2019 |
| Binder | ecoinvent 3.6 | Database | 2019 |
| Cement | ecoinvent 3.6 | Database | 2019 |
| Packaging | ecoinvent 3.6 | Database | 2019 |
| Binder | Supplier | EPD | 2020 |
| Additives | Supplier | EPD | 2022 |

## 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 | MNR | MNR | MNR | MNR | MNR | MNR | MNR | X | X | X | X | X |

**System boundary:**

All processes from raw material extraction to product transport to the construction site and assembly are included in the analysis as well as end of life stage and phases beyond the system boundary (A1 - A5, C1-C4, D). The basic production process comprises of mixing of raw materials together. Ready mixed product is then packed into small bags for delivery.
Floor screed doesn't require any maintenance during the use stage, so stage B is not considered. When building is demolished at the end-of-life, floor structure with floor screed integrated into concrete slab are crushed. 90 % of crushed concrete is recycled and used to replace aggregates in concrete, remaining 10% being disposed into landfill.
System boundaries (cradle-to-gate with options) are illustrated in the picture below




**Additional technical information:**

The consumption of the product is 1,9 kg / $m^2$ / mm.
The remaining powder and cured material may be disposed as construction waste to disposal or recycling.

## LCA: Scenarios and additional technical information

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

Transport to market (A4) is calculated based on the default distance of 300 km from NPCR 009

| Transport from production place to user (A4) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|---|---|---|---|---|---|
| Truck, over 32 tonnes, EURO 5 (km) | 53,3 % | 300 | 0,023 | l/tkm | 6,90 |

| Assembly (A5) | Unit | Value | | | |
|---|---|---|---|---|---|
| Electricity, Sweden (kWh) | kWh/DU | 0,00 | | | |
| Waste, cardboard and paper packaging, to average treatment (kg) | kg | 0,00 | | | |
| Waste, plastic packaging mixture, to average treatment (kg) | kg | 0,00 | | | |
| Waste, wood packaging, average treatment (kg) | kg | 0,03 | | | |
| Water, tap water (m3) | m3/DU | 0,00 | | | |

| De-construction demolition (C1) | Unit | Value | | | |
|---|---|---|---|---|---|
| Demolition of building per kg of cement-based product (kg) | kg/DU | 1,00 | | | |

| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|---|---|---|---|---|---|
| Truck, over 32 tonnes, EURO 5 (km) | 53,3 % | 50 | 0,023 | l/tkm | 1,15 |

| Waste processing (C3) | Unit | Value | | | |
|---|---|---|---|---|---|
| Waste treatment of cement-based product after demolition (kg) | kg | 0,90 | | | |

| Disposal (C4) | Unit | Value | | | |
|---|---|---|---|---|---|
| Disposal of cement-based product in landfill (kg) | kg | 0,10 | | | |

| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
|---|---|---|---|---|---|
| Substitution of primary aggregates with crushed recycled cement-based products (kg) | kg | 0,90 | | | |

## 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 | 3,88E-01 | 2,73E-02 | 9,54E-04 | 4,00E-03 | 4,55E-03 | 6,48E-04 | 8,22E-04 | -2,10E-03 |
| | GWP-fossil | kg $CO_2$ -eq | 4,32E-01 | 2,73E-02 | 9,42E-04 | 4,00E-03 | 4,54E-03 | 6,39E-04 | 8,20E-04 | -2,06E-03 |
| | GWP-biogenic | kg $CO_2$ -eq | -4,46E-02 | 1,12E-05 | 6,41E-06 | 7,50E-07 | 1,86E-06 | 5,52E-06 | 9,58E-07 | -4,11E-05 |
| | GWP-luluc | kg $CO_2$ -eq | 4,18E-04 | 7,96E-06 | 5,25E-06 | 3,15E-07 | 1,33E-06 | 8,84E-07 | 2,02E-07 | -1,39E-06 |
| | ODP | kg CFC11 -eq | 4,11E-08 | 6,30E-09 | 1,71E-10 | 8,64E-10 | 1,05E-09 | 1,27E-10 | 3,11E-10 | -3,75E-10 |
| | AP | mol H+ -eq | 1,86E-03 | 1,15E-04 | 6,87E-06 | 4,19E-05 | 1,91E-05 | 5,17E-06 | 7,30E-06 | -1,85E-05 |
| | EP-FreshWater | kg P -eq | 1,01E-05 | 2,08E-07 | 1,96E-08 | 1,46E-08 | 3,47E-08 | 4,04E-08 | 9,30E-09 | -5,48E-08 |
| | EP-Marine | kg N -eq | 7,28E-04 | 3,45E-05 | 2,70E-06 | 1,85E-05 | 5,74E-06 | 1,52E-06 | 2,71E-06 | -6,43E-06 |
| | EP-Terrestial | mol N -eq | 5,62E-03 | 3,81E-04 | 2,90E-05 | 2,00E-04 | 6,35E-05 | 1,75E-05 | 2,99E-05 | -7,56E-05 |
| | POCP | kg NMVOC -eq | 1,58E-03 | 1,23E-04 | 7,50E-06 | 5,57E-05 | 2,04E-05 | 4,68E-06 | 8,56E-06 | -2,00E-05 |
| | ADP-minerals&metals[1] | kg Sb -eq | 2,01E-06 | 4,66E-07 | 1,81E-08 | 6,14E-09 | 7,76E-08 | 8,11E-09 | 7,39E-09 | -1,83E-07 |
| | ADP-fossil[1] | MJ | 5,31E+00 | 4,24E-01 | 1,94E-02 | 5,51E-02 | 7,07E-02 | 1,98E-02 | 2,26E-02 | -3,49E-02 |
| | WDP[1] | $m^3$ | 3,55E+00 | 3,25E-01 | 9,38E-01 | 1,17E-02 | 5,42E-02 | 2,19E+00 | 1,39E-01 | -1,63E+00 |

GWP total Global Warming Potential total; GWP fossil Global Warming Potential fossil fuels ; GWP biogenic Global Warming Potential biogenic; GWP luluc Global W Potential 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; ADPE Abiotic Depletion Potential minerals and metals; ADPf Abiotic Depletion Potential fossil fuels; WDP Water Depletion Potential

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

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

**Remarks to environmental impacts**

## Additional environmental impact indicators

| Indicator | | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
|---|---|---|---|---|---|---|---|---|---|---|
| | PM | Disease incidence | 8,46E-09 | 2,40E-09 | 8,20E-11 | 5,07E-09 | 4,00E-10 | 8,10E-11 | 1,56E-10 | -3,94E-10 |
| | IRP[2] | kgBq U235 -eq | 6,94E-03 | 1,85E-03 | 3,48E-04 | 2,40E-04 | 3,09E-04 | 3,33E-04 | 1,03E-04 | -3,20E-04 |
| | ETP-fw[1] | CTUe | 2,06E+00 | 3,10E-01 | 1,67E-02 | 3,01E-02 | 5,17E-02 | 1,41E-02 | 1,23E-02 | -3,59E-02 |
| | HTP-c[1] | CTUh | 5,20E-11 | 0,00E+00 | 1,00E-12 | 1,00E-12 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -1,00E-12 |
| | HTP-nc[1] | CTUh | 1,63E-09 | 3,00E-10 | 5,90E-11 | 2,80E-11 | 5,00E-11 | 1,20E-11 | 9,00E-12 | -4,40E-11 |
| | SQP[1] | dimensionless | 6,04E+00 | 4,86E-01 | 9,73E-03 | 6,69E-03 | 8,11E-02 | 1,12E-02 | 8,69E-02 | 7,91E-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 Soil Quality (dimensionless)

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

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

| Resource use | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Indicator | | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| | PERE | MJ | 5,32E-01 | 5,34E-03 | 4,62E-03 | 3,00E-04 | 8,90E-04 | 1,02E-02 | 8,08E-04 | -8,16E-03 |
| | PERM | MJ | 5,26E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| | PERT | MJ | 1,06E+00 | 5,34E-03 | 4,62E-03 | 3,00E-04 | 8,90E-04 | 1,02E-02 | 8,08E-04 | -8,16E-03 |
| | PENRE | MJ | 4,08E+00 | 4,24E-01 | 1,96E-02 | 5,51E-02 | 7,07E-02 | 1,99E-02 | 2,26E-02 | -3,68E-02 |
| | PENRM | MJ | 1,36E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| | PENRT | MJ | 5,45E+00 | 4,24E-01 | 1,96E-02 | 5,51E-02 | 7,07E-02 | 1,99E-02 | 2,26E-02 | -3,68E-02 |
| | SM | kg | 2,09E-01 | 0,00E+00 | 9,47E-06 | 2,70E-05 | 0,00E+00 | 1,71E-05 | 9,79E-06 | -7,05E-05 |
| | RSF | MJ | 3,37E-03 | 1,87E-04 | 3,49E-05 | 7,33E-06 | 3,11E-05 | 2,07E-04 | 1,68E-05 | -1,67E-04 |
| | NRSF | MJ | 1,01E+00 | 6,26E-04 | 1,23E-04 | -1,10E-04 | 1,04E-04 | -1,28E-05 | 3,62E-05 | -1,71E-04 |
| | FW | $m^3$ | 3,16E-03 | 4,83E-05 | 2,17E-04 | 2,83E-06 | 8,05E-06 | 3,40E-05 | 2,78E-05 | -1,28E-03 |

PERE Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM Use of renewable primary energy resources used as raw materials; PERT Total use of renewable primary energy resources; PENRE Use of non renewable primary energy excluding non-renewable primary energy resources used as raw materials; 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 Use of net 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 | 4,59E-02 | 2,32E-05 | 2,73E-04 | 1,62E-06 | 3,87E-06 | 1,98E-06 | 1,59E-06 | -8,40E-06 |
| | NHWD | kg | 1,30E-01 | 3,69E-02 | 7,20E-04 | 6,52E-05 | 6,15E-03 | 6,26E-05 | 1,00E-01 | -2,55E-04 |
| | RWD | kg | 3,60E-05 | 2,90E-06 | 1,93E-07 | 3,82E-07 | 4,83E-07 | 2,10E-07 | 1,47E-07 | -2,76E-07 |

HWD Hazardous waste disposed; NHWDNon-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 | 7,33E-06 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| | MFR | kg | 7,07E-04 | 0,00E+00 | 4,03E-03 | 2,66E-05 | 0,00E+00 | 9,00E-01 | 8,92E-06 | -1,65E-06 |
| | MER | kg | 2,98E-04 | 0,00E+00 | 4,13E-06 | 8,23E-08 | 0,00E+00 | 2,07E-06 | 1,68E-07 | -6,17E-05 |
| | EEE | MJ | 2,61E-03 | 0,00E+00 | 1,83E-02 | 2,82E-07 | 0,00E+00 | 3,55E-06 | 1,39E-05 | -1,49E-05 |
| | EET | MJ | 3,95E-02 | 0,00E+00 | 2,77E-01 | 4,27E-06 | 0,00E+00 | 5,38E-05 | 2,10E-04 | -2,25E-04 |

CRU Components for re-use; MFR Materials for recycling; MER Materials for energy recovery; EEE Exported electrical energy; 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 | 1,28E-02 |

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

## Additional Norwegian requirements

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

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

| Electricity mix | Data source | Amount | Unit |
|---|---|---|---|
| Renewable electricity Saint-Gobain, based on 100% hydro power, with Guarantee of Origin from LOS 2021 (kWh) | ecoinvent 3.6 | 4,26 | g CO2-eq/kWh |

### Dangerous substances

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

| Name | CASNo | Amount |
|---|---|---|
| Portland Cement | 65997-15-1 | 2-5% |

### Indoor environment

The product are certified Indoor Air Comfort GOLD.

## Additional Environmental Information

| Environmental impact indicators EN 15804+A1 and NPCR Part A v2.0 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Indicator** | **Unit** | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| GWP | kg $CO_2$ -eq | 1,62E-01 | 2,70E-02 | 8,63E-04 | 3,95E-03 | 4,50E-03 | 6,30E-04 | 8,04E-04 | -2,20E-03 |
| ODP | kg CFC11 -eq | 1,59E-08 | 5,10E-09 | 1,71E-10 | 6,86E-10 | 8,50E-10 | 1,56E-10 | 2,50E-10 | -3,42E-10 |
| POCP | kg $C_2H_4$ -eq | 3,72E-05 | 3,52E-06 | 1,81E-07 | 6,09E-07 | 5,87E-07 | 1,40E-07 | 1,89E-07 | -4,59E-07 |
| AP | kg $SO_2$ -eq | 4,51E-04 | 5,44E-05 | 4,11E-06 | 5,84E-06 | 9,07E-06 | 2,37E-06 | 2,23E-06 | -5,39E-06 |
| EP | kg $PO_4^{3-}$ -eq | 6,32E-05 | 5,94E-06 | 1,15E-06 | 6,50E-07 | 9,90E-07 | 3,13E-07 | 2,64E-07 | -6,32E-07 |
| ADPM | kg Sb -eq | 1,88E-06 | 4,66E-07 | 1,62E-08 | 6,14E-09 | 7,76E-08 | 8,11E-09 | 7,39E-09 | -1,83E-07 |
| ADPE | MJ | 3,24E+00 | 4,16E-01 | 9,66E-03 | 5,47E-02 | 6,94E-02 | 7,62E-03 | 2,16E-02 | -3,49E-02 |
| GWPIOBC | kg $CO_2$ -eq | 4,41E-01 | 2,73E-02 | 8,24E-05 | 5,37E+00 | 4,55E-03 | 0,00E+00 | 0,00E+00 | -2,20E-03 |

GWP Global warming potential; ODP Depletion potential of the stratospheric ozone layer; POCP Formation potential of tropospheric photochemical oxidants; AP Acidification potential of land and water; EP Eutrophication potential; ADPM Abiotic depletion potential for non fossil resources; ADPE Abiotic depletion potential for fossil resources; GWP-IOBC/GHG Global warming potential calculated according to the principle of instantanious oxidation (except emissions and uptake of biogenic carbon)

## Bibliography

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NPCR 009 Part B for technical-chemical products. Ver. 2.0 October 2021, EPD-Norge.

| | | | |
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