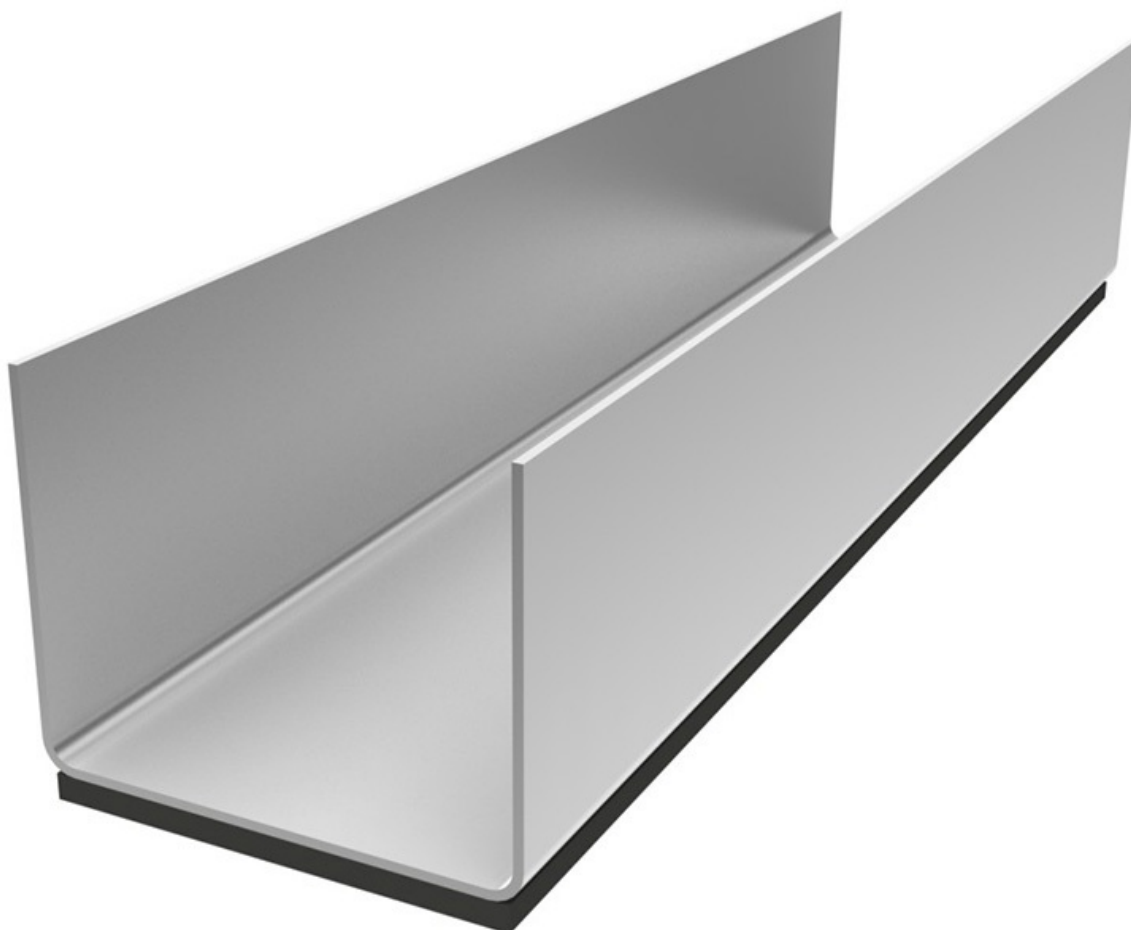


# Environmental product declaration

In accordance with ISO 14025 and EN15804+A2

## Norgips UP-profil



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# NORGIPS

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EPD-Global

**Owner of the declaration:**

Norgips Norge AS

**Product:**

Norgips UP-profil

**Declared unit:**

1 kg

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

CEN Standard EN 15804:2012+A2:2019 serves as core PCR

NPCR 013:2021 Part B for Steel and aluminium construction products

**Program operator:**

EPD-Global

**Declaration number:**

NEPD-15693-19604

**Issue date:**

21.05.2026

**Valid to:**

21.05.2031

**EPD software:**

LCAno EPD generator ID: 1480142

## General information

### Product

Norgips UP-profil

### Program operator:

EPD-Global  
Post Box 5250 Majorstuen, 0303 Oslo, Norway  
Phone: +47 977 22 020  
web: [www.epd-global.com](http://www.epd-global.com)

### Declaration number:

NEPD-15693-19604

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

CEN Standard EN 15804:2012+A2:2019 serves as core PCR  
NPCR 013:2021 Part B for Steel and aluminium construction products

### Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD-Global shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

### Declared unit:

1 kg Norgips UP-profil

### Declared unit with option:

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

### Functional unit:

1 kg Norgips UP-profil including packaging

### General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Global'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-Global, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Global'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 EPD-Global's procedures and guidelines for verification and approval of EPD tools.

Third party verifier:

Alexander Borg, Asplan Viak AS

(no signature required)

### Owner of the declaration:

Norgips Norge AS  
Contact person: Trond Even Fagerli  
Phone: +47 33 78 48 00  
e-mail: [ordre@norgips.com](mailto:ordre@norgips.com)

### Manufacturer:

Knauf Sverige GmbH  
Fyrgatan  
29680 Åhus, Sweden

### Place of production:

Knauf Sverige GmbH  
Skepperstadvägen 3  
576 33 Sävsjö, Sweden

### Management system:

ISO 9001:2015, ISO 14001:2015 och ISO 45001:2018  
Certifikatsnummer: CKMA-14909/2024

### Organisation no:

986 034 757

### Issue date:

21.05.2026

### Valid to:

21.05.2031

### Year of study:

2024

### 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-Global. Approval number: NEPDT96 Knauf

Developer of EPD: Sara Ervasti

Reviewer of company-specific input data and EPD: Trond Even Fagerli

### Approved:



Håkon Hauan, CEO EPD-Global

## Product

### Product description:

Norgips UP-profile is a construction product used as a runner, U-profile, and primarily for drywall construction of interior plasterboard walls and ceilings with acoustic properties. Norgips UP-profile has a 4 mm extruded polyethylene (PE) foam glued to the web. The steel profile is made of zinc-coated steel coils, cut and bent to attain the right dimensions and characteristics. The product is recyclable and is available in different dimensions and weights.

### Product specification

The steel grade used for this product is S250GD+Z140.

Norgips UP-profile is available with low or high flanges; models with low flanges are designated by the suffix /55 in the product table. The nominal thickness used for products with low flanges is 0,47 mm. The nominal thickness used for products with high flanges is 0,6 mm.

| Materials                | kg    | %      |
|--------------------------|-------|--------|
| Additives                | 0.011 | 1.10   |
| Membrane                 | 0.013 | 1.30   |
| Metal - Galvanized Steel | 0.976 | 97.60  |
| Total                    | 1.00  | 100.00 |

| Packaging                  | kg       | %      |
|----------------------------|----------|--------|
| Packaging - Plastic straps | 0.000399 | 2.28   |
| Packaging - Wood           | 0.0171   | 97.72  |
| Total incl. packaging      | 1.02     | 100.00 |

### Technical data:

Standard EN 14195:2005+AC:2006

Reaction to fire: A1 / Yield strength: 250 N/mm<sup>2</sup>

Further information on [www.norgips.no/se](http://www.norgips.no/se)

Norgips UP-profile is available in different dimensions. This EPD covers all dimensions listed in the table below. The table shows the weight (kg/m) for the various dimensions. Use the weight as a conversion factor to express the results in this EPD per meter of profile.

| Product designation | Weight (kg/m) |
|---------------------|---------------|
| UP 45/55            | 0,59          |
| UP 50/40            | 0,48          |
| UP 68/43            | 0,59          |
| UP 70/55            | 0,59          |
| UP 75/43            | 0,59          |
| UP 95/55            | 0,79          |
| UP 100/40           | 0,78          |
| UP 120/55           | 0,90          |
| UP 145/55           | 1,00          |
| UP 160/55           | 1,05          |
| UP 120/100          | 1,50          |

### Market:

Norgips UP-profil is manufactured and sold in Sweden. It is distributed, and sold in Norway and Sweden.

### Reference service life, product

Equal to RSL building: 50 years

### Reference service life, building or construction works

50 years

## LCA: Calculation rules

### Declared unit:

1 kg Norgips UP-profil

### 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 |
| Membrane                   | Supplier      | EPD          | 2023 |
| Metal - Galvanized Steel   | ecoinvent 3.6 | Database     | 2019 |
| Metal - Galvanized Steel   | Supplier      | EPD          | 2021 |
| Metal - Galvanized Steel   | Supplier      | EPD          | 2023 |
| Metal - Galvanized Steel   | Supplier      | EPD          | 2025 |
| Packaging - Plastic straps | ecoinvent 3.6 | Database     | 2019 |
| Packaging - Wood           | ecoinvent 3.6 | Database     | 2019 |

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

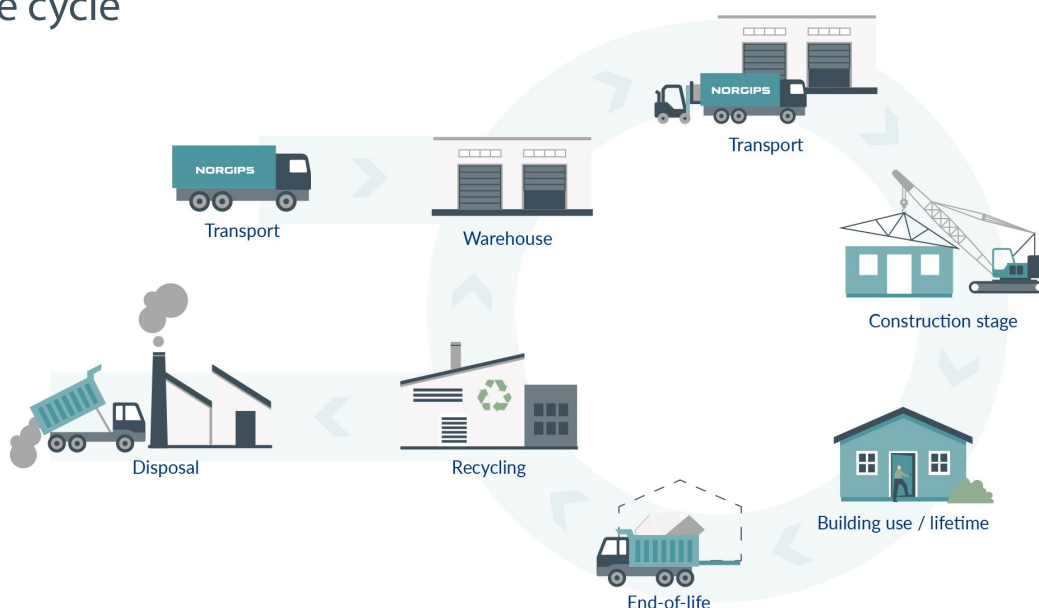
| Product stage |           |               | Construction installation stage |          | Use stage |             |        |             |               |                        |                       |  | End of life stage          |           |                  |          | Beyond the system boundaries        |
|---------------|-----------|---------------|---------------------------------|----------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|--|----------------------------|-----------|------------------|----------|-------------------------------------|
| 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        | MNR       | MNR         | MNR    | MNR         | MNR           | MNR                    | MNR                   |  | X                          | X         | X                | X        | X                                   |

### System boundary:

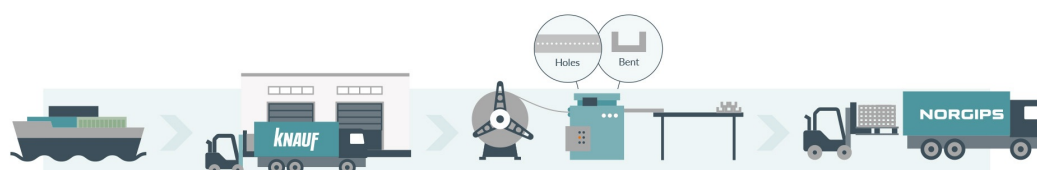
Cradle-to-grave; A1-A3, A4-A5, B1-B7, C1-C4 and D.

Modules B1-B7 are not relevant as the product need neither maintenance, repair, replacement, refurbishment nor use energy or water.

## Life cycle



## Production



### Additional technical information:

#### Production

The product Norgips UP-profil is manufactured by Knauf Sverige GmbH in Sävsjö (Sweden). After slitting the steel coils are transported by truck to the manufacturing plant in Sävsjö. At Knauf's facility in Sävsjö, the steel coils are cut and roll-formed to attain the right dimensions and characteristics. After manufacturing, the products are transported to Norway for storage before the product is distributed with truck to the Norwegian and Swedish market for construction.

## LCA: Scenarios and additional technical information

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

Module A5 do not include all materials and activities connected to installation. Currently, no primary data is available on installation, which is why no information is available here, for example on the fuel, electricity, etc. required, and this is not taken into account in the calculation. The installation phase therefore only includes the environmental impact of disposal of the product packaging.

| Transport from production place to user (A4)                                     | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit    | Value (Liter/tonne) |
|----------------------------------------------------------------------------------|---------------------------------------|---------------|-------------------------|---------|---------------------|
| Train, Electrical (km) - Norway                                                  | 42.0 %                                | 90.00         | 0.051                   | kWh/tkm | 4.59                |
| Truck, Biogas, 80.2% Capacity Utilisation, Class50, EURO 6 (km)                  | 80.2 %                                | 150.00        | 0.026                   | l/tkm   | 3.90                |
| Truck, Diesel, 69.2% Capacity Utilisation, Class50, EURO 6 (km)                  | 69.2 %                                | 60.00         | 0.012                   | l/tkm   | 0.72                |
| Assembly (A5)                                                                    | Unit                                  | Value         |                         |         |                     |
| Waste, packaging, PET straps, to average treatment (kg)                          | kg                                    | 0.000399      |                         |         |                     |
| Waste, packaging, wood beam, softwood, raw, dried, u=20%, average treatment (kg) | kg                                    | 0.0171        |                         |         |                     |
| De-construction demolition (C1)                                                  | Unit                                  | Value         |                         |         |                     |
| Waste scenario for steel profiles - demolition, recycling and landfill           | kg                                    | 1.00          |                         |         |                     |
| Diesel, burned (MJ)                                                              | MJ                                    | 0.0359        |                         |         |                     |
| Transport to waste processing (C2)                                               | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit    | Value (Liter/tonne) |
| Truck, over 32 tonnes, EURO 6 (kgkm) - Europe                                    | 53.3 %                                | 300.00        | 0.023                   | l/tkm   | 6.90                |
| Waste processing (C3)                                                            | Unit                                  | Value         |                         |         |                     |
| Materials to recycling (kg)                                                      | kg                                    | 0.95          |                         |         |                     |
| Disposal (C4)                                                                    | Unit                                  | Value         |                         |         |                     |
| Waste, scrap steel, to landfill (kg) - C4                                        | kg                                    | 0.05          |                         |         |                     |
| Benefits and loads beyond the system boundaries (D)                              | Unit                                  | Value         |                         |         |                     |
| Substitution of electricity (MJ)                                                 | MJ                                    | 0.01189       |                         |         |                     |
| Substitution of thermal energy, district heating (MJ)                            | MJ                                    | 0.1799        |                         |         |                     |
| Substitution of primary steel with net scrap (kg)                                | kg                                    | 0.8427        |                         |         |                     |

## 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 <sub>2</sub> -eq | 2.56E+00  | 9.15E-03 | 2.66E-02 | 3.29E-03 | 2.72E-02 | 0.00E+00 | 2.14E-04 | -9.29E-01 |
|  | GWP-fossil                       | kg CO <sub>2</sub> -eq | 2.58E+00  | 8.19E-03 | 4.92E-04 | 3.29E-03 | 2.72E-02 | 0.00E+00 | 2.14E-04 | -9.28E-01 |
|  | GWP-biogenic                     | kg CO <sub>2</sub> -eq | -1.54E-02 | 9.55E-04 | 2.61E-02 | 6.16E-07 | 1.16E-05 | 0.00E+00 | 1.82E-07 | -5.14E-04 |
|  | GWP-luluc                        | kg CO <sub>2</sub> -eq | 2.48E-03  | 7.33E-06 | 1.20E-07 | 2.59E-07 | 8.28E-06 | 0.00E+00 | 4.20E-08 | -4.51E-04 |
|  | ODP                              | kg CFC11 -eq           | 3.01E-08  | 1.65E-09 | 7.50E-11 | 7.10E-10 | 6.55E-09 | 0.00E+00 | 1.04E-10 | -7.60E-05 |
|  | AP                               | mol H <sup>+</sup> -eq | 9.95E-03  | 4.82E-05 | 3.74E-06 | 3.44E-05 | 8.75E-05 | 0.00E+00 | 2.09E-06 | -4.62E-03 |
|  | EP-FreshWater                    | kg P -eq               | 5.80E-05  | 5.43E-07 | 5.58E-09 | 1.20E-08 | 2.16E-07 | 0.00E+00 | 1.60E-09 | -5.72E-05 |
|  | EP-Marine                        | kg N -eq               | 1.96E-03  | 1.24E-05 | 1.62E-06 | 1.52E-05 | 1.92E-05 | 0.00E+00 | 7.84E-07 | -9.57E-04 |
|  | EP-Terrestrial                   | mol N -eq              | 2.12E-02  | 1.37E-04 | 1.71E-05 | 1.67E-04 | 2.14E-04 | 0.00E+00 | 8.63E-06 | -9.78E-03 |
|  | POCP                             | kg NMVOC -eq           | 7.05E-03  | 5.39E-05 | 4.42E-06 | 4.58E-05 | 8.39E-05 | 0.00E+00 | 2.47E-06 | -4.65E-03 |
|  | ADP-minerals&metals <sup>1</sup> | kg Sb-eq               | 3.14E-04  | 3.61E-07 | 7.63E-09 | 5.04E-09 | 4.84E-07 | 0.00E+00 | 1.90E-09 | -1.60E-05 |
|  | ADP-fossil <sup>1</sup>          | MJ                     | 2.91E+01  | 1.56E-01 | 5.54E-03 | 4.52E-02 | 4.41E-01 | 0.00E+00 | 6.91E-03 | -7.82E+00 |
|  | WDP <sup>1</sup>                 | m <sup>3</sup>         | 7.84E+00  | 2.21E-01 | 8.78E-03 | 9.61E-03 | 3.38E-01 | 0.00E+00 | 1.45E-02 | 4.79E+01  |

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<sup>-3</sup> = 0.009"

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 | 8.71E-08 | 1.72E-09 | 4.60E-11 | 9.10E-10 | 2.50E-09 | 0.00E+00 | 4.50E-11 | -7.75E-08 |
|  IRP <sup>2</sup>    | kgBq U235 -eq     | 5.50E-02 | 1.34E-03 | 2.02E-05 | 1.94E-04 | 1.93E-03 | 0.00E+00 | 3.00E-05 | 3.23E-03  |
|  ETP-fw <sup>1</sup> | CTUe              | 1.08E+01 | 1.47E-01 | 6.28E-03 | 2.47E-02 | 3.23E-01 | 0.00E+00 | 3.42E-03 | -5.18E+01 |
|  HTP-c <sup>1</sup>  | CTUh              | 1.05E-09 | 0.00E+00 | 1.00E-12 | 1.00E-12 | 0.00E+00 | 0.00E+00 | 0.00E+00 | -4.46E-09 |
|  HTP-nc <sup>1</sup> | CTUh              | 1.67E-08 | 2.18E-10 | 3.30E-11 | 2.30E-11 | 3.12E-10 | 0.00E+00 | 2.00E-12 | 9.69E-08  |
|  SQP <sup>1</sup>    | dimensionless     | 3.50E+00 | 3.63E-01 | 3.26E-03 | 5.74E-03 | 5.06E-01 | 0.00E+00 | 2.52E-02 | -6.83E-01 |

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<sup>-3</sup> = 0.009"

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             | 2.17E+00 | 4.27E-02 | 1.14E-04  | 2.45E-04 | 5.55E-03 | 0.00E+00  | 1.06E-04 | -7.25E-01 |
|  | PERM  | MJ             | 2.52E-01 | 0.00E+00 | -2.39E-01 | 0.00E+00 | 0.00E+00 | -1.25E-02 | 0.00E+00 | 0.00E+00  |
|  | PERT  | MJ             | 2.42E+00 | 4.27E-02 | -2.39E-01 | 2.45E-04 | 5.55E-03 | -1.25E-02 | 1.06E-04 | -7.25E-01 |
|  | PENRE | MJ             | 2.66E+01 | 1.51E-01 | 5.54E-03  | 4.52E-02 | 4.41E-01 | 0.00E+00  | 6.91E-03 | -7.82E+00 |
|  | PENRM | MJ             | 1.20E-02 | 0.00E+00 | -9.16E-03 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00  |
|  | PENRT | MJ             | 2.66E+01 | 1.51E-01 | -3.62E-03 | 4.52E-02 | 4.41E-01 | 0.00E+00  | 6.91E-03 | -7.82E+00 |
|  | SM    | kg             | 8.45E-02 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00  | 0.00E+00 | 0.00E+00  |
|  | RSF   | MJ             | 7.82E-03 | 1.16E-04 | 3.33E-06  | 6.02E-06 | 1.94E-04 | 0.00E+00  | 2.20E-06 | 3.35E-02  |
|  | NRSF  | MJ             | 7.72E-02 | 0.00E+00 | 3.71E-05  | 8.86E-05 | 6.51E-04 | 0.00E+00  | 6.32E-06 | 9.69E-01  |
|  | FW    | m <sup>3</sup> | 1.13E-02 | 5.84E-04 | 4.01E-06  | 2.33E-06 | 5.02E-05 | 0.00E+00  | 8.23E-06 | -2.06E-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 = Net use of fresh water

"Reading example: 9.0 E-03 =  $9.0 \cdot 10^{-3}$  = 0.009"

| End of life - Waste                                                                    |      |          |          |          |          |          |          |          |           |  |
|----------------------------------------------------------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|-----------|--|
| Indicator                                                                              | Unit | A1-A3    | A4       | A5       | C1       | C2       | C3       | C4       | D         |  |
|  HWD  | kg   | 2.34E-03 | 2.61E-04 | 0.00E+00 | 1.33E-06 | 2.42E-05 | 0.00E+00 | 0.00E+00 | -4.82E-03 |  |
|  NHWD | kg   | 1.87E-01 | 3.08E-02 | 1.75E-02 | 5.36E-05 | 3.84E-02 | 0.00E+00 | 5.00E-02 | -3.79E-01 |  |
|  RWD  | kg   | 3.69E-04 | 2.11E-04 | 0.00E+00 | 3.14E-07 | 3.01E-06 | 0.00E+00 | 0.00E+00 | 2.48E-06  |  |

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9.0 E-03 =  $9.0 \times 10^{-3}$  = 0.009"

| End of life - Output flow                                                             |      |          |          |          |          |          |          |          |          |  |
|---------------------------------------------------------------------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| Indicator                                                                             | Unit | A1-A3    | A4       | A5       | C1       | C2       | C3       | C4       | D        |  |
|  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   | 3.44E-02 | 0.00E+00 | 2.04E-04 | 0.00E+00 | 0.00E+00 | 9.50E-01 | 0.00E+00 | 0.00E+00 |  |
|  MER | kg   | 4.84E-03 | 0.00E+00 | 1.71E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |  |
|  EEE | MJ   | 3.26E-03 | 0.00E+00 | 1.19E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |  |
|  EET | MJ   | 4.94E-02 | 0.00E+00 | 1.80E-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 =  $9.0 \times 10^{-3}$  = 0.009"

| 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 | 7.13E-03            |

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO<sub>2</sub>

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, share of 64% nuclear and 36% hydro, for 2024 (kWh) - SE | ecoinvent 3.10.1 | 15.50  | g CO2-eq/kWh |

Dangerous substances

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

Indoor environment

When used as designated, there are no known modifications of the profiles or emissions of dangerous substances into the environment.

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 <sub>2</sub> -eq | 2.58E+00 | 9.14E-03 | 4.92E-04 | 3.29E-03 | 2.72E-02 | 0.00E+00 | 2.14E-04 | -9.29E-01 |

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.

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|                                                            | <b>Author of the Life Cycle Assessment</b><br>LCA.no AS<br>Dokka 6A, 1671 Kråkerøy, Norway         | Phone: +47 916 50 916<br>e-mail: <a href="mailto:post@lca.no">post@lca.no</a><br>web: <a href="http://www.lca.no">www.lca.no</a>                             |
|                                                            | <b>Developer of EPD generator</b><br>LCA.no AS<br>Dokka 6A, 1671 Kråkerøy, Norway                  | Phone: +47 916 50 916<br>e-mail: <a href="mailto:post@lca.no">post@lca.no</a><br>web: <a href="http://www.lca.no">www.lca.no</a>                             |
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