

# Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

## Mapecfloor PU Primer (Norwegian production)

EPD of a single product

from

**Mapei AS**



|                          |  |
|--------------------------|--|
| Programme:               | The International EPD System, <a href="http://www.environdec.com">www.environdec.com</a> |
| Programme operator:      | EPD International AB   |
| Type of EPD:             | EPD of a single product from Mapei AS  |
| EPD registration number: | EPD-IES-0028905  |
| Version date:            | 2026-02-25   |
| Validity date:           | 2031-02-24   |

*An EPD may be updated or depublished if conditions change. To find the latest version of the EPD and to confirm its validity, see [www.environdec.com](http://www.environdec.com)*



## GENERAL INFORMATION

| Programme Information |   |
|-----------------------|---|
| <b>Programme:</b>     | The International EPD® System                                       |
| <b>Address:</b>       | EPD International AB<br>Box 210 60<br>SE-100 31 Stockholm<br>Sweden |
| <b>Website:</b>       | <a href="http://www.environdec.com">www.environdec.com</a>          |
| <b>E-mail:</b>        | <a href="mailto:support@environdec.com">support@environdec.com</a>  |

| Product Category Rules (PCR)   |
|--|
| CEN standard EN 15804 serves as the Core Product Category Rules (PCR)  |
| Product Category Rules (PCR): PCR 2019:14 Construction products, version 2.0.1, valid until: 2030-04-07; UN CPC code: 375  |
| PCR review was conducted by: The Technical Committee of the International EPD System. See <a href="http://www.environdec.com">www.environdec.com</a> for a list of members.                  |
| Review chair: Rob Rouwette (chair), Noa Meron (co-chair). The review panel may be contacted via the Secretariat <a href="http://www.environdec.com/support">www.environdec.com/support</a> . |

| Third-party Verification   |
|--|
| Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:  |
| <input checked="" type="checkbox"/> EPD process certification* without a pre-verified LCA/EPD tool<br>Third-party verifier: <i>Certiquality Srl</i><br>Accredited by: <i>Accredia</i>  |
| *EPD process certification involves an accredited certification body certifying and periodically auditing the EPD process and conducting external and independent verification of EPDs that are regularly published. More information can be found in the General Programme Instructions on <a href="http://www.environdec.com">www.environdec.com</a> . |
| Procedure for follow-up of data during EPD validity involves third party verifier:   |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  |

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit version number) or be based on fully aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.

For further information about comparability, see EN 15804 and ISO 14025.

## INFORMATION ABOUT EPD OWNER

Owner of the EPD: Mapei AS

Address: Vallsetvegen 6, 2120 Sagstua, Norway

Contact: corporate.sustainability@mapei.it

Description of the organisation:

Founded in 1937 in Milan, Italy, Mapei produces adhesives and complementary products for laying all types of floor, wall and coating materials, and also specializes in other chemical products used in the building industry, such as waterproofing products, specialty mortars, admixtures for concrete, cement additives, products for underground constructions and for the restoration of concrete and historical buildings. There are currently 98 subsidiaries in the Mapei Group, with a total of 106 production facilities located around the world in 42 different countries and in 5 different continents. Mapei also has 39 central laboratories. Most locations are ISO 9001 and ISO 14001. Mapei invests 12% in its company's total work-force and 5% of its turnover in Research & Development; in particular, 70% of its R&D efforts are directed to develop eco-sustainable and environmentally friendly products, which give important contribution to all major green rating systems for eco-sustainable buildings such as LEED and BREEAM. Furthermore, Mapei has developed a sales and technical service network with offices all over the world and offers an efficient Technical Assistance Service that is valued by architects, engineers, contractors and owners.

**Mapei Nordic** production site is located in Sagstua, Norway. The production site consists of 5 factories: two factories for powder-based products, two factories for liquid admixtures and one factory for thermosetting plastic-based products. The total size of the buildings is 24.000 sqm. The energy in these factories is provided from water electricity, geothermal heating and remaining approximately 10 % heated by bio-oil. Mapei Nordic focuses both on energy and on logistic optimization, as for example the systematic Lean based improvement work. With 60 – 80 trailers per day, and 1650 transport lines, requires Mapei to work actively on optimizing our logistic process.

## PRODUCT INFORMATION

Product name: Mapefloor PU Primer

Product identification: Two-component polyurethane primer



UN CPC code: 3511 - Paints and varnishes.

Product description: Mapefloor PU Primer is a two-component, polyurethane based primer that can be used for application of Mapefloor resin systems or as a re-coat primer for already installed polyurethane-based systems. The product complies with the principles defined in EN 13813 “Screeds and materials for screeds - Materials for screeds - Properties and requirements”, which defines the requirements for screed materials used in the construction of internal floors.

Mapefloor PU Primer is supplied in 9.1 kg set: Component A = 4.1 kg; Component B = 5 kg.

Name and location of production site(s): Vallsetvegen 6, 2120 Sagstua, Norway.

## CONTENT DECLARATION

| Product content  | Weight, kg | Post-consumer recycled material, weight-% of product | Biogenic material, weight-% of product | Biogenic material <sup>1</sup> , kg C/product or declared unit |
|------------------|------------|--|--|--|
| Blend of polyols | 0.44       | 0  | 7.3                                    | 0.073  |
| Curing Agents    | 0.56       | 0  | 0                                      | 0  |
| Additives        | < 0.01     | 0  | 0                                      | 0  |
| <b>TOTAL</b>     | <b>1</b>   | <b>0%</b>  | <b>7.3%</b>                            | <b>0.073</b>   |

| Packaging materials | Weight, kg   | Weight-% (versus the product) | Biogenic material, kg C/product or declared unit |
|---------------------|--------------|-------------------------------|--|
| Plastics            | 0,048        | 4,83                          | 0  |
| Wood                | 0,050        | 5,00                          | 0,02   |
| <b>TOTAL</b>        | <b>0,098</b> | <b>9,82</b>                   | <b>0,02</b>                                      |

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO<sub>2</sub>.

The product does not contain a concentration higher than 0,1% (by unit weight) of either carcinogenic substances or substances of very high concern (SVHC) on the REACH Candidate List published by the European Chemicals Agency.

## LCA INFORMATION

Declared unit: 1 kg of finished product plus the weight of the packaging.

Time representativeness: 2025

Geographical scope: Nordic & Baltic Countries

Database(s) and LCA software used:

Sphera database (CUP 2025.2); Ecoinvent 3.11 database  
 LCA for Experts v.10 (formerly GaBi Software)

Description of system boundaries:

The approach is “cradle to gate” (A1–A3) with modules C1-C4 and module D and optional modules (A1-A3 + A4-A5 + C + D):

- A1, A2, A3 (Product stage): extraction and processing of raw materials (A1), transportation up to the factory gate (A2), manufacturing of the finished product and packaging (A3).
- A4 – A5 (Construction process stage): transport distance of the finished product to final customers (A4). The product is applied manually. The packaging is collected and sent to treatment.
- C1, C2, C3, C4 (End of Life stage): the demolition phase (C1) includes the electricity for demolition. With a collection rate of 100% as C&D waste, the transports are carried out by lorry over 100 km (C2). A recycling ratio (C3) of 91% is considered in accordance with the European Directive 2008/98/CE. The remaining 9% is landfilled (C4).
- D (benefits and potential for recovery/reuse) beyond the system boundaries considered: potential benefits from the recycling of the product.

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

|                      | Product stage       |           |               | Construction process stage |                           | Use stage |             |        |             |               |                        |                       | End of life stage          |           |                  |          | Resource recovery stage |
|----------------------|---------------------|-----------|---------------|----------------------------|---------------------------|-----------|-------------|--------|-------------|---------------|------------------------|-----------------------|----------------------------|-----------|------------------|----------|-------------------------|
|                      | Raw material supply | Transport | Manufacturing | Transport                  | Construction installation | Use       | Maintenance | Repair | Replacement | Refurbishment | Operational energy use | Operational water use | De-construction demolition | Transport | Waste processing | Disposal |                         |
| Module               | A1                  | A2        | A3            | A4                         | A5                        | B1        | B2          | B3     | B4          | B5            | B6                     | B7                    | C1                         | C2        | C3               | C4       | D                       |
| Modules declared     | X                   | X         | X             | X                          | X                         | ND        | ND          | ND     | ND          | ND            | ND                     | ND                    | X                          | X         | X                | X        | X                       |
| Geography            | EU                  | EU        | NO            | Nordic & Baltic            | EU                        | N/A       | N/A         | N/A    | N/A         | N/A           | N/A                    | N/A                   | EU                         | EU        | EU               | EU       | EU                      |
| Specific data used   | 5,50%               |           |               | -                          | -                         | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                       |
| Variation – products | 0%                  |           |               | -                          | -                         | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                       |
| Variation – sites    | 0%                  |           |               | -                          | -                         | -         | -           | -      | -           | -             | -                      | -                     | -                          | -         | -                | -        | -                       |

Transport to the building site (A4):

| Scenario information                                | Value   | Unit              |
|---|---|-------------------|
| Means of transport                                  | Means of transport: truck-trailer euro 6, gross weight 34-40 t, payload capacity 27 t | Dimensionless     |
| Transport distance - truck                          | 1000  | km                |
| Capacity utilisation (including empty runs) - truck | 61  | %                 |
| Gross density of products transported               | 1100  | kg/m <sup>3</sup> |
| Capacity utilisation volume factor                  | 1   | -                 |

Installation into the building site (A5):

| Scenario information   | Value   | Unit              |
|--|---|-------------------|
| Ancillary materials for installation   | 0   | kg                |
| Water use  | 0   | m <sup>3</sup>    |
| Other resources use  | 0   | kg/m <sup>2</sup> |
| Electricity and other energy consumption for the installation  | 0 (manual)  | kWh               |
| Electricity and other energy consumption for the mixing  | 0.00824   | kWh               |
| Waste materials on building site before waste processing, generated by the product's installation (specified by type)  | 0.048 (Plastics)<br>0.050 (Wood)<br>0.010 (C&D waste)         | kg                |
| Output materials (specified by type) as result of waste processing at the building site e.g. of collection for recycling, for energy recovery, disposal (specified by route) | 0.035 (Incineration)<br>0.003 (Landfill)<br>0.060 (Recycling) | kg                |
| Direct emission to ambient air, soil and water   | 0   | kg                |

End of Life (C1-C4):

| Scenario information                    | Value | Unit |
|---|-------|------|
| Collected separately                    | 0     | kg   |
| Collected with mixed construction waste | 1     | kg   |
| Reuse                                   | 0     | kg   |
| Recycling                               | 0.91  | kg   |
| Energy recovery                         | 0     | kg   |
| Landfill                                | 0.09  | kg   |

Data quality assessment:

The EPD covers Mapefloor PU Primer manufactured in Latina during year 2024. The distribution, application and EoL stages of the EPD cover the European scenario. The production is a discontinuous process, in which all the components are mechanically mixed in batches. The EPD uses background data from Ecoinvent 3.11 and Sphera databases CUP 2025.2, and specific data from suppliers. The quality of the relevant data used for the EPD in terms of its time, geography and technology representativeness using EN 15804:2012+A2:2019, Annex E, E2 is mostly “very good” and “good”. The relevant data assessed included “no poor” or “very poor” data.

| Process name   | Source type   | Source         | Reference year | Data category  | Share of primary data, of GWP GHG results for A1 A3 |
|--|---|----------------|----------------|----------------|---|
| Manufacturing of product                                   | Collected data  | EPD owner      | 2024           | Primary data   | 4.28%   |
| Generation of electricity used in manufacturing of product | Database  | Ecoinvent 3.11 | 2024           | Primary data   | 1.23%   |
| Transport of raw materials to manufacturing sites          | Database  | Sphera         | 2024           | Secondary data | 0%  |
| Raw materials  | Database  | Sphera         | 2023-2024      | Secondary data | 0%  |
| Total share of primary data, of GWP GHG results for A1- A3 |   |                |                |                | 5.51%   |
| Note   | The share of primary data is calculated based on GWP GHG results. It is a simplified indicator for data quality that supports the use of more primary data to increase the representativeness of and comparability between EPDs. Note that the indicator does not capture all relevant aspects of data quality and is not comparable across product categories. |                |                |                |   |

Electricity used in the manufacturing process in A3 (A5 for services):

| Type of electricity mix                           | Residual electricity mix on the market   |        |
|---|--|--------|
| Energy sources                                    | Hydro  | 1.28%  |
|   | Wind   | 1.57%  |
|   | Solar  | 1.30%  |
|   | Biomass  | 0.66%  |
|   | Geothermal   | 0%     |
|   | Waste  | 0%     |
|   | Nuclear  | 19.05% |
|   | Natural gas  | 29.46% |
|   | Coal   | 36.67% |
|   | Oil  | 1.74%  |
|   | Peat   | 0.35%  |
|   | Other  | 7.92%  |
| Climate impact GWP GHG                            | 0.730 kg CO <sub>2</sub> eq./kWh   |        |
| Method used to calculate residual electricity mix | Country specific Ecoinvent dataset (residual mix, medium voltage) based on AIB |        |

More information on allocation and cut-off:

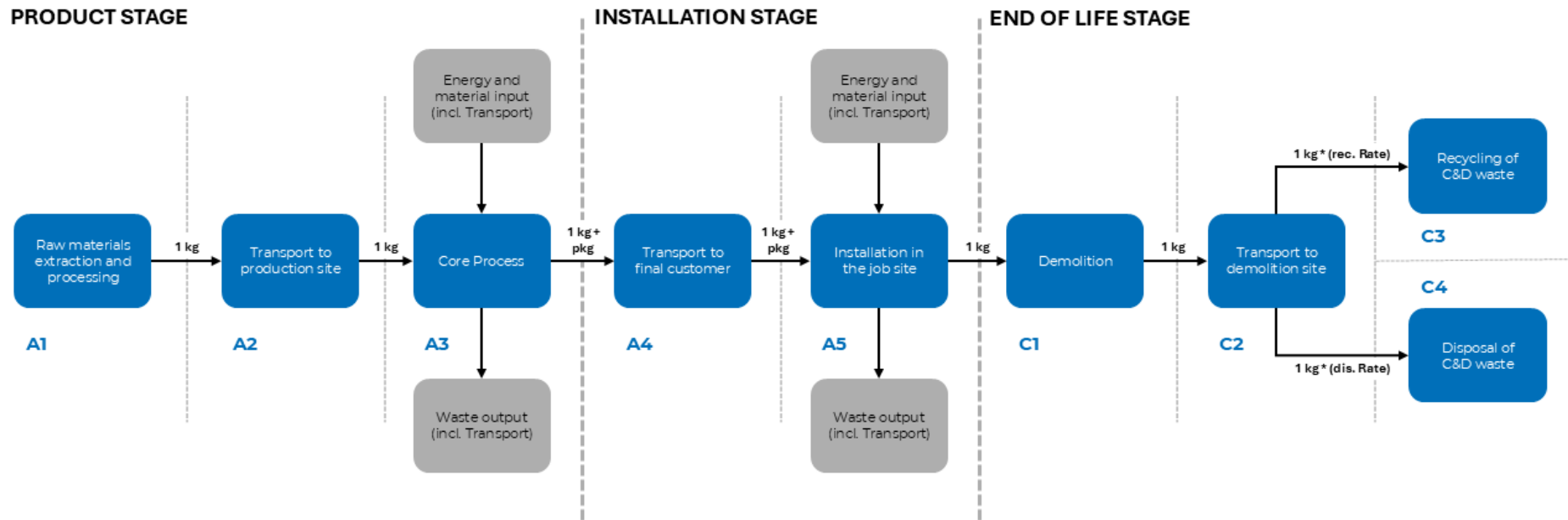
Criteria for the exclusion of inputs and outputs (cut-off rules) in the LCA, information modules and any additional information are intended to support an efficient calculation procedure. They are not applied in order to hide data. Cut-off criteria, where applied, are described below. Input flows are covered for the whole formula.

| Process excluded from study          | Cut-off criteria                                     | Quantified contribution from process                                   |
|--------------------------------------|--|--|
| A3: production (auxiliary materials) | Less than 10 <sup>-5</sup> kg/kg of finished product | Sensitivity study demonstrates a relative contribution lower than 0,5% |

For the allocation procedure and principles consider the following table:

| Module | Allocation Principle   |
|--------|--|
| A1     | All data refers to 1 kg of product.<br>A1: electricity is allocated to the specific production line      |
| A3     | All data refers to 1 kg of packaged product.<br>A3: wastes are allocated to the specific production line |

System flow diagram:



## ENVIRONMENTAL PERFORMANCE

### LCA results of the product(s) - main environmental performance results

The following tables show the environmental impacts for the products considered according to the requirements of EN15804:2012+A2:2019/AC:2021. The Characterization Factors are based on EF 3.1 package.

The results referred to the declared unit. In the whole document, the point “.” is the decimal separator, while the comma “,” is the thousands separator.

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

The estimated impact results are only relative statements, which do not indicate the endpoints of the impact categories, exceeding threshold values, safety margins and/or risks.

We discourage the use of the outcomes from modules A1-A3 without considering the results obtained from module C.

### Mandatory impact category indicators according to EN 15804

| Results per declared unit          |   |           |          |          |       |          |          |          |          |           |
|------------------------------------|---|-----------|----------|----------|-------|----------|----------|----------|----------|-----------|
| Indicator                          | Unit  | A1-A3     | A4       | A5       | B1-B7 | C1       | C2       | C3       | C4       | D         |
| GWP-total                          | kg CO <sub>2</sub> eq.  | 2.89E+00  | 8.84E-02 | 1.24E-01 | ND    | 1.98E-03 | 8.57E-03 | 2.50E-03 | 1.17E-01 | -1.20E-02 |
| GWP-fossil                         | kg CO <sub>2</sub> eq.  | 3.06E+00  | 8.41E-02 | 4.89E-02 | ND    | 1.95E-03 | 8.13E-03 | 2.47E-03 | 1.36E-03 | -1.19E-02 |
| GWP-biogenic                       | kg CO <sub>2</sub> eq.  | -1.79E-01 | 3.65E-03 | 7.54E-02 | ND    | 2.01E-05 | 3.53E-04 | 7.23E-06 | 1.16E-01 | -7.59E-05 |
| GWP-luluc                          | kg CO <sub>2</sub> eq.  | 1.30E-02  | 6.80E-04 | 2.99E-05 | ND    | 6.45E-06 | 8.34E-05 | 2.13E-05 | 5.59E-06 | -1.47E-05 |
| ODP                                | kg CFC 11 eq.   | 1.65E-06  | 1.30E-14 | 6.84E-14 | ND    | 4.45E-14 | 1.35E-15 | 4.86E-15 | 3.79E-15 | -1.18E-13 |
| AP                                 | mol H <sup>+</sup> eq.  | 7.73E-03  | 1.17E-04 | 3.33E-05 | ND    | 4.28E-06 | 1.19E-05 | 1.25E-05 | 9.63E-06 | -1.45E-05 |
| EP-freshwater                      | kg P eq.  | 1.32E-04  | 1.80E-07 | 5.44E-08 | ND    | 4.18E-09 | 2.19E-08 | 6.19E-09 | 2.03E-09 | -1.50E-08 |
| EP-marine                          | kg N eq.  | 2.60E-03  | 4.66E-05 | 1.19E-05 | ND    | 1.03E-06 | 4.73E-06 | 5.82E-06 | 2.52E-06 | -3.84E-06 |
| EP-terrestrial                     | mol N eq.   | 2.67E-02  | 5.00E-04 | 1.35E-04 | ND    | 1.15E-05 | 5.02E-05 | 6.31E-05 | 2.75E-05 | -4.53E-05 |
| POCP                               | kg NMVOC eq.  | 6.11E-03  | 1.08E-04 | 3.08E-05 | ND    | 2.55E-06 | 1.06E-05 | 1.55E-05 | 7.54E-06 | -1.03E-05 |
| ADP - minerals&metals <sup>1</sup> | kg Sb eq.   | 1.04E-06  | 4.65E-09 | 7.66E-10 | ND    | 4.06E-10 | 5.39E-10 | 2.51E-09 | 8.43E-11 | -1.17E-09 |
| ADP-fossil <sup>1</sup>            | MJ  | 8.07E+01  | 1.09E+00 | 9.80E-02 | ND    | 3.99E-02 | 1.04E-01 | 4.56E-02 | 1.79E-02 | -1.89E-01 |
| WDP <sup>1</sup>                   | m <sup>3</sup>  | 5.26E+00  | 3.74E-04 | 6.24E-03 | ND    | 4.90E-04 | 3.71E-05 | 4.39E-04 | 1.47E-04 | -1.94E-03 |
| Acronyms                           | 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 |           |          |          |       |          |          |          |          |           |
| Disclaimer 1                       | The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.   |           |          |          |       |          |          |          |          |           |

## Additional mandatory and voluntary impact category indicators

| Results per declared unit |   |          |          |          |       |          |          |          |          |           |
|---------------------------|---|----------|----------|----------|-------|----------|----------|----------|----------|-----------|
| Indicator                 | Unit  | A1-A3    | A4       | A5       | B1-B7 | C1       | C2       | C3       | C4       | D         |
| GWP - GHG <sup>1</sup>    | kg CO <sub>2</sub> eq.  | 3.08E+00 | 8.49E-02 | 4.90E-02 | ND    | 1.98E-03 | 8.24E-03 | 2.50E-03 | 1.37E-03 | -1.20E-02 |
| PM                        | Disease incidence   | 2.62E-07 | 1.58E-09 | 2.53E-10 | ND    | 3.54E-11 | 1.11E-10 | 2.40E-10 | 1.20E-10 | -1.16E-10 |
| IRP <sup>2</sup>          | kBq U235 eq.  | 1.21E-01 | 3.30E-04 | 1.53E-03 | ND    | 1.04E-03 | 2.82E-05 | 9.19E-05 | 2.10E-05 | -1.06E-03 |
| ETP-fw <sup>3</sup>       | CTUe  | 4.10E+01 | 1.95E+00 | 5.07E-02 | ND    | 6.73E-03 | 1.35E-01 | 4.56E-02 | 1.38E-02 | -1.61E-02 |
| HTP-c <sup>3</sup>        | CTUh  | 1.48E-09 | 2.70E-11 | 2.01E-12 | ND    | 6.35E-13 | 1.82E-12 | 7.27E-13 | 2.38E-13 | -2.09E-12 |
| HTP-nc <sup>3</sup>       | CTUh  | 5.14E-08 | 1.25E-09 | 9.66E-11 | ND    | 1.34E-11 | 1.02E-10 | 3.02E-11 | 8.89E-12 | -3.13E-11 |
| SQP <sup>3</sup>          | Dimensionless   | 3.73E+02 | 5.24E-01 | 3.67E-02 | ND    | 1.60E-02 | 4.59E-02 | 1.29E-02 | 4.41E-03 | -4.24E-02 |
| Acronyms                  | GWP GHG Global warming potential greenhouse gas. PM Potential incidence of disease due to particulate matter emissions; IRP Potential human exposure efficiency relative to U235; ETP-fw = Potential comparative toxic unit for ecosystems; HTP-c = Potential comparative toxic unit for humans; HTP-nc = Potential comparative toxic unit for humans; SQP Potential soil quality index.  |          |          |          |       |          |          |          |          |           |
| Disclaimer 1              | The GWP GHG indicator is termed GWP IOBC/GHG in the ILCD EPD+ data format. The indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO <sub>2</sub> is set to zero.  |          |          |          |       |          |          |          |          |           |
| Disclaimer 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. |          |          |          |       |          |          |          |          |           |
| Disclaimer 3              | The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.   |          |          |          |       |          |          |          |          |           |

## Resource use indicators

| Results per declared unit |  |          |          |           |       |          |          |          |          |           |
|---------------------------|--|----------|----------|-----------|-------|----------|----------|----------|----------|-----------|
| Indicator                 | Unit   | A1-A3    | A4       | A5        | B1-B7 | C1       | C2       | C3       | C4       | D         |
| PERE*                     | MJ, net calorific value  | 5.88E+00 | 6.49E-02 | 7.87E-01  | ND    | 2.73E-02 | 7.83E-03 | 4.48E-03 | 3.45E-03 | -7.19E-02 |
| PERM*                     | MJ, net calorific value  | 7.51E-01 | 0.00E+00 | -7.44E-01 | ND    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| PERT*                     | MJ, net calorific value  | 6.63E+00 | 6.49E-02 | 4.35E-02  | ND    | 2.73E-02 | 7.83E-03 | 4.48E-03 | 3.45E-03 | -7.19E-02 |
| PENRE*                    | MJ, net calorific value  | 7.84E+01 | 1.09E+00 | 2.21E+00  | ND    | 3.99E-02 | 1.04E-01 | 4.56E-02 | 1.79E-02 | -1.89E-01 |
| PENRM*                    | MJ, net calorific value  | 2.22E+00 | 0.00E+00 | -2.11E+00 | ND    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| PENRT*                    | MJ, net calorific value  | 8.07E+01 | 1.09E+00 | 9.80E-02  | ND    | 3.99E-02 | 1.04E-01 | 4.56E-02 | 1.79E-02 | -1.89E-01 |
| SM                        | kg   | 0.00E+00 | 0.00E+00 | 0.00E+00  | ND    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| RSF                       | MJ, net calorific value  | 0.00E+00 | 0.00E+00 | 0.00E+00  | ND    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| NRSF                      | MJ, net calorific value  | 0.00E+00 | 0.00E+00 | 0.00E+00  | ND    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  |
| FW                        | m <sup>3</sup>   | 1.84E-01 | 3.34E-05 | 1.61E-04  | ND    | 2.12E-05 | 3.87E-06 | 1.19E-05 | 4.31E-06 | -5.65E-05 |
| Acronyms                  | 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 re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water |          |          |           |       |          |          |          |          |           |

\*According to Annex 3 of PCR 2.0.1, the option B for the calculation of primary energy use indicators has been used.

## Waste indicators

| Results per declared unit    |      |          |          |          |       |          |          |          |          |           |
|------------------------------|------|----------|----------|----------|-------|----------|----------|----------|----------|-----------|
| Indicator                    | Unit | A1-A3    | A4       | A5       | B1-B7 | C1       | C2       | C3       | C4       | D         |
| Hazardous waste disposed     | kg   | 3.25E-03 | 3.90E-11 | 8.10E-11 | ND    | 5.21E-11 | 4.17E-12 | 6.29E-12 | 3.91E-12 | -8.80E-11 |
| Non-hazardous waste disposed | kg   | 9.92E-01 | 1.26E-04 | 1.90E-02 | ND    | 3.09E-05 | 1.45E-05 | 1.15E-05 | 8.92E-02 | -1.04E-04 |
| Radioactive waste disposed   | kg   | 9.76E-04 | 1.69E-06 | 9.34E-06 | ND    | 6.29E-06 | 1.96E-07 | 5.79E-07 | 1.90E-07 | -6.07E-06 |

## Output flow indicators

| Results per declared unit     |      |          |          |          |       |          |          |          |          |          |
|-------------------------------|------|----------|----------|----------|-------|----------|----------|----------|----------|----------|
| Indicator                     | Unit | A1-A3    | A4       | A5       | B1-B7 | C1       | C2       | C3       | C4       | D        |
| Components for re-use         | kg   | 0.00E+00 | 0.00E+00 | 0.00E+00 | ND    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Material for recycling        | kg   | 2.84E-02 | 0.00E+00 | 6.03E-02 | ND    | 0.00E+00 | 0.00E+00 | 9.01E-01 | 0.00E+00 | 0.00E+00 |
| Materials for energy recovery | kg   | 0.00E+00 | 0.00E+00 | 3.52E-02 | ND    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy, electricity  | MJ   | 0.00E+00 | 0.00E+00 | 4.95E-02 | ND    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Exported energy, thermal      | MJ   | 0.00E+00 | 0.00E+00 | 9.28E-02 | ND    | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

## Mandatory impact category indicators according to EN 15804 (100% recycling end-of-life scenario)

| Results per declared unit          |   |           |          |          |       |          |          |          |          |           |
|------------------------------------|---|-----------|----------|----------|-------|----------|----------|----------|----------|-----------|
| Indicator                          | Unit  | A1-A3     | A4       | A5       | B1-B7 | C1       | C2       | C3       | C4       | D         |
| GWP-total                          | kg CO <sub>2</sub> eq.  | 2.89E+00  | 8.84E-02 | 1.24E-01 | ND    | 1.98E-03 | 8.57E-03 | 1.28E+00 | 0.00E+00 | -1.20E-02 |
| GWP-fossil                         | kg CO <sub>2</sub> eq.  | 3.06E+00  | 8.41E-02 | 4.89E-02 | ND    | 1.95E-03 | 8.13E-03 | 2.71E-03 | 0.00E+00 | -1.19E-02 |
| GWP-biogenic                       | kg CO <sub>2</sub> eq.  | -1.79E-01 | 3.65E-03 | 7.54E-02 | ND    | 2.01E-05 | 3.53E-04 | 1.28E+00 | 0.00E+00 | -7.59E-05 |
| GWP-luluc                          | kg CO <sub>2</sub> eq.  | 1.30E-02  | 6.80E-04 | 2.99E-05 | ND    | 6.45E-06 | 8.34E-05 | 2.34E-05 | 0.00E+00 | -1.47E-05 |
| ODP                                | kg CFC 11 eq.   | 1.65E-06  | 1.30E-14 | 6.84E-14 | ND    | 4.45E-14 | 1.35E-15 | 5.34E-15 | 0.00E+00 | -1.18E-13 |
| AP                                 | mol H <sup>+</sup> eq.  | 7.73E-03  | 1.17E-04 | 3.33E-05 | ND    | 4.28E-06 | 1.19E-05 | 1.38E-05 | 0.00E+00 | -1.45E-05 |
| EP-freshwater                      | kg P eq.  | 1.32E-04  | 1.80E-07 | 5.44E-08 | ND    | 4.18E-09 | 2.19E-08 | 6.80E-09 | 0.00E+00 | -1.50E-08 |
| EP-marine                          | kg N eq.  | 2.60E-03  | 4.66E-05 | 1.19E-05 | ND    | 1.03E-06 | 4.73E-06 | 6.40E-06 | 0.00E+00 | -3.84E-06 |
| EP-terrestrial                     | mol N eq.   | 2.67E-02  | 5.00E-04 | 1.35E-04 | ND    | 1.15E-05 | 5.02E-05 | 6.94E-05 | 0.00E+00 | -4.53E-05 |
| POCP                               | kg NMVOC eq.  | 6.11E-03  | 1.08E-04 | 3.08E-05 | ND    | 2.55E-06 | 1.06E-05 | 1.71E-05 | 0.00E+00 | -1.03E-05 |
| ADP - minerals&metals <sup>1</sup> | kg Sb eq.   | 1.04E-06  | 4.65E-09 | 7.66E-10 | ND    | 4.06E-10 | 5.39E-10 | 2.76E-09 | 0.00E+00 | -1.17E-09 |
| ADP-fossil <sup>1</sup>            | MJ  | 8.07E+01  | 1.09E+00 | 9.80E-02 | ND    | 3.99E-02 | 1.04E-01 | 5.02E-02 | 0.00E+00 | -1.89E-01 |
| WDP <sup>1</sup>                   | m <sup>3</sup>  | 5.26E+00  | 3.74E-04 | 6.24E-03 | ND    | 4.90E-04 | 3.71E-05 | 4.83E-04 | 0.00E+00 | -1.94E-03 |
| Acronyms                           | 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 |           |          |          |       |          |          |          |          |           |
| Disclaimer 1                       | The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.   |           |          |          |       |          |          |          |          |           |

## Mandatory impact category indicators according to EN 15804 (100% landfill end-of-life scenario)

| Results per declared unit          |   |           |          |          |       |          |          |          |          |           |
|------------------------------------|---|-----------|----------|----------|-------|----------|----------|----------|----------|-----------|
| Indicator                          | Unit  | A1-A3     | A4       | A5       | B1-B7 | C1       | C2       | C3       | C4       | D         |
| GWP-total                          | kg CO <sub>2</sub> eq.  | 2.89E+00  | 8.84E-02 | 1.24E-01 | ND    | 1.98E-03 | 8.57E-03 | 0.00E+00 | 1.29E+00 | -1.20E-02 |
| GWP-fossil                         | kg CO <sub>2</sub> eq.  | 3.06E+00  | 8.41E-02 | 4.89E-02 | ND    | 1.95E-03 | 8.13E-03 | 0.00E+00 | 1.51E-02 | -1.19E-02 |
| GWP-biogenic                       | kg CO <sub>2</sub> eq.  | -1.79E-01 | 3.65E-03 | 7.54E-02 | ND    | 2.01E-05 | 3.53E-04 | 0.00E+00 | 1.28E+00 | -7.59E-05 |
| GWP-luluc                          | kg CO <sub>2</sub> eq.  | 1.30E-02  | 6.80E-04 | 2.99E-05 | ND    | 6.45E-06 | 8.34E-05 | 0.00E+00 | 6.21E-05 | -1.47E-05 |
| ODP                                | kg CFC 11 eq.   | 1.65E-06  | 1.30E-14 | 6.84E-14 | ND    | 4.45E-14 | 1.35E-15 | 0.00E+00 | 4.21E-14 | -1.18E-13 |
| AP                                 | mol H <sup>+</sup> eq.  | 7.73E-03  | 1.17E-04 | 3.33E-05 | ND    | 4.28E-06 | 1.19E-05 | 0.00E+00 | 1.07E-04 | -1.45E-05 |
| EP-freshwater                      | kg P eq.  | 1.32E-04  | 1.80E-07 | 5.44E-08 | ND    | 4.18E-09 | 2.19E-08 | 0.00E+00 | 2.25E-08 | -1.50E-08 |
| EP-marine                          | kg N eq.  | 2.60E-03  | 4.66E-05 | 1.19E-05 | ND    | 1.03E-06 | 4.73E-06 | 0.00E+00 | 2.80E-05 | -3.84E-06 |
| EP-terrestrial                     | mol N eq.   | 2.67E-02  | 5.00E-04 | 1.35E-04 | ND    | 1.15E-05 | 5.02E-05 | 0.00E+00 | 3.05E-04 | -4.53E-05 |
| POCP                               | kg NMVOC eq.  | 6.11E-03  | 1.08E-04 | 3.08E-05 | ND    | 2.55E-06 | 1.06E-05 | 0.00E+00 | 8.37E-05 | -1.03E-05 |
| ADP - minerals&metals <sup>1</sup> | kg Sb eq.   | 1.04E-06  | 4.65E-09 | 7.66E-10 | ND    | 4.06E-10 | 5.39E-10 | 0.00E+00 | 9.36E-10 | -1.17E-09 |
| ADP-fossil <sup>1</sup>            | MJ  | 8.07E+01  | 1.09E+00 | 9.80E-02 | ND    | 3.99E-02 | 1.04E-01 | 0.00E+00 | 1.99E-01 | -1.89E-01 |
| WDP <sup>1</sup>                   | m <sup>3</sup>  | 5.26E+00  | 3.74E-04 | 6.24E-03 | ND    | 4.90E-04 | 3.71E-05 | 0.00E+00 | 1.64E-03 | -1.94E-03 |
| Acronyms                           | 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 |           |          |          |       |          |          |          |          |           |
| Disclaimer 1                       | The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.   |           |          |          |       |          |          |          |          |           |

## **Additional Environmental Information**

### **VOC Emissions**

**Mapefloor PU Primer:** is certified by RTS in class M1.

## **VERSION HISTORY**

**Original Version of the EPD. 2026-02-25**

## ABBREVIATIONS

| Abbreviation                                      | Definition  |
|---|---|
| <b>General Abbreviations</b>                      |   |
| EN  | European Norm (Standard)  |
| EPD   | Environmental Product Declaration   |
| EF  | Environmental Footprint   |
| GPI   | General Programme Instructions  |
| ISO   | International Organization for Standardization  |
| LCA   | Life Cycle Assessment   |
| PCR   | Product Category Rules  |
| c-PCR   | Complementary Product Category Rules  |
| CEN   | European Committee for Standardization  |
| CLC   | Co-location centre  |
| CPC   | Central product classification  |
| GHS   | Globally harmonized system of classification and labelling of chemicals   |
| GRI   | Global Reporting Initiative   |
| <b>Environmental Impact Indicators (EN 15804)</b> |   |
| GHG   | Greenhouse gas  |
| GWP   | Global Warming Potential (kg CO <sub>2</sub> eq.)   |
| GWP-fossil  | Global Warming Potential from fossil sources (kg CO <sub>2</sub> eq.)   |
| GWP-biogenic                                      | Global Warming Potential from biogenic sources (kg CO <sub>2</sub> eq.)   |
| GWP-luluc   | Global Warming Potential from land use and land use change (kg CO <sub>2</sub> eq.)                             |
| GWP-total   | Total Global Warming Potential (kg CO <sub>2</sub> eq.)   |
| GWP-GHG   | Global Warming Potential for greenhouse gases (kg CO <sub>2</sub> eq.)  |
| ODP   | Ozone Depletion Potential (kg CFC-11 eq.)   |
| AP  | Acidification Potential (mol H <sup>+</sup> eq.)  |
| EP  | Eutrophication Potential  |
| EP-freshwater                                     | Freshwater eutrophication potential (kg P eq.)  |
| EP-marine   | Marine eutrophication potential (kg N eq.)  |
| EP-terrestrial                                    | Terrestrial eutrophication potential (mol N eq.)  |
| POCP  | Photochemical Ozone Creation Potential (kg NMVOC eq.)   |
| ADP   | Abiotic Depletion Potential   |
| ADP-minerals&metals                               | Abiotic depletion potential for non-fossil resources (kg Sb eq.)  |
| ADP-fossil  | Abiotic depletion potential for fossil resources (MJ)   |
| WDP   | Water Deprivation Potential (m <sup>3</sup> )   |
| <b>Resource Use Indicators</b>                    |   |
| PERE  | Use of renewable primary energy excluding renewable primary energy resources used as raw materials (MJ)         |
| PERM  | Use of renewable primary energy resources used as raw materials (MJ)  |
| PERT  | Total use of renewable primary energy resources (MJ)  |
| PENRE   | Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials (MJ) |
| PENRM   | Use of non-renewable primary energy resources used as raw materials (MJ)  |
| PENRT   | Total use of non-renewable primary energy resources (MJ)  |
| SM  | Use of secondary material (kg)  |
| RSF   | Use of renewable secondary fuels (MJ)   |
| NRSF  | Use of non-renewable secondary fuels (MJ)   |
| FW  | Use of net fresh water (m <sup>3</sup> )  |
| <b>Waste Indicators</b>                           |   |
| HW  | Hazardous Waste (disposed) (kg)   |
| NHW   | Non-Hazardous Waste (disposed) (kg)   |
| RW  | Radioactive Waste (disposed) (kg)   |
| <b>Output Flow Indicators</b>                     |   |
| CFR   | Components for Reuse (kg)   |
| MR  | Material for Recycling (kg)   |

|                                   |  |
|-----------------------------------|--|
| MER                               | Materials for Energy Recovery (kg)     |
| EEE                               | Exported Energy. Electricity (MJ)      |
| EET                               | Exported Energy. Thermal (MJ)          |
| <b>Lifecycle Stages / Modules</b> |  |
| A1                                | Raw material supply                    |
| A2                                | Transport                              |
| A3                                | Manufacturing                          |
| A4                                | Transport to site                      |
| A5                                | Construction/Installation              |
| B1                                | Use                                    |
| B2                                | Maintenance                            |
| B3                                | Repair                                 |
| B4                                | Replacement                            |
| B5                                | Refurbishment                          |
| B6                                | Operational energy use                 |
| B7                                | Operational water use                  |
| C1                                | Deconstruction/Demolition              |
| C2                                | Transport to waste processing          |
| C3                                | Waste processing                       |
| C4                                | Disposal                               |
| D                                 | Reuse-Recovery-Recycling potential     |
| <b>Other Relevant Terms</b>       |  |
| SVHC                              | Substances of Very High Concern        |
| EC No.                            | European Community Number              |
| CAS No.                           | Chemical Abstracts Service Number      |
| MJ                                | Megajoule                              |
| kg                                | Kilogram                               |
| m <sup>3</sup>                    | Cubic Meter                            |
| NMVOG                             | Non-Methane Volatile Organic Compounds |
| Sb eq.                            | Antimony Equivalents                   |
| P eq.                             | Phosphorus Equivalents                 |
| N eq.                             | Nitrogen Equivalents                   |
| CFC-11 eq.                        | Chlorofluorocarbon-11 Equivalents      |
| CO <sub>2</sub> eq.               | Carbon Dioxide Equivalents             |
| kg C                              | Kilograms of Carbon                    |
| kg CO <sub>2</sub> eq.            | Kilograms of Carbon Dioxide Equivalent |
| ND                                | Not Declared                           |

## REFERENCES

- EN 15804 SUSTAINABILITY OF CONSTRUCTION WORKS ENVIRONMENTAL PRODUCT DECLARATIONS CORE RULES FOR THE PRODUCT CATEGORY OF CONSTRUCTION PRODUCTS
- GENERAL PROGRAMME INSTRUCTIONS OF THE INTERNATIONAL EPD® SYSTEM. VERSION 5.0
- ISO 14025 ENVIRONMENTAL LABELS AND DECLARATIONS TYPE III ENVIRONMENTAL DECLARATIONS PRINCIPLES AND PROCEDURES
- ISO 14044 ENVIRONMENTAL MANAGEMENT L I F E CYCLE ASSESSMENT REQUIREMENTS AND GUIDELINES
- PCR 2019:14 CONSTRUCTION PRODUCTS EN 15804- A2 (VERSION 2.0.1)
- EUROSTAT - TREATMENT OF WASTE-BY-WASTE CATEGORY. HAZARDOUSNESS AND WASTE MANAGEMENT OPERATIONS. available on [\[env\\_wastrt\] Treatment of waste by waste category. hazardousness and waste management operations](#) [last seen 15/07/2025]



# ANNEX 1

## ANNEX 1: Self declaration from EPD owner

### Specific requirements

#### 1 Applied electricity data set used in the manufacturing phase

The electricity mix for the electricity used in manufacturing (A3) is the Norwegian residual electricity mix:

<0,730 kg CO<sub>2</sub> eqv/kWh>

#### 2 Transport from the place of manufacture to a central warehouse

Transport distance, and CO<sub>2</sub>-eqv./DU from transport of the product from factory gate to central warehouse in Oslo shall be given. The following table shall be included in the EPD:

| Type    | Capacity utilisation (incl. Return) (%) | Type of vehicle                               | Distance (km) | Fuel/Energy use | Unit  | Value (l/t) | kg CO <sub>2</sub> -eq./DU |
|---------|---|---|---------------|-----------------|-------|-------------|----------------------------|
| Boat    |   |   |               |                 |       |             |                            |
| Truck   | <61>                                    | <truck-trailer euro 6, payload capacity 27 t> | <95>          | <0,0246>        | l/tkm | <2,33>      | 8,40E-03                   |
| Railway |   |   |               |                 |       |             |                            |
| Rail    |   |   |               |                 |       |             |                            |
| Air     |   |   |               |                 |       |             |                            |
| Total   | <61>                                    | <truck-trailer euro 6, payload capacity 27 t> | <95>          | <0,0246>        | l/tkm | <2,33>      | 8,40E-03                   |

### 3 Impact on the indoor environment

- Indoor air emission testing has been performed: the product is certified by RTS in class M1.
- No test has being performed
- Not relevant; specify