

Environmental product declaration

In accordance with ISO 14025 and EN15804+A2

Plastic accessories





Owner of the declaration: Pretec Norge AS

Product: Plastic accessories

Declared unit: 1 kg

The Norwegian EPD Foundation

This declaration is based on Product Category Rules: CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR Part A: Construction products and services

Program operator: The Norwegian EPD Foundation

Declaration number: NEPD-4751-4003-EN

Registration number: NEPD-4751-4003-EN

Issue date: 19.07.2023

Valid to: 19.07.2028

EPD Software: LCA.no EPD generator ID: 53994



General information

Product

Plastic accessories

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-4751-4003-EN

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012 + A2:2019 serves as core PCR NPCR Part A: Construction products and services

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 Plastic accessories

Declared unit with option:

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

Functional unit:

Plastic accessories for rebar and combination bolts; water and frost solution for tunneling etc.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Verification of EPD tool:

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

Owner of the declaration:

Pretec Norge AS Contact person: Ernad Sarajlija Phone: (+47 69 10 24 60 e-mail: post@pretec.no

Manufacturer:

Pretec Norge AS Kampenesmosen 3 1739 Borgenhaugen, Norway

Place of production:

Pretec China 1-1 1-1 Danmei Road, Haining City Zhejiang Province, China

Management system:

ISO 14001 and ISO 9001, AAA Sertification AB, sert no 794 - EN 1090-1, AAA Sertification AB, sert no 2296

Organisation no:

NO 980 429 245 MVA

Issue date:

19.07.2023

Valid to: 19.07.2028

Year of study:

2023

Comparability:

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

Development and verification of EPD:

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

Developer of EPD: Ernad Sarajlija

Reviewer of company-specific input data and EPD: Lars Rune Aasberg

Approved:

Håkon Hauan

Managing Director of EPD-Norway

Alexander Borg, Asplan Viak AS (no signature required)



Product

Product description:

Plastic parts/articles used as accessories for tunneling and rock support.

Product specification

Product examples: Rebar chair 70/25 w/spy Plastic spacer ring M16/M20-300/25 Retainer for rebar Ø16, Ø22-28 Plastic screw 60 mm PE-Foam Pretec star 25-30 rebar chair Retainer for PE-foam Tear indicator 70x70 for fire tape + Others

| Materials | kg | % |
|---|--------------|----------------|
| Plastic - Polyethylene (HDPE) | 0,60 | 60,00 |
| Plastic - Polypropylene (PP) | 0,40 | 40,00 |
| Total | 1,00 | |
| Packaging | kg | % |
| | | |
| Packaging - Cardboard | 0,01 | 20,00 |
| Packaging - Cardboard Packaging - Pallet | 0,01 0,04 | 20,00 80,00 |

Technical data:

Injection moulded and continuos extruded HDPE and PP material.

Market:

Worldwide

Reference service life, product

Reference service life, building or construction works

LCA: Calculation rules

Declared unit:

1 kg Plastic accessories

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 |
|-------------------------------|------------------------|--------------|------|
| Packaging - Cardboard | ecoinvent 3.6 | Database | 2019 |
| Plastic - Polyethylene (HDPE) | ecoinvent 3.6 | Database | 2019 |
| Plastic - Polypropylene (PP) | ecoinvent 3.6 | Database | 2019 |
| Packaging - Pallet | Modified ecoinvent 3.6 | Database | 2019 |

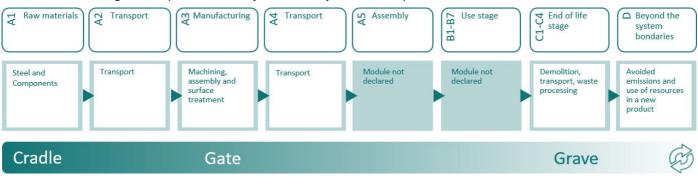


System boundaries (X=included, MND=module not declared, MNR=module not relevant)

| | Product sta | ge | Constr installati | | | 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 |
| Х | Х | Х | Х | Х | MND | MND | MND | MND | MND | MND | MND | Х | Х | Х | Х | Х |

System boundary:

This EPD is a "cradle-to-gate with options" EPD. The system boundary for this LCA report is from A1 to A4, C1-C4 and D



Additional technical information:



LCA: Scenarios and additional technical information

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

| Transport from production place to user (A4) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|--|--|---------------|-------------------------|-------|------------------------|
| Ship, Coastal Barge (km) | 71,0 % | 110 | 0,011 | l/tkm | 1,21 |
| Ship, Freight, Transoceanic, 194.000DWT (kgkm) | 65,0 % | 20300 | | l/tkm | |
| Truck, over 32 tonnes, EURO 4 (kgkm) - Global | 55,0 % | 50 | 0,023 | l/tkm | 1,15 |
| Truck, over 32 tonnes, EURO 6 (km) | 53,3 % | 300 | 0,023 | l/tkm | 6,90 |
| Assembly (A5) | Unit | Value | | | |
| Diesel, burned (L) | L/DU | 0,00 | | | |
| Waste, packaging, corrugated board box, to average treatment (kg) - A5, inkl. 85 km transp. | kg | 0,01 | | | |
| Waste, packaging, pallet, EUR wooden pallet, reusable, average treatment (kg) - A5, inkl. 85 km transp. | kg | 0,04 | | | |
| De-construction demolition (C1) | Unit | Value | | | |
| Diesel, burned (MJ) | MJ/DU | 0,63 | | | |
| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
| Truck, over 32 tonnes, EURO 6 (km) | 53,3 % | 250 | 0,023 | l/tkm | 5,75 |
| Waste processing (C3) | Unit | Value | | | |
| Waste treatment per kg Polyethylene (PE), incineration with fly ash extraction (kg) - C3 | kg | 0,60 | | | |
| Waste treatment per kg Polypropylene (PP), incineration with fly ash extraction (kg) - C3 | kg | 0,40 | | | |
| Disposal (C4) | Unit | Value | | | |
| Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg) - CH - C4 | kg | 0,02 | | | |
| Landfilling of ashes from incineration of Polypropylene (PP), process per kg ashes and residues (kg) - CH - C4 | kg | 0,01 | | | |
| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
| Substitution of electricity, in Norway (MJ) | MJ | 1,81 | | | |
| Substitution of thermal energy, district heating, in Norway (MJ) | MJ | 27,45 | | | |



LCA: Results

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

| Enviro | nmental impact | | | | | | | | | |
|-------------|----------------------------------|------------------------|-----------|----------|----------|----------|----------|----------|----------|-----------|
| | Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| P | GWP-total | kg CO ₂ -eq | 4,11E+00 | 1,58E-01 | 8,13E-02 | 5,73E-02 | 2,18E-02 | 2,83E+00 | 1,84E-03 | -1,65E-01 |
| P | GWP-fossil | kg CO ₂ -eq | 4,18E+00 | 1,57E-01 | 3,75E-03 | 5,73E-02 | 2,18E-02 | 2,83E+00 | 1,84E-03 | -1,59E-01 |
| P | GWP-biogenic | kg CO ₂ -eq | -6,83E-02 | 6,04E-05 | 7,76E-02 | 1,07E-05 | 9,33E-06 | 2,31E-05 | 9,68E-07 | -3,29E-04 |
| P | GWP-luluc | kg CO ₂ -eq | 2,84E-03 | 1,44E-04 | 3,46E-07 | 4,52E-06 | 6,63E-06 | 3,44E-06 | 2,77E-07 | -5,48E-03 |
| Ó | ODP | kg CFC11 -eq | 1,82E-07 | 2,85E-08 | 8,06E-10 | 1,24E-08 | 5,25E-09 | 2,19E-09 | 1,91E-10 | -1,16E-02 |
| Ê | AP | mol H+ -eq | 1,75E-02 | 4,03E-03 | 3,82E-05 | 6,00E-04 | 7,01E-05 | 3,55E-04 | 6,35E-06 | -1,31E-03 |
| ÷ | EP-FreshWater | kg P -eq | 1,19E-04 | 9,84E-07 | 1,48E-08 | 2,09E-07 | 1,73E-07 | 2,24E-07 | 2,50E-08 | -1,41E-05 |
| ÷ | EP-Marine | kg N -eq | 3,06E-03 | 9,97E-04 | 1,68E-05 | 2,65E-04 | 1,54E-05 | 1,70E-04 | 1,97E-06 | -4,29E-04 |
| | EP-Terrestial | mol N -eq | 3,42E-02 | 1,11E-02 | 1,84E-04 | 2,90E-03 | 1,71E-04 | 1,84E-03 | 2,25E-05 | -4,63E-03 |
| | РОСР | kg NMVOC -eq | 1,25E-02 | 2,93E-03 | 5,05E-05 | 7,98E-04 | 6,72E-05 | 4,42E-04 | 6,19E-06 | -1,28E-03 |
| " {} | ADP-minerals&metals ¹ | kg Sb -eq | 3,26E-05 | 1,93E-06 | 1,02E-08 | 8,80E-08 | 3,88E-07 | 1,01E-07 | 9,90E-09 | -1,58E-06 |
| A | ADP-fossil ¹ | MJ | 1,01E+02 | 2,11E+00 | 5,15E-02 | 7,89E-01 | 3,54E-01 | 1,87E-01 | 1,63E-02 | -2,28E+00 |
| % | WDP ¹ | m ³ | 1,65E+01 | 8,10E-01 | 1,42E-02 | 1,68E-01 | 2,71E-01 | 4,29E-01 | 1,75E-01 | -2,83E+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*10-3 = 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



Let's connect

| Addition | Additional environmental impact indicators | | | | | | | | | | | |
|---------------|--|-------------------|----------|----------|----------|----------|----------|----------|----------|-----------|--|--|
| In | dicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | |
| | PM | Disease incidence | 1,43E-07 | 2,91E-09 | 9,94E-10 | 1,59E-08 | 2,00E-09 | 1,49E-09 | 7,80E-11 | -7,95E-08 | | |
| (m) B | IRP ² | kgBq U235 -eq | 9,13E-02 | 9,04E-03 | 2,20E-04 | 3,38E-03 | 1,55E-03 | 3,20E-04 | 7,77E-05 | -1,45E-02 | | |
| | ETP-fw ¹ | CTUe | 5,66E+01 | 1,41E+00 | 3,03E-02 | 4,31E-01 | 2,59E-01 | 5,58E-01 | 3,09E-02 | -1,24E+01 | | |
| 44. * | HTP-c ¹ | CTUh | 1,20E-09 | 0,00E+00 | 1,00E-12 | 1,70E-11 | 0,00E+00 | 6,40E-11 | 2,00E-12 | -2,26E-10 | | |
| 4 <u>2</u> 00 | HTP-nc ¹ | CTUh | 3,16E-08 | 3,50E-10 | 3,20E-11 | 3,96E-10 | 2,50E-10 | 2,39E-09 | 5,80E-11 | -1,19E-08 | | |
| | SQP ¹ | dimensionless | 1,39E+01 | 8,23E-01 | 8,05E-03 | 1,00E-01 | 4,05E-01 | 2,31E-02 | 4,48E-02 | -1,52E+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*10-3 = 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.



Let's connect

| Resource use | | | | | | | | | | |
|--------------|----------|----------------|----------|-----------|-----------|----------|----------|----------|----------|-----------|
| | ndicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| i S | PERE | MJ | 3,54E+00 | 2,16E-02 | 3,13E-04 | 4,27E-03 | 4,45E-03 | 5,58E-03 | 9,79E-04 | -1,41E+01 |
| | PERM | MJ | 6,37E-01 | 0,00E+00 | -6,37E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| ° ≓ ₃ | PERT | MJ | 4,18E+00 | 2,16E-02 | -1,09E-01 | 4,27E-03 | 4,45E-03 | 5,58E-03 | 9,79E-04 | -1,41E+01 |
| Ð | PENRE | MJ | 6,07E+01 | 2,11E+00 | 5,15E-02 | 7,89E-01 | 3,54E-01 | 1,87E-01 | 1,63E-02 | -2,28E+00 |
| .Åa | PENRM | MJ | 3,86E+01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| IA | PENRT | MJ | 1,01E+02 | 2,11E+00 | 5,15E-02 | 7,89E-01 | 3,54E-01 | 1,87E-01 | 1,63E-02 | -2,28E+00 |
| | SM | kg | 3,62E-03 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| 2 | RSF | MJ | 2,51E-02 | 6,15E-04 | 8,09E-06 | 1,05E-04 | 1,56E-04 | 1,56E-04 | 2,43E-05 | -2,46E-03 |
| 1 | NRSF | MJ | 5,89E-05 | -4,21E-03 | 1,05E-04 | 1,54E-03 | 5,22E-04 | 0,00E+00 | 3,58E-03 | -8,33E-01 |
| \$ | FW | m ³ | 3,65E-02 | 1,80E-04 | 4,03E-06 | 4,06E-05 | 4,02E-05 | 5,25E-04 | 1,49E-05 | -1,69E-02 |

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; SENRE = Use of non renewable primary energy resources; SENRE = Use of secondary materials; PENRT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RERT = Total use of non renewable primary energy resources; SM = Use of secondary materials; RERT = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

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



Let's connect

| End of life - Was | End of life - Waste | | | | | | | | | | | |
|-------------------|---------------------|------|----------|----------|----------|----------|----------|----------|----------|-----------|--|--|
| In | dicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | |
| A | HWD | kg | 1,17E-02 | 1,15E-04 | 1,43E-06 | 2,32E-05 | 1,94E-05 | 0,00E+00 | 2,80E-02 | -1,07E-04 | | |
| Ū | NHWD | kg | 2,34E-01 | 4,84E-02 | 1,21E-02 | 9,34E-04 | 3,07E-02 | 0,00E+00 | 1,54E-02 | -5,38E-02 | | |
| 2 | RWD | kg | 7,86E-05 | 1,44E-05 | 3,38E-07 | 5,48E-06 | 2,42E-06 | 0,00E+00 | 9,79E-08 | -1,19E-05 | | |

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

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

| En | nd of life - Output flow | | | | | | | | | | | | |
|----|--------------------------|-----|------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|
| | Indicat | tor | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | |
| | ø۵ | CRU | kg | 0,00E+00 | | |
| | 30 | MFR | kg | 2,12E-03 | 0,00E+00 | 1,00E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | | |
| | DF | MER | kg | 1,26E-04 | 0,00E+00 | 6,99E-04 | 0,00E+00 | 0,00E+00 | 1,00E+00 | 0,00E+00 | 0,00E+00 | | |
| | 5D | EEE | MJ | 9,99E-04 | 0,00E+00 | 1,44E-03 | 0,00E+00 | 0,00E+00 | 1,81E+00 | 0,00E+00 | 0,00E+00 | | |
| | DI | EET | MJ | 1,51E-02 | 0,00E+00 | 2,18E-02 | 0,00E+00 | 0,00E+00 | 2,75E+01 | 0,00E+00 | 0,00E+00 | | |

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

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

| Biogenic Carbon Content | | | | | | | | |
|---|------|---------------------|--|--|--|--|--|--|
| Indicator | Unit | At the factory gate | | | | | | |
| Biogenic carbon content in product | kg C | 0,00E+00 | | | | | | |
| Biogenic carbon content in accompanying packaging | kg C | 2,12E-02 | | | | | | |

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



Additional requirements

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

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

| Electricity mix | Data source | Amount | Unit |
|--|---------------|--------|--------------|
| Electricity, China, Zhejiang, high voltage (kWh) | ecoinvent 3.6 | 865,26 | g CO2-eq/kWh |

Dangerous substances

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

Indoor environment

For outdoor use only

Additional Environmental Information

| Additional environme | Additional environmental impact indicators required in NPCR Part A for construction products | | | | | | | | | | |
|----------------------|--|----------|----------|----------|----------|----------|----------|----------|-----------|--|--|
| Indicator | Indicator Unit A1-A3 A4 A5 C1 C2 C3 C4 D | | | | | | | | | | |
| GWPIOBC | kg CO ₂ -eq | 4,19E+00 | 1,58E-01 | 3,54E-03 | 5,67E-02 | 2,18E-02 | 2,83E+00 | 1,91E-03 | -1,63E-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.



Bibliography

ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures.

ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.

EN 15804:2012+A2:2019 Environmental product declaration - Core rules for the product category of construction products.

ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.

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NPCR Part A: Construction products and services. Ver. 2.0. April 2021, EPD-Norge.

NPCR 013 Part B for Steel and Aluminium Construction Products , Ver. 4.0, 06.10.2021, EPD Norway.

| and norway | Program operator and publisher | Phone: +47 23 08 80 00 |
|-------------------------|---|---------------------------|
| © epd-norway | The Norwegian EPD Foundation | e-mail: post@epd-norge.no |
| Global Program Operator | Post Box 5250 Majorstuen, 0303 Oslo, Norway | web: www.epd-norge.no |
| | Owner of the declaration: | Phone: (+47) 69 10 24 60 |
| PRETEC | Pretec Norge AS | e-mail: post@pretec.no |
| Let's connect | Kampenesmosen 3, 1739 Borgenhaugen | web: www.pretec.no |
| | Author of the Life Cycle Assessment | Phone: +47 916 50 916 |
| | LCA.no AS | e-mail: post@lca.no |
| | Dokka 6B, 1671 | web: www.lca.no |
| \bigcirc | Developer of EPD generator | Phone: +47 916 50 916 |
| (LCA) | LCA.no AS | e-mail: post@lca.no |
| .no | Dokka 6B,1671 Kråkerøy | web: www.lca.no |
| ECO PLATFORM | ECO Platform | web: www.eco-platform.org |
| EPD | ECO Portal | web: ECO Portal |
| VERIFIED | | |