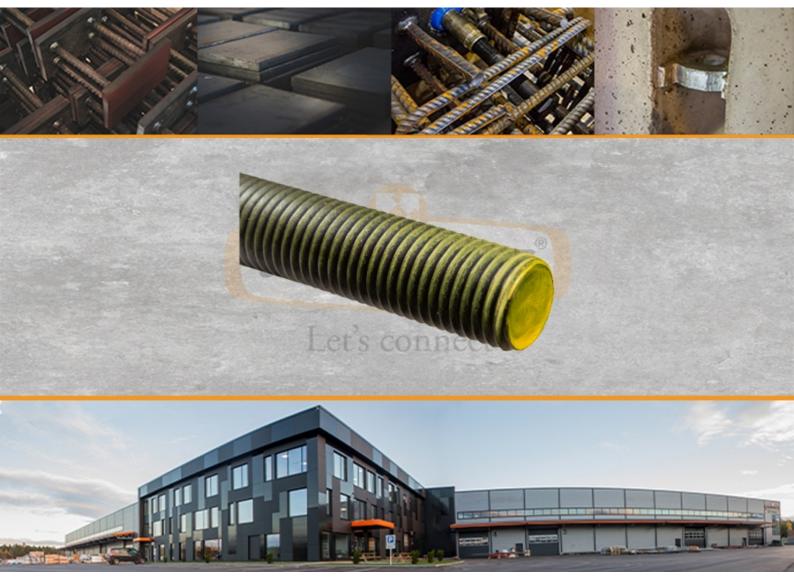


Environmental product declaration

In accordance with ISO 14025 and EN15804+A2

Fully threaded rod plain





The Norwegian EPD Foundation

Owner of the declaration:

Pretec Norge AS

Product:

Fully threaded rod plain

Declared unit:

1 kg

This declaration is based on Product Category Rules:

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

NPCR 013:2019 Part B for Steel and aluminium construction products

Program operator:

The Norwegian EPD Foundation

Declaration number:

NEPD-4827-4084

Registration number:

NEPD-4827-4084

Issue date:

11.10.2023

Valid to:

11.10.2028

EPD Software:

LCA.no EPD generator ID: 95460



General information

Product

Fully threaded rod plain

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-4827-4084

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 013:2019 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 Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Declared unit:

1 kg Fully threaded rod plain

Declared unit with option:

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

Functional unit:

1kg fully threaded rod, plain

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:

Alexander Borg, Asplan Viak AS (no signature required)

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:

11.10.2023

Valid to:

11.10.2028

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: Christine B.-Norén

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

Approved:



Product

Product description:

Fully threaded rod. Used as foundation bolt or fastening of various components. Flexible jointing with connection sleeve. Application: Project EPD

Product specification

Available in several different grades acc. to ISO 898-1 or S355J2 acc. to EN 10025-1

CE marked according to NS EN 1090-1. All rods have full traceability, 3.1 certificate acc. to EN 10204 on request.

| Materials | kg | % |
|-----------------------|------|--------|
| Metal - Steel | 1,00 | 100,00 |
| Total | 1,00 | |
| Packaging | kg | % |
| Packaging | кg | 70 |
| Packaging - Plastic | 0,00 | 8,33 |
| Packaging - Pallet | 0,01 | 91,67 |
| Total incl. packaging | 1.01 | |

Technical data:

Fully threaded rod in carbon steel with cold rolled threads. Dimensions and mechanical properties in accordance with DIN 976 and ISO 898-1 or S355J2 according to EN 10025-1.

Market:

Worldwide

Reference service life, product

Reference service life, building or construction works

LCA: Calculation rules

Declared unit:

1 kg Fully threaded rod plain

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 |
|---------------------|---------------------------------------|----------------------------|------|
| Metal - Steel | Modified ecoinvent 3.6 and WorldSteel | Database and industry data | 2021 |
| Packaging - Pallet | Modified ecoinvent 3.6 | Database | 2019 |
| Packaging - Plastic | ecoinvent 3.6 | Database | 2019 |

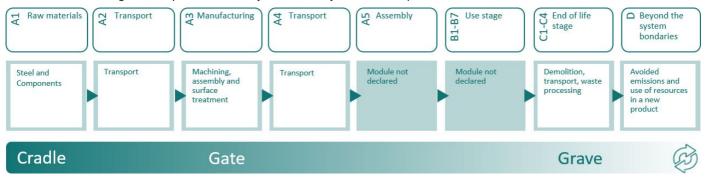


System boundaries (X=included, MND=module not declared, MNR=module not relevant)

| | P | roduct stag | je | | uction on 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 |
| A | 41 | A2 | A3 | A4 | A5 | В1 | B2 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | C3 | C4 | D |
| 2 | Χ | Х | Х | Χ | Х | MND | MND | MND | MND | MND | MND | MND | Х | Χ | Х | Χ | X |

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 % | 60 | 0,023 | l/tkm | 1,38 |
| 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, plastic, mixture, to average treatment - A5, inkl. transp. (kg) | kg/DU | 0,00 | | | |
| Waste, wood, average treatment - A5, inkl. transp. (kg) | kg/DU | 0,01 | | | |
| 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 % | 300 | 0,023 | l/tkm | 6,90 |
| Waste processing (C3) | Unit | Value | | | |
| Materials to recycling (kg) | kg | 0,90 | | | |
| Disposal (C4) | Unit | Value | | | |
| Waste, scrap steel, to landfill (kg) | kg | 0,10 | | | |
| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
| Substitution of primary steel with net scrap (kg) | kg | 0,65 | | | |



LCA: Results

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

| Enviro | Environmental impact | | | | | | | | | | | | |
|----------|----------------------------------|------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|--|--|--|
| | Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | | |
| | GWP-total | kg CO ₂ -eq | 5,00E+00 | 1,59E-01 | 7,30E-04 | 5,73E-02 | 2,61E-02 | 0,00E+00 | 4,29E-04 | -7,19E-01 | | | |
| | GWP-fossil | kg CO ₂ -eq | 4,86E+00 | 1,58E-01 | 7,29E-04 | 5,73E-02 | 2,61E-02 | 0,00E+00 | 4,28E-04 | -7,18E-01 | | | |
| | GWP-biogenic | kg CO ₂ -eq | 1,35E-01 | 6,08E-05 | 1,52E-06 | 1,07E-05 | 1,12E-05 | 0,00E+00 | 3,64E-07 | -3,96E-04 | | | |
| | GWP-luluc | kg CO ₂ -eq | 3,62E-03 | 1,44E-04 | 1,10E-07 | 4,52E-06 | 7,96E-06 | 0,00E+00 | 8,40E-08 | -3,22E-04 | | | |
| Ö | ODP | kg CFC11 -eq | 3,00E-07 | 2,87E-08 | 1,28E-10 | 1,24E-08 | 6,30E-09 | 0,00E+00 | 2,09E-10 | -2,28E-08 | | | |
| Œ | AP | mol H+ -eq | 2,30E-02 | 4,03E-03 | 6,17E-06 | 6,00E-04 | 8,41E-05 | 0,00E+00 | 4,18E-06 | -3,57E-03 | | | |
| | EP-FreshWater | kg P -eq | 2,39E-04 | 9,93E-07 | 5,00E-09 | 2,09E-07 | 2,08E-07 | 0,00E+00 | 3,20E-09 | -4,42E-05 | | | |
| | EP-Marine | kg N -eq | 4,66E-03 | 9,99E-04 | 2,74E-06 | 2,65E-04 | 1,84E-05 | 0,00E+00 | 1,57E-06 | -7,39E-04 | | | |
| - | EP-Terrestial | mol N -eq | 5,00E-02 | 1,11E-02 | 2,92E-05 | 2,90E-03 | 2,05E-04 | 0,00E+00 | 1,73E-05 | -7,55E-03 | | | |
| | POCP | kg NMVOC -eq | 1,89E-02 | 2,93E-03 | 7,85E-06 | 7,98E-04 | 8,07E-05 | 0,00E+00 | 4,94E-06 | -3,60E-03 | | | |
| | ADP-minerals&metals ¹ | kg Sb -eq | 9,15E-05 | 1,94E-06 | 5,76E-09 | 8,80E-08 | 4,66E-07 | 0,00E+00 | 3,79E-09 | -1,24E-05 | | | |
| | ADP-fossil ¹ | MJ | 5,39E+01 | 2,12E+00 | 8,67E-03 | 7,89E-01 | 4,24E-01 | 0,00E+00 | 1,38E-02 | -6,04E+00 | | | |
| <u>%</u> | WDP ¹ | m^3 | 1,18E+01 | 8,15E-01 | 7,54E-03 | 1,68E-01 | 3,25E-01 | 0,00E+00 | 2,91E-02 | 3,72E+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

Remarks to environmental impacts

[&]quot;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



| Addition | Additional environmental impact indicators | | | | | | | | | | | | |
|----------|--|-------------------|----------|----------|----------|----------|----------|----------|----------|-----------|--|--|--|
| In | dicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | | |
| | PM | Disease incidence | 3,43E-07 | 2,99E-09 | 1,29E-10 | 1,59E-08 | 2,40E-09 | 0,00E+00 | 8,90E-11 | -5,96E-08 | | | |
| | IRP ² | kgBq U235 -eq | 1,21E-01 | 9,10E-03 | 3,49E-05 | 3,38E-03 | 1,85E-03 | 0,00E+00 | 6,00E-05 | 2,58E-03 | | | |
| | ETP-fw ¹ | CTUe | 2,65E+02 | 1,42E+00 | 6,93E-03 | 4,31E-01 | 3,10E-01 | 0,00E+00 | 6,83E-03 | -4,00E+01 | | | |
| 40. | HTP-c ¹ | CTUh | 2,44E-08 | 0,00E+00 | 0,00E+00 | 1,70E-11 | 0,00E+00 | 0,00E+00 | 0,00E+00 | -3,45E-09 | | | |
| 48 | HTP-nc ¹ | CTUh | 1,77E-07 | 3,60E-10 | 2,30E-11 | 3,96E-10 | 3,00E-10 | 0,00E+00 | 4,00E-12 | 7,51E-08 | | | |
| | SQP ¹ | dimensionless | 1,81E+01 | 8,39E-01 | 3,14E-03 | 1,00E-01 | 4,87E-01 | 0,00E+00 | 5,04E-02 | -4,52E-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)

[&]quot;Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed

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

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



| Resource use | Resource use | | | | | | | | | | | | | |
|--------------|--------------|-------|----------|-----------|----------|----------|----------|----------|----------|-----------|--|--|--|--|
| | ndicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | | | | |
| i ji | PERE | МЈ | 4,55E+00 | 2,18E-02 | 1,06E-04 | 4,27E-03 | 5,34E-03 | 0,00E+00 | 2,13E-04 | -4,90E-01 | | | | |
| | PERM | MJ | 1,53E-01 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | | | | |
| ីក្ រ | PERT | МЈ | 4,70E+00 | 2,18E-02 | 1,06E-04 | 4,27E-03 | 5,34E-03 | 0,00E+00 | 2,13E-04 | -4,90E-01 | | | | |
| | PENRE | МЈ | 5,39E+01 | 2,12E+00 | 8,67E-03 | 7,89E-01 | 4,24E-01 | 0,00E+00 | 1,38E-02 | -6,04E+00 | | | | |
| el. | PENRM | МЈ | 4,25E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | | | | |
| I | PENRT | МЈ | 5,39E+01 | 2,12E+00 | 8,67E-03 | 7,89E-01 | 4,24E-01 | 0,00E+00 | 1,38E-02 | -6,04E+00 | | | | |
| | SM | kg | 2,48E-01 | 0,00E+00 | 0,00E+00 | 3,87E-04 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | | | | |
| 2 | RSF | МЈ | 3,41E-02 | 6,19E-04 | 2,95E-06 | 1,05E-04 | 1,87E-04 | 0,00E+00 | 4,39E-06 | 2,59E-02 | | | | |
| | NRSF | МЈ | 2,16E+00 | -4,19E-03 | 3,38E-05 | 1,54E-03 | 6,26E-04 | 0,00E+00 | 1,26E-05 | 7,55E-01 | | | | |
| <u>%</u> | FW | m^3 | 3,38E-02 | 1,82E-04 | 2,96E-06 | 4,06E-05 | 4,83E-05 | 0,00E+00 | 1,65E-05 | -1,51E-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 resources used as raw materials; PENRM = Use of non renewable primary energy resources; SM = Use of secondary materials; PENRM = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

[&]quot;Reading example: 9,0 E-03 = 9,0*10-3 = 0,009" *INA Indicator Not Assessed



| т | , | | | |
|-----|------|----|----|-----|
| - 1 | et's | CO | nn | ect |
| | | | | |

| End of life - Wa | ste | | | | | | | | | |
|------------------|---------|------|----------|----------|----------|----------|----------|----------|----------|-----------|
| In | dicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| | HWD | kg | 2,27E-02 | 1,16E-04 | 1,43E-07 | 2,32E-05 | 2,32E-05 | 0,00E+00 | 0,00E+00 | -3,73E-03 |
| Ū | NHWD | kg | 1,30E+00 | 4,97E-02 | 1,20E-02 | 9,34E-04 | 3,69E-02 | 0,00E+00 | 1,00E-01 | -2,94E-01 |
| 8 | RWD | kg | 1,17E-04 | 1,45E-05 | 3,38E-08 | 5,48E-06 | 2,90E-06 | 0,00E+00 | 0,00E+00 | 1,98E-06 |

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

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

| End of life - Outpu | ıt flow | | | | | | | | | |
|---------------------|---------|------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicat | tor | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| ∅ D | CRU | kg | 0,00E+00 |
| \$>> | MFR | kg | 2,45E-01 | 0,00E+00 | 5,11E-04 | 3,80E-04 | 0,00E+00 | 9,00E-01 | 0,00E+00 | 0,00E+00 |
| DF | MER | kg | 2,72E-04 | 0,00E+00 | 1,10E-02 | 1,18E-06 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| 50 | EEE | MJ | 1,16E-03 | 0,00E+00 | 7,65E-03 | 4,04E-06 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| D | EET | MJ | 1,76E-02 | 0,00E+00 | 1,16E-01 | 6,12E-05 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |

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

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

| Biogenic Carbon Content | | | | | | | | | | |
|-------------------------|---------------------|--|--|--|--|--|--|--|--|--|
| Unit | At the factory gate | | | | | | | | | |
| kg C | 0,00E+00 | | | | | | | | | |
| kg C | 4,55E-03 | | | | | | | | | |
| | kg C | | | | | | | | | |

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-eg/kWh |

Dangerous substances

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

Indoor environment

The product has no effect on indoor climate.

Additional Environmental Information

| Additional environmental impact indicators required in NPCR Part A for construction products | | | | | | | | | |
|--|------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Indicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| GWPIOBC | kg CO ₂ -eq | 4,98E+00 | 1,59E-01 | 7,29E-04 | 5,67E-02 | 2,61E-02 | 0,00E+00 | 0,00E+00 | -1,08E+00 |

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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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.

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| | Owner of the declaration: | Phone: (+47) 69 10 24 60 |
| PRETEC* Let's connect | Pretec Norge AS | e-mail: post@pretec.no |
| | Kampenesmosen 3, 1739 Borgenhaugen | web: www.pretec.no |
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| | Dokka 6B, 1671 | web: www.lca.no |
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| (LCA) | LCA.no AS | e-mail: post@lca.no |
| | Dokka 6B,1671 Kråkerøy | web: www.lca.no |
| ECO PLATFORM | ECO Platform | web: www.eco-platform.org |
| VERIFIED | ECO Portal | web: ECO Portal |