



Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

Red Temperate





Tre inn i fremtiden

The Norwegian EPD Foundation

Owner of the declaration:

Fritzøe Engros AS

Product:

Red Temperate

Declared unit:

1 m3

This declaration is based on Product Category Rules:

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

NPCR 010:2022 Part B for building boards

Program operator:

The Norwegian EPD Foundation

Declaration number:

NEPD-8647-8310

Registration number:

NEPD-8647-8310

Issue date: 08.01.2025

Valid to: 08.01.2030

ver-040225

EPD software:

LCAno EPD generator ID: 518787



General information

Product

Red Temperate

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway

Phone: +47 977 22 020 web: www.epd-norge.no

Declaration number:

NEPD-8647-8310

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR NPCR 010:2022 Part B for building boards

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 m3 Red Temperate

Declared unit with option:

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

Functional unit:

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. 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:

Elisabet Amat, GREENIZE projects

(no signature required)

Owner of the declaration:

Fritzøe Engros AS Contact person: Jarle Anholt

Phone: +47 331 364 00

e-mail: engros@fritzoeengros.no

Manufacturer:

Fritzøe Engros AS

Place of production:

Fritzøe Engros AS Øya 40 3262 Larvik, Norway

Management system:

Miljøfyrtårn, FSC og PEFC

Organisation no:

979 778 341

Issue date:

08.01.2025

Valid to:

08.01.2030

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: Terje Olsen

Reviewer of company-specific input data and EPD: Jarle Anholt

Håkon Hauan

Managing Director of EPD-Norway

Product

Product description:

Red Temperate is produced from sustainable materials for permanent use in buildings and infrastructure. The panels are suitable for several different areas of use within construction and areas of use, such as internal wall panels and external, but then as built into the construction.

Product specification

| Materials | kg | % |
|-------------------|--------|--------|
| Adhesive | 116,00 | 20,10 |
| Wood - Veneer | 461,00 | 79,90 |
| Total | 577,00 | 100,00 |
| | | |
| Packaging | kg | % |
| r delituginig | g | 70 |
| Packaging - Metal | 1,00 | 3,57 |
| | | · |
| Packaging - Metal | 1,00 | 3,57 |

Technical data:

Red Temperate plywood are marked with CE-marking containing unambiguous code of Declaration of Performance, i.e. 2010-CPR-090822

| Thickness (mm) | Length (mm) | Width (mm) | Volume (m3) |
|----------------|-------------|------------|-------------|
| 4 | 2440 | 1220 | 0,0119072 |
| 6 | 2440 | 1220 | 0,0178608 |
| 9 | 2440 | 1220 | 0,0267912 |
| 12 | 2440 | 1220 | 0,0357216 |
| 15 | 2440 | 1220 | 0,044652 |
| 18 | 2440 | 1220 | 0,0535824 |
| 22 | 2440 | 1220 | 0.0654896 |

Market:

Nordic countries.

Reference service life, product

30 years

Reference service life, building or construction works

Not Declared.

LCA: Calculation rules

Declared unit:

1 m3 Red Temperate

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 when specific information are missing. 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 - Paper | ecoinvent 3.6 | Database | 2019 |
| Adhesive | ecoinvent 3.9.1 | Database | 2021 |
| Wood - Veneer | Modified ecoinvent 3.6 | Database | 2019 |
| Packaging - Wood | ecoinvent 3.6 | Database | 2019 |
| Packaging - Metal | ecoinvent 3.6 | Database | 2019 |



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

| | Product stag | ge | | ruction ion stage | | | | Use stage | | | | | End of I | 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 | В3 | B4 | B5 | В6 | В7 | C1 | C2 | C3 | C4 | D |
| X | X | Χ | Χ | Х | MND | MND | MND | MND | MND | MND | MND | Χ | Χ | Х | Χ | X |

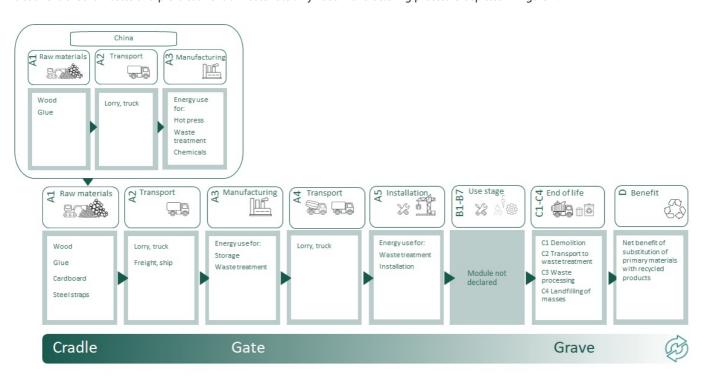
System boundary:

Figure 1. System diagram.

Module A1 includes the production of raw materials and energy used in the manufacturing of the plywood products. Popular logs are sourced from China and Eucalyptus is sourced from Uruguay according to mill locations.

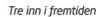
Module A2 comprises of transportation processes up to the plywood mill gates. Most of the materials are shipped to the mills by road and few materials are also shipped by sea.

Module A3 includes the direct emissions of the manufacturing processes at the plywood mills, production of auxiliary and packaging materials, treatment of solid wastes and pre-treatment of wastewater. Plywood manufacturing process is depicted in Figure 1.



Additional technical information:

Certification and environmental information: FSC-STD-40-004 V3-1; FSC-STD-50-001 V2-0 Miljøfyrtårn-10745





LCA: Scenarios and additional technical information

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

A5: manual instalment, so no energy inputs have been included.

 $\hbox{C2: generic transport for Norwegian market between building site and waste treatment.}\\$

| Transport from production place to user (A4) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
|--|--|---|-------------------------|-------|------------------------|
| Truck, 16-32 tonnes, EURO 6 (km) - Europe | 36,7 % | 300 | 0,043 | l/tkm | 12,90 |
| Assembly (A5) | Unit | Value | | | |
| Product waste during installation (DU) | Units/DU | 0,050 | | | |
| Waste, metal, to average treatment (kg) | kg | 1,0000000000000000000 | | | |
| Waste, packaging, pallet, to average treatment (kg) | kg | 25,0000000000000000000 | | | |
| Waste, packaging, paper, to average treatment (kg) | kg | 2,0000000000000000000000000000000000000 | | | |
| De-construction demolition (C1) | Unit | Value | | | |
| Demolition of building per kg of building board (kg) | MJ/DU | 577,000000000 | | | |
| Transport to waste processing (C2) | Capacity utilisation (incl. return) % | Distance (km) | Fuel/Energy Consumption | Unit | Value (Liter/tonne) |
| Truck, 16-32 tonnes, EURO 6 (km) - Europe | 36,7 % | 85 | 0,043 | l/tkm | 3,66 |
| Waste processing (C3) | Unit | Value | | | |
| Waste treatment per kg Hazardous waste, incineration (kg) | kg | 116,0000000000000000000 | | | |
| Waste treatment per kg Wood, incineration with fly ash extraction (kg) | kg | 461,00000000000000000000 | | | |
| Disposal (C4) | Unit | Value | | | |
| Landfilling of ashes from incineration of Hazardous waste, from incineration (kg) | kg | 21,92 | | | |
| Landfilling of ashes from incineration of Wood, process per kg ashes and residues (kg) | kg | 5,30 | | | |
| Benefits and loads beyond the system boundaries (D) | Unit | Value | | | |
| Substitution of electricity (MJ) | MJ | 338,099 | | | |
| Substitution of thermal energy, district heating (MJ) | MJ | 5115,11 | | | |



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 |
| | GWP-total | kg CO ₂ -eq | -3,94E+01 | 2,97E+01 | 8,67E+01 | 1,90E+00 | 8,41E+00 | 1,03E+03 | 9,81E+00 | -3,07E+01 |
| | GWP-fossil | kg CO ₂ -eq | 7,57E+02 | 2,96E+01 | 4,68E+01 | 1,90E+00 | 8,40E+00 | 2,63E+02 | 9,81E+00 | -2,97E+01 |
| | GWP-biogenic | kg CO ₂ -eq | -7,98E+02 | 1,23E-02 | 3,99E+01 | 3,56E-04 | 3,48E-03 | 7,69E+02 | 3,92E-03 | -6,12E-02 |
| | GWP-luluc | kg CO ₂ -eq | 1,42E+00 | 1,06E-02 | 2,00E-02 | 1,49E-04 | 2,99E-03 | 6,58E-02 | 9,59E-04 | -1,02E+00 |
| Ö | ODP | kg CFC11 -eq | 7,16E-05 | 6,72E-06 | -1,08E-01 | 4,10E-07 | 1,90E-06 | 2,99E-05 | 4,91E-07 | -2,16E+00 |
| Œ | АР | mol H+ -eq | 8,09E+00 | 8,52E-02 | 2,35E-01 | 1,98E-02 | 2,41E-02 | 4,50E-01 | 1,98E-02 | -2,44E-01 |
| | EP-FreshWater | kg P -eq | 1,04E-01 | 2,37E-04 | 5,37E-03 | 6,91E-06 | 6,71E-05 | 6,27E-03 | 9,58E-05 | -2,64E-03 |
| | EP-Marine | kg N -eq | 1,96E+00 | 1,69E-02 | 5,61E-02 | 8,76E-03 | 4,78E-03 | 1,13E-01 | 5,19E-03 | -7,99E-02 |
| * | EP-Terrestial | mol N -eq | 2,25E+01 | 1,89E-01 | 6,62E-01 | 9,61E-02 | 5,34E-02 | 1,25E+00 | 6,07E-02 | -8,64E-01 |
| | POCP | kg NMVOC -eq | 5,81E+00 | 7,22E-02 | 1,72E-01 | 2,64E-02 | 2,05E-02 | 3,37E-01 | 1,69E-02 | -2,38E-01 |
| | ADP-minerals&metals ¹ | kg Sb-eq | 1,30E-02 | 8,19E-04 | 7,04E-04 | 2,91E-06 | 2,32E-04 | 9,21E-04 | 1,77E-05 | -2,95E-04 |
| A | ADP-fossil ¹ | MJ | 1,05E+04 | 4,48E+02 | 5,23E+02 | 2,61E+01 | 1,27E+02 | 1,12E+03 | 4,69E+01 | -4,24E+02 |
| <u>%</u> | WDP ¹ | m ³ | 3,70E+03 | 4,34E+02 | 1,92E+02 | 5,55E+00 | 1,23E+02 | 4,11E+03 | 1,17E+03 | -5,28E+03 |

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 | litional environmental impact indicators | | | | | | | | | | |
|-------------|--|-------------------|----------|----------|----------|----------|----------|----------|----------|-----------|--|
| In | dicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D | |
| | PM | Disease incidence | 1,88E-04 | 1,82E-06 | 9,21E-06 | 5,25E-07 | 5,14E-07 | 6,55E-06 | 1,39E-07 | -1,48E-05 | |
| | IRP ² | kgBq U235 -eq | 2,88E+01 | 1,96E+00 | 1,40E+00 | 1,12E-01 | 5,55E-01 | 5,00E+00 | 2,59E-01 | -2,71E+00 | |
| | ETP-fw ¹ | CTUe | 2,36E+04 | 3,32E+02 | 1,32E+03 | 1,43E+01 | 9,41E+01 | 5,32E+03 | 1,34E+02 | -2,31E+03 | |
| 45. *** | HTP-c ¹ | CTUh | 1,00E-06 | 0,00E+00 | 6,25E-08 | 5,77E-10 | 0,00E+00 | 2,63E-07 | 7,14E-09 | -4,22E-08 | |
| 48 <u>D</u> | HTP-nc ¹ | CTUh | 9,34E-06 | 3,63E-07 | 5,57E-07 | 1,33E-08 | 1,03E-07 | 2,30E-06 | 2,62E-07 | -2,21E-06 | |
| | SQP ¹ | dimensionless | 1,57E+05 | 3,14E+02 | 7,77E+03 | 3,31E+00 | 8,88E+01 | 4,32E+02 | 1,34E+02 | -2,84E+03 | |

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 | | | | | | | | | | |
|--------------|---------|----------------|----------|----------|-----------|----------|----------|-----------|----------|-----------|
| | dicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| Ç. | PERE | MJ | 2,08E+04 | 6,42E+00 | 9,17E+02 | 1,41E-01 | 1,82E+00 | 1,96E+02 | 5,61E+00 | -2,62E+03 |
| | PERM | МЈ | 6,82E+03 | 0,00E+00 | -3,56E+02 | 0,00E+00 | 0,00E+00 | -6,45E+03 | 0,00E+00 | 0,00E+00 |
| ₽, | PERT | МЈ | 2,76E+04 | 6,42E+00 | 5,61E+02 | 1,41E-01 | 1,82E+00 | -6,25E+03 | 5,61E+00 | -2,62E+03 |
| | PENRE | МЈ | 1,05E+04 | 4,48E+02 | 5,24E+02 | 2,61E+01 | 1,27E+02 | 1,12E+03 | 4,69E+01 | -4,24E+02 |
| el. | PENRM | МЈ | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| IA. | PENRT | МЈ | 1,05E+04 | 4,48E+02 | 5,24E+02 | 2,61E+01 | 1,27E+02 | 1,12E+03 | 4,69E+01 | -4,24E+02 |
| | SM | kg | 6,53E-01 | 0,00E+00 | 3,27E-02 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| 2 | RSF | МЈ | 3,82E+00 | 2,30E-01 | 3,96E-01 | 3,47E-03 | 6,50E-02 | 4,33E+00 | 1,03E-01 | -4,59E-01 |
| | NRSF | МЈ | 4,32E+00 | 8,21E-01 | -7,48E+00 | 5,11E-02 | 2,33E-01 | 0,00E+00 | 2,62E+00 | -1,55E+02 |
| % | FW | m ³ | 1,34E+01 | 4,79E-02 | 5,64E-01 | 1,34E-03 | 1,36E-02 | 1,09E+00 | 8,15E-02 | -3,15E+00 |

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; SM = Use of secondary materials; RSF = 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



| End of life - Was | ste | | | | | | | | | |
|-------------------|---------|------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Inc | dicator | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| ā | HWD | kg | 6,42E+00 | 2,31E-02 | 5,09E-01 | 7,68E-04 | 6,55E-03 | 0,00E+00 | 3,85E+00 | -1,99E-02 |
| Ū | NHWD | kg | 8,99E+01 | 2,18E+01 | 4,02E+01 | 3,09E-02 | 6,18E+00 | 1,16E+02 | 2,34E+01 | -1,00E+01 |
| 8 | RWD | kg | 2,81E-02 | 3,05E-03 | 9,71E-04 | 1,81E-04 | 8,65E-04 | 0,00E+00 | 1,11E-05 | -2,22E-03 |

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 | End of life - Output flow | | | | | | | | | |
|---------------------|---------------------------|------|----------|----------|----------|----------|----------|----------|----------|----------|
| Indicat | tor | Unit | A1-A3 | A4 | A5 | C1 | C2 | C3 | C4 | D |
| ∅ | CRU | kg | 0,00E+00 |
| \$>> | MFR | kg | 3,47E+00 | 0,00E+00 | 3,02E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 | 0,00E+00 |
| DF | MER | kg | 9,65E+00 | 0,00E+00 | 5,42E+01 | 0,00E+00 | 0,00E+00 | 5,77E+02 | 0,00E+00 | 0,00E+00 |
| 50 | EEE | MJ | 6,33E+00 | 0,00E+00 | 3,37E+01 | 0,00E+00 | 0,00E+00 | 3,21E+02 | 0,00E+00 | 0,00E+00 |
| DØ. | EET | MJ | 9,57E+01 | 0,00E+00 | 5,10E+02 | 0,00E+00 | 0,00E+00 | 4,85E+03 | 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 | 2,10E+02 | | | | | | | | | |
| kg C | 1,13E+01 | | | | | | | | | |
| | 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 | Source | Amount | Unit |
|---------------------------|---------------|--------|--------------|
| Electricity, Norway (kWh) | ecoinvent 3.6 | 24,33 | g CO2-eq/kWh |

Dangerous substances

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

Indoor environment

The product has no influence on the indoor climate. No tests have been conducted.

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 | 7,68E+02 | 2,97E+01 | 4,73E+01 | 1,88E+00 | 8,41E+00 | 2,63E+02 | 9,82E+00 | -3,03E+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

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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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Iversen et al., (2021) eEPD v2021.09 Background information for EPD generator tool system verification, LCA.no Report number: 07.21 Vold, M. et al. (2022) EPD generator for Building boards

Background information for EPD generator application and LCA data, LCA.no report number 05.22

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

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| VERIFIED | ECO Portal | web: | ECO Portal |