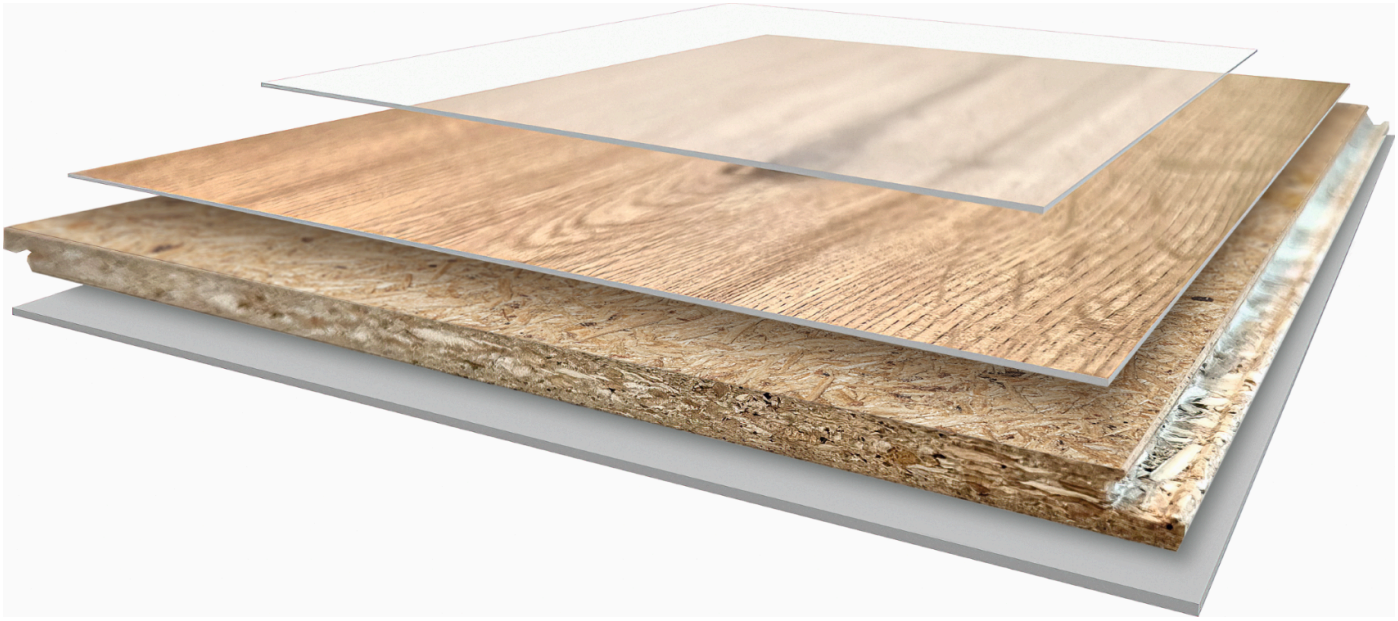
epd-global
Powered by EPD-Norway

ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 and EN 15804+A2

SWISS KRONO AG
Artureon Design Norma



SWISS KRONO

Owner of the declaration
SWISS KRONO AG
37 Willisauerstrasse
6122 Menznau
Switzerland

Product
Artureon Design Norma

Declared product / Declared unit
1 m^2 of floor covering (EN ISO 10874 class 32)

This declaration is based on Product Category Rules
EN 15804:2012 + A2:2019,
NPCR Part A:2021 ,
EN 16810:2024

Program operator:
EPD Global
Majorstuen P.O. Box 5250
N-0303 Oslo
Norway

Declaration number
NEPD-12479-12479-2

Registration number
NEPD-12479-12479-2

Issue date
16.10.2026

Valid to
15.10.2031

EPD Software
Emidat Platform v1.0.0

General Information

Product
Artureon Design Norma

Program Operator
EPD Global
Majorstuen P.O. Box 5250
N-0303 Oslo
Norway
Phone: +47 23 08 80 00
Email: post@epd-norge.no

Declaration Number
NEPD-12479-12479-2

This declaration is based on Product Category Rules
EN 15804:2012 + A2:2019,
NPCR Part A:2021 ,
EN 16810:2024

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

Declared unit
1 m^2 of floor covering (EN ISO 10874 class 32) with a reference service life of 1 year

General information on verification of EPD from EPD tools
Independent verification of data, other environmental information and the declaration according to ISO 14025:2011-10, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD Global's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD Global, and iii) the process is reviewed annually by an independent third-party verifier. See Appendix G of EPD Global's General Programme Instructions for further information on EPD tools.

Verification
Independent third-party verification based on the verification of the EPD tool, background data and test-EPD in accordance with EPD Global's procedures and guidelines for verification and approval of EPD tools.
Third-party verifier: Lucas Pedro Berman, Senda Consultorias

Owner of the declaration
SWISS KRONO AG

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Phone
+41414949494

Email
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Manufacturer
SWISS KRONO AG
37 Willisauerstrasse
6122 Menznau, Switzerland

Place of production
Menznau, Switzerland

Management system
-

Issue date
16.10.2026

Valid to
15.10.2031

Year of study
2025

Comparability
EPDs of construction products may not be comparable if they do not comply with EN 15804 and are not seen in a building context. EPD data may not be comparable if the datasets used are not developed in accordance with EN 15804 and if the background systems are not based on the same database (including primary and secondary data).

Development and verification of EPD
The declaration was created using the Emidat EPD tool v1.0, developed by Emidat GmbH which is third-party verified and approved as a Reference Flow Tool with internal review under administration and surveillance by EPD Global under provisions stated in general information on verification of EPD from EPD tools.

Developer of EPD: Maximilian Matt
Reviewer of company-specific input data and EPD: Gunnar Thielecke

Approved

Håkon Hauan, The Norwegian EPD Foundation

Product

Product description

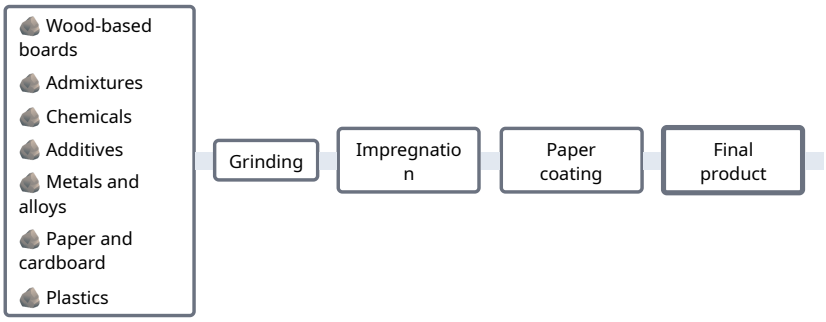
Artureon Design floors are engineered wood products made with wood chips. The artureon products are made with wood from sustainably managed Swiss forests. We use about 30% recycled wood to create a product that is not only beautiful to look at, but also respects and protects nature. Artureon products are fully recyclable. This means that new wood products are created when it is returned. Artureon floor are made out of natural raw materials and free of PVC and Phthalates.

No packaging was included for the modeled product.

Application description

The floors are also characterized by their highest abrasion resistance (Class 33) and are 100% waterproof, making them a long-lasting and hard-wearing choice for your home for use in children's rooms, bathrooms, kitchens or commercial areas.

Production process



Upstream production processes



Product specification

Name of ingredient	Share of total weight
Additives	0 - 2 %
Admixtures	0 - 2 %
Chemicals	2 - 10 %
Metals and alloys	0 - 2 %
Paper and cardboard	2 - 10 %
Plastics	0 - 2 %
Wood-based boards	90 - 100 %

Technical data

	Unit	Value
Mass	kg	7.476
Density	kg / m³	994.096
Thickness of the element	mm	8
Length of surface layer	mm	1380
Width of surface layer	mm	193
Thickness of the core	mm	7.4
Classification (acc. EN ISO 10874)	-	32 - Commercial, general

Market

Switzerland

Recipients

B2B

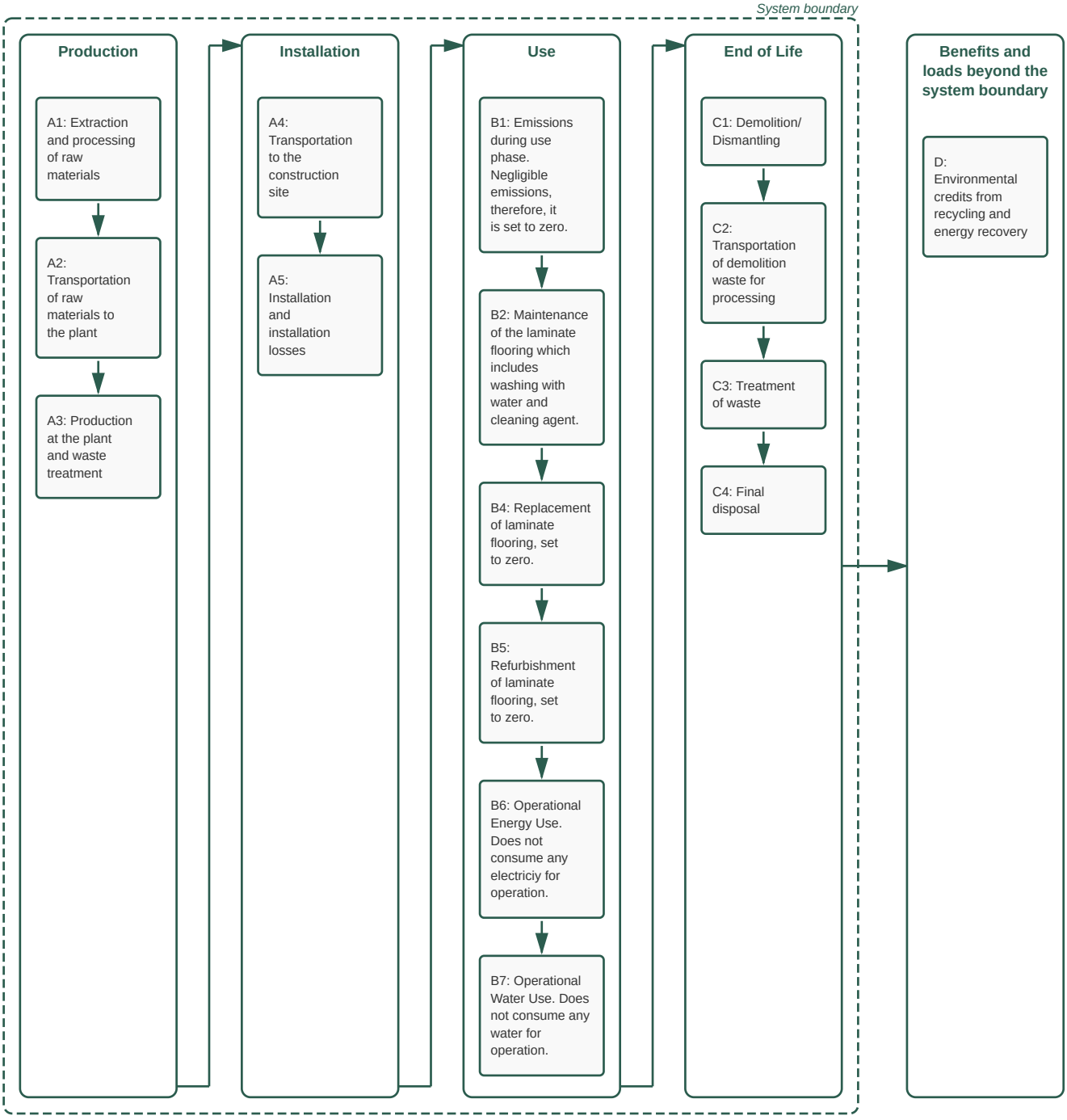
LCA: Calculation rules

Declared unit
1 m² of floor covering (EN ISO 10874 class 32)

Product lifetime
Not declared

Reference service life
1 year

System boundary



Data quality

The foreground data are based on extensive and detailed data collection at the production site of the manufacturer, covering key processes such as raw material sourcing, formulation, and manufacturing. These foreground data are fully linked with corresponding datasets from the background database (ecoinvent 3.10) or with EN15804+A2-compliant EPDs, ensuring consistency, reliability, and maintaining alignment with the latest industry standards.

The overall data representativeness is rated as good with an overall score of 4.00/5, in accordance with EN 15804+A2 Annex E guidance on data quality assessment for the calculation of the environmental footprint of products (Table E.2), considering geographical, technical, and temporal representativeness.

The following table discloses all processes or activities assessed with very poor or poor data representativeness according to EN 15804+A2, as well as those assessed as fair that contribute more than 30 % to any core impact indicator in A1–A3:

Element	Source	Year
Chemicals	ecoinvent 3.10	2023
Additives	ecoinvent 3.10	2023
Chemical	ecoinvent 3.10	2023
Chemicals	ecoinvent 3.10	2023
For grinding	ecoinvent 3.10	2023
For wood	ecoinvent 3.10	2023
Incineration	ecoinvent 3.10	2023
Landfill	ecoinvent 3.10	2023
Manufacturing fuels	ecoinvent 3.10	2023
Packaging	ecoinvent 3.10	2023
Paper and cardboard	ecoinvent 3.10	2023
Water	ecoinvent 3.10	2023
Wood	ecoinvent 3.10	2023

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

	Production			Installation		Use stage						End-of-Life				Next product system
	Raw material supply	Transport	Manufacturing	Transport	Installation Process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational Energy Use	Operational Water Use	Demolition	Transport	Waste Processing	Disposal	Benefits and loads beyond the system boundary
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	x	x	MND	x	x	x	x	x	x	x	x	x
Geography			CH	CH	CH	CH	CH	MND	CH	CH	CH	CH	CH	CH	CH	CH	CH

For the geographies modeled in A1 and A2, refer to *Product specification*.

Type of EPD: Cradle to gate with options, modules A4, A5, B1, B2, B4, B5, B6, B7, C1-C4 + D

Stage of Material Production and Construction

Module A1: Extraction and processing of raw materials

Module A2: Transportation of raw materials to the plant

Module A3: Production at the plant and waste treatment
Module A4: Transportation to the construction site
Module A5: Installation and installation losses
Use Stage
Module B1: Emissions during use phase. Negligible emissions, therefore, it is set to zero.
Module B2: Maintenance of the laminate flooring which includes washing with water and cleaning agent.
Module B4: Replacement of laminate flooring, set to zero.
Module B5: Refurbishment of laminate flooring, set to zero.
Module B6: Operational Energy Use. Does not consume any electriciy for operation.
Module B7: Operational Water Use. Does not consume any water for operation.
Disposal Stage
Module C1: Demolition/Dismantling
Module C2: Transportation of demolition waste for processing
Module C3: Treatment of waste
Module C4: Final disposal
Credits and burdens outside the system boundaries
Module D: Environmental credits from recycling and energy recovery

Cut-off criteria

All inputs and outputs related to the declared modules of Laminate flooring, including raw materials, packaging, transportation, energy usage and ancillary materials, were comprehensively considered in line with EN 15804+A2 and if applicable the product-specific PCR. Furthermore, all known hazardous substances (within the REACH list and the Norwegian Priority List), regulated materials, and significant emissions were declared and are not excluded under the cut-off rules.

The following processes are considered below the EN 15804+A2 cut-off threshold and were excluded:

- Impacts related to the manufacturer's infrastructure and assets
- Manufacturing of means of production, buildings or other capital goods
- Transportation of personnel to the plant
- Transportation of personnel within the plant
- Research and development activities
- Long-term emissions

Allocation

Foreground inventory data (energy and fuels, ancillary materials, emissions and waste) was collected at the production process level. Allocation based on mass was applied to allocate the total output of the production process in 2025 to the reference product.

Key assumptions and estimates

Production process flows are allocated to the reference product, as described under allocation. The mass-based allocation assumes a uniform distribution of production impacts across co-products. Foreground inventory data is checked for consistency of production process, to ensure the validity of the allocated results.

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD. Mass and energy flows are reported per 1 m^2 of product.

Transport to the building site (A4)	Value	Unit
Location of the production site	Switzerland	
Location of the installation site	Switzerland	
Transported mass	7.48	kg
Transport modality: Truck	transport, freight, lorry >32 metric ton, EURO6	-
Distance	300.00	km
Litres of fuel	36.48	l / 100km
Energy demand	1.58	MJ / t*km
Energy demand (km)	0.01	MJ / km
Capacity utilization	53.30	%

Transport of the product and its packaging from the production site to the installation site. Transport distances are based on external sources such as reported market averages, standards or PCRs. Vehicle type, fuel consumption and capacity utilization assumptions stem from the underlying background transport datasets and are stated below.

Installation into the building (A5)	Value	Unit
Ancillary materials for installation	0	kg
Water use during installation	0	m^3
Use of other resources during installation	0	kg
Energy consumption during installation	0	kWh
Material waste on the construction site before waste processing		
Installation loss	3.00	%
Installation loss	0.22	kg
Direct emissions to ambient air, soil and water	0	kg
Treatment of installation loss waste		
Incineration	100.00	%

Installation losses are accounted for by scaling up the quantity of product required at the construction site by the loss percentage. The production, transportation and treatment of the lost material is assigned to A5. As installation is carried out manually, no installation energy use is included in module A5.

Maintenance (B2)	Value	Unit
Cleaning and maintenance process	Dry cleaning (vacuuming) and wet cleaning	-
Cleaning and maintenance cycle		
Regular vacuum cleaning	208.00	1 / a
Wet cleaning	8.00	1 / a
Ancillary materials for cleaning and maintenance		
Detergent	0.10	kg / (m^2·a)
Net fresh water consumption during cleaning and maintenance	0.01	m^3 / (m^2·a)
Waste material from cleaning and maintenance		
Waste water treatment	12.70	kg / (m^2·a)
Energy input during cleaning and maintenance		
Electricity	0.30	kWh / (m^2·a)

The maintenance scenario comprises regular dry cleaning (vacuuming) and periodic wet cleaning with water and detergent.

End-of-life scenario (C1-C4)	Value	Unit
Collection process specified by type		
Collected individually	0	kg
Collected with mixed construction and demolition waste	7.48	kg
Recovery system specified by type		
Destined for reuse	0	kg
Recycling rate	46.00	%
Destined for recycling	3.44	kg
Destined for energy recovery	3.99	kg
Disposal specified by type		
Product or material destined for final disposal	0.04	kg
Transport		
Distance to incineration	50.00	km
Distance to landfill	50.00	km
Distance to recycling	50.00	km
Transport modality: Truck	transport, freight, lorry >32 metric ton, EURO6	-
Energy demand	1.58	MJ / t*km
Energy demand (km)	0.01	MJ / km
Capacity utilization	53.30	%

For the manual deconstruction of the product, no environmental impact is modeled. Module C2 includes the impact of transportation of material after deconstruction, during the End-of-Life stage.

Reuse, recovery and/or recycling potentials (D)	Value	Unit
Amount of secondary material that the system takes in	0.36	kg
Installation (packaging): Net flow of secondary material	0	kg
End-of-life (product): Material for recycling/reuse	3.44	kg
End-of-life (product): Net flow of secondary material	3.08	kg
Substitution of wood chips	3.08	kg
Installation (packaging): Material eligible for incineration credits	0	kg
Installation (packaging): Exported energy eligible for credits	0	MJ
Installation (production loss): Material eligible for incineration credits	0.21	kg
Installation (production loss): Exported energy eligible for credits	1.44	MJ
End-of-life (product): Material eligible for incineration credits	3.81	kg
End-of-life (product): Exported energy eligible for credits	26.11	MJ
Substitution of electricity production, grid mix	7.81	MJ
Substitution of heat production from natural gas	19.73	MJ

Calculation of loads and benefits per EN 15804+A2. Exported energy is credited only where it originates from the incineration of primary material; landfilled fractions receive no exported-energy credit and therefore no avoided primary energy consumption. Recycling or reuse benefits are credited for the net flow of secondary material.

LCA: Results

Core environmental impact indicators

Indicator	Unit	A1-A3	A4	A5	B1	B2	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO_2-eq.	-1.24 e+00	2.32 e-01	2.49 e-01	0.00 e+00	3.79 e-01	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	3.87 e-02	9.22 e+00	5.54 e-02	-1.55 e+00
GWP-fossil	kg CO_2-eq.	7.58 e+00	2.32 e-01	2.39 e-01	0.00 e+00	3.49 e-01	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	3.87 e-02	1.21 e-01	4.68 e-04	-1.52 e+00
GWP-biogenic	kg CO_2-eq.	-8.84 e+00	1.17 e-04	9.23 e-03	0.00 e+00	4.78 e-03	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	1.94 e-05	9.10 e+00	5.49 e-02	-3.43 e-02
GWP-luluc	kg CO_2-eq.	1.71 e-02	8.25 e-05	5.15 e-04	0.00 e+00	2.58 e-02	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	1.37 e-05	9.87 e-05	8.90 e-08	-1.36 e-03
ODP	kg CFC-11-Eq	4.26 e-07	4.84 e-09	1.30 e-08	0.00 e+00	8.63 e-09	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	8.07 e-10	1.79 e-09	1.50 e-11	-3.08 e-08
AP	mol H+-Eq	3.92 e-02	5.49 e-04	1.23 e-03	0.00 e+00	2.43 e-03	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	9.14 e-05	9.28 e-04	2.93 e-06	-1.30 e-03
EP-freshwater	kg P-Eq	1.87 e-03	1.63 e-05	5.81 e-05	0.00 e+00	1.36 e-04	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	2.72 e-06	5.02 e-05	3.64 e-07	-4.19 e-05
EP-marine	kg N-Eq	8.01 e-03	1.44 e-04	2.65 e-04	0.00 e+00	9.29 e-04	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	2.40 e-05	4.27 e-04	1.63 e-05	-4.19 e-04
EP-terrestrial	mol N-Eq	1.08 e-01	1.56 e-03	3.47 e-03	0.00 e+00	5.08 e-03	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	2.59 e-04	4.17 e-03	1.34 e-05	-4.29 e-03
POCP	kg NMVOC-Eq	3.89 e-02	9.52 e-04	1.25 e-03	0.00 e+00	1.53 e-03	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	1.59 e-04	1.13 e-03	6.05 e-06	-3.57 e-03
ADPE	kg Sb-Eq	8.00 e-05	6.64 e-07	2.43 e-06	0.00 e+00	5.70 e-06	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	1.11 e-07	3.03 e-07	1.01 e-09	-1.76 e-06
ADPF	MJ, net calorific value	1.84 e+02	3.49 e+00	5.66 e+00	0.00 e+00	6.40 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	5.81 e-01	1.60 e+00	1.05 e-02	-2.97 e+01
WDP	m^3 world Eq deprived	1.06 e+01	1.75 e-02	3.26 e-01	0.00 e+00	5.79 e-01	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	2.92 e-03	1.47 e-01	6.67 e-05	-1.07 e+00

GWP-total: Global Warming Potential - total , **GWP-fossil**: Global warming potential - fossil , **GWP-biogenic**: Global Warming Potential - biogenic , **GWP-luluc**: Global Warming Potential - luluc , **ODP**: Depletion potential of the stratospheric ozone layer , **AP**: Acidification potential, Accumulated Exceedance , **EP-freshwater**: Eutrophication potential - freshwater , **EP-marine**: Eutrophication potential - marine , **EP-terrestrial**: Eutrophication potential - terrestrial , **POCP**: Photochemical Ozone Creation Potential , **ADPE**: Abiotic depletion potential - non-fossil resources , **ADPF**: Abiotic depletion potential - fossil resources , **WDP**: Water (user) deprivation potential

Additional indicators

Indicator	Unit	A1-A3	A4	A5	B1	B2	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	disease incidence	8.84 e-07	2.26 e-08	2.77 e-08	0.00 e+00	2.61 e-08	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	3.77 e-09	1.12 e-08	7.24 e-11	-1.01 e-08
IRP	kBq U235-Eq	1.04 e+00	4.24 e-03	3.14 e-02	0.00 e+00	7.36 e-02	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	7.06 e-04	1.63 e-02	1.54 e-05	-3.69 e-01
ETP-fw	CTUe	1.02 e+02	8.26 e-01	3.14 e+00	0.00 e+00	5.75 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	1.38 e-01	9.85 e-01	1.91 e-03	-2.26 e+00
HTP-c	CTUh	6.49 e-08	1.49 e-09	2.06 e-09	0.00 e+00	2.06 e-09	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	2.48 e-10	1.59 e-09	2.71 e-12	-2.54 e-09
HTP-nc	CTUh	9.77 e-08	2.30 e-09	3.45 e-09	0.00 e+00	5.30 e-09	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	3.83 e-10	8.43 e-09	8.17 e-12	-2.96 e-09
SQP	dimensionless	5.19 e+02	3.51 e+00	1.57 e+01	0.00 e+00	5.76 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	5.84 e-01	6.52 e-01	2.55 e-02	-3.01 e+01

PM: Potential incidence of disease due to PM 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 - cancer effects , **HTP-nc**: Potential Comparative Toxic Unit for humans - non-cancer effects , **SQP**: Potential Soil quality index . **IRP**: 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. **ETP-fw, HTP-c, HTP-nc, SQP**: The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experienced with these indicators.

Use of resources

Indicator	Unit	A1-A3	A4	A5	B1	B2	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	4.82 e+01	5.53 e-02	4.03 e+00	0.00 e+00	2.92 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	9.22 e-03	4.61 e+01	2.85 e-04	3.32 e+01
PERM	MJ	8.60 e+01	0.00 e+00	2.22 e-15	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	-8.55 e+01	0.00 e+00	-5.32 e+01
PERT	MJ	1.34 e+02	5.53 e-02	4.03 e+00	0.00 e+00	2.92 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	9.22 e-03	-3.94 e+01	2.85 e-04	-2.00 e+01
PENRE	MJ	1.47 e+02	3.49 e+00	5.67 e+00	0.00 e+00	6.46 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	5.81 e-01	2.13 e+01	1.05 e-02	-2.97 e+01
PENRM	MJ	3.69 e+01	0.00 e+00	-1.11 e-15	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	-3.67 e+01	0.00 e+00	0.00 e+00
PENRT	MJ	1.84 e+02	3.49 e+00	5.67 e+00	0.00 e+00	6.46 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	5.81 e-01	-1.54 e+01	1.05 e-02	-2.97 e+01
SM	kg	4.03 e-01	0.00 e+00	1.21 e-02	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	3.08 e+00
RSF	MJ	1.45 e+01	0.00 e+00	4.35 e-01	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00
NRSF	MJ	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00
FW	m^3	2.49 e-01	5.07 e-04	7.53 e-03	0.00 e+00	1.36 e-02	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	8.45 e-05	1.33 e-03	-2.02 e-04	-2.50 e-02

PERE: Primary energy resources - renewable: use as energy carrier , **PERM**: Primary energy resources - renewable: used as raw materials , **PERT**: Primary energy resources - renewable: total , **PENRE**: Primary energy resources - non-renewable: use as energy carrier , **PENRM**: Primary energy resources - non-renewable: used as raw materials , **PENRT**: Primary energy resources - non-renewable: total , **SM**: Use of secondary material , **RSF**: Renewable secondary fuels , **NRSF**: Non-renewable secondary fuels , **FW**: Net use of fresh water

Waste flows

Indicator	Unit	A1-A3	A4	A5	B1	B2	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	2.04 e-03	0.00 e+00	6.13 e-05	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00
NHWD	kg	5.50 e-02	0.00 e+00	2.26 e-01	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	3.99 e+00	4.49 e-02	0.00 e+00
RWD	kg	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00

HWD: Hazardous waste disposed , **NHWD**: Non hazardous waste disposed , **RWD**: Radioactive waste disposed

Output flows

Indicator	Unit	A1-A3	A4	A5	B1	B2	B4	B5	B6	B7	C1	C2	C3	C4	D
CRU	kg	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00
MFR	kg	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	3.44 e+00	0.00 e+00	0.00 e+00

Output flows

Indicator	Unit	A1-A3	A4	A5	B1	B2	B4	B5	B6	B7	C1	C2	C3	C4	D
MER	kg	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00
EEE	MJ	3.70 e-02	0.00 e+00	4.29 e-01	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	7.61 e+00	0.00 e+00	0.00 e+00
EET	MJ	1.01 e-01	0.00 e+00	1.08 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	1.92 e+01	0.00 e+00	0.00 e+00

CRU: Components for re-use , **MFR**: Materials for recycling , **MER**: Materials for energy recovery , **EEE**: Exported electrical energy , **EET**: Exported thermal energy

Name	Value	Unit
Biogenic carbon content in product	2.50e+00	kg C
Biogenic carbon content in accompanying packaging	0.00e+00	kg C

Additional requirements

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

None.

Electricity consumption in upstream production processes:

Electricity	Quantity [kWh]	Emission Factor [kg CO_2e/kWh]
ecoinvent: market for electricity, medium voltage (CH) HYDROBOARD Particleboard P3_HB (Raw Board) (SWISS KRONO AG)	2.65	0.04
ecoinvent: electricity production, photovoltaic, 3kWp slanted-roof installation, single-Si, panel, mounted (CH) HYDROBOARD Particleboard P3_HB (Raw Board) (SWISS KRONO AG)	0.02	0.11

Dangerous substances

The product contains no hazardous substances given by the REACH Candidate List or the Norwegian Priority List.

Additional environmental information

Secondary content

The product contains 4.51 % secondary material. Secondary material includes recycled, recovered and by-product content.

Additional environmental impact indicators required in NPCR Part A for construction products

Indicator	Unit	A1-A3	A4	A5	B1	B2	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-IOBC	kg CO_2-eq.	7.63 e+00	2.32 e-01	2.41 e-01	0.00 e+00	3.76 e-01	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	0.00 e+00	3.87 e-02	1.22 e-01	3.21 e-03	-1.52 e+00

GWP-IOBC: Global Warming Potential - Instantaneous oxidation of biogenic carbon

Bibliography

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EN 15804:2012+A2:2019	Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
EN 15942:2022-04	Sustainability of construction works - Environmental product declarations - Communication format business-to-business
ISO 14025:2011-10	Environmental labels and declarations - Type III environmental declarations - Principles and procedures
ISO 14040:2021-02	Environmental management - Life cycle assessment - Principles and framework
ISO 14044:2021-02	Environmental management - Life cycle assessment - Requirements and guidelines
EF 3.1	Environmental Footprint (EF) Life Cycle Impact Assessment method - Characterisation Factors version 3.1, European Commission, Joint Research Centre (JRC)
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