

Environmental Product Declaration



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

Thermally modified (thermo-D) solid soft wood (Scots pine)

from

Brolis Timber UAB



Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
Licensee:	N/A
Type of EPD:	EPD of multiple products, based on worst case results from a manufacturer.
EPD registration number:	EPD-IES 0032258:001
Version date:	2026-06-01
Valid until:	2031-05-31
<i>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</i>	



General information

Programme Information	
Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	support@environdec.com

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. 2019:14-c-PCR-006 Being updated - Wood and wood-based products for use in construction (EN 16485) 1.0.0
PCR review was conducted by: The Technical Committee of the International EPD System. A full list of members is available on www.environdec.com. The review panel may be contacted via support@environdec.com. Members of the Technical Committee were requested to state any potential conflict of interest with the PCR Committee, and if there were conflicts of interest they were excused from the review. Rob Rouwette (chair), Noa Meron (co-chair)

Third-party Verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:
☒ Individual EPD verification without a pre-verified LCA/EPD tool
Third-party verifier: Mari Kirss, Meetripuu OÜ, mari.kirss@meetripuu.ee
Approved by: International EPD System
Procedure for follow-up of data during EPD validity involves third party verifier:
☐ Yes ☒ No

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

EPDs within the same product category but registered in different EPD programmes may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same 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 equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see ISO 14025.



Brolis Timber



INFORMATION ABOUT EPD OWNER

Owner of the EPD: Brolis Timber, UAB

Address: Inžinierių g. 2, Sergeičikai I, LT-54464 Kauno r. Lithuania

Contact: info@brolis.eu; andrius@brolis.eu

Address and contact information of the LCA practitioner commissioned by the EPD owner:
BM Certification SIA, Jurkalnes str 15, 310, Riga, Latvia, LV-1046, info@bmcertification.com.

Description of the organisation:

BROLIS is a timber company built on precision, craft, and a deep respect for wood. Since 2007, it has specialised in thermally modified timber sourced exclusively from responsibly managed, PEFC-certified Northern European forests. Its production is fully automated, CE-certified, and engineered to deliver stable, durable, and aesthetically refined materials for facades, terraces, and interiors. BROLIS products combine structural integrity with natural beauty -timber with character, built to last.

PRODUCT INFORMATION

Product name: Thermally modified (thermo-D) solid soft wood (Scots pine).

UN CPC code:

3121 Wood, continuously shaped along any of its edges or faces (including strips and friezes for parquet flooring, not assembled, and beadings and mouldings).

Product description:

Thermally modified timber is essentially natural wood, processed with heat (212°C), steam and water in specifically adjusted and controlled heating cycles. Being entirely ecological and free of any chemicals, the treatment process irreversibly modifies physical and chemical properties of timber resulting in extremely durable and exceptionally sustainable material, friendly to both humans and nature. The product is assigned to DC 2 (durability class 2 "durable") according to specifications of EN 350:2016. The modification also improves its dimensional stability and thermal insulation qualities. Brolis Timber UAB is certified according to PEFC Chain of Custody systems. The moisture content of product is between 4-7%.



Brolis Timber



Technical purpose of product:

Cladding for interior and/or exterior finishes in walls or ceiling, deckings etc.

Name and location of production site: Inžinierių g. 2, Sergeičikai I, LT-54464 Kauno r. Lithuania

References to any relevant websites for more information: <https://www.brolistimber.eu/>

CONTENT DECLARATION

Information on the environmental and hazardous/toxic properties of a substances contained in the product: Products do not contain any REACH SVHC substances in amounts greater than 0,1% (1000 ppm).

Other information on substances with hazardous and toxic properties: N/A.

The table below shows the content declaration of the Thermally modified (thermo-D) solid soft wood (Scots pine).

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Timber	420	0	100	187.5
TOTAL	420	0	100	187.5

Packaging materials	Weight, kg	Weight-% (versus the product)	Weight biogenic carbon, kg C/kg
Timber	3.14	0.75	1.4
Plastic wrap	0,04	0.01	0.0
TOTAL	3.18	0.76	1.4

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂.

LCA INFORMATION

Functional unit / declared unit: 1 m³ Thermally modified (thermo-D) solid soft wood (Scots pine) planed.

The mass of the product per declared unit of 1 m³ is 420 kg.

Time representativeness: 2025.

Geographical scope:

The manufacturing facility and main suppliers are located in Lithuania and Europe.
The products are mainly exported to the European market.

Database(s) and LCA software used:

Calculation software - One Click LCA: EPD Generator - Ecoinvent 3.12.

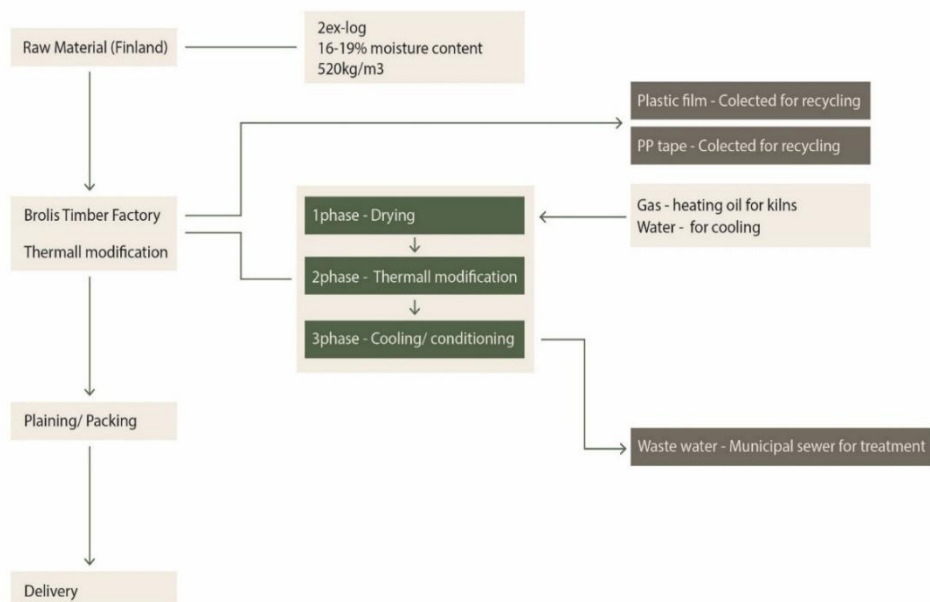
Environmental Impact Assessment Method:

EN15804 reference package EF 3.1.

Description of system boundaries:

Cradle to gate with options, A4–A5, and modules C1–C4, D (A1–A3, A4–A5 + C1–C4 + D).

Product flow diagram:



More information:

The results are given for worst case scenario.



The study does not exclude any modules or processes which are mandatory and the applied PCR.

The study does not exclude any hazardous materials or substances.

All relevant inputs and outputs from each unit process that have available data are considered in the calculation. No single unit process is disregarded if it accounts for more than 1% of the total mass or energy flows. Additionally, the total neglected input and output flows for each module do not surpass 5% of the energy usage or mass.

Target group: The aim of the study is to provide information and data for an EPD for both business-to-consumer and business-to-business communication.

Cut-off criteria: The <1% due difficulties to attributing and minor environmental impacts.

Allocation: In this study, as per EN 15804, allocation is conducted in the following order:

1. Allocation should be avoided.
2. Allocation should be based on physical properties (e.g. mass, volume) when the difference in revenue is small.

The allocations in the Ecoinvent 3.12 datasets used in this study follow the Ecoinvent system model 'Allocation, cut-off, EN15804'.

Electricity:

Energy sources of the electricity used in manufacturing processes of module A3 are modelled using the electricity: Electricity photovoltaic – (13.8%) hydro 0,0947 kg CO₂ eq./kWh (34.5%), thermal (20.5%), wind (31.3%), average 0.06045 CO₂ eq./kWh.

The GHG emission factor was estimated using the GWP-GHG indicator.

Explanation of assumptions regarding modules A4, A5, C and D:

A4: Transportation impacts occurred from final products delivery to construction site cover fuel direct exhaust emissions and environmental impacts of fuel production. The transportation distance is defined as 100km EURO 6 lorry. Vehicle capacity utilization volume factor is assumed to be 1.

According to the manufacturer, transportation doesn't cause losses as products are packaged properly.

A5: Includes only packaging utilization.

It is assumed that 100% of packaging wrap sent to recycling and 100% of timber sent for incineration.

B: This EPD does not cover the use phase.

Air, soil, and water impacts during the use phase have not been studied.

C1: Module C1 was modelled based on the diesel fuel consumption required for mechanical deconstruction using a standard building machine - 0.462 kWh.

C2: Transport to waste treatment site after dismantling using EURO 5 lorry average (50 km assumed).

C3: 100% of wood is collected and 90% chipping before wood combustion. Biogenic carbon flows and energy stored as material are balanced out according to EN 16485.

C4: Assumed as 10% of wood goes to landfill.

D: Wood materials as secondary fuel for energy recovery assumed (LHV 16.2 MJ/kg). Avoided impact of electricity production and thermal energy recovery.



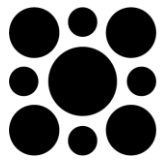
Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

	Product stage			Distribution/ installation stage		Use stage							End-of-life stage				Beyond product life cycle
	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	Reuse-Recovery- Recycling-potential
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		-	-	-	-	-	-	-	EU				EU
Share of primary data	46.2%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	26%			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	ND			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Modules/processes/life-cycle stages declared noted with "X". Modules/processes/life-cycle stages not declared marked as "ND".

Process	Source type	Source	Reference year	Data category	Share on GWP-GHG results for A1-A3
Raw materials	Collected data	EPDs Ecoinvent v3.12	2024	Primary data, Secondary data	8.1%
Transport to manufacturing site	Database	Ecoinvent v3.12	2025	Primary data	26.2%
Generation of electricity used in manufacturing of product	Database	One Click LCA	2025	Primary data	11.9%
Other manufacturing processes and materials	Database	Ecoinvent v3.12	2025	Secondary data	53.8%
Total share of primary data, of GWP-GHG results for A1-A3					46.2%*

*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.



Brolis Timber



Data quality assessment:

Thermally modified (thermo-D) solid soft wood (Scots pine) manufactured in 2025. Primary data was collected directly from the manufacturer and suppliers, while background data was sourced from Ecoinvent v3.12.

The quality of the data has been assessed according to EN 15804:2012+A2:2019, Annex E, and EN 15941. Using the semi-quantitative evaluation criteria for data quality (DQR) proposed by the European Commission in its Environmental Footprint Guide, the following results were obtained:

- Temporal representativeness (TiR): Very good.
- Geographical representativeness (GeR): Fair.
- Technological representativeness (TeR): Good.

Overall, the data quality is rated between “good” and “very good.” No datasets assessed were rated “very poor”.



ENVIRONMENTAL PERFORMANCE

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

The effect of the infrastructure involved in the production of raw material, transport means, and energy was included as it was not possible to exclude them. Characterization factors of EN15804 are based on EF 3.1.

Mandatory impact category indicators according to EN 15804

Results per functional or declared unit									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq.	-5.35E+02	4.38E-02	8.74E+00	1.67E-01	2.26E+00	6.24E+02	6.92E+01	-4.74E+02
GWP-fossil	kg CO ₂ eq.	1.50E+02	4.38E-02	3.59E+00	1.67E-01	2.26E+00	5.66E+00	4.57E-01	-4.74E+02
GWP-biogenic	kg CO ₂ eq.	-6.86E+02	9.55E-06	5.15E+00	2.71E-05	5.12E-04	6.19E+02	6.88E+01	-1.73E-02
GWP-luluc	kg CO ₂ eq.	8.59E-01	1.70E-05	4.67E-04	1.69E-05	1.01E-03	1.08E-02	2.71E-04	-3.20E-01
ODP	kg CFC 11 eq.	6.88E-06	9.13E-10	3.77E-08	2.57E-09	3.34E-08	3.19E-08	1.23E-08	-1.88E-06
AP	mol H ⁺ eq.	5.16E-01	1.03E-04	2.25E-02	1.49E-03	7.71E-03	2.84E-02	3.14E-03	-3.76E+00
EP-freshwater	kg P eq.	3.22E-02	3.06E-06	9.42E-04	5.36E-06	1.76E-04	2.48E-03	3.62E-04	-1.70E-01
EP-marine	kg N eq.	1.67E-01	2.71E-05	3.34E-03	7.01E-04	2.53E-03	5.94E-03	1.49E-02	-4.95E-01
EP-terrestrial	mol N eq.	1.81E+00	2.93E-04	3.56E-02	7.66E-03	2.76E-02	6.01E-02	1.35E-02	-5.14E+00
POCP	kg NMVOC eq.	8.18E-01	1.80E-04	1.20E-02	2.30E-03	1.14E-02	1.73E-02	5.56E-03	-1.53E+00
ADP-minerals&metals*	kg Sb eq.	4.12E-04	1.25E-07	1.97E-06	6.09E-08	6.31E-06	6.08E-06	8.85E-07	-2.45E-04
ADP-fossil*	MJ	2.78E+03	6.57E-01	4.19E+01	2.17E+00	3.28E+01	7.09E+01	1.02E+01	-4.89E+03
WDP*	m ³	3.25E+01	3.37E-03	3.29E-01	5.44E-03	1.62E-01	1.28E+00	4.47E-01	-6.02E+01
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: 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.*

" 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."

"The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3).

Additional mandatory and voluntary impact category indicators

Results per functional or declared unit									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
GWP-GHG ¹	kg CO ₂ eq.	1.50E+02	4.38E-02	3.59E+00	1.67E-01	2.26E+00	5.67E+00	4.57E-01	-4.74E+02

¹ This 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 CO₂ is set to zero.

Resource use indicators

Results per functional or declared unit									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	9.93E+02	1.07E-02	4.74E+01	1.36E-02	4.50E-01	8.77E+00	5.87E+02	-8.13E+02
PERM	MJ	5.56E+03	0.00E+00	1.56E+01	0.00E+00	0.00E+00	-5.57E+03	5.88E+02	0.00E+00
PERT	MJ	9.70E+03	1.07E-02	6.30E+01	1.36E-02	4.50E-01	-5.56E+03	1.18E+03	-8.13E+02
PENRE	MJ	2.76E+03	6.57E-01	4.10E+01	2.17E+00	3.28E+01	7.09E+01	1.02E+01	-4.89E+03
PENRM	MJ	6.65E+01	0.00E+00	-2.39E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.83E+03	6.57E-01	1.71E+01	2.17E+00	3.28E+01	7.09E+01	1.02E+01	-4.89E+03
SM	kg	4.42E-01	2.84E-04	5.32E-03	9.00E-04	1.40E-02	2.69E-02	3.50E-03	-4.83E-01
RSF	MJ	5.73E-03	3.59E-06	2.26E-05	2.36E-06	1.77E-04	5.61E-05	7.06E-05	5.67E-05
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.79E+00	9.70E-05	5.60E-03	1.31E-04	4.85E-03	2.94E-02	-1.56E-01	-1.06E+00
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 resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water								

The approach B was used to compute the primary energy indicators.



Waste indicators

Results per functional or declared unit									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Hazardous waste disposed	kg	9.17E+00	9.51E-04	2.83E-01	7.04E-03	5.56E-02	8.45E-01	5.14E-02	-4.39E+01
Non-hazardous waste disposed	kg	1.96E+02	1.90E-02	7.87E+00	3.51E-02	1.03E+00	1.25E+01	1.11E+02	-8.36E+02
Radioactive waste disposed	kg	8.71E-03	1.96E-07	1.38E-05	2.13E-07	6.99E-06	1.31E-04	1.87E-06	-1.01E-02

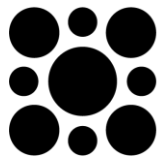
Output flow indicators

Results per functional or declared unit									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E+02	0.00E+00	0.00E+00
Exported energy, electricity	MJ	0.00E+00	0.00E+00	1.41E+00	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	5.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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

Disclaimer: it is not encouraged to use the results of modules A1-A3 without taking into account the results of module C.

The results of the impact categories abiotic depletion of minerals and metals, land use, human toxicity (cancer), human toxicity, non cancer and ecotoxicity (freshwater) may be highly uncertain in LCAs that include capital goods/infrastructure in generic datasets, in case infrastructure/capital goods contribute greatly to the total results. This is because the LCI data of infrastructure/capital goods used to quantify these indicators in currently available generic datasets sometimes lack temporal, technological and geographical representativeness. Caution should be exercised when using the results of these indicators for decision-making purposes.



Additional impact category indicators

Results per functional or declared unit									
Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter emissions	Disease incidence	8.12E-06	4.27E-09	2.30E-07	4.27E-08	2.26E-07	2.94E-07	7.43E-08	-6.78E-05
Ionising radiation, human health *	kBq U-235eq	1.98E+01	7.92E-04	5.79E-02	9.07E-04	2.86E-02	5.39E-01	7.83E-03	-4.01E+01
Eco-toxicity (freshwater) **	CTUe	3.92E+02	7.74E-02	5.03E+00	2.20E-01	4.64E+00	1.48E+01	5.30E+00	-1.08E+03
Human toxicity, cancer effects	CTUh	1.93E-07	7.29E-12	6.54E-10	1.61E-11	3.73E-10	7.31E-10	1.11E-10	-9.89E-08
Human toxicity, non-cancer effects	CTUh	1.16E-06	4.25E-10	2.32E-08	2.85E-10	2.12E-08	3.45E-08	8.61E-09	-3.32E-06
Land use related impacts/ Soil quality	dimensionless	5.31E+04	6.62E-01	1.55E+01	1.50E-01	3.30E+01	1.11E+01	2.42E+01	-2.92E+03

* 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

** 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.



Alternative end-of-life scenarios

Below table is describing the environmental indicator results of 1m³ thermally modified alternative end-of-life scenarios in case of incineration and landfilling.

Incineration							Landfill				
		C1	C2	C3	C4	D	C1	C2	C3	C4	D
GWP-GHG	kg CO2 eq.	1.67E-01	2.26E+00	6.30E+00	0.00E+00	-5.27E+02	1.67E-01	1.55E-01	0.00E+00	4.57E+00	0.00E+00
		C1	C2	C3	C4	D	C1	C2	C3	C4	D
GWP- total	kg CO2 eq.	1.67E-01	2.26E+00	6.94E+02	0.00E+00	-5.27E+02	1.67E-01	1.55E-01	0.00E+00	6.92E+02	0.00E+00
GWP-fossil	kg CO2 eq.	1.67E-01	2.26E+00	6.29E+00	0.00E+00	-5.26E+02	1.67E-01	1.55E-01	0.00E+00	4.57E+00	0.00E+00
GWP-biogenic	kg CO2 eq.	2.71E-05	5.12E-04	6.87E+02	0.00E+00	-1.92E-02	2.71E-05	3.52E-05	0.00E+00	6.88E+02	0.00E+00
GWP-luluc	kg CO2 eq.	1.69E-05	1.01E-03	1.20E-02	0.00E+00	-3.56E-01	1.69E-05	6.95E-05	0.00E+00	2.71E-03	0.00E+00
ODP	kg CFC-11 eq.	2.57E-09	3.34E-08	3.54E-08	0.00E+00	-2.08E-06	2.57E-09	2.29E-09	0.00E+00	1.23E-07	0.00E+00
AP	mol H+ eq.	1.49E-03	7.71E-03	3.16E-02	0.00E+00	-4.18E+00	1.49E-03	5.30E-04	0.00E+00	3.14E-02	0.00E+00
EP-freshwater	kg P eq.	5.36E-06	1.76E-04	2.75E-03	0.00E+00	-1.89E-01	5.36E-06	1.21E-05	0.00E+00	3.62E-03	0.00E+00
EP-marine	kg N eq.	7.01E-04	2.53E-03	6.60E-03	0.00E+00	-5.50E-01	7.01E-04	1.74E-04	0.00E+00	1.49E-01	0.00E+00
EP-terrestrial	mol N eq.	7.66E-03	2.76E-02	6.68E-02	0.00E+00	-5.71E+00	7.66E-03	1.89E-03	0.00E+00	1.35E-01	0.00E+00
POCP	kg NMVOC eq.	2.30E-03	1.14E-02	1.92E-02	0.00E+00	-1.70E+00	2.30E-03	7.81E-04	0.00E+00	5.56E-02	0.00E+00
ADP-minerals&metals*	kg Sb eq.	6.09E-08	6.31E-06	6.75E-06	0.00E+00	-2.72E-04	6.09E-08	4.33E-07	0.00E+00	8.85E-06	0.00E+00
ADP-fossil*	MJ, net calorific value	2.17E+00	3.28E+01	7.87E+01	0.00E+00	-5.43E+03	2.17E+00	2.25E+00	0.00E+00	1.02E+02	0.00E+00
WDP*	m3 world eq. deprived	5.44E-03	1.62E-01	1.42E+00	0.00E+00	-6.68E+01	5.44E-03	1.11E-02	0.00E+00	4.47E+00	0.00E+00
		C1	C2	C3	C4	D	C1	C2	C3	C4	D
PERE	MJ, net calorific value	1.36E-02	4.50E-01	9.74E+00	0.00E+00	-9.03E+02	1.36E-02	4.50E-01	0.00E+00	5.87E+03	0.00E+00
PERM	MJ, net calorific value	0.00E+00	0.00E+00	-6.19E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ, net calorific value	1.36E-02	4.50E-01	-6.18E+03	0.00E+00	-9.03E+02	1.36E-02	4.50E-01	0.00E+00	1.18E+04	0.00E+00
PENRE	MJ, net calorific value	2.17E+00	3.28E+01	7.87E+01	0.00E+00	-5.43E+03	2.17E+00	3.28E+01	0.00E+00	1.02E+01	0.00E+00
PENRM	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ, net calorific value	2.17E+00	3.28E+01	7.87E+01	0.00E+00	-5.43E+03	2.17E+00	3.28E+01	0.00E+00	1.02E+01	0.00E+00
SM	kg	9.00E-04	1.40E-02	2.99E-02	0.00E+00	-5.37E-01	9.00E-04	9.60E-04	0.00E+00	3.50E-02	0.00E+00
RSF	MJ, net calorific value	2.36E-06	1.77E-04	6.23E-05	0.00E+00	6.30E-05	2.36E-06	1.22E-05	0.00E+00	7.06E-04	0.00E+00
NRSF	MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m3	1.31E-04	4.85E-03	3.27E-02	0.00E+00	-1.18E+00	1.31E-04	3.33E-04	0.00E+00	-1.56E+00	0.00E+00
		C1	C2	C3	C4	D	C1	C2	C3	C4	D
HWD	kg	7.04E-03	5.56E-02	9.39E-01	0.00E+00	-4.88E+01	0.00E+00	1.78E-02	0.00E+00	5.14E-01	0.00E+00
NHWD	kg	3.51E-02	1.03E+00	1.39E+01	0.00E+00	-9.29E+02	0.00E+00	3.29E-01	0.00E+00	1.11E+03	0.00E+00
RWD	kg	2.13E-07	6.99E-06	1.45E-04	0.00E+00	-1.12E-02	0.00E+00	2.24E-06	0.00E+00	1.87E-05	0.00E+00
		C1	C2	C3	C4	D	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for energy recovery	kg	0.00E+00	0.00E+00	4.20E+02	0.00E+00	0.00E+00	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	0.00E+00	0.00E+00	0.00E+00	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	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		C1	C2	C3	C4	D	C1	C2	C3	C4	D
Particulate matter emissions	Disease incidence	4.27E-08	2.26E-07	3.27E-07	0.00E+00	-7.54E-05	4.27E-08	1.56E-08	0.00E+00	7.43E-07	0.00E+00
Ionising radiation, human health	kBq U-235eq	9.07E-04	2.86E-02	5.99E-01	0.00E+00	-4.45E+01	9.07E-04	1.96E-03	0.00E+00	7.83E-02	0.00E+00
Eco-toxicity (freshwater)	CTUe	2.20E-01	4.64E+00	1.65E+01	0.00E+00	-1.20E+03	2.20E-01	3.19E-01	0.00E+00	5.30E+01	0.00E+00
Human toxicity, cancer effects	CTUh	1.61E-11	3.73E-10	8.12E-10	0.00E+00	-1.10E-07	1.61E-11	2.56E-11	0.00E+00	1.11E-09	0.00E+00
Human toxicity, non-cancer effects	CTUh	2.85E-10	2.12E-08	3.83E-08	0.00E+00	-3.69E-06	2.85E-10	1.46E-09	0.00E+00	8.61E-08	0.00E+00
Land use related impacts/ Soil quality	dimensionless	1.50E-01	3.30E+01	1.23E+01	0.00E+00	-3.24E+03	1.50E-01	2.27E+00	0.00E+00	2.42E+02	0.00E+00

Additional LCA results (other environmental performance results) of the product(s)

This assessment presents the best-case results for sawn thermally modified wood.

		A1-A3
GWP-GHG	kg CO ₂ eq.	0.84
GWP- total	kg CO ₂ eq.	1.05
GWP-fossil	kg CO ₂ eq.	0.84
GWP-biogenic	kg CO ₂ eq.	1.00
GWP-luluc	kg CO ₂ eq.	0.63
ODP	kg CFC-11 eq.	0.78
AP	mol H ⁺ eq.	0.71
EP-freshwater	kg P eq.	0.42
EP-marine	kg N eq.	0.77
EP-terrestrial	mol N eq.	0.77
POCP	kg NMVOC eq.	0.77
ADP-minerals&metals*	kg Sb eq.	0.84
ADP-fossil*	MJ, net calorific value	0.77
WDP*	m ³ world eq. deprived	0.58
PERE	MJ, net calorific value	0.74
PERM	MJ, net calorific value	1.11
PERT	MJ, net calorific value	0.79
PENRE	MJ, net calorific value	0.76
PENRM	MJ, net calorific value	0.73
PENRT	MJ, net calorific value	0.76
SM	kg	0.92
RSF	MJ, net calorific value	0.97
NRSF	MJ, net calorific value	0.00
FW	m ³	0.65
HWD	kg	0.81
NHWD	kg	0.64
RWD	kg	0.46
Components for re-use	kg	0.00
Material for recycling	kg	0.00
Materials for energy recovery	kg	0.00
Exported energy, electricity	MJ	0.00
Exported energy, thermal	MJ	0.00
Particulate matter emissions	Disease incidence	0.85
Ionising radiation, human health	kBq U-235eq	0.42
Eco-toxicity (freshwater)	CTUe	0.72
Human toxicity, cancer effects	CTUh	0.72
Human toxicity, non-cancer effects	CTUh	0.72
Land use related impacts/ Soil quality	dimensionless	0.82

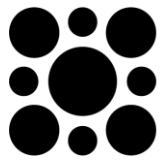


Brolis Timber



ABBREVIATIONS

Abbreviation	Definition
General Abbreviations	
EN	European Norm (Standard)
EF	Environmental Footprint
GPI	General Programme Instructions
ISO	International Organization for Standardization
eq	equivalent
CPC	Central product classification
SVHC	Substances of Very High Concern
ND	Not Declared



REFERENCES

Life-Cycle Assessment Background Report in accordance with EN 15804+A2 & ISO 14025.

General Programme Instructions of the international EPD® system. Version 5.0. www.environdec.com.

ISO 14020:2023 Environmental statements and programmes for products. Principles and general requirements.

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

ISO 14040:2006 Environmental management. Life cycle assessment. Principles and frameworks.

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

EN 15804+A2 Sustainability in construction works – Environmental product declarations – Core rules for the product category of construction products.

EN 15941 Sustainability of construction works - Data quality for environmental assessment of products and construction work - Selection and use of data

PCR 2019:14 Construction products, version 2.0.1.

2019:14-c-PCR-006 Being updated - Wood and wood-based products for use in construction (EN 16485) 1.0.0

LCA background report 28.02.2026.

Data references:

One Click LCA

Ecoinvent 3.12 database

VERSION HISTORY

Original Version of the EPD, 2026-05-26

