

ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025, ISO 21930 and EN 15804+A2



A specific EPD for Linax impregnated timber

Bitus

Owner of the declaration: Bitus AB Stora Torget 3, 598 37 Vimmerby www.bitus.se

Product category /PCR: Wood and wood-based products

EPD Software:

Program holder and publisher The Norwegian EPD Foundation

Declaration number: NEPD-4333-3564-EN

Issue date: 05.04.2023 **Valid to:** 05.04.2028

This EPD is based on IVL EPD Generator for the Sawmill products (NEPDT26) and follow the approved background database verification



General information

Product: Linax impregnated timber

Program Operator: The Norwegian EPD Foundation Post Box 5250 Majorstuen, 0303 Oslo, Norway Phone: +47 23 08 80 00 Email: post@epd-norge.no

Declaration number: NEPD-4333-3564-EN

This declaration is based on Product Category Rules: CEN Standard EN 15804 A2 serves as core PCR and PCR Part B for wood and wood-based products for use in construction (NPCR 015 version 3.0, 10.04.2019).

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, life cycle assessment data and evidences.

Declared unit:

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Declared unit with option: 1 m³ planed treated timber

A1-A5, B1-B7, C1-C4 and D

Functional unit:

Verification:

Independent verification of the declaration and data, according to ISO14025:2010.

□ Internal

🗵 External

Third party verifier:



Linda Høibye, Life Cycle Assessment Consulting Independent verifier approved by EPD Norway Owner of the declaration and manufacturer: Bitus AB Contact person: Robert Elgan Phone: +46 (0)70-600 10 55 Email: robert.elgan@bitus.se

Place of production: Nybro Sweden

Management system: Environmental policy and FSC® C106624 och PEFC

Organisation no: 556153-6789

Issue date: 05.04.2023

Valid to: 05.04.2028

Year of study: 2021

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

The EPD has been worked out by: Martin Erlandsson, IVL

ARTIN RIAMPSSON

Approved by:

Haken Harrow

Håkon Hauan (Managing Director EPD Norway)

Product

Product description:

Treated timber is used for structural purposes, cladding and as component in wood based products used outdoor. The average moisture ratio used for the declared products is about 18 % (EN 14298) and will vary accourding to weather etc.

Product specification:

Treated timber is produced in different sizes and the declared product is representative for the planed timber sold under the name Linax. By adding various wood preservatives to the wood, attacks by wood-destroying organisms can be inhibited or prevented.

Materials, product	kg/m ³	weight-%
Pine	515	96%
Wolmanit CX8WB	3.1	0.6%
Oil with pigment	16	3.0%
Sum	534	100%
Packaging materials	kg/m ³	weight-%
Wood	0.028	87%
Polyethene film	0	0%
Plastic strap (PET)	0.004	13%
Steel strip	0	0%
Cardboard	0.001	2%
Sum	0.03	100%

LCA: Calculation rules

Declared unit:

1 m3 planed treated timber

Technical data:

For treated wood sold in the Nordic countries, there is a classification system developed by NTR (Nordic Wood Protection Council) based on European standards for wood preservative-treated wood. NTR class AB refers to timber for use above ground. The uptake of the different treatment used are defined by NTR in order to secure the service life.

The raw dry mass for pine is 420 kg/m³ for as Swedish averages and used here to calculate biogenic carbon content and the delivery density including water according to the current moisture content. The amount of sapwood is set to 34%. **Market:**

Main markets are Sweden and Northern Europe.

Reference service life:

The product is sold with a warranty period of 50 years from the date of sale regarding rot and 12 years from the date of sale regarding shape and color stability and applies to all products in the Linax product range. Warranty terms and conditions to be found at:

Linax-Product-Warranty-Bitus_2023.pdf

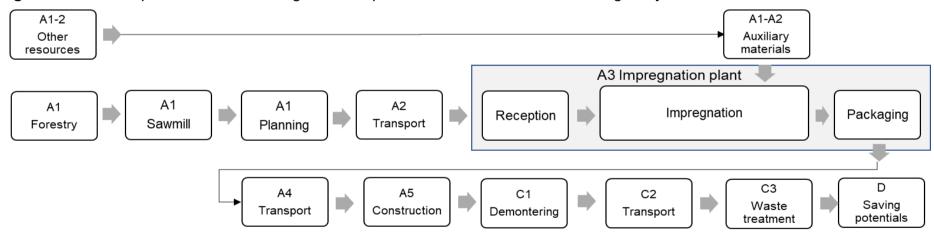


Use QR code for a general fact sheet on Swedish wood products.

System boundary:

Flow chart over production (A3) of the declared product and all other modules is shown below. Module A4 to D is further explained in the scenario section.

Figure 1 Declared product manufacturing and transport to a customer and the remaing lifecycle.



Data quality:

The impregnation process and transport from sawmill is based on specific data. National representative figures are used for planed boards, sawn timber and roundtimber (Erlandsson 2023). Generic upstream data for energy wares and small amount of auxiliary materials are mainly from Gabi (age 2017-2022).

Allocation:

The allocation is made in accordance with the provisions of EN15804. All impacts from the impregnation, planing of boards are allocated to the main product. The shaving are sold and only attributed to its upstream impact from its previously processes. The sawmill and its multiple co-products are allocated based on their different economic values, except the drying process that is attributed to the intermediate product on physical premises. The economic value of the different parts of the input round timber are attributed using the market value of its final products/co-products.

A conservative approach is used for transport of round timber to the sawmill based on economic allocation factors (EN 16485). A conservative economic allocation approach is used for forestry products, where no impact is allocated to the tops and branches (GROT), except forestry operations aimed for GROT (forwarding and shipping). Indicator result on potential soil quality (SQP) is assessed based on national characterisation factors for Swedish forestry (Horn et al 2021).

Cut-off criteria:

All major raw materials and all the essential energy used are included. All production process are included, hence the few limited cut off that occurs (<<1%) related to packaging materials that is not substituted in module D. This cut-off rule does not apply for hazardous materials and substances. Inherent biogenic carbon and stored energy in packaging material is balanced out directly.

Calculation of biogenic carbon content:

Sequestration (module A1) and emissions of biogenic carbon are calculated according to EN16485:2014/EN15804+A2, where the net biogenic carbon cycle A to C is zero (i.e. carbon dioxide neutral). In this EPD, the amount of biogenic carbon stored in the product (module A3) is reported additionally (according to EN 15804 A2) as biogenic carbon stored in the product (see table 'Resource use'). For biogenic carbon in all other modules after A3, the carbon in the products is assigned to the module where the emission occurs in order to support the modularity principle in EN15804, so the net result is zero. Biogenic carbon and energy stored in packaging materials (less than 5 weight-%) are directly balanced out and therefore not visible in the environmental indicator result.

LCA: Scenarios and additional technical information

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

Transport from production place to user (A4)

Туре	Load factor, % (90+0%)	Type of vehicle	Distance km	Fuel	Value	
Semi-trailer	45%	TT/AT 28-34 + 34-40t	100	0.027 l/tkm	2.7	

A4: The transportation is reported as 100 km and shall be used as factor to estimate the actual distance to the specific object.

Assembly (A5)

	Unit	Value
Material loss	%	5
Crane, electricity consumption	kWh	3.2E-02
Front loader, diesel	kWh	3.1E-01

A5: At the construction site, 4 minutes of work with front loader is assumed (Erlandsson 2015) and an average lift with a crane (Lundström 2016). 5% material loss is assumed att construction site.

Maintenance (B2)/Repair (B3)

Replacement (B4)/Refurbishment (B5)

	Unit	Value		Unit	Value
MND			MND		

The declared product is not assumed to be exposed for wether and for that reason no mainatance is needed during the service life.

Operational energy (B6) and water consumption (B7)

	Unit	Value
MND		
No operational energy used during service life.		

End of Life (C1, C3, C4)*

	Unit	Value
C1: Demolision machine (diesel)	kWh	0.59
C3: To material reuse	kg	0
C3: To material recycling	kg	0
C3: To energy recovery	kg	534
C3: Wood chipping (diesel)	kWh	3.2
C4: To landfill	kg	0

Energy need for demolition (C1) and chipping (C3) of the wooden discarded products is found in according to Erlandsson et el (2015). The scenario accounts for 100%* energy recovery and end of waste is reached in C3. No statistics exist in Sweden on recycling of demolition wood but will likely be at least 90%.

Transport to waste processing (C2)*

Туре	Load factor, % (90+0%)	Type of vehicle	Distance km	Fuel	Value
Large lorry/truck	45%	TT/AT 14-20+20-28t	35	0.037	1.3

*C2: Assumed tranport from demolition site to local waste treatment site, from where it is then sold. The transport assume empty return.

Benefits and loads beyond the system boundaries (D)*

	Unit	Value
Chipped CLT that substitute fuel in a district heating plant	kg DM	459
Chipped discard product that substitute average used fuel in a district heating plant	MJ	-8980

D: The chipped product is assumed to be used as fuel in a district heating and then replaces the average energy mix.

* If less recycling rate than 100% is asked for shall the result from module C and D be multiplied by such factor that takes the actual number into account. 100% is used here to support the modular approach of using these figures on the buildings level.

Additional technical information

No additional information given.

Use (B1)

	Unit	Value
MND		

LCA: Results

The LCA results are presented for the declared unit defined on page 2 of the EPD document. EN 15804 exists in two versions and version 2 is the latest.

System boundaries: X=included, MND= module not declared, MNR=module not relevant.

Р	Product stage			struction ss stage		Use stage				En	d of lif	e stage	9	Beyond the system boundary		
Raw materials	Transport	Manufacturing	Transport	Construction, installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
х	Х	х	х	х	MND	MND	MND	MND	MND	MND	MND	х	Х	Х	х	х
SE	SE	SE	SE	SE	—	_	_			_	—	SE	SE	SE	SE	SE

Core environmental impact, version A2 – mandatory indicators

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ e	-7.61E+02	3.38E+00	3.21E+00	1.36E-01	1.18E+00	8.22E+02	0.00E+00	-1.83E+02
GWP-fossil	kg CO ₂ e	5.78E+01	3.35E+00	3.19E+00	1.34E-01	1.17E+00	2.34E+00	0.00E+00	-1.97E+02
GWP-biogenic	kg CO ₂ e	-8.19E+02	1.04E-02	9.34E-04	4.18E-04	3.65E-03	8.20E+02	0.00E+00	1.36E+01
GWP-LULUC	kg CO ₂ e	3.50E-01	1.87E-02	1.92E-02	7.51E-04	6.55E-03	1.31E-02	0.00E+00	0.00E+00
GWP-IOBC/GHG	kg CO ₂ e	5.84E+01	3.38E+00	3.22E+00	1.36E-01	1.18E+00	2.36E+00	0.00E+00	-1.84E+02
ODP	kg CFC11 eq.	2.27E-06	7.55E-08	1.20E-07	3.03E-09	2.64E-08	5.28E-08	0.00E+00	-1.15E-06
AP	mol H⁺ eq.	9.32E-01	3.77E-02	5.00E-02	1.51E-03	1.32E-02	2.63E-02	0.00E+00	-4.55E-01
EP-freshwater	kg P eq.	7.02E-03	1.73E-04	3.66E-04	6.95E-06	6.06E-05	1.21E-04	0.00E+00	-6.06E-04
EP-marine	kg N eq.	4.11E-01	2.03E-02	2.24E-02	8.15E-04	7.11E-03	1.42E-02	0.00E+00	-9.53E-03
EP-terrestial	mol N eq.	3.54E+00	1.93E-01	1.94E-01	7.74E-03	6.75E-02	1.35E-01	0.00E+00	7.31E-02
POCP **	kg NMVOC eq.	5.79E-01	2.64E-02	3.13E-02	1.06E-03	9.22E-03	1.84E-02	0.00E+00	6.78E-01
ADP-m&m ²⁾	kg NMVOC eq.	9.42E-04	1.80E-06	4.72E-05	7.24E-08	6.32E-07	1.26E-06	0.00E+00	-1.41E+03
ADP-fossil 2)	kg NMVOC eq.	1.41E+03	5.10E+01	7.49E+01	2.05E+00	1.78E+01	3.56E+01	0.00E+00	-6.90E-01
WDP	kg NMVOC eq.	1.43E+03	6.01E+01	7.71E+01	2.41E+00	2.10E+01	4.19E+01	0.00E+00	-6.58E+00

GWP-total: Global Warming Potential; *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 freshwater is Eutrophication potential, Accumulated Exceedance; *POCP:* Formation potential of tropospheric ozone; *ADP-m&m:* Abiotic depletion potential for non-fossil resources (*minerals and metals*); *ADP-fossil:* Abiotic depletion potential, deprivation weighted water counsumption

Note 1 – This additional indicator **GWP-GHG/IOBC** is also referred to as **GWP-GHG** in the context of Swedish and Finish legislation.

Disclaimer 2 – 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.

** Negative impact occur due to negative characterization factors.

Additional environmental impa	ct. version A2 -	 addition of non-mandator 	v indicators with poor reliability	/
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Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
PM ²⁾	Disease incidence	5.55E-06	2.02E-07	2.95E-07	8.12E-09	7.08E-08	1.41E-07	0.00E+00	-5.94E+01
IRP ¹⁾	kBq U235 eq	1.68E+01	1.15E-01	8.58E-01	4.61E-03	4.02E-02	8.02E-02	0.00E+00	-2.94E-07
ETP-fw ²⁾	CTUe	4.24E+03	8.92E+01	2.20E+02	3.58E+00	3.12E+01	6.23E+01	0.00E+00	-2.19E+02
HTP-c ²⁾	CTUh	8.51E-08	1.78E-09	4.41E-09	7.15E-11	6.24E-10	1.25E-09	0.00E+00	-2.22E-01
HTP-nc ²⁾	CTUh	5.20E-06	1.09E-07	2.70E-07	4.37E-09	3.81E-08	7.60E-08	0.00E+00	-2.69E+00
SQP ²⁾	Dimensionless	6.58E+04	6.53E+01	3.29E+03	2.62E+00	2.28E+01	4.56E+01	0.00E+00	-3.46E+03

PM: Particulate matter emissions; **IRP:** Ionising radiation, human health; **ETP-fw:** Ecotoxicity (freshwater); **ETP-c:** Human toxicity, cancer effects; **HTP-nc:** Human toxicity, non-cancer effects; **SQP:** Land use related impacts / soil quality

Disclaimer 1 – 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. **Disclaimer 2** – 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.

Environmental impact, version A1

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
GWP-TOT	kg CO ₂ e	-7.44E+02	3.29E+00	3.10E+00	1.32E-01	1.15E+00	8.03E+02	0.00E+00	-1.74E+02
GWP-IOBC*	kg CO ₂ e	5.61E+01	3.29E+00	3.10E+00	1.32E-01	1.15E+00	2.30E+00	0.00E+00	-1.74E+02
ODP	kg CFC11 e	2.03E-06	6.80E-08	1.08E-07	2.73E-09	2.38E-08	4.75E-08	0.00E+00	-1.15E-06
POCP**	kg C ₂ H ₄ e	-2.12E-02	-6.76E-03	-1.66E-03	-2.71E-04	-2.37E-03	-4.72E-03	0.00E+00	9.60E-03
AP	kg SO ₂ e	6.60E-01	2.43E-02	3.52E-02	9.73E-04	8.49E-03	1.69E-02	0.00E+00	-4.33E-01
EP	kg PO ₄ ³⁻ e	-2.12E-02	-6.76E-03	1.43E-02	3.77E-04	3.29E-03	6.56E-03	0.00E+00	-4.14E-03
ADPM	kg Sb e	9.46E-04	1.81E-06	4.74E-05	7.25E-08	6.33E-07	1.26E-06	0.00E+00	-2.79E-05
ADPE	MJ	1.08E+03	4.96E+01	5.87E+01	1.99E+00	1.74E+01	3.46E+01	0.00E+00	-1.41E+03

**LCI origin from GaBi database separates NOx into NO and NO₂, in combination with the applied characterization model with a marginal approach for POCP based on highly polluted ambient air than can result in a negative characterization factor for nitric oxide.

GWP Global warming potential; **ODP** Depletion potential of the stratospheric ozone layer; **POCP** Formation potential of tropospheric photochemical oxidants; **AP** Acidification potential of land and water; **EP** Eutrophication potential; **ADPM** Abiotic depletion potential for non fossil resources; **ADPE** Abiotic depletion potential for fossil resources.

* Also referred to as GWP-GHG in context of e.g. Swedish and Finish legislation.

Resource use, version A1+2 — mandatory indicators

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
RPEE	MJ	1.92E+03	1.75E+01	9.74E+01	7.03E-01	6.13E+00	1.22E+01	0.00E+00	3.97E+03
RPEM	MJ	8.65E+03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.65E+03	0.00E+00	0.00E+00
TPE	MJ	1.06E+04	1.75E+01	9.74E+01	7.03E-01	6.13E+00	-8.64E+03	0.00E+00	3.97E+03
NRPE	MJ	1.39E+03	5.11E+01	7.42E+01	2.05E+00	1.79E+01	3.57E+01	0.00E+00	-1.81E+03
NRPM	MJ	2.86E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.86E+02	0.00E+00	0.00E+00
TRPE	MJ	1.68E+03	5.11E+01	7.42E+01	2.05E+00	1.79E+01	-2.50E+02	0.00E+00	-1.81E+03
SM	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
RSF	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
NRSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.16E+03
W	m ³	2.91E+01	1.40E+00	1.58E+00	5.62E-02	4.90E-01	9.78E-01	0.00E+00	-9.61E+01

RPEE Renewable primary energy resources used as energy carrier; **RPEM** Renewable primary energy resources used as raw materials; **TPE** Total use of renewable primary energy resources; **NRPE** Non renewable primary energy resources used as energy carrier; **NRPM** Non renewable primary energy resources; **SM** Use of secondary materials; **RSF** Use of renewable secondary fuels; **NRSF** Use of non renewable secondary fuels; **W** Use of net fresh water.

Energy stored as material in the packaging materials is direct balanced out in the module it arrise and stored in the product is balanced out over the life cycle, exactly the same as stored biogenic carbon is reported in GWP.

End of life — Waste, version A1+2 — mandatory indicators

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
HW	kg	3.71E-04	2.15E-10	1.86E-05	8.64E-12	7.53E-11	1.50E-10	0.00E+00	-2.96E-07
NHW	kg	1.43E+00	6.44E-03	7.21E-02	2.58E-04	2.25E-03	4.50E-03	0.00E+00	-4.07E+00
RW	kg	1.19E-01	5.54E-05	6.03E-03	2.22E-06	1.94E-05	3.87E-05	0.00E+00	-2.76E-01

HW Hazardous waste disposed; NHW Non hazardous waste disposed; RW Radioactive waste disposed

End of life — Output flow, version A1+2 — mandatory indicators

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
CR	kg	0.00E+00							
MR	kg	1.46E+00	0.00E+00						
MER	kg	2.18E-01	0.00E+00	3.23E-02	0.00E+00	0.00E+00	5.34E+02	0.00E+00	0.00E+00
EEE	MJ	0.00E+00							
ETE	MJ	1.04E-01	0.00E+00	5.22E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CR Components for reuse; MR Materials for recycling; MER Materials for energy recovery; EEE Exported electric energy; ETE Exported thermal energy

Information describing the biogenic carbon content at the factory gate						
Biogenic carbon content	Amount	Unit				
Biogenic carbon content in product	218	kg C				
Biogenic carbon content in the accompanying packaging	0	kg C				

44/12 is the ratio between the molecular mass of CO_2 and C molecules.

The carbon and its energy content stored in packaging materials is less tha 5% and therefore according to EN 15804 direct balanced out in the environmental indicator result.

Additional Norwegian requirements

Greenhous gas emission from the use of electricity in the manufacturing phase

Swedish 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).

Data source	Amount	Unit
Hydro power, Gabi database 2021.1.	0.014	kg CO ₂ e/kWh

Dangerous substances

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

- □ The product contains substances given by the REACH Candidate list or the Norwegian priority list that are less than 0,1 % by weight.
- □ The product contain dangerous substances, more then 0,1% by weight, given by the REACH Candidate List or the Norwegian Priority list, see table.

The product contains no substances given by the REACH Candidate list or the Norwegian priority list. The product is classified as hazardous waste (Avfallsforskiften, Annex III), see table below.

Name	CAS no.	Amount
—	_	—

Indoor environment

Not relevant

Carbon footprint

Carbon footprint according to ISO 14067 has not been worked out for the product.

Bibliography	
ISO 14025:2006	Environmental labels and declarations - Type III environmental declarations - Principles and procedures.
ISO 14044:2006+A1:2017+A2:2020	Environmental management - Life cycle assessment - Requirements and guidelines.
EN 15804:2012+A1:2013	Sustainability of construction works — Environmental product declaration — Core rules for the product category of construction products.
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EPD for the best environmental decision





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