

ENVIRONMENTAL PRODUCT DECLARATION

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



A sector EPD for the specific product

Swedish planed timber of Spruce, Scots Pine or Contorta, u 16%



**SVENSKT
TRÄ**

Owner of the declaration:
Swedish Wood
Box 55525, 102 04 Stockholm
www.svenskttra.se

Program holder and publisher
The Norwegian EPD Foundation

Declaration number:
NEPD-17020-21156

Product category /PCR:
Wood and wood-based products

Issue date: 20.07.2026
Valid to: 20.07.2031

EPD Software:
This EPD is based on EandoX EPD module for the Sawmill products (NEPDT219).

General information

Product:

Swedish planed timber of Spruce, Scots Pine or Contorta,
u 16%

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-17020-21156

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 07.10.2021).

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:

1 m³ planed timber

Declared unit with options:

A1-A5, C1-C4 and D

Functional unit:

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Verification:

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

☐ Internal

☒ External

Third party verifier:



Callum Hill, JCH Industrial Ecology Ltd
Independent verifier approved by EPD-Global

Owner of the declaration and manufacturer:

Swedish Wood

Contact person: Patrice Godonou

Phone: +46 8 762 72 60

Email: patrice.godonou@svenskttra.se

Included sawmills in Sweden:

Derome, SCA, Södra, Norra Skog, JGA, Vida, Hilmer
Andersson, Holmen, Setra.

Place of production is listed under data quality report.

Management system etc:

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Organisation no:

SE556067-2924

Issue date:

20.07.2026

Valid to:

20.07.2031

Year of study, data collection:

2022-2025

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



Approved by:



Håkon Hauan
(Managing Director EPD Norway)

Product

Product description:

Planned timber is used for structural purposes, cladding and as component in wood based products. The average moisture ratio of the declared products is 16 % (EN 14298). On request, timber with a different moisture content can be delivered.

Product specification:

Planned timber is produced in different sizes and the declared product is representative for the average sawn timber produced by Swedish sawmills. Difference in the calculated GWP Fossil A1-A3 between a 100% single specie and a mix of each tree species respectively, is less than 4%.

Materials, product	kg/m ³	weight-%
Spruce/whitewood	366	77%
Pine/redwood	111	23%
Other	0	0%
Sum	477	100%

Packaging materials	kg/m ³	weight-%
Wood	1.85	77%
Polyethene film	0.37	16%
Plastic strap	0.16	7%
Steel strip	0	0%
Cardboard	0.0007	0.03%
Sum	2.39	100%

Technical data:

Planned timber is delivered according to qualities and sizes specified by demands on different markets. For the European market, the European EN standards and the Swedish publication 'Appearance grading of softwoods – European spruces, firs, pines, Douglas fir and larches are typically applicable'.

The raw dry mass for spruce is 384 kg/m³ and 420 kg/m³ for pine as Swedish averages and used here to calculate biogenic carbon content and the delivery density including water according to the current moisture content.

Market:

Main markets are Sweden and Northern Europe.

Reference service life:

Reference service life is normally the same as the building when not exposed for weathering, which is typically set to 50 or 60 years.



Use QR code for **fact sheet** on Swedish wood products.

LCA: Calculation rules

Declared unit:

1 m3 planned timber

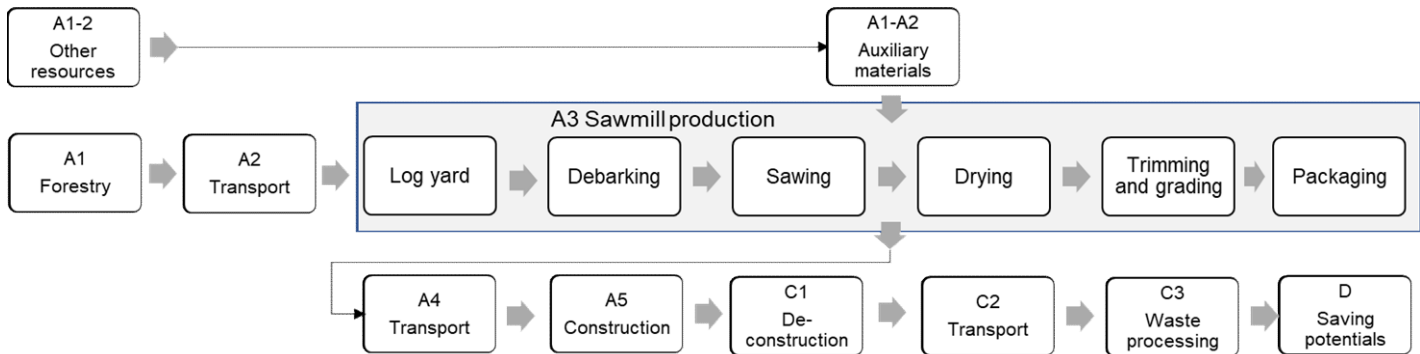
Conversion factor to kg [m³/kg]:

0.00210

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 remaining lifecycle.



Data quality:

The roundwood transport settings and sawmill use specific LCA data. Representative generic data LCA data is used for the forestry and planned timber. Generic upstream database LCA data are used for energy wares and small amount of auxiliary materials that are mainly fromecoinvent 11.1. LCA data for diesel is based on European average (6% biobased components).

Allocation:

The allocation are made in accordance with the provisions of EN15804. All impacts from the planning of boards are allocated to the main product. 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 representative for the final product moisture content. 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 (double accounting) is used for transport (module A2) of round timber to the sawmill based on economic allocation factors as outlined in cPCR EN16485. 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%): Packaging materials are 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)

Type	Load factor, % (90+0%)	Type of vehicle	Distance km	Fuel	Value (l/t)
Semi-trailer	45%	TT/AT 28-34 + 34-40t	300	0.027 l/tkm	8.2

A4: The transportation is reported as 300 km and can be used as factor to estimate the actual distance to the specific object.

Assembly (A5)

	Unit	Value
Material loss	%	5
Crane, electricity consumption	kWh	2.9E-02
Front loader, diesel	kWh	2.8E-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)

	Unit	Value
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.

Use (B1)

	Unit	Value
MND		

Replacement (B4)/Refurbishment (B5)

	Unit	Value
MND		

End of Life (C1, C3, C4) - base scenario*

	Unit	Value
C1: Demolision machine (diesel)	kWh	0.52
C3: To material reuse	kg	0
C3: To material recycling	kg	0
C3: To energy recovery	kg	477
C3: Wood chipping (diesel)	kWh	2.9
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%. See also complementary scenario below.

Transport to waste processing (C2)*

Type	Load factor, % (90+0%)	Type of vehicle	Distance km	Fuel	Value (l/t)
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) - base scenario*

	Unit	Value
Chipped discarded product that substitutes average used fuel in a district heating plant	kg DM	411
	MJ	-7886

D: The chipped product is assumed to be used as fuel in a district heating and then replaces the average energy mix. The efficiency used for allocation is 39% for electricity and 90% for heat. It is assumed that this efficiency is the same independent of the fuel used.

* 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.

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, **ND**= module not declared, **NR**=module not relevant.

Product stage			Construction process stage		Use stage							End of life stage				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
x	x	x	x	x	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x
SE	SE	SE	SE	SE	—	—	—	—	—	—	—	SE	SE	SE	SE	SE

Core environmental impact, version A2 and EF 3.1 — mandatory indicators

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ e	-7.19E+02	1.21E+01	1.60E+01	1.64E-01	1.93E+00	7.54E+02	0.00E+00	-2.91E+02
GWP-fossil	kg CO ₂ e	3.33E+01	1.21E+01	1.14E+01	1.64E-01	1.93E+00	8.90E-01	0.00E+00	-2.91E+02
GWP-biogenic	kg CO ₂ e	-7.53E+02	4.38E-03	4.58E+00	5.95E-05	6.99E-04	7.53E+02	0.00E+00	-4.98E-02
GWP-LULUC	kg CO ₂ e	4.01E-01	2.82E-07	1.59E-07	3.82E-09	4.50E-08	2.07E-08	0.00E+00	-2.07E-06
GWP-IOBC/GHG ¹⁾	kg CO ₂ e	3.37E+01	1.21E+01	1.60E+01	1.64E-01	1.93E+00	8.91E-01	0.00E+00	-2.91E+02
ODP	kg CFC11 eq.	2.64E-06	2.82E-07	1.59E-07	3.82E-09	4.50E-08	2.07E-08	0.00E+00	-2.07E-06
AP	mol H ⁺ eq.	4.01E-01	1.25E-01	3.18E-02	1.69E-03	1.99E-02	9.17E-03	0.00E+00	-2.22E+00
EP-freshwater	kg P eq.	3.45E-03	2.00E-04	1.95E-03	2.70E-06	3.18E-05	1.46E-05	0.00E+00	-1.14E-01
EP-marine	kg N eq.	1.94E-01	6.30E-02	5.51E-02	8.53E-04	1.00E-02	4.62E-03	0.00E+00	-2.54E-01
EP-terrestrial	mol N eq.	2.00E+00	6.43E-01	1.52E-01	8.72E-03	1.03E-01	4.73E-02	0.00E+00	-2.79E+00
POCP	kg NMVOC eq.	5.73E-01	1.90E-01	4.44E-02	2.57E-03	3.02E-02	1.39E-02	0.00E+00	-8.82E-01
ADP-m&m ²⁾	kg Sb eq.	8.01E-05	4.92E-06	7.79E-06	6.67E-08	7.85E-07	3.62E-07	0.00E+00	-5.04E-05
ADP-fossil ²⁾	MJ	6.22E+02	1.55E+02	4.82E+01	2.11E+00	2.48E+01	1.14E+01	0.00E+00	-2.83E+03
WDP	m ³	1.20E+04	5.14E-01	6.00E+02	6.97E-03	8.19E-02	3.78E-02	0.00E+00	-1.23E+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 end compartment; **EP-terrestrial:** 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 for fossil resources; **WDP:** Water deprivation potential, deprivation weighted water consumption

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.

Additional environmental impact, version A2 & EF 3.1 — addition of non-mandatory indicators with poor reliability

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
PM ²⁾	Disease incidence	3.12E-05	3.53E-06	1.68E-06	4.79E-08	5.63E-07	2.60E-07	0.00E+00	-2.36E-05
IRP ¹⁾	kBq U235 eq	1.30E+01	5.46E-02	7.21E-01	7.39E-04	8.70E-03	4.01E-03	0.00E+00	-2.83E+00
ETP-fw ²⁾	CTUe	2.46E+02	5.13E+01	8.47E+01	6.95E-01	8.18E+00	3.77E+00	0.00E+00	-3.68E+02
HTP-c ²⁾	CTUh	1.65E-08	1.60E-09	2.20E-09	2.17E-11	2.56E-10	1.17E-10	0.00E+00	-3.80E-08
HTP-nc ²⁾	CTUh	4.20E-07	3.73E-08	8.72E-08	5.05E-10	5.95E-09	2.74E-09	0.00E+00	-1.06E-06
SQP ²⁾	Dimensionless	5.82E+04	5.54E+01	2.92E+03	7.52E-01	8.84E+00	4.08E+00	0.00E+00	-1.82E+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.

Resource use, version A1+A2 and EF 3.1 — mandatory indicators

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
RPEE	MJ	1.78E+02	5.29E+00	4.07E+02	7.18E-02	8.44E-01	7.89E+03	0.00E+00	-3.72E+03
RPEM	MJ	7.89E+03	0.00E+00	-5.68E-14	0.00E+00	0.00E+00	-7.89E+03	0.00E+00	0.00E+00
TPE	MJ	8.06E+03	5.29E+00	4.07E+02	7.18E-02	8.44E-01	2.21E+00	0.00E+00	-3.72E+03
NRPE	MJ	5.88E+02	1.59E+02	7.05E+01	2.11E+00	2.54E+01	6.44E+01	0.00E+00	-4.09E+03
NRPM	MJ	2.05E+01	0.00E+00	-2.05E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRPE	MJ	6.08E+02	1.59E+02	5.01E+01	2.11E+00	2.54E+01	6.44E+01	0.00E+00	-4.09E+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	0.00E+00
W	m ³	1.13E+01	1.20E-02	5.65E-01	1.62E-04	1.91E-03	8.80E-04	0.00E+00	9.10E-02

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 used as materials; **TRPE** Total 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; **W** Use of net fresh water.

Energy stored as material in the packaging materials is direct balanced out in the module it arises 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+A2 and EF 3.1 — mandatory indicators

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
HW	kg	5.82E-01	1.36E-01	5.04E-01	0.00E+00	2.18E-02	0.00E+00	0.00E+00	-9.88E+02
NHW	kg	1.57E+02	4.75E-01	1.20E+01	0.00E+00	7.57E-02	0.00E+00	0.00E+00	-3.20E+03
RW	kg	1.32E-02	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.05E-04

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

End of life — Output flow, version A1+A2 and EF 3.1 — mandatory indicators

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
CR	kg	2.05E+01	0.00E+00	-2.05E+01	0.00E+00	2.18E-02	0.00E+00	0.00E+00	-9.88E+02
MR	kg	6.08E+02	1.59E+02	5.01E+01	0.00E+00	7.57E-02	0.00E+00	0.00E+00	-3.20E+03
MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-7.05E-04
EEE	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
ETE	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

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/DU
Biogenic carbon content in product	205	kg C
Biogenic carbon content in the accompanying packaging*	0.78*	kg C

44/12 is the ratio between the molecular mass of CO₂ and C molecules.

* The biogenic carbon and its energy content stored in packaging materials is less than 5% and therefore according to EN 15804 direct balanced out in the environmental indicator result (i.e. set to zero for GWP and energy used as materials).

LCA: Complementary scenario results

This section includes an alternative end of life scenario and create an information model that in combination with the main scenario reported above can be used by the end-user to define a specific scenario based on local conditions.

Alternative 100% scenario for the scenario: Deconstruction losses

General: It should be noticed that landfilling of organic waste as wood is not allowed by EC legislation and the worst scenario alternative will then be the fact that the deconstruction/demolition process generate a wood fraction that will not be recycled at all. Such waste flow can be generated in the deconstruction process and where the wood is then wasted on the surface or alternative in the topsoil in the ground at the construction site or elsewhere.

C1, C2: The demolition process C1 is the same as in the main scenario reported above. There will not be any transport C2 since the waste is lost at the site.

C4: The modelled scenario presented below is based on the wood that wooden remains on the site of the building being broken down aerobic, that is, with access to oxygen and completely decomposed within the 100-year time-related cut off that is applied. In such aerobic decomposition is the inherent carbon transformed to carbon dioxide (compared to an anaerobic process that partly also create methene).

End of life stage				Beyond the system boundary
De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery
C1	C2	C3	C4	D
x	x	x	x	x
SE	SE	SE	SE	SE

Core environmental impact, version A2 and EF 3.1 – mandatory indicators

Parameter	Unit				C1	C2	C3	C4	D
GWP-total	kg CO ₂ e				1.64E-01	0.00E+00	0.00E+00	7.53E+02	0.00E+00
GWP-fossil	kg CO ₂ e				1.64E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GWP-biogenic	kg CO ₂ e				5.95E-05	0.00E+00	0.00E+00	7.53E+02	0.00E+00
GWP-LULUC	kg CO ₂ e				3.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GWP-IOBC/GHG ¹⁾	kg CO ₂ e				1.64E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ODP	kg CFC11 eq.				3.82E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00
AP	mol H ⁺ eq.				1.69E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EP-freshwater	kg P eq.				2.70E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EP-marine	kg N eq.				8.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EP-terrestrial	mol N eq.				8.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
POCP	kg NMVOC eq.				2.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADP-m&m ²⁾	kg Sb eq.				6.67E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ADP-fossil ²⁾	MJ				2.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
WDP	m ³				6.97E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+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 end compartment; **EP-terrestrial:** 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 for fossil resources; **WDP:** Water deprivation potential, deprivation weighted water consumption

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.

Additional environmental impact, version A2 & EF 3.1 – addition of non-mandatory indicators with poor reliability

Parameter	Unit				C1	C2	C3	C4	D
PM ²⁾	Disease incidence				4.79E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
IRP ¹⁾	kBq U235 eq				7.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETP-fw ²⁾	CTUe				6.95E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HTP-c ²⁾	CTUh				2.17E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
HTP-nc ²⁾	CTUh				5.05E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SQP ²⁾	Dimensionless				7.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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.

Resource use, version A1+2 and EF 3.1 — mandatory indicators

Parameter	Unit				C1	C2	C3	C4	D
RPEE	MJ				7.18E-02	0.00E+00	0.00E+00	7.89E+03	0.00E+00
RPEM	MJ				0.00E+00	0.00E+00	0.00E+00	-7.89E+03	0.00E+00
TPE	MJ				7.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPE	MJ				2.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRPM	MJ				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRPE	MJ				2.11E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SM	kg				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
NRSF	MJ				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
W	m ³				1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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 used as materials; **TRPE** Total 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; **W** Use of net fresh water.

Energy stored as energy in the packaging materials is directly balanced out in the module it arises, and stored biogenic carbon 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 and EF 3.1 — mandatory indicators

Parameter	Unit				C1	C2	C3	C4	D
HW	kg				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NHW	kg				0.00E+00	0.00E+00	0.00E+00	4.77E+02	0.00E+00
RW	kg				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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

End of life — Output flow, version A1+2 and EF 3.1 — mandatory indicators

Parameter	Unit				C1	C2	C3	C4	D
CR	kg				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	kg				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MER	kg				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ				0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETE	MJ				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

Additional requirements

The GWP total indicator result reported below is the same result as the indicator value as for GWP-IOBC/GHG.

See below for an alternative figure for electricity A1-3 compared to the are reported LCA result:

Location based electricity mix from the use of electricity in manufacturing

National electricity grid	Data source	Foreground /core [kWh]	GWPtotal [kg CO ₂ e/kWh]	Sum [kg CO ₂ e]
Location based approach, electricity bought by sawmills	ecoinvent	219	0.030	6.6

The GWP result above is based on national production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity bought in the core manufacturing process in module A3 per declared unit.

The reported LCA result in this EPD and the core process in A3 use this approach:

Market-based use of electricity in the manufacturing phase

Electricity source	Data source	Foreground /core [kWh]	GWPtotal [kg CO ₂ e/kWh]	Sum [kg CO ₂ e]
Electricity in A3 using market based approach	ecoinvent	219	0.025	5.4

Hazardous substances

- ☒ The product contains no substances given by the REACH Candidate 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, 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 (Avfallsforskiten, 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.

Data quality report — according to EN 15941, section 7.3.3

Comments to data quality report	All datasets are considered good or very good for all representativeness aspects apart from geographical representativeness. Here some datasets from EPDs may be considered only fair as they are for a specific country not known its representative for a Swedish or European context when used as generic proxy data. No such proxy data is used in the EPD.
Site of production used	Strängnäs, Alvesta, Borgstena, Hestra, Hjärtevad, Hästveda, Nössemark, Urshult, Vislanda, Mörlunda, Orrefors, Vimmerby, Tranemo, Braviken, Kroksjön, Säffle, Ämotfors, Linneryd, Kåge and Hissmofors, Kinda, Långasjö, Mönsterås, Orrefors, Ramkvilla, Torsås, Unnefors, Värö, Klevshult, Stugun, Tunadal, Derome, Kinnared, Maa, Okome, Hasselfors, Malå
Relative production volume	The including companies and their production sites represents 74% of planed boards produced in Sweden
Geography	Produced in Sweden and sold on the domestic market and around 75% of the production are exported
Technology	Planed timber is made from durable Swedish forestry and mechanical harvested and sawmills use artificial drying
Averaging, product	The declared product is specific and is reprenative for dried planed timber according to the moisture class 16
Averaging, sites	Yes, it is a sector EPD averaged by manufacturing volume
Generic LCA database	ecoinvent 3:11
EPD used	None
Data quality scheme	EN 15804:2012+A2:2019, Annex E, Table E.2
Use of fair data with more than 30 % of a core impact	None
Use of Poor relevant data	None
Use of Very Poor relevant	None
Data quality coverage	100% module A1-A3

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 epd-global Powered by EPD-Norway	Program operator and publisher The Norwegian EPD Foundation Post Box 5250 Majorstuen, 0303 Oslo Norway	Phone: +47 23 08 80 00 e-mail: post@epd-norge.no web: www.epd-norge.no
 SVENSKT TRÄ	Owner of the declaration Swedish Wood Box 55525, 102 04 Stockholm	Phone: +46 8 762 72 60 web: patrice.godonou@svenskttra.se
 bimobject ®	Author of the Life Cycle Assessment Martin Erlandsson BIMobject	Phone: +46 (0) 10-148 01 65 web: www.bim.com
	ECO Platform ECO Platform ECO Portal	web: www.eco-platform.org web: www.eco-platform.org/epd-data.html

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