

Environmental product declaration

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

A specific EPD from Derome for planed timber made of pine, u 18%



Owner of the declaration:

Derome Timber AB
Bjurumsvägen 14
432 68 Veddige
Sweden
www.derome.se

Program holder and publisher

The Norwegian EPD Foundation

Declaration number:

NEPD-11832-11752

Issue date: 14.07.2025

Product category /PCR:

NPCR 015, Part B for wood
and wood-based products

Valid to: 14.07.2030

EPD Software:

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

General information

Product:

Planed timber made of pine, u 18%
Hyvlat Furu, u 18%

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-11832-11752

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 wood with a moisture content (u) of 18%

Declared unit with option:

1 m3 planed timber
A1-A5, C1-C4 and D

Functional unit:

—

Verification:

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

☐ Internal ☒ External

Third party verifier:

Callum Hill
JCH Industrial Ecology Ltd (www.jchie.co.uk)
Independent verifier approved by EPD Norway

Owner of the declaration and manufacturer:

Derome Timber AB
Contact person: Elias Brag
Phone: +46 (0)340 666410
Email: info@derome.se
Web: www.derome.se

Place of production:

Anneberg
Sweden

Management system etc:

FSC DNV-COC-001567 & DNV-CW-001567
PEFC DNVSE-PEFC-COC-211

Organisation no:

SE 556550-6960

Issue date:

14.07.2025

Valid to:

14.07.2030

Year of study:

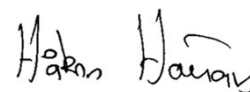
2022

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:

Elias Brag
Project Manager, Derome Timber AB

Approved by:

Håkon Hauan
Managing Director EPD Norway

Product

Product description:

Planed timber is used for structural purposes and as component in wood based products. The average moisture ratio of the declared products is 18 % (EN 14298). On request, timber with a different moisture content can be delivered.

Product specification:

Planed timber is produced in different sizes and the declared product is representative for the average planed timber produced by the sawmill.

Materials, product	kg/m ³	weight-%
Spruce/whitewood	0	0%
Pine/redwood	515	100%
Sum	515	100%

Packaging materials	kg/m ³	weight-%
Wood	2,95	81%
Polyethene film	0,61	17%
Plastic strap	0,08	2%
Steel strip	0	0%
Cardboard	0	0%
Sum	3,64	100%

Technical data:

Planed 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 pine is 420 kg/m³ for pine as a Swedish average and used here to calculate biogenic carbon content and the delivery density including water according to the current

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 planed timber

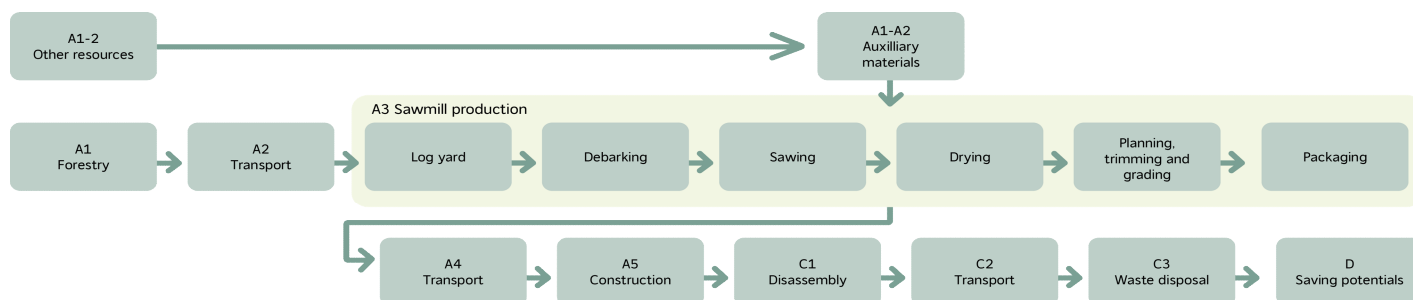
Conversion factor to kg [m³/kg]:

0,00194

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 planing/sawmill use specific LCA data. Representative generic data LCA data is used for the forestry. Generic upstream database LCA data are used for energy wares and small amount of auxiliary materials that are mainly fromecoinvent 10.1. 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. The shavings is sold and attributed to its upstream impact from its previously processes.

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	3,1E-02
Front loader, diesel	kWh	3,0E-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 at construction site.

Use (B1)

	Unit	Value
MND		

Maintenance (B2)/Repair (B3)

	Unit	Value
MND		

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

Replacement (B4)/Refurbishment (B5)

	Unit	Value
MND		

Operational energy (B6) and water consumption (B7)

	Unit	Value
MND		

No operational energy used during service life.

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

	Unit	Value
C1: Demolition machine (diesel)	kWh	0,57
C3: To material reuse	kg	0
C3: To material recycling	kg	0
C3: To energy recovery	kg	515
C3: Wood chipping (diesel)	kWh	3,1
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 al (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 transport 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 discard product that substitutes fuel in a district heating plant	kg DM	437
Chipped discarded product that substitute average used fuel in a district heating plant	MJ	-8381

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, **MND**= module not declared, **MNR**=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	MND	MND	MND	MND	MND	MND	MND	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	-7,69E+02	1,60E+01	2,45E+00	1,82E-01	0,00E+00	8,01E+02	0,00E+00	-1,99E+02
GWP-fossil	kg CO ₂ e	3,08E+01	1,60E+01	2,43E+00	1,82E-01	0,00E+00	1,01E+00	0,00E+00	-2,09E+02
GWP-biogenic	kg CO ₂ e	-8,00E+02	2,14E-01	1,21E-02	2,44E-03	0,00E+00	8,00E+02	0,00E+00	1,09E+01
GWP-LULUC	kg CO ₂ e	6,72E-02	1,12E-02	4,11E-03	1,28E-04	0,00E+00	7,10E-04	0,00E+00	-3,60E-03
GWP-IOBC/GHG ¹⁾	kg CO ₂ e	3,09E+01	1,60E+01	2,44E+00	1,82E-01	0,00E+00	1,01E+00	0,00E+00	-1,89E+02
ODP	kg CFC11 eq.	2,19E-06	3,24E-07	1,28E-07	3,69E-09	3,02E-08	2,05E-08	0,00E+00	-1,31E-06
AP	mol H ⁺ eq.	5,73E-01	1,55E-01	3,74E-02	1,77E-03	1,51E-02	9,81E-03	0,00E+00	-4,43E-01
EP-freshwater	kg P eq.	4,36E-03	2,63E-04	2,33E-04	3,00E-06	6,92E-05	1,66E-05	0,00E+00	-4,01E-04
EP-marine	kg N eq.	2,85E-01	7,64E-02	1,85E-02	8,70E-04	8,11E-03	4,83E-03	0,00E+00	-6,68E-03
EP-terrestrial	mol N eq.	2,90E+00	8,02E-01	1,90E-01	9,13E-03	7,71E-02	5,07E-02	0,00E+00	8,51E-02
POCP	kg NMVOC eq.	6,90E-01	2,40E-01	4,80E-02	2,73E-03	1,05E-02	1,51E-02	0,00E+00	-4,35E-02
ADP-m&m ²⁾	kg Sb eq.	1,90E-04	4,92E-06	9,77E-06	5,60E-08	7,21E-07	3,11E-07	0,00E+00	-1,31E-05
ADP-fossil ²⁾	MJ	5,05E+02	2,03E+02	3,68E+01	2,31E+00	2,04E+01	1,28E+01	0,00E+00	-1,92E+03
WDP	m ³	3,97E+02	5,64E-01	1,99E+01	6,42E-03	2,40E+01	3,56E-02	0,00E+00	-3,81E+03

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 Finnish 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	1,37E-05	4,42E-06	9,34E-07	5,03E-08	8,08E-08	2,79E-07	0,00E+00	1,70E-02
IRP ¹⁾	kBq U235 eq	2,55E+00	9,78E-02	1,43E-01	1,11E-03	4,59E-02	6,18E-03	0,00E+00	-3,06E+01
ETP-fw ²⁾	CTUe	6,64E+02	4,71E+02	5,96E+01	5,36E+00	0,00E+00	2,97E+01	0,00E+00	0,00E+00
HTP-c ²⁾	CTUh	3,57E-08	1,76E-09	1,88E-09	2,00E-11	7,12E-10	1,11E-10	0,00E+00	-1,34E-08
HTP-nc ²⁾	CTUh	1,02E-06	3,74E-07	7,21E-08	4,26E-09	0,00E+00	2,36E-08	0,00E+00	0,00E+00
SQP ²⁾	Dimensionless	6,01E+04	2,10E+01	3,01E+03	2,39E-01	2,61E+01	1,33E+00	0,00E+00	-3,89E+02

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 & CF based on CML 2012

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
GWP-TOT	kg CO ₂ e	-7,68E+02	1,59E+01	2,48E+00	1,82E-01	1,31E+00	8,01E+02	0,00E+00	-2,00E+02
GWP-IOBC*	kg CO ₂ e	3,20E+01	1,57E+01	2,48E+00	1,79E-01	1,31E+00	9,94E-01	0,00E+00	-1,89E+02
ODP	kg CFC11 e	8,16E-07	2,59E-07	5,53E-08	2,94E-09	2,72E-08	1,63E-08	0,00E+00	-1,08E-06
POCP**	kg C ₂ H ₄ e	3,14E-02	1,57E-02	2,45E-03	1,79E-04	-2,70E-03	9,94E-04	0,00E+00	1,15E-02
AP	kg SO ₂ e	3,33E-01	1,08E-01	2,27E-02	1,24E-03	9,69E-03	6,86E-03	0,00E+00	-4,16E-01
EP	kg PO ₄ ³⁻ e	1,46E-01	4,78E-02	9,99E-03	5,44E-04	3,75E-03	3,02E-03	0,00E+00	1,05E-02
ADPE	MJ	1,55E-04	4,92E-06	8,05E-06	5,60E-08	7,22E-07	3,11E-07	0,00E+00	-1,63E-05
ADPM	kg Sb e	4,46E+02	2,02E+02	3,36E+01	2,30E+00	1,98E+01	1,27E+01	0,00E+00	-1,30E+03

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.

* This indicator is also referred to as **GWP-GHG** in Swedish legislation and used in the Finish and Swedish mandatory generic database for building climate declarations.

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

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

Parameter	Unit	A1-3	A4	A5	C1	C2	C3	C4	D
RPEE	MJ	1,27E+03	4,48E+00	6,38E+01	5,10E-02	7,00E+00	2,83E-01	0,00E+00	7,38E+03
RPEM	MJ	8,38E+03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,68E+04	0,00E+00	0,00E+00
TPE	MJ	9,65E+03	4,48E+00	6,38E+01	5,10E-02	7,00E+00	-1,68E+04	0,00E+00	7,38E+03
NRPE	MJ	4,27E+02	2,03E+02	3,29E+01	2,31E+00	2,04E+01	1,28E+01	0,00E+00	-1,35E+03
NRPM	MJ	1,96E+00	0,00E+00	9,82E-02	0,00E+00	0,00E+00	-1,96E+00	0,00E+00	0,00E+00
TRPE	MJ	4,32E+02	2,06E+02	3,33E+01	2,31E+00	2,04E+01	1,09E+01	0,00E+00	-1,35E+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	-5,38E+03
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,45E+03
W	m ³	9,10E+00	1,31E-02	4,56E-01	1,49E-04	5,60E-01	8,30E-04	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 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	7,22E-01	1,28E-01	4,33E-02	1,45E-03	8,60E-11	8,06E-03	0,00E+00	-3,59E-08
NHW	kg	4,32E+00	0,00E+00	2,16E-01	0,00E+00	2,57E-03	0,00E+00	0,00E+00	-7,26E-01
RW	kg	8,00E-04	0,00E+00	4,00E-05	0,00E+00	2,21E-05	0,00E+00	0,00E+00	-2,44E-01

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	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MR	kg	5,00E-01	0,00E+00	2,50E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MER	kg	1,38E-02	0,00E+00	3,64E+00	0,00E+00	0,00E+00	5,15E+02	0,00E+00	0,00E+00
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	1,78E-01	0,00E+00	8,91E-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/DU
Biogenic carbon content in product	218	kg C
Biogenic carbon content in the accompanying packaging*	1,25*	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				1,82E-01	0,00E+00	0,00E+00	8,00E+02	0,00E+00
GWP-fossil	kg CO ₂ e				1,82E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP-biogenic	kg CO ₂ e				2,44E-03	0,00E+00	0,00E+00	8,00E+02	0,00E+00
GWP-LULUC	kg CO ₂ e				1,28E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP-IOBC/GHG ¹⁾	kg CO ₂ e				1,82E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ODP	kg CFC11 eq.				3,69E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00
AP	mol H ⁺ eq.				1,77E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP-freshwater	kg P eq.				3,00E-06	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP-marine	kg N eq.				8,70E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP-terrestrial	mol N eq.				9,13E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00
POCP	kg NMVOC eq.				2,73E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADP-m&m ²⁾	kg Sb eq.				5,60E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADP-fossil ²⁾	MJ				2,31E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
WDP	m ³				6,42E-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 Finnish 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				5,03E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00
IRP ¹⁾	kBq U235 eq				1,11E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ETP-fw ²⁾	CTUe				5,36E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
HTP-c ²⁾	CTUh				2,00E-11	0,00E+00	0,00E+00	0,00E+00	0,00E+00
HTP-nc ²⁾	CTUh				4,26E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00
SQP ²⁾	Dimensionless				2,39E-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.

Environmental impact, version A1 and CF based on CML 2012

Parameter	Unit				C1	C2	C3	C4	D
GWP-TOT	kg CO ₂ e				1,82E-01	0,00E+00	0,00E+00	8,00E+02	0,00E+00
GWP-IOBC*	kg CO ₂ e				1,79E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ODP	kg CFC11 e				2,94E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00
POCP**	kg C ₂ H ₄ e				1,79E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00
AP	kg SO ₂ e				1,24E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EP	kg PO ₄ ³⁻ e				5,44E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADPE	MJ				5,60E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ADPM	kg Sb e				2,30E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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.

** Negative impact occur due to negative characterization factors. LCI origin from GaBi database separates NO_x 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.

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

Parameter	Unit				C1	C2	C3	C4	D
RPEE	MJ				5,10E-02	0,00E+00	0,00E+00	1,68E+04	0,00E+00
RPEM	MJ				0,00E+00	0,00E+00	0,00E+00	-1,68E+04	0,00E+00
TPE	MJ				5,10E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRPE	MJ				2,31E+00	0,00E+00	0,00E+00	1,96E+00	0,00E+00
NRPM	MJ				0,00E+00	0,00E+00	0,00E+00	-1,96E+00	0,00E+00
TRPE	MJ				2,31E+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				1,49E-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				1,45E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NHW	kg				0,00E+00	0,00E+00	0,00E+00	5,15E+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.

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

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]
Electricity grid mix Sweden	ecoinvent	100	0,020	2,034
Electricity grid mix Sweden	Gabi	100	0,042	4,212

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.

An alternative figure for electricity used in the core process are reported here that can be used to recalculate the result A1-3:

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 are using GoOs or residual mix Sweden	Gabi	100	0,082	8,172

The GWP result above is based on:

- ☒ Guarantee of origin (GoO) electricity used
☐ National residual mix electricity according to Grexel/AIB

Data used in the upstream system that use source of origin are listed below:

No such data are used.

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
☐ 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 (Avfallsforskriften, 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.
EN 15804:2012+A2:2019	Sustainability of construction works — Environmental product declaration — Core rules for the product category of construction products.
ISO 21930:2007	Sustainability in building construction — Environmental declaration of building products.
c-PCR NPCR 015	PCR Part B for wood and woodbased products for use in construction (07.10.2021).
Erlandsson M, Peterson D:	Klimatpåverkan för byggnader med olika energiprestanda. För Energimyndigheten och
Horn et al	Land use and forestry in the environmental footprint. Fraunhofer Institute for Building Physics IBP et al, carried out on behalf of Cepi. Stuttgart, 2021-09-29.
Erlandsson M	Generic LCA report for the EPD generator: Sawmill products – As the basis for the publication of EPDs within EPD Norway. Revised March 2025.
Brag E	Supplementary LCA report for Derome Timber: Planed pine timber u 18%. June 2025.
Lundström J	Energy consumption for different frame materials during the production phase of an apartment building. Diploma work, HT2016, BY1704, Umeå University.

	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
	Owner of the declaration Derome Timber AB Bjurumsvägen 14, 432 68 Veddige Sweden	Phone: +46 (0)340 666410 e-mail: info@derome.se web: www.derome.se
	Author of the Life Cycle Assessment Elias Brag Derome Timber AB	Phone: +46 (0)340 666410 e-mail: info@derome.se web: www.derome.se
	ECO Platform ECO Platform ECO Portal	web: www.eco-platform.org web: www.eco-platform.org/epd-data.html

EPD for the best environmental decision

