

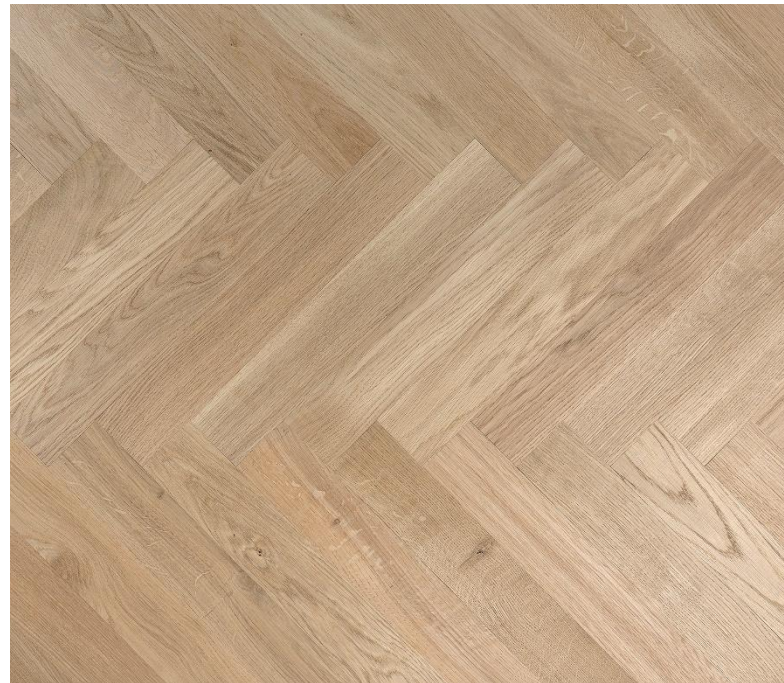


ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Solid Oak Floor

Berg & Berg Sweden AB



EPD HUB, HUB-4239

Published on 24.10.2025, last updated on 24.10.2025, valid until 23.10.2030

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF 3.1.



Created with One Click LCA

Berg & Berg 

GENERAL INFORMATION

MANUFACTURER

Manufacturer	Berg & Berg Sweden AB
Address	Flyttblocksvägen 2, 372 52 Kallinge. Sweden
Contact details	mikael.carlevad@berg-berg.com
Website	https://berg-berg.com/

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Alexander Mathisen
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☒ External verification
EPD verifier	Sarah Curpen, as an authorised verifier acting for EPD Hub Limited

This EPD is intended for business-to-business and/or business-to-consumer communication. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Solid Oak Floor
Additional labels	Floor, Wooden floor
Product reference	-
Place(s) of raw material origin	Sweden
Place of production	Kallinge, Sweden
Place(s) of installation and use	Sweden
Period for data	01/01/2024 - 31/12/2024
Averaging in EPD	No grouping
Variation in GWP-fossil for A1-A3 (%)	N/A
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	46,7

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 m ²
Declared unit mass	11 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	1,78E+00
GWP-total, A1-A3 (kgCO ₂ e)	-7,20E+01
Secondary material, inputs (%)	0,07
Secondary material, outputs (%)	73
Total energy use, A1-A3 (kWh)	141
Net freshwater use, A1-A3 (m ³)	0,02

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Our philosophy at Berg & Berg is to keep the entire manufacturing process in our own hands, from logs to ready parquet. We buy logs from forest owners in our region and take care of all parts in the logs during production. We are certified for FSC and Natureplus and stand for local and high quality manufacturing. It goes without saying that Berg & Berg floors are beautiful and visually timeless.

PRODUCT DESCRIPTION

Solid oak flooring that has been dried to 8% moisture content. The width is 68 mm and it is available as standard in five lengths: 204, 272, 340, 408 and 476 mm, and four different grades. The floor is planed from the factory and is glued down to the subfloor before being sanded and surface treated. It is possible to lay the floor in several different patterns such as parallel joint, herringbone, Dutch pattern and braid pattern. The floors are made from local raw materials.

Further information can be found at berg-berg.com.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	0	-
Minerals	0	-
Fossil materials	0	-
Bio-based materials	100	Sweden

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	21,16
Biogenic carbon content in packaging, kg C	0,01

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 m ²
Mass per declared unit	11 kg
Functional unit	-
Reference service life	Use stage not included

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage								End of life stage				Beyond the system boundaries
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
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use		Deconstr./demol.	Transport	Waste processing	Disposal	Reuse
																	Recovery
																	Recycling

Modules not declared = ND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

Oak logs are sawn in the sawmill into strips which are then dried. After drying, planks are cut, planed and milled into finished flooring. Finally, the finished flooring is packaged.

A market-based approach is used in modelling the electricity mix utilized in the factory. The use of green energy in manufacturing is demonstrated through contractual instruments (GOs, RECs, etc.), and its use is ensured throughout the validity period of this EPD.

Production losses in the form of wood chips are sold as a co-product.

If transport modes and distances were unknown for certain materials, a transport distance of 50 km was assumed, in combination with Lorry, >32 tonne, EURO 5 being the chosen transport mode. These assumptions were made for all life cycle modules unless longer distances or other modes (e.g. sea or air travel) were relevant.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

The transportation distance from the manufacturer to the installation site was unknown, and were therefore set to 50 km in combination with Lorry, >32 tonne, EURO 5, according to the description in previous section.

According to the manufacturer, an installation loss of 15 % have been set. The installation loss is related to adaptation of the oak floor to fit the surface at the installation site. While 100 % of the waste packaging is assumed to be sorted for municipal incineration, an efficiency rate of 73 % when recovering energy and electricity during incineration of the packaging materials has been assumed. The transport distance from customer to the nearest waste treatment plant was set to 50 km, in combination with Lorry, >32 tonne, EURO 5 being the chosen transport mode.

According to the manufacturer, the installation of the floor is carried out entirely by hand. Therefore, energy consumption in the form of electricity and other fuels has been assumed to be zero during installation. The same reasoning has also been implemented during disassembly.

PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase. Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

The end-of-life stage C1-C4 & D includes:

- Deconstruction/demolition (C1)
- Transport to waste management facility (C2)
- Waste processing for reuse, recovery and/or recycling (C3)
- Waste disposal (C4)

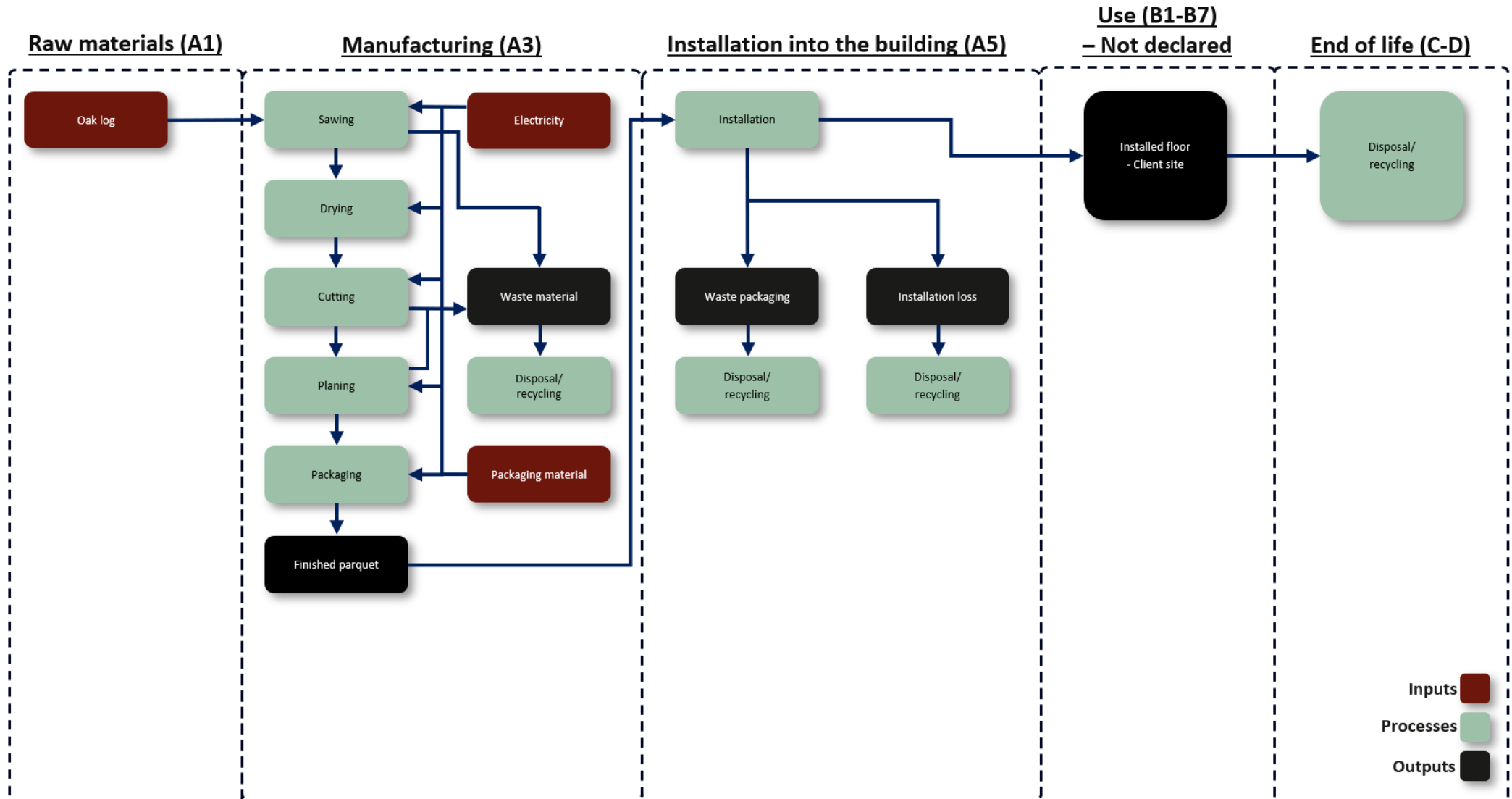
Waste processing and disposal credits are assigned to module D.

Module D includes reuse, recovery and/or recycling potentials conveyed as benefits and net impacts. While 100% of the waste material is assumed to be incinerated in a municipal incineration plant, an efficiency rate of 73 % when recovering energy and electricity during incineration of these materials have been assumed.

Demolition of the floor was assumed to be done entirely by hand, without the use of electric or fuel-powered machines. Therefore, no energy consumption has been specified in module C1.

If transport modes and distances were unknown for certain materials, a transport distance of 50 km was assumed, in combination with Lorry, >32 tonne, EURO 5 being the chosen transport mode.

MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and generic data were used for the product's manufacturing stage. The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	No allocation
Packaging material	No allocation
Ancillary materials	Not applicable
Manufacturing energy and waste	Allocated by mass or volume

- EU pallets are assumed to be reused 20 times before final disposal.
- The assumption of a transport distance of 50 km to waste management station at end of life is calculated based on the total number of waste management facilities in Sweden. The transport distance has been rounded up considerably to make a conservative assumption.
- Assumed grid-losses of 4,46% related to transformation and distribution of electricity.
- Since there is no information of how the product is handled by costumers at end of life, it is assumed that the entire product is sent to municipal incineration to make a conservative assumption. However, it is not consider it reasonable to assume that all material is burned in this process, without a certain part of the material remaining as ash and residues at the bottom during the incineration. Therefore, an assumption have been developed that 27% of the material sent to incineration still ends up as landfill.

AVERAGES AND VARIABILITY

Type of average	No averaging
Averaging method	Not applicable
Variation in GWP-fossil for A1-A3 (%)	Not applicable

This EPD is product and factory specific and does not contain average calculations.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1 environmental data sources follow the methodology 'allocation, Cut-off, EN 15804+A2'.

ENVIRONMENTAL IMPACT DATA

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

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	-7,28E+01	4,71E-01	3,36E-01	-7,20E+01	7,24E-02	4,64E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,92E-02	7,40E+01	0,00E+00	-3,40E+00
GWP – fossil	kg CO ₂ e	9,50E-01	4,71E-01	3,60E-01	1,78E+00	7,23E-02	4,16E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,92E-02	1,71E-01	0,00E+00	-3,40E+00
GWP – biogenic	kg CO ₂ e	-7,38E+01	0,00E+00	-4,00E-02	-7,38E+01	0,00E+00	4,00E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	7,38E+01	0,00E+00	0,00E+00
GWP – LULUC	kg CO ₂ e	3,77E-02	1,77E-04	1,57E-02	5,35E-02	3,24E-05	8,04E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,65E-05	4,72E-05	0,00E+00	-4,47E-03
Ozone depletion pot.	kg CFC-11e	1,46E-08	9,48E-09	6,16E-09	3,03E-08	1,07E-09	5,21E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,74E-10	1,92E-09	0,00E+00	-3,70E-08
Acidification potential	mol H ⁺ e	5,14E-03	1,52E-03	1,83E-03	8,49E-03	2,47E-04	1,67E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,02E-04	1,77E-03	0,00E+00	-2,26E-02
EP-freshwater ²⁾	kg Pe	6,98E-04	3,18E-05	1,27E-04	8,57E-04	5,63E-06	1,43E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,61E-06	7,40E-05	0,00E+00	-2,02E-03
EP-marine	kg Ne	2,16E-03	5,17E-04	3,79E-04	3,06E-03	8,10E-05	6,55E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,63E-05	9,42E-04	0,00E+00	-3,18E-03
EP-terrestrial	mol Ne	2,12E-02	5,62E-03	3,87E-03	3,07E-02	8,82E-04	6,51E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,22E-04	9,04E-03	0,00E+00	-3,18E-02
POCP (“smog”) ³⁾	kg NMVOCe	1,75E-02	2,48E-03	1,69E-03	2,16E-02	3,64E-04	3,76E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,98E-04	2,27E-03	0,00E+00	-1,01E-02
ADP-minerals & metals ⁴⁾	kg Sbe	2,35E-06	1,30E-06	7,36E-06	1,10E-05	2,02E-07	1,78E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,65E-07	3,50E-07	0,00E+00	-3,38E-06
ADP-fossil resources	MJ	1,30E+01	6,83E+00	5,92E+00	2,58E+01	1,05E+00	4,45E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,59E-01	1,51E+00	0,00E+00	-5,15E+01
Water use ⁵⁾	m ³ e depr.	2,61E-01	3,50E-02	6,57E-01	9,53E-01	5,18E-03	2,09E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,24E-03	3,59E-01	0,00E+00	-9,24E-01

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO₄e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	6,35E-08	4,69E-08	2,78E-08	1,38E-07	7,24E-09	2,64E-08	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,93E-09	1,99E-08	0,00E+00	-1,96E-07
Ionizing radiation ⁶⁾	kBq 11235a	2,03E-02	8,23E-03	2,08E-02	4,93E-02	9,14E-04	8,00E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,48E-04	1,72E-03	0,00E+00	-8,98E-01
Ecotoxicity (freshwater)	CTUe	6,51E+00	8,05E-01	2,25E+00	9,57E+00	1,48E-01	1,70E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,22E-01	1,16E+00	0,00E+00	-6,31E+00
Human toxicity, cancer	CTUh	1,24E-09	7,76E-11	2,95E-10	1,61E-09	1,19E-11	3,03E-10	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,77E-12	3,18E-10	0,00E+00	-6,70E-10
Human tox. non-cancer	CTUh	5,29E-09	4,44E-09	7,99E-09	1,77E-08	6,80E-10	6,70E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,56E-10	2,14E-08	0,00E+00	-2,84E-08
SQP ⁷⁾	-	4,03E+03	6,88E+00	9,30E+00	4,04E+03	1,06E+00	6,07E+02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,65E-01	4,24E-01	0,00E+00	-2,07E+01

6) EN 15804+A2 disclaimer for ionizing radiation, human health. 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; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	4,31E+02	1,11E-01	5,12E+01	4,83E+02	1,44E-02	4,01E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,18E-02	-1,86E+02	0,00E+00	-1,07E+01
Renew. PER as material	MJ	3,68E+02	0,00E+00	3,53E-01	3,69E+02	0,00E+00	-3,53E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-3,68E+02	0,00E+00	0,00E+00
Total use of renew. PER	MJ	7,99E+02	1,11E-01	5,16E+01	8,51E+02	1,44E-02	3,97E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,18E-02	-5,55E+02	0,00E+00	-1,07E+01
Non-re. PER as energy	MJ	1,31E+01	6,83E+00	4,51E+00	2,44E+01	1,05E+00	3,03E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,59E-01	1,51E+00	0,00E+00	-5,15E+01
Non-re. PER as material	MJ	0,00E+00	0,00E+00	1,34E+00	1,34E+00	0,00E+00	-1,34E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of non-re. PER	MJ	1,31E+01	6,83E+00	5,85E+00	2,57E+01	1,05E+00	1,68E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,59E-01	1,51E+00	0,00E+00	-5,15E+01
Secondary materials	kg	7,36E-03	2,95E-03	2,21E-02	3,25E-02	4,47E-04	5,63E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,66E-04	3,54E-03	0,00E+00	-5,42E-03
Renew. secondary fuels	MJ	7,43E-05	3,73E-05	1,30E-02	1,31E-02	5,68E-06	1,97E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,64E-06	8,39E-06	0,00E+00	-2,48E-05
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m ³	6,20E-03	1,01E-03	1,54E-02	2,26E-02	1,55E-04	3,80E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,27E-04	2,21E-03	0,00E+00	-3,91E-02

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	4,05E-02	9,88E-03	6,09E-02	1,11E-01	1,78E-03	3,03E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,46E-03	7,11E-02	0,00E+00	-2,63E-01
Non-hazardous waste	kg	1,38E+00	1,98E-01	1,36E+00	2,93E+00	3,29E-02	2,47E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,69E-02	1,13E+01	0,00E+00	-9,91E+00
Radioactive waste	kg	4,97E-06	2,04E-06	5,19E-06	1,22E-05	2,24E-07	1,98E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,83E-07	4,29E-07	0,00E+00	-2,30E-04

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	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	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	5,95E+01	5,95E+01	0,00E+00	8,93E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,40E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	8,03E+00	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,04E+01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	6,86E+01	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	3,46E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	2,28E+01	0,00E+00	0,00E+00
Exported energy – Heat	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,93E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	4,58E+01	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	9,50E-01	4,68E-01	3,76E-01	1,79E+00	7,19E-02	4,18E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,89E-02	1,69E-01	0,00E+00	-3,39E+00
Ozone depletion Pot.	kg CFC ₁₁ e	1,17E-08	7,54E-09	5,25E-09	2,45E-08	8,52E-10	4,21E-09	ND	ND	ND	ND	ND	ND	ND	0,00E+00	6,97E-10	1,59E-09	0,00E+00	-3,10E-08
Acidification	kg SO ₂ e	3,65E-03	1,15E-03	1,51E-03	6,31E-03	1,88E-04	1,23E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,54E-04	1,24E-03	0,00E+00	-1,93E-02
Eutrophication	kg PO ₄ ³ e	3,60E-03	2,92E-04	1,85E-03	5,74E-03	4,59E-05	9,61E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,76E-05	4,75E-04	0,00E+00	-1,84E-03
POCP (“smog”)	kg C ₂ H ₄ e	2,22E-03	1,08E-04	1,55E-04	2,48E-03	1,68E-05	3,95E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,37E-05	9,85E-05	0,00E+00	-1,07E-03
ADP-elements	kg Sbe	2,24E-06	1,27E-06	7,25E-06	1,08E-05	1,97E-07	1,73E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,61E-07	2,90E-07	0,00E+00	-3,34E-06
ADP-fossil	MJ	1,23E+01	6,69E+00	5,55E+00	2,45E+01	1,04E+00	4,25E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	8,47E-01	1,49E+00	0,00E+00	-3,57E+01

ENVIRONMENTAL IMPACTS – GWP-GHG - THE INTERNATIONAL EPD SYSTEM

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ⁹⁾	kg CO ₂ e	9,87E-01	4,71E-01	3,76E-01	1,83E+00	7,24E-02	4,24E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,92E-02	1,71E-01	0,00E+00	-3,40E+00

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product as defined by IPCC AR 5 (IPCC 2013). In addition, the characterisation factors for the flows - CH₄ fossil, CH₄ biogenic and Dinitrogen monoxide - were updated in line with the guidance of IES PCR 1.2.5 Annex 1. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterization factor for biogenic CO₂ is set to zero.

SCENARIO DOCUMENTATION

Manufacturing energy scenario documentation

Scenario parameter	Value
Electricity data source and quality	Ecoinvent 3.10.1
Electricity CO2e / kWh	0,017709
District heating data source and quality	N/A
District heating CO2e / kWh	N/A

Transport scenario documentation A4

Scenario parameter	Value
Fuel and vehicle type. Eg, electric truck, diesel powered truck	Diesel truck, >32 metric ton, EURO5
Average transport distance, km	50
Capacity utilization (including empty return) %	53,3
Bulk density of transported products kg/m3	623,64
Volume capacity utilization factor	<1

Installation scenario documentation A5

Scenario information	Value
Ancillary materials for installation (specified by material) / kg or other units as appropriate	N/A
Water use / m ³	N/A
Other resource use / kg	N/A
Quantitative description of energy type (regional mix) and consumption during the installation process / kWh or MJ	N/A
Waste materials on the building site before waste processing, generated by the product's installation (specified by type) / kg	1,8893 (Installation loss of oak floor)
Output materials (specified by type) as result of waste processing at the building site e.g. collection for recycling, for energy recovery, disposal (specified by route) / kg	1,8893 (Installation loss collected for recycling)
Direct emissions to ambient air, soil and water / kg	N/A

Use stages scenario documentation - B2 Maintenance

Scenario information	Value
Maintenance process / Description or source where description can be found	N/A
Maintenance cycle / Number per RSL or year <i>(Not applicable if only B2 is declared)</i>	N/A
Ancillary materials for maintenance, e.g. cleaning agent, specify materials / kg / cycle	N/A
Waste material resulting from maintenance (specify materials) / kg	N/A
Net fresh water consumption during maintenance / m ³	N/A
Energy input during maintenance, e.g. vacuum cleaning, energy carrier type, e.g. electricity, and amount, if applicable and relevant / kWh	N/A

Use stages scenario documentation - B3 Repair

Scenario information	Value
Repair process / Description or source where description can be found	N/A
Inspection Process / Description or source where description can be found	N/A
Repair cycle / Number per RSL or year	N/A
Ancillary materials, e.g., lubricant (specify materials) / kg or kg/cycle	N/A
Waste material resulting from repair (specify materials) / kg	N/A
Net fresh water consumption during repair / m ³	N/A
Energy input during repair, e.g., crane activity, energy carrier type, e.g., electricity, and amount / kWh/RSL, kWh/cycle	N/A

Use stages scenario documentation - B4 Replacement

Scenario information	Value
Replacement cycle / Number per RSL or year	N/A
Energy input during replacement, e.g., crane activity, energy carrier type, e.g., electricity and amount (if applicable and relevant) / kWh	N/A
Exchange of worn parts during the product's life cycle, e.g., zinc galvanized steel sheet (specify materials) / kg	N/A

Use stages scenario documentation - B5 Refurbishment

Scenario information	Value
Refurbishment process / Description or source where description can be found	N/A
Refurbishment cycle / Number per RSL or year	N/A
Energy input during refurbishment, e.g., crane activity, energy carrier type, e.g., electricity, and amount (if applicable and relevant) / kWh	N/A
Material input for refurbishment, e.g., bricks, including ancillary materials for the refurbishment process, e.g., lubricant (specify materials) / kg or kg/cycle	N/A
Waste material resulting from refurbishment (specify materials) / kg	N/A
Further assumptions for scenario development, e.g., frequency and time period of use, number of occupants / Units as appropriate	N/A

Use stages scenario documentation - B6-B7 Use of energy and use of water

Scenario information	Value
Ancillary materials specified by material / kg or units as appropriate	N/A
Net fresh water consumption / m ³	N/A
Type of energy carrier, e.g., electricity, natural gas, district heating / kWh	N/A
Power output of equipment / kW	N/A
Characteristic performance, e.g., energy efficiency, emissions, variation of performance with capacity utilization, etc.	N/A
Further assumptions for scenario development, e.g., frequency and period of use, number of occupants	N/A

End of life scenario documentation

Scenario information	Value
Collection process – kg collected separately	11
Collection process – kg collected with mixed construction waste	0
Recovery process – kg for re-use	0
Recovery process – kg for recycling	0
Recovery process – kg for energy recovery	8,0300
Disposal (total) – kg for final deposition	2,9700
Scenario assumptions e.g. transportation	Transportation: 50 km with diesel truck, >32 metric ton, EURO5

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15802+A2 in the Environmental Product Declaration and its project report.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

Verified tools

Tool verifier: Magaly Gonzalez Vazquez

Tool verification validity: 27 March 2025 - 26 March 2028

Sarah Curpen, as an authorised verifier acting for EPD Hub Limited

24.10.2025

