Environmental Product Declaration

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

Three-layer oak floor

from

ESCO CZ PRODUCTION s.r.o.

Programme:	"National Environmental Labeling Program" - Czech Republic (NPEZ)
Programme operator:	Ministry of the Environment of the Czech Republic, CENIA, Czech Environmental Information Agency, executive function of the NPEZ Agency
Typ EPD	EPD of a single product from a manufacturer/service provider
EPD registration number:	**3015-EPD-030067244**
Publication date:	2025-07-30
Valid until:	2030-07-30

An EPD should provide current information and may be updated if conditions change.

General information

Programme information

Programme:	"National Environmental Labeling Program" - Czech Republic (NPEZ)
Address:	Ministry of the Environment of the Czech Republic Department of Voluntary Instruments 100 10 Praha 10, Vršovická 1442/65
Website:	www.mzp.cz, www.cenia.cz
E-mail:	info@mzp.cz

Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804+A2 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): < *EN 16485:2014 Round and sawn timber - Environmental Product Declarations - Product category rules for wood and wood-based products for use in construction* >
Life Cycle Assessment (LCA)
LCA accountability: *ESCO CZ PRODUCTION s.r.o.*
Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ EPD verification by accredited certification body Third-party verification: ***Technický a zkušební ústav stavební Praha, s.p.*** is an approved certification body accountable for the third-party verification. 190 00 Praha 9, Prosecká 811/76a, CZ The certification body is accredited by: ***Českým institutem pro akreditaci, o.p.s., Osvědčení č. 456/2024*** Verifier: Ing. Lenka Vrbová
Procedure for follow-up of data during EPD validity involves third party verifier: ☐Ano ☒ne

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

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

Company information

Owner of the EPD: ESCO CZ PRODUCTION s.r.o.

Blatenská 267, 387 31 Radomyšl, CZ
IČO : 26057654
www.escoflooring.com, info@escoflooring.com

Contact:
Michal Novotný
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Description of the organisation:

Wood has been used for flooring in interiors since time immemorial. Oak in particular has established itself as a valuable and durable material, with a history of more than five centuries as a flooring material. ESCO lets you rediscover the magic of this time-honored tradition with six timeless collections, all based exclusively on the versatile and inspiring oak. From a rustic look with pronounced knots to a softer, cleaner character, each aspect of this unique wood speaks to a different style. But it is the meticulous craftsmanship and expertise that ESCO offers that allow these floors to fully unfold their beauty. Discover which styles, colors and finishes best suit your taste and create a floor that is completely yours.

Product-related or management system-related certifications:
Products are manufactured in accordance with **EN 13489:2024** *Wood- flooring and parquet - Multi - layer parquet elements)*. Product quality is ensured by an effective production control system in accordance with **the ČSN EN 14342:2017 standard.** *Wood flooring - Characteristics, conformity assessment and marking (Wood flooring - Characteristics, evaluation of conformity and marking)* . The manufacturer has implemented and certified a chain of custody system for forest products according to PEFC ST standards. A Declaration of Performance (DoP) has been issued for the products in accordance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council.

Name and location of production site(s):
ESCO CZ PRODUCTION s.r.o.
Blatenská 267, 387 31 Radomyšl,

Product information

Product name: Three-layer oak floor

Product identification:
Three-layer oak flooring, 14 and 15 mm thick.

Product description:

This is a multi-layer flooring. A three-layer wooden floor consists of a visible wear layer, which is vertically supported by the slats of the middle layer, under which the bottom layer, in contact with the substrate, is glued vertically. A characteristic of three-layer wooden floors is a stable construction and also quick and easy installation.
The floorboards have a tongue and groove around the entire perimeter and are intended for indoor walking surfaces in residential and commercial areas with moderate loads.

Basic characteristics	Property	Harmonized technical specifications
Humidity	7 ±2%	EN 14342:2013
Thickness	14mm	
Density	560kg/m3	
Reaction to fire	Class Dfl-S1 (total thickness 14 mm)	
Formaldehyde emissions	Class E1 (≤ 0.124mg/ m^3)	
Pentachlorophenol content	≤ 5 ppm	

Basic characteristics	Property	Harmonized technical specifications
Strength limit	NPD	
Slipperiness	Brushed: dry ≥ 69	
	Sanded: dry ≥ 65	
Thermal conductivity	0.13 W/ mK	
Thermal resistance	0.11m2*K/W	
Durability (biological)	Class 1	

Basic characteristics	Property	Harmonized technical specifications
Humidity	7 ± 2%	EN 14342:2013
Thickness	15mm	
Density	570kg/m3	
Reaction to fire	Class Cfl-S1 (total thickness 15 mm)	
Formaldehyde emissions	Class E1 (≤ 0.124mg/ ^{m3})	
Pentachlorophenol content	≤ 5 ppm	
Strength limit	NPD	
Slipperiness	Brushed: dry ≥ 69	
	Sanded: dry ≥ 65	
Thermal conductivity	0.13 W/ mK	
Thermal resistance	0.12m2*K/W	
Durability (biological)	Class 1	

UN CPC code:
31600 Builders' joinery and carpentry of wood (including cellular wood panels, assembled parquet panels and shingles)

Geographical scope:
The generic data used from the Ecoinvent database are used with validity for the Czech Republic (e.g. energy inputs) and in the event that data for the Czech Republic are not available, data valid for the EU or according to the location of the supplier are used. Based on the evaluation according to EN 15804+A2, Annex E, tab. E.1 the generic data used meet the quality level - medium.

Product packaging:
The products are delivered in accordance with the standards indicated in the product description. The majority of products are packaged for transport in packages - plastic tape + plastic foil, on a wooden pallet, the pallet is wrapped in foil + metal straps.

Environment and health during use
During the entire production process, it is not necessary to take any special health protection measures beyond the legally specified industrial protection measures for production employees.

LCA information

Functional unit / declared unit:

The declared unit is 1 m^2 of the average manufactured product – Three-layer oak floors.

Designation	Unit	Value
Declared unit	m^2	1
Conversion factor to 1 kg	kg	0.1282

Reference service life:
The reference lifetime is not declared. These are construction products with many different application purposes. The total service life according to the document "*Nutzungsdauer von Bauteilen - Stand: 24.02.2017, kod 352.812*" is at least 40 years. With the recommended renovation option (regrinding, painting), the service life can be extended to 80 years.
Time representativeness:
For specific data, the manufacturer's data for the **year 2023** is used. For generic data, data from the Ecoinvent database version 3.9 is used. Based on the evaluation according to EN 15804+A2, Annex E, tab. E.1 the generic data used meet the quality level - very good.
Database(s) and LCA software used:
SimaPro calculation software Craft , version 10.2, Ecoinvent database version 3.12.
GWP-GHG from electricity production: 0.605 kg CO2 eq /kWh (CZ residual mix 2023)

Description of system boundaries:

b) Cradle to gate with options, modules C1–C4, module D and with optional modules (A1–A3 + C + D and additional modules). The additional modules may be one or more selected from A4–A5 and/or B1–B7.;

The production phase includes the following modules:

- **A1** - **extraction and processing of raw materials** and production of packaging from input raw materials
- **A2** - **transport of input raw materials** from the supplier to the manufacturer, waste removal
- **A3 - production of products**, production of auxiliary materials and semi-finished products, energy consumption, including waste processing until reaching a state where it ceases to be waste or after removal of the last material residues during the production phase.
  Results A1-A3 include a "***compensation report***" of biogenic CO_2 from packaging released in module A5, as module A5 is not fully included. According to the "polluter pays" principle, the costs/benefits from further management of this packaging are also included in this module.

The construction phase includes the following modules:

- **A4** - **transport to the construction site**. Transport is carried out by truck with a capacity of 7.5 - 16 t (EURO 6). Transport of the declared product unit (1 m^2 = 7,8 kg) over a distance of 1 km is considered.

The end-of-life phase includes modules:

- **C1,** deconstruction, demolition; product from the building, including its dismantling or demolition, including the initial sorting of materials at the construction site. Decomposition and/or dismantling of the product is part of the demolition of the entire building. In this case, the expected consumption of el. energy is 0.0426 kWh/m^2.
- **C2,** transport to the waste processing site; transportation of discarded product as part of waste processing, e.g. to a recycling site, and transportation of waste, e.g. to a final disposal site. The transport from the dismantled building is carried out by a truck with a capacity of 7.5 - 16 t (EURO 6) to the inert material dump as a demolition of a mixed building, estimated transport distance: 50 km to the recycling center or to the dump.

- **C3,** waste treatment for reuse, recovery and/or recycling; e.g. collection of fractions of waste from deconstruction, and processing of waste from material flows intended for reuse, recycling and energy use. A scenario is assumed where 100% of the product is used for energy purposes.
- **C4,** waste disposal, including its pre-treatment and management of the disposal site. Landfilling is not expected.

Benefits and costs beyond the product system boundary are presented in module D.
Module D includes:

- **D,** potential for reuse, recovery and/or recycling, expressed in terms of net impacts or benefits. In the module D scenario, benefits from energy recovery are taken into account (13.99 MJ/kg).

Production:
The lumber suitable for 3-layer floors is cut into oak slats (layers). The slats are then calibrated to the exact thickness and then glued to a spruce core, which is purchased. The glued sandwich is then sanded and sanded/brushed, followed by profiling (tongue and groove on all sides). The boards then go for surface treatment with oiling, followed by packaging of individual orders.

More information:
Information module **A5** from the construction phase was not included in the LCA due to the difficult availability of input data and is therefore not declared.
Information modules from the use phase **B1 to B7** are also not declared, as these types of products, assuming correct use, do not require maintenance, repair or replacement during the normal life time in the use phase. They also do not require energy or water consumption during the use phase.
For the study, all operational data related to the consumption of main and auxiliary materials for the production of the product, energy data, diesel consumption and the distribution of annual waste production and emissions according to plant records were taken. In terms of produced waste, only those wastes that are clearly related to production activities were included in the analysis.
The processes required for the installation of production equipment and the construction of infrastructure were not included in the analysis. Also, administrative processes are not included – inputs and outputs are balanced per production phase.

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

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	x	x	x	x	ND	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x
Geography	GLO	GLO, EU	EU, CZ	EU									EU	EU	EU	EU	GLO, EU
Specific data used	> 90 %					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	<10 %					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0 %					-	-	-	-	-	-	-	-	-	-	-	-

The data used to calculate the EPD conforms to the following principles:

Technological point of view: Data corresponding to the current production of individual types of partial products of the plant and corresponding to the current state of the technologies used are used. Based on the evaluation according to EN 15804+A2, Annex E, tab. E.1 the generic data used meet the quality level - very good.

The aspect of completeness and completeness: Most of the input data is based on consumption balances, which are precisely recorded in the manufacturer's information system. The reliability of the source of specific data is determined by the uniformity of the collection methodology of the information system.

Consistency point of view: Uniform points of view are used throughout the report (allocation rules, age of data, technological scope of validity, temporal scope of validity, geographical scope of validity).

Credibility aspect: All important data were checked for adherence to cross-comparison of mass balances.

The GWP-GHG variability between the sub-products included (see Product Description) is less than 10%. Production takes place at only one production site.

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

Content information

Product components	Weight %	Post-consumer material, weight-%	Biogenic carbon content in kg C/DU
oak	43,64	0	0
spruce	45,84	0	0
adhesives, hardeners	8,74	0	0
surface treatment - oil	1,78	0	0
TOTAL	100	0	0
Packaging materials	**Weight %**	**Weight-% (versus the product)**	**Biogenic carbon content in kg C/DU**
Paper and cardboard	0,02	0,01	2,10E-04
LDPE	12,27	4,18	0
Steel	2,10	0,72	0
Pallets	85,61	29,19	1,02E+00
TOTAL	100	34,10	1,02E+00

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight-% per functional or declared unit (DU)
They are not	-	-	-

Substances listed on the list of substances of very high concern subject to authorization by the European Chemicals Agency are not contained in the product in declarable quantities.

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804:2012+A2:2019/AC:2021 (characterisation factors based on EF 3.1 package)

Results per functional or declared unit																
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fosil	kg CO_2 ekv.	2,03E+00	1,84E-03	ND	ND	ND	ND	ND	ND	ND	ND	2,49E-02	4,60E-02	2,91E-01	0,00E+00	-4,89E-01
GWP-biogenic	kg CO_2 ekv.	-5,49E+01	8,43E-07	ND	ND	ND	ND	ND	ND	ND	ND	1,28E-05	2,11E-05	7,50E+01	0,00E+00	-3,53E-03
GWP- luluc	kg CO_2 ekv.	8,90E-02	5,74E-07	ND	ND	ND	ND	ND	ND	ND	ND	1,79E-05	1,43E-05	2,41E-04	0,00E+00	-7,90E-04
GWP - total	kg CO_2 ekv.	-5,28E+01	1,84E-03	ND	ND	ND	ND	ND	ND	ND	ND	2,49E-02	4,60E-02	7,53E+01	0,00E+00	-4,93E-01
ODP	kg CFC 11 ekv.	4,89E-08	4,04E-11	ND	ND	ND	ND	ND	ND	ND	ND	1,48E-10	1,01E-09	3,33E-09	0,00E+00	-3,77E-09
AP	mol H^+ ekv.	8,03E-03	3,73E-06	ND	ND	ND	ND	ND	ND	ND	ND	1,05E-04	9,33E-05	2,89E-02	0,00E+00	-2,28E-03
EP-freshwater	kg P ekv.	3,61E-04	1,24E-07	ND	ND	ND	ND	ND	ND	ND	ND	4,30E-05	3,09E-06	7,18E-05	0,00E+00	-7,23E-04
EP- marine	kg N ekv.	2,74E-03	8,82E-07	ND	ND	ND	ND	ND	ND	ND	ND	2,53E-05	2,20E-05	1,42E-02	0,00E+00	-4,67E-04
EP - terrestrial	mol N ekv.	2,26E-02	9,52E-06	ND	ND	ND	ND	ND	ND	ND	ND	1,77E-04	2,38E-04	1,59E-01	0,00E+00	-3,50E-03
POCP	kg NMVOC ekv.	1,95E-02	5,97E-06	ND	ND	ND	ND	ND	ND	ND	ND	4,77E-05	1,49E-04	3,82E-02	0,00E+00	-9,74E-04
ADP- minerals& metals*	kg Sb ekv.	1,25E-05	6,28E-09	ND	ND	ND	ND	ND	ND	ND	ND	1,59E-08	1,57E-07	5,18E-07	0,00E+00	-3,80E-06
ADP-fosil*	MJ	3,62E+01	2,59E-02	ND	ND	ND	ND	ND	ND	ND	ND	4,49E-01	6,48E-01	3,06E+00	0,00E+00	-8,02E+00
WDP*	m^3	6,19E-01	9,21E-05	ND	ND	ND	ND	ND	ND	ND	ND	4,46E-03	2,30E-03	4,62E-03	0,00E+00	-9,25E-02
Acronyms	**GWP-fossil** = Global Warming Potential fossil fuels; **GWP-biogenic** = Global Warming Potential biogenic; **GWP-luluc** = Global Warming Potential land use and land use change; **ODP** = Depletion potential of the stratospheric ozone layer; **AP** = Acidification potential, Accumulated Exceedance; **EP-freshwater** = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; **EP-marine** = Eutrophication potential, fraction of nutrients reaching marine end compartment; **EP-terrestrial** = Eutrophication potential, Accumulated Exceedance; **POCP** = Formation potential of tropospheric ozone; **ADP-minerals&metals** = Abiotic depletion potential for non-fossil resources; **ADP-fossil** = Abiotic depletion for fossil resources potential; **WDP** = Water (user) deprivation potential, deprivation-weighted water consumption															

** Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.*
Disclaimer: If module C is included then when assessing the results of A1-A3, also take into account the results of modules C.

Additional mandatory and voluntary impact category indicators

Results per functional or declared unit															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-GHG[1]	kg CO_2 ekv.	2,12E+00	1,84E-03	ND	ND	ND	ND	ND	ND	ND	ND	2,49E-02	4,60E-02	3,08E-01	ND	-4,90E-01
PM	Disease incidence	1,09E-07	1,16E-10	ND	ND	ND	ND	ND	ND	ND	ND	2,15E-10	2,89E-09	3,01E-07	0,00E+00	-4,99E-09
IRP	kBq U235 ekv.	1,91E-01	3,77E-05	ND	ND	ND	ND	ND	ND	ND	ND	1,32E-02	9,43E-04	4,63E-02	0,00E+00	-2,00E-01
ETP- fw	CTUe	1,09E+01	3,77E-03	ND	ND	ND	ND	ND	ND	ND	ND	7,28E-02	9,42E-02	5,40E-01	0,00E+00	-1,61E+00
HTP-c	CTUh	1,88E-09	2,84E-13	ND	ND	ND	ND	ND	ND	ND	ND	2,62E-12	7,10E-12	1,52E-09	0,00E+00	-8,50E-11
HTP- nc	CTUh	1,48E-08	1,50E-11	ND	ND	ND	ND	ND	ND	ND	ND	1,17E-10	3,76E-10	2,17E-08	0,00E+00	-4,79E-09
SQP	dimensionless	2,75E+03	1,32E-02	ND	ND	ND	ND	ND	ND	ND	ND	5,67E-02	3,30E-01	1,40E+00	0,00E+00	-8,44E-01
Acronyms	**GWP-GHG** = this indicator includes all greenhouse gases except biogenic uptake and emissions of carbon dioxide and biogenic carbon stored in the product; as such the indicator is identical to GWP-total except that the CF for biogenic CO 2 is set to zero, **PM** = Potential incidence of disease due to PM emissions, **IRP** = Potential Human exposure efficiency relative to U235, **ETP-fw** = Potential Comparative Toxic Unit for ecosystems, **HTP-c** = Potential Comparative Toxic Unit for humans, **HTP-nc** = Potential Comparative Toxic Unit for humans, **SQP** = Potential soil quality index														

[1] *This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.*

Resource use indicators

Results per functional or declared unit															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	3,27E+02	4,74E-04	ND	ND	ND	ND	ND	ND	ND	ND	1,91E-02	1,19E-02	3,86E-01	0,00E+00	-6,07E-01
PERM	MJ	2,80E+02	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	6,07E+02	4,74E-04	ND	ND	ND	ND	ND	ND	ND	ND	1,91E-02	1,19E-02	3,86E-01	0,00E+00	-6,07E-01
PENRE	MJ	9,01E-01	2,00E-03	ND	ND	ND	ND	ND	ND	ND	ND	4,05E-01	4,99E-02	1,31E+00	0,00E+00	-7,05E+00
PENRM	MJ	5,40E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	6,30E+00	2,00E-03	ND	ND	ND	ND	ND	ND	ND	ND	4,05E-01	4,99E-02	1,31E+00	0,00E+00	-7,05E+00
SM	kg	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	4,97E-03	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Acronyms	**PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; **PERM** = Use of renewable primary energy resources used as raw materials; **PERT** = Total use of renewable primary energy resources; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; **PENRM** = Use of non-renewable primary energy resources used as raw materials; **PENRT** = Total use of non-renewable primary energy re-sources; **SM** = Use of secondary material; **RSF** = Use of renewable secondary fuels; **NRSF** = Use of non-renewable secondary fuels; **FW** = Use of net fresh water														

Additional environmental information - Waste indicators

Results per functional or declared unit															
Indicator	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	3,76E-01	1,05E-03	ND	ND	ND	ND	ND	ND	ND	ND	2,16E-03	2,63E-02	9,56E-02	0,00E+00	-4,37E-02
Non-hazardous waste disposed	kg	1,19E-03	6,04E-07	ND	ND	ND	ND	ND	ND	ND	ND	2,70E-05	1,51E-05	2,94E-04	0,00E+00	-5,10E-04
Radioactive waste disposed	kg	2,84E-05	9,37E-09	ND	ND	ND	ND	ND	ND	ND	ND	3,15E-06	2,34E-07	1,19E-05	0,00E+00	-4,78E-05

Additional environmental information - Output flow indicators

Results per functional or declared unit																
Indicator	**Unit**	**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	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	kg	8,92E-02	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	4,91E-02	0,00E+00	0,00E+00
Materials for energy recovery	kg	7,07E-02	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	8,09E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-1,11E+01
Exported energy, thermal	MJ	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-3,21E+01

The result tables shall only contain values or the letters "ND" (Not Declared). It is not possible to specify ND for mandatory indicators. ND shall only be used for voluntary parameters that are not quantified because no data is available.

Other environmental performance indicators

Additional environmental information

Differences versus previous versions

Original EPD version: 2025-04-10
Revision 1: 2025-07-30
Differences from the previously processed version: Calculation models (IPCC-2021, method -1/1) modified, indicators recalculated. Description of the service life according to the attached document modified

References

EN ISO 14025:2010 Environmental labels and declarations - Type III environmental declarations - Principles and procedures
EN 15804:2012+A2:2019/AC:2021 Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products
EN 16485:2014 Round and sawn timber - Environmental Product Declarations - Product category rules for wood and wood-based products for use in construction
EN ISO 14040:2006 Environmental management - Life Cycle Assessment - Principles and Framework
EN ISO 14044:2006 Environmental management - Life Cycle Assessment – Requirements and guidelines
EN ISO 14063:2020 Environmental management - Environmental communication - Guidelines and examples
EN 15643:2021 Sustainability of construction works - Framework for assessment of buildings and civil engineering works
EN 15942:2021 Sustainability of construction works - Environmental product declarations - Communication format business-to-business
EN 17672:2022 Sustainability of construction works - Environmental product declarations - Horizontal rules for business-to-consumer communication
TNI CEN/TR 15941:2012 Sustainability of construction works - Environmental product declarations - Methodology for selection and use of generic data
EN 16908:2017+A1:2022 Cement and building lime - Environmental product declarations - Product category rules complementary to EN 15804
EN 16449:2014 Wood and wood-based products - Calculation of the biogenic carbon content of wood and conversion to carbon dioxide
ILCD General guide for Life Cycle Assessment (2010) - JRC EU
Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives; CZ - Act No. 541/2020 Coll., as amended (Waste Act)
Decree No. 8/2021 Coll. Waste catalogue – Waste catalogue
Regulation (EC) No 1907/2006 of the European Parliament concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency - REACH (Registration, Evaluation and Authorisation of Chemicals
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Nutzungsdauer von Bauteilen - Stand: 24.02.2017
SimaPro LCA Package, Pré Consultants, the Netherlands, www.pre-sustainability.com
Ecoinvent Centre, www.Ecoinvent.org
EU PEF (EF reference package) - https://eplca.jrc.ec.europa.eu/LCDN/EN15804.html
Explanatory documents are available from the head of Technical Support of the EPD owner.