Type III Environmental Product Declaration No. 725/2024

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Three-layer wooden floorboards

Owner of the EPD:

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ITB is the verified member of The European Platform for EPD program operators and LCA practitioner www.eco-platform.org

Basic information

This declaration is the Type III Environmental Product Declaration (EPD) based on EN 15804 + A2 and verified according to ISO 14025 by an external auditor. It contains the information on the impacts of the declared construction materials on the environment and their aspects verified by the independent body according to ISO 14025. Basically, comparison or evaluation of EPD data is possible only if all the compared data were created according to EN 15804 + A2.

Life cycle analysis (LCA): A1-A3, C1-C4 and D modules in accordance with EN 15804 + A2 (Cradle-to-Gate with options)

The year of preparing the EPD: 2024

Product standard: EN 14342: 2013

Service Life: > 30 years

PCR: ITB-PCR A, v. 1.6

Declared unit: 1 m^2

Reasons for performing LCA: B2B

Representativeness: Polish, European

MANUFACTURER

Podłogi Sp. z o.o. is a business operating for over 13 years that specializes in the production and distribution of oak engineered flooring. Every year it produces tens of thousands of square meters of wooden floors that enrich the space of thousands of customers. Podłogi Sp. z o.o. exports over 90% of our products.

Fig. 1 Production line for UV oiling and varnishing (left) and a line for profiling floors (right) of Podłogi Sp. z o.o. production plant located in Łańcut (Poland).

PRODUCTS DESCRIPTION AND APPLICATION

Wooden floor has a three-layer structure and consists of layers of wood connected with each other with water-based glue. The top layer in noble wood is a 3-4 mm thick lamella, which is usually made of European oak. The middle layer is made of a coniferous underlay in the form of slats, while the back-pressure bottom layer is made of 2 mm spruce veneer. The oak top layer is varnished or oiled with natural oil-waxes several times and hardened with UV rays. The boards can be joint with a glueless Click 5G connection or a traditional tongue-and-groove joint.

Figure 2. Scheme of a cross-section of a three-layer wooden floorboard.

The product range:
a) dimension:
- thickness: from 14 or 15 mm (14/3 mm, 15/4 mm)
- width: from 90 to 300 mm (90,100, 120, 140, 160, 190, 250, 300 mm)
- length: from 450 to 3000 mm (450, 600, 700, 900, 1080, 1600, 1800, 2000, 2200, 2400, 3000 mm)
b) surface finish option: brushing
c) wood grades: PREMIUM, STANDARD, STYLE

Table 1. Declaration of 3-layer wooden parquet floorboard properties according to EN 14342: 2013 produced by Podłogi Sp. z o.o.

Property	Results	Declaration according to EN 14342:2013
Reaction to fire according to EN ISO 9239-1:2010 and EN ISO 11925-2:2020; Classification according to EN 13501-1:2018 - Critical heat flux - Smoke production - Extent of flame ≤ 150 mm	 5,56 kW/m² 25,6 % x min fulfilled	 Reaction to fire class C_{fl}-s1*
Formaldehyde emission according to EN 717-1:2004	< LOD (264 h)	Class E1
Content of PCP according to CEN/TR 14823:2004	< LOQ	PCP ≤ 5 x 10^{-6n}
Anti-skid properties according to CEN/TS 15676:2007	58	USRV 58
Thermal conductivity according to EN 12664:2001	0,120 W/(m*K)	0,12 W/(m*K)

More information can be found on Podłogi Sp. z o.o. website: www.podlogi.eu.com.

LIFE CYCLE ASSESSMENT (LCA) – general rules applied

Declared Unit

The declaration refers to declared unit (DU) – 1 m^2 of 3-layer wooden floorboard with thickness of 14 mm and 15 mm.

Allocation

The allocation rules used for this EPD are based on general ITB-PCR A, v. 1.6. 3-layer wooden floorboard production is a line process in factory located in Łańcut (Poland). Allocation is done on product mass basis.
All impacts from raw materials extraction and processing are allocated in A1 module of EPD. 99% of impacts from line production were inventoried and allocated to all 3-layer wooden floorboard production. Municipal waste and waste water of whole factory were allocated to module A3. Energy supply was inventoried for whole production process. Emissions in Podłogi Sp. z o.o. are measured and were allocated to module A3. Packaging materials were taken into consideration. They are recycled in a closed loop.

System limits

The life cycle analysis (LCA) of the declared products covers product stage – modules A1-A3, end of life – modules C1-C4 and benefits and loads beyond the system boundary – module D (cradle-to-gate with options) in accordance with EN 15804 + A2 and ITB PCR A, v. 1.6. The details of systems limits are provided in product technical report. All materials and energy consumption inventoried in factory were included in calculation. Office impacts were also taken into consideration. In the assessment, all significant parameters from gathered production data are considered, i.e. all material used per formulation, utilised thermal energy, internal fuel and electric power consumption, direct production waste, and all available emission measurements. It can be assumed that the total sum of omitted processes does not exceed 5% of all impact categories. In accordance with EN 15804 + A2, machines and facilities (capital goods) required for the production as well as transportation of employees were not included in LCA.

Modules A1 and A2: *Raw materials supply and transport*

Raw materials such as softwood and hardwood logs, plywood, veneer, oils, glues or fillers come from local and foreign suppliers. Data on transport of the different products to the manufacturing plants is collected and modelled for factory by assessor. Means of transport include 16-32 t lorry and small trucks < 10 t (f. ex. couriers) EURO 6 are applied. European standards for average combustion were used for calculations.

Module A3: *Production*

The Fig. 3 shows the working process during the production of 3-layer wooden floorboards. Round wood is delivered to factory located in Łańcut, where is manufacturing in a few step process including sorting, cutting, peeling, drying and gluing. Then the floorboard is sorted by grade and type, packaged and then stored prior to the shipment of the final product.

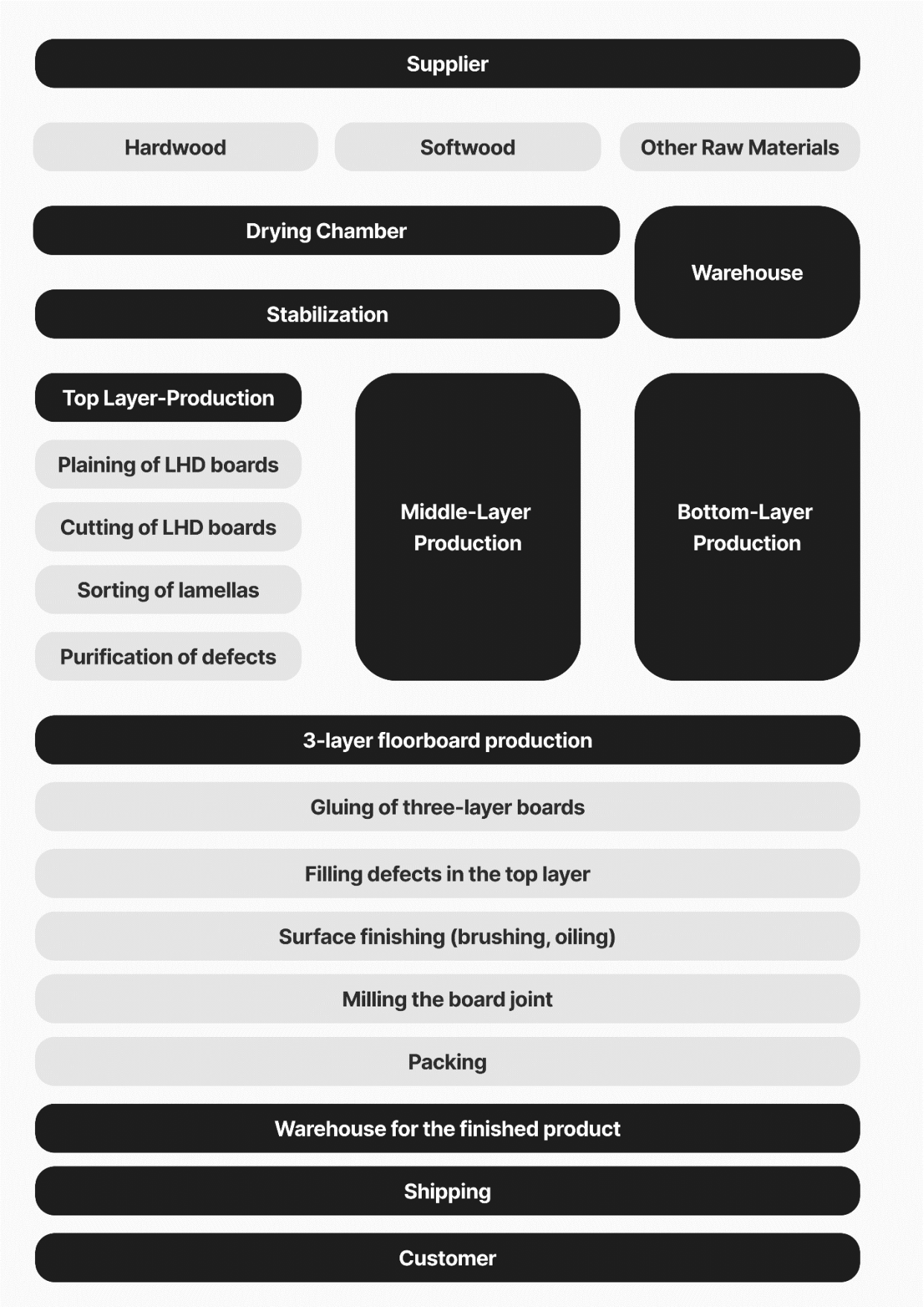

Fig. 3. A scheme of 3-layer wooden floorboards production by Podłogi Sp. z o.o. (Poland)

Modules C1-C4 and D: *End-of-life (EoL)*

In the adapted scenario, deconstruction of the 3-layer wooden floorboards are performed with the use of electrical tools (module C1). The resulting waste is transported to a waste processing plant distant about 60 km, on 16-32 t lorry EURO 6 (module C2). It is assumed that at the EoL cycle 90% of the floorboard is recovered in municipal incineration (module C3) while 10% undergo landfilling (module C4). Module D presents credits resulting from the benefits from avoided thermal energy production in exchange for using waste from plant (peeling chips) which were used for own production line and central heating.

Data quality

The data selected for LCA originate from ITB-LCI questionnaires completed by Podłogi Sp. z o.o. using the inventory data, ITB database, Ecoinvent database v. 3.10 and KOBiZE. No specific data collected is older than five years and no generic datasets used are older than ten years. The representativeness, completeness, reliability, and consistency are judged as good. Polish electricity was calculated based on Ecoinvent v 3.10 supplemented by actual national KOBiZE data.

Data collection period

Primary data provided by Podłogi Sp. z o.o. covers a period of 01.01.2023 – 31.12.2023 (1 year). The life cycle assessments were prepared for Poland and Europe as reference area.

Assumptions and estimates

The impacts of the representative of 3-layer wooden floorboards were aggregated using weighted average. Impacts were inventoried and calculated for all products in 3-layer wooden floorboards product group and they were presented in Tables 3-10.

Calculation rules

LCA was performed using ITB-LCA tool developed in accordance with EN 15804 + A2.

Databases

The data for the processes comes from Ecoinvent v. 3.10 and ITB-Database. Specific data quality analysis was a part of external audit. Polish electricity mix used (production) is 0.685 kg CO_2/kWh (KOBiZE 2023).

LIFE CYCLE ASSESSMENT (LCA) – Results

Declared unit

The declaration refers to declared unit (DU) – 1 m^2 of 3-layer wooden floorboards manufactured by Podłogi Sp. z o.o.

Table 2. System boundaries for the environmental characteristic of 3-layer wooden floorboards manufactured by Podłogi Sp. z o.o.

Environmental assessment information (MD – Module Declared, MND – Module Not Declared, INA – Indicator Not Assessed)																
Product stage			Construction process		Use stage							End of life				Benefits and loads beyond the system boundary
Raw material supply	Transport	Manufacturing	Transport to construction site	Construction-installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction demolition	Transport	Waste processing	Disposal	Reuse-recovery-recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
MD	MD	MD	MND	MND	MND	MND	MND	MND	MND	MND	MND	MD	MD	MD	MD	MD

Table 3. LCA results for 1 m^2 of 3-layer wooden floorboards with thickness of 14 mm - environmental impacts

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	C3	C4	D
Global Warming Potential	eq. kg CO_2	-9.57E+00	6.99E-01	5.81E+00	-3.07E+00	2.28E-02	1.92E-01	1.10E+01	6.65E-02	6.48E+00
Greenhouse gas potential - fossil	eq. kg CO_2	2.31E+00	6.97E-01	5.76E+00	8.77E+00	2.27E-02	1.92E-01	1.14E-01	9.10E-03	2.28E-01
Greenhouse gas potential - biogenic	eq. kg CO_2	-1.26E+01	2.28E-03	3.97E-02	-1.26E+01	1.45E-04	1.06E-04	1.05E+01	5.74E-02	6.25E+00
Global warming potential - land use and land use change	eq. kg CO_2	1.28E-01	2.73E-04	2.03E-03	1.30E-01	7.99E-06	6.06E-05	2.95E-05	5.05E-06	3.44E-04
Stratospheric ozone depletion potential	eq. kg CFC 11	6.94E-08	1.53E-07	1.11E-07	3.34E-07	4.38E-10	3.83E-09	1.91E-09	2.31E-10	3.28E-09
Soil and water acidification potential	eq. mol H+	1.36E-02	2.75E-03	6.15E-02	7.78E-02	2.42E-04	3.76E-04	1.16E-03	6.34E-05	9.29E-03
Eutrophication potential - freshwater	eq. kg P	7.50E-04	4.72E-05	1.05E-02	1.13E-02	4.15E-05	1.26E-05	4.89E-05	6.94E-06	1.19E-04
Eutrophication potential - seawater	eq. kg N	2.32E-03	8.24E-04	8.76E-03	1.19E-02	3.44E-05	8.87E-05	6.21E-04	2.94E-04	4.32E-03
Eutrophication potential - terrestrial	eq. mol N	2.65E-02	8.99E-03	7.50E-02	1.10E-01	2.95E-04	9.58E-04	5.96E-03	2.61E-04	4.84E-02
Potential for photochemical ozone synthesis	eq. kg NMVOC	1.35E-02	2.82E-03	2.16E-02	3.80E-02	8.28E-05	6.35E-04	1.51E-03	1.06E-04	1.20E-02
Potential for depletion of abiotic resources - non-fossil resources	eq. kg Sb	1.25E-05	2.50E-06	8.38E-06	2.34E-05	3.30E-08	6.28E-07	2.21E-07	2.01E-08	1.65E-06
Abiotic depletion potential - fossil fuels	MJ	5.62E+01	1.03E+01	9.47E+01	1.61E+02	3.73E-01	2.68E+00	9.56E-01	1.99E-01	3.49E+00
Water deprivation potential	eq. m^3	2.07E+00	4.81E-02	1.93E+00	4.04E+00	7.57E-03	1.29E-02	4.81E-01	9.20E-04	1.92E-01

Table 4. LCA results for 1 m^2 of 3-layer wooden floorboards with thickness of 14 mm - the resource use

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	C3	C4	D
Consumption of renewable primary energy - excluding renewable primary energy sources used as raw materials	MJ	8.87E+01	1.53E-01	6.87E+00	9.57E+01	2.70E-02	5.17E-02	-1.01E+02	-1.35E+01	6.71E-01
Consumption of renewable primary energy resources used as raw materials	MJ	7.33E+01	0.00E+00	0.00E+00	7.33E+01	0.00E+00	0.00E+00	1.01E+02	1.35E+01	0.00E+00
Total consumption of renewable primary energy resources	MJ	1.62E+02	1.53E-01	6.87E+00	1.69E+02	2.70E-02	5.17E-02	2.16E-02	2.94E-03	6.71E-01
Consumption of non-renewable primary energy - excluding renewable primary energy sources used as raw materials	MJ	4.49E+01	1.03E+01	1.00E+02	1.56E+02	3.95E-01	2.68E+00	9.56E-01	1.99E-01	3.49E+00
Consumption of non-renewable primary energy resources used as raw materials	MJ	1.83E+01	0.00E+00	1.89E-03	1.83E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total consumption of non-renewable primary energy resources	MJ	6.32E+01	1.03E+01	1.00E+02	1.74E+02	3.95E-01	2.68E+00	9.56E-01	1.99E-01	3.49E+00
Consumption of secondary materials	kg	9.39E-03	3.56E-03	7.68E-03	2.06E-02	3.01E-05	1.17E-03	2.31E-03	7.18E-05	3.09E-03
Consumption of renewable secondary fuels	MJ	4.52E-04	3.92E-05	4.23E-05	5.33E-04	1.65E-07	1.19E-05	5.39E-06	1.35E-06	3.08E+01
Consumption of non-renewable secondary fuels	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	0.00E+00
Net consumption of freshwater resources	m^3	5.13E-02	1.31E-03	2.50E-02	7.77E-02	1.21E-04	3.63E-04	-1.62E-03	-2.96E-03	2.41E-03

Table 5. LCA results for 1 m^2 of 3-layer wooden floorboards with thickness of 14 mm – additional impacts indicators

Indicator	Unit	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter	disease incidence	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential human exposure efficiency relative to U235	eg. kBq U235	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential comparative toxic unit for ecosystems	CTUe	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential comparative toxic unit for humans (cancer effects)	CTUh	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential comparative toxic unit for humans (non-cancer effects)	CTUh	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential soil quality index	dimensionless	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA

Table 6. LCA results for 1 m^2 of 3-layer wooden floorboards with thickness of 14 mm – waste categories

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	C3	C4	D
Hazardous waste neutralized	kg	1.20E-01	1.18E-02	1.85E-04	1.32E-01	7.71E-08	3.50E-03	1.29E-02	3.47E-04	1.32E-02
Non-hazardous waste neutralised	kg	2.39E+00	2.14E-01	5.67E+00	8.27E+00	2.20E-03	8.23E-02	6.98E-02	3.97E+00	7.53E-01
Radioactive waste	kg	1.99E-05	6.77E-05	8.15E-05	1.69E-04	3.20E-07	1.03E-06	2.78E-07	4.83E-08	1.72E-05
Components for re-use	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	0.00E+00
Materials for recycling	kg	6.06E-04	3.50E-05	6.37E-04	1.28E-03	2.26E-06	2.06E-05	1.00E-05	3.35E-06	7.92E-04
Materials for energy recovery	kg	3.96E-06	2.59E-07	8.07E-07	5.02E-06	3.17E-09	5.99E-08	1.40E-07	1.37E-08	1.33E-07
Energy exported	MJ	3.14E-02	1.19E-02	2.75E-01	3.18E-01	1.08E-03	3.88E-03	3.19E-04	4.16E-05	1.29E-02

Table 7. LCA results for 1 m^2 of 3-layer wooden floorboards with thickness of 15 mm - environmental impacts

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	C3	C4	D
Global Warming Potential	eq. kg CO_2	-1.03E+01	6.99E-01	5.81E+00	-3.75E+00	2.28E-02	1.92E-01	1.10E+01	6.65E-02	6.48E+00
Greenhouse gas potential - fossil	eq. kg CO_2	2.48E+00	6.97E-01	5.76E+00	8.94E+00	2.27E-02	1.92E-01	1.14E-01	9.10E-03	2.28E-01
Greenhouse gas potential - biogenic	eq. kg CO_2	-1.35E+01	2.28E-03	3.97E-02	-1.35E+01	1.45E-04	1.06E-04	1.05E+01	5.74E-02	6.25E+00
Global warming potential - land use and land use change	eq. kg CO_2	1.37E-01	2.73E-04	2.03E-03	1.39E-01	7.99E-06	6.06E-05	2.95E-05	5.05E-06	3.44E-04
Stratospheric ozone depletion potential	eq. kg CFC 11	7.44E-08	1.53E-07	1.11E-07	3.39E-07	4.38E-10	3.83E-09	1.91E-09	2.31E-10	3.28E-09
Soil and water acidification potential	eq. mol H+	1.46E-02	2.75E-03	6.15E-02	7.88E-02	2.42E-04	3.76E-04	1.16E-03	6.34E-05	9.29E-03
Eutrophication potential - freshwater	eq. kg P	8.04E-04	4.72E-05	1.05E-02	1.14E-02	4.15E-05	1.26E-05	4.89E-05	6.94E-06	1.19E-04
Eutrophication potential - seawater	eq. kg N	2.49E-03	8.24E-04	8.76E-03	1.21E-02	3.44E-05	8.87E-05	6.21E-04	2.94E-04	4.32E-03
Eutrophication potential - terrestrial	eq. mol N	2.84E-02	8.99E-03	7.50E-02	1.12E-01	2.95E-04	9.58E-04	5.96E-03	2.61E-04	4.84E-02
Potential for photochemical ozone synthesis	eq. kg NMVOC	1.45E-02	2.82E-03	2.16E-02	3.89E-02	8.28E-05	6.35E-04	1.51E-03	1.06E-04	1.20E-02
Potential for depletion of abiotic resources - non-fossil resources	eq. kg Sb	1.34E-05	2.50E-06	8.38E-06	2.43E-05	3.30E-08	6.28E-07	2.21E-07	2.01E-08	1.65E-06
Abiotic depletion potential - fossil fuels	MJ	6.02E+01	1.03E+01	9.47E+01	1.65E+02	3.73E-01	2.68E+00	9.56E-01	1.99E-01	3.49E+00
Water deprivation potential	eq. m^3	2.22E+00	4.81E-02	1.93E+00	4.19E+00	7.57E-03	1.29E-02	4.81E-01	9.20E-04	1.92E-01

Table 8. LCA results for 1 m^2 of 3-layer wooden floorboards with thickness of 15 mm - the resource use

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	C3	C4	D
Consumption of renewable primary energy - excluding renewable primary energy sources used as raw materials	MJ	9,50E+01	1.53E-01	6.87E+00	1,02E+02	2.70E-02	5.17E-02	-1.01E+02	-1.35E+01	6.71E-01
Consumption of renewable primary energy resources used as raw materials	MJ	7,86E+01	0.00E+00	0.00E+00	7,86E+01	0.00E+00	0.00E+00	1.01E+02	1.35E+01	0.00E+00
Total consumption of renewable primary energy resources	MJ	1,74E+02	1.53E-01	6.87E+00	1,81E+02	2.70E-02	5.17E-02	2.16E-02	2.94E-03	6.71E-01
Consumption of non-renewable primary energy - excluding renewable primary energy sources used as raw materials	MJ	4,81E+01	1.03E+01	1.00E+02	1,59E+02	3.95E-01	2.68E+00	9.56E-01	1.99E-01	3.49E+00
Consumption of non-renewable primary energy resources used as raw materials	MJ	1,96E+01	0.00E+00	1.89E-03	1,96E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total consumption of non-renewable primary energy resources	MJ	6,77E+01	1.03E+01	1.00E+02	1,78E+02	3.95E-01	2.68E+00	9.56E-01	1.99E-01	3.49E+00
Consumption of secondary materials	kg	1,01E-02	3.56E-03	7.68E-03	2,13E-02	3.01E-05	1.17E-03	2.31E-03	7.18E-05	3.09E-03
Consumption of renewable secondary fuels	MJ	4,84E-04	3.92E-05	4.23E-05	5,66E-04	1.65E-07	1.19E-05	5.39E-06	1.35E-06	3.08E+01
Consumption of non-renewable secondary fuels	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	0.00E+00
Net consumption of freshwater resources	m^3	5,50E-02	1.31E-03	2.50E-02	8,13E-02	1.21E-04	3.63E-04	-1.62E-03	-2.96E-03	2.41E-03

Table 9. LCA results for 1 m^2 of 3-layer wooden floorboards with thickness of 15 mm – additional impacts indicators

Indicator	Unit	A1	A2	A3	A1-A3	A4	A5	C1	C2	C3	C4	D
Particulate matter	disease incidence	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential human exposure efficiency relative to U235	eg. kBq U235	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential comparative toxic unit for ecosystems	CTUe	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential comparative toxic unit for humans (cancer effects)	CTUh	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential comparative toxic unit for humans (non-cancer effects)	CTUh	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Potential soil quality index	dimensionless	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA

Table 10. LCA results for 1 m^2 of 3-layer wooden floorboards with thickness of 15 mm – waste categories

Indicator	Unit	A1	A2	A3	A1-A3	C1	C2	C3	C4	D
Hazardous waste neutralized	kg	1.29E-01	1.18E-02	1.85E-04	1.41E-01	7.71E-08	3.50E-03	1.29E-02	3.47E-04	1.32E-02
Non-hazardous waste neutralised	kg	2.56E+00	2.14E-01	5.67E+00	8.44E+00	2.20E-03	8.23E-02	6.98E-02	3.97E+00	7.53E-01
Radioactive waste	kg	2.14E-05	6.77E-05	8.15E-05	1.70E-04	3.20E-07	1.03E-06	2.78E-07	4.83E-08	1.72E-05
Components for re-use	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	0.00E+00
Materials for recycling	kg	6.49E-04	3.50E-05	6.37E-04	1.32E-03	2.26E-06	2.06E-05	1.00E-05	3.35E-06	7.92E-04
Materials for energy recovery	kg	4.24E-06	2.59E-07	8.07E-07	5.31E-06	3.17E-09	5.99E-08	1.40E-07	1.37E-08	1.33E-07
Energy exported	MJ	3.37E-02	1.19E-02	2.75E-01	3.20E-01	1.08E-03	3.88E-03	3.19E-04	4.16E-05	1.29E-02

Verification

The process of verification of this EPD is in accordance with ISO 14025 and ISO 21930.
After verification, this EPD is valid for a 5-year-period. EPD does not have to be recalculated after 5 years, if the underlying data have not changed significantly.

The basis for LCA analysis was EN 15804 + A2 and ITB PCR A
Independent verification corresponding to ISO 14025 (subclause 8.1.3) ☒ external ☐ internal
External verification of EPD: Halina Prejzner, PhD Eng LCA, LCI audit and input data verification: Mateusz Kozicki, PhD Verification of LCA: Michał Piasecki, PhD, D.Sc. Eng

Note 1: The declaration owner has the sole ownership, liability and responsibility for the information provided and contained in EPD. Declarations within the same product category but from different programs may not be comparable. Declarations of construction products may not be comparable if they do not comply with EN 15804 + A2. For further information about comparability, see EN 15804 + A2 and ISO 14025. Depending on the application, a corresponding conversion factor such as the specific weight per surface area must be taken into consideration.

Note 2: ITB is a public Research Organization and Notified Body (EC Reg. no 1488) to the European Commission and to other Member States of the European Union designated for the tasks concerning the assessment of building products' performance. ITB acts as the independent, third-party verification organization (17065/17025 certified). ITB-EPD program is recognized and registered member of The European Platform – Association of EPD program operators and ITB-EPD declarations are registered and stored in the international ECO-PORTAL.

Normative references

- ITB PCR A v. 1.6 General Product Category Rules for Construction Products
- EN 14342:2013 Wood flooring and parquet - Characteristics, evaluation of conformity and marking
- ISO 14025:2006 Environmental labels and declarations – Type III environmental declarations – Principles and procedures
- ISO 21930:2017 Sustainability in buildings and civil engineering works – Core rules for environmental product declarations of construction products and services
- ISO 14044:2006 Environmental management – Life cycle assessment – Requirements and guidelines
- ISO 15686-1:2011 Buildings and constructed assets – Service life planning – Part 1: General principles and framework
- ISO 15686-8:2008 Buildings and constructed assets – Service life planning – Part 8: Reference service life and service-life estimation
- EN 15804 + A2: Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products
- ISO 14067:2018 Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification
- PN-EN 15942:2012 Sustainability of construction works – Environmental product declarations – Communication format business-to-business
- KOBiZE Wskaźniki emisyjności CO_2, SO_2, NO_x, CO i pyłu całkowitego dla energii elektrycznej, 2023

LCA, LCI audit and input data verification
Mateusz Kozicki, PhD

qualified electronic signature

Head of the Thermal Physic, Acoustics and Environment Department
Agnieszka Winkler-Skalna, PhD

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CERTIFICATE № 725/2024
of TYPE III ENVIRONMENTAL DECLARATION

Products:

Three-layer wooden floorboards

Manufacturer:

Podłogi Sp. z o.o.
ul. Kolejowa 7, 37-100 Łańcut, Poland

confirms the correctness of the data included in the development of
Type III Environmental Declaration and accordance with the requirements of the standard

EN 15804+A2

Sustainability of construction works.
Environmental product declarations.
Core rules for the product category of construction products.

This certificate, issued on 20th December 2024 is valid for 5 years
or until amendment of mentioned Environmental Declaration

Head of the Thermal Physic, Acoustics and Environment Department
Agnieszka Winkler-Skalna, PhD

INSTYTUT TECHNIKI BUDOWLANEJ

Deputy Director for Research and Innovation
Krzysztof Kuczyński, PhD

Warsaw, December 2024