SENTINEL HOLDING
INSTITUT

SHI PRODUCT PASSPORT

Find products. Certify buildings.

SHI Product Passport No.:

15340-10-1000

3-schicht Landhausdielen Geölt

Product group: Parquet

PODŁOGI ŁAŃCUCKIE

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

Product qualities:

- SHI Product Assessment 2024
- QNG Qualitätssiegel Nachhaltiges Gebäude
- DGNB NEW CONSTRUCTION 2023
- DGNB NEW CONSTRUCTION 2018
- BNB-BN NEUBAU V2015
- EU taxonomy
- BREEAM DE NEUBAU 2018
- LEED v4.1 (outside US)

CERTIFIED SUSTAINABLE PRODUCT
SHI PRODUCT PASSPORT
SENTINEL HOLDING INSTITUT
www.sentinel-holding.eu

Köttner

Helmut Köttner
Scientific Director
Freiburg, 11 May 2026

SENTINEL HOLDING
INSTITUT

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Contents

The SHI Database is the first and only database for construction products whose comprehensive processes and data accuracy are regularly verified by the independent auditing company SGS-TÜV Saar

SGS TÜV SAAR

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SHI Product Assessment 2024

Since 2008, Sentinel Holding Institut GmbH (SHI) has been establishing a unique standard for products that support healthy indoor air. Experts carry out independent product assessments based on clear and transparent criteria. In addition, the independent testing company SGS regularly audits the processes and data accuracy.

Criteria	Product category	Harmful substance limit	Assessment
SHI Product Assessment	Wood-based floor coverings	TVOC ≤ 300 µg/m^3 Formaldehyd ≤ 36 µg/m^3	Indoor Air Quality Certified
Valid untill: 25 June 2027			

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QNG - Qualitätssiegel Nachhaltiges Gebäude

The Qualitätssiegel Nachhaltiges Gebäude (Quality Seal for Sustainable Buildings), developed by the German Federal Ministry for Housing, Urban Development and Building (BMWSB), defines requirements for the ecological, socio-cultural, and economic quality of buildings. The Sentinel Holding Institut evaluates construction products in accordance with QNG requirements for certification and awards the QNG ready label. Compliance with the QNG standard is a prerequisite for eligibility for the KfW funding programme. For certain product groups, the QNG currently has no specific requirements defined. Although classified as not assessment-relevant, these products remain suitable for QNG-certified projects.

Criteria	Pos. / product group	Considered substances	QNG assessment
3.1.3 Schadstoffvermeidung in Baumaterialien	2.3 Multi-layer wood parquet, bamboo coverings, and floor coverings on wood-based panels	VOC / Emissions / hazardous substances	QNG ready
Verification: Blauer Engel Zertifizierung			

Criteria	Assessment
ANF2-WG1 Nachhaltige Materialgewinnung	May positively contribute to the overall building score
Verification: FSC zertifiziert	

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DGNB New Construction 2023

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings. The 2023 version sets high standards for ecological, economic, socio-cultural, and functional aspects throughout the entire life cycle of a building.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 03.05.2024 (3rd edition)	47c Wood-based materials in floor coverings	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 4
Verification: Blauer Engel Zertifizierung			

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact, 29.05.2025 (4th edition)	47c Floor coverings for indoor use (with wooden components)	VVOCs, VOC, SVOC emissions and content of hazardous substances	Quality level 4
Verification: Blauer Engel Zertifizierung			

Criteria	Assessment
ECO1.1 Life cycle cost (*)	May positively contribute to the overall building score
Verification: Langlebigkeit > 40 Jahre. Geringe Instandsetzungskosten durch partielle Reparierbarkeit (geölte Oberfläche). Positive Auswirkung auf das Heizverhalten durch hohe thermische Behaglichkeit.	

Criteria	Assessment
ECO2.6 Climate resilience (*)	May positively contribute to the overall building score

Verification: Holz dämmt natürlich und dämpft Temperaturschwankungen

Criteria	Assessment
ENV1.1 Climate action and energy (*)	May positively contribute to the overall building score

Verification: Es liegt eine EPD vor.

Criteria	Quality level
ENV1.3 Responsible resource extraction	May positively contribute to the overall building score

Verification: FSC zertifiziert

Criteria	Assessment
SOC1.1 Thermal comfort (*)	May positively contribute to the overall building score

Verification: Die offenporige, geölte Oberfläche wirkt hygroskopisch und puffert aktiv Luftfeuchtigkeit. Zudem wirkt Holz thermisch ausgleichend und reguliert so passiv das Raumklima.

Criteria	Assessment
SOC1.2 Indoor air quality (*)	May positively contribute to the overall building score

Verification: SHI-Schadstoffgeprüft

Criteria	Assessment
SOC1.3 Sound insulation and acoustic comfort (*)	May positively contribute to the overall building score

Verification: Verbessert durch die Masse den Schallschutz (Trittschall). Holz absorbiert zudem Schallenergie besser als harte Fliesen, reduziert Nachhallzeiten und sorgt für angenehme Raumakustik.

Criteria	Assessment
SOC1.4 Visual comfort (*)	May positively contribute to the overall building score

Verification: Helle Holzsorten reflektieren Licht besser (Lichtreflexionsgrad), reduzieren den Bedarf an Kunstlicht und unterstützen so eine effiziente Ausleuchtung der Innenräume.

Criteria	Assessment
SOC2.1 Barrier-free design (*)	May positively contribute to the overall building score

Verification: Durch die geringe Aufbauhöhe und schwellenlose Verlegung ermöglicht Parkett ebene Übergänge. Die rutschhemmende, geölte Oberfläche bietet zudem Sicherheit für alle Nutzergruppen.

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DGNB New Construction 2018

The DGNB System (German Sustainable Building Council) assesses the sustainability of various types of buildings. It can be applied to both large-scale private and commercial projects as well as smaller residential buildings.

Criteria	No. / Relevant building components / construction materials / surfaces	Considered substances / aspects	Quality level
ENV 1.2 Local environmental impact	47a Industrially manufactured products	Formaldehyde	Quality level 4
Verification: Blauer Engel Zertifizierung			

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BNB-BN Neubau V2015

The Bewertungssystem Nachhaltiges Bauen (Assessment System for Sustainable Building) is a tool for evaluating public office and administrative buildings, educational facilities, laboratory buildings, and outdoor areas in Germany. The BNB was developed by the former Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB) and is now overseen by the Federal Ministry for Housing, Urban Development and Building (BMWSB).

Criteria	Pos. / product type	Considered substance group	Quality level
1.1.6 Risiken für die lokale Umwelt	2a Elastic floor coverings – with and without bonded underlay or insulation layer	VOC / hazardous substances / heavy metals	Quality level 5
Verification: Blauer Engel Zertifizierung			

Criteria	Assessment
1.1.7 Nachhaltige Materialgewinnung	May positively contribute to the overall building score
Verification: FSC zertifiziert	

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EU taxonomy

The EU Taxonomy classifies economic activities and products according to their environmental impact. At the product level, the EU regulation defines clear requirements for harmful substances, formaldehyde and volatile organic compounds (VOCs). The Sentinel Holding Institut GmbH labels qualified products that meet this standard.

Criteria	Product type	Considered substances	Assessment
DNSH - Pollution prevention and control		Substances according to Annex C, formaldehyde, carcinogenic VOCs category 1A/1B	EU taxonomy compliant

Verification: Blauer Engel Zertifizierung. Herstellererklärung vom 08.05.2026

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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) is a UK-based building assessment system that evaluates the sustainability of new constructions, refurbishments, and conversions. Developed by the Building Research Establishment (BRE), the system aims to assess and improve the environmental, economic, and social performance of buildings.

Criteria	Product category	Considered substances	Quality level
Hea 02 Indoor Air Quality	Flooring materials (including floor levelling compounds and resin flooring)	Emissions: Formaldehyde, TVOC, TSVOC, carcinogens	Exemplary quality

Verification: Prüfbericht des Instituts EPH Dresden vom 25.06.2025 (Nr. 2524671).

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LEED v4.1

LEED (Leadership in Energy and Environmental Design) is an internationally recognised building certification system developed by the U.S. Green Building Council. It is one of the most widely used sustainability standards for buildings worldwide and is particularly applied in internationally oriented projects. LEED assesses buildings holistically across categories such as energy efficiency, resource conservation, material selection, indoor environmental quality and site sustainability. Depending on the number of points achieved, projects are awarded one of the certification levels: LEED Certified, Silver, Gold or Platinum.

Criteria	Product category	Considered substances	Assessment
EQ Credit: Low-Emitting Materials	Bodenbeläge	Emissionen: Formaldehyd, VOC, Krebserregende Stoffe	compliant
Verification: Prüfbericht des Instituts EPH Dresden vom 25.06.2025 (Nr. 2524671).			

SENTINEL HOLDING INSTITUT

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PODŁOGI ŁAŃCUCKIE

Product labels

In the construction industry, high-quality materials are crucial for a building's indoor air quality and sustainability. Product labels and certificates offer guidance to meet these requirements. However, the evaluation criteria of these labels vary, and it is important to carefully assess them to ensure products align with the specific needs of a construction project.

The Forest Stewardship Council (FSC) label is awarded to products made wholly or partly from wood sourced from responsibly managed and controlled forestry. Health-related aspects of the final product are not part of the FSC assessment.

The *Blue Angel* ("Blauer Engel") ecolabel, awarded by the German Federal Environment Agency, is one of the oldest and most widely used ecolabels in Germany. It exists in several variants for many different product groups. Since the test criteria, such as threshold values, differ between these variants, it is important to consider each one individually when assessing indoor air quality.

The Instytut Techniki Budowlanej (ITB) is Poland's leading institute for building technology and operates under the authority of the Ministry of Development and Technology of the Republic of Poland. As a notified and accredited testing body, ITB assesses and verifies Environmental Product Declarations (EPDs) in accordance with ISO 14025 and EN 15804. In doing so, the institute makes an important contribution to the transparency and comparability of environmental product information and supports manufacturers and planners in the sustainable assessment of construction products in the European context.

This product is SHI Indoor Air Quality certified and recommended by Sentinel Holding Institut. Indoor-air-focused construction, renovation, and operation of buildings is made possible by transparent and verifiable criteria thanks to the Sentinel Holding concept.

Products bearing the Sentinel Holding Institute QNG-ready seal are suitable for projects aiming to achieve the "Qualitätssiegel Nachhaltiges Gebäude" (Quality Seal for Sustainable Buildings). QNG-ready products meet the requirements of QNG Appendix Document 3.1.3, "Avoidance of Harmful Substances in Building Materials." The KfW loan program Climate-Friendly New Construction with QNG may allow for additional funding.

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PODŁOGI ŁAŃCUCKIE

Legal notices

(*) These criteria apply to the construction project as a whole. While individual products can positively contribute to the overall building score through proper planning, the evaluation is always conducted at the building level. The information was provided entirely by the manufacturer.

Find our criteria here: https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfkriterien%20f%C3%BCr%20Produkte

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SGS

SGS TÜV SAAR

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PODŁOGI ŁAŃCUCKIE

OAK PREMIUM WIDE PLANK

PRODUCT DESCRIPTION	
General:	Product consists of three layers: a noble oak surface layer, a middle layer made of pine slats and a bottom layer made of spruce veneer
Appearance:	Specially selected material with a delicate wood grain and subdued, uniform colouring. Small knots allowed only. Sapwood does not occur.
Pattern:	1-strips, Premium grade
Surface finishing:	Light or strong brush
Oil:	Saicos Hardwax Oil, Gloss 5-9, 30g/m2
Connecton system:	A Tongue-and-groove joint or a Välinge Click 5G system
Hardness according to EN 13489:	Average hardness 37 MPa
Moisture content:	7% +/- 2%
Floor heating installation:	Yes, max. 27°

DIMENSIONS & TOLERANCES (EN 13489)	
Thickness (≤ 0.2mm):	15 or 14mm
Length (+/- 0.1%):	from 1080 to 3000mm (1080, 1600, 1800, 2000, 2200, 2400, 3000 mm)
Width (+/- 0.2mm):	from 140 to 300 mm (140, 160, 190, 250, 300 mm)

TECHNICAL SPECIFICATIONS	
Top layer:	4mm or 3mm oak
Middle layer:	9mm pine
Bottom layer:	2mm spruce veneer
Fire class:	Cfls-S1
Formaldehyde content:	E1, < LOD (264 h)
Thermal conductivity:	0,12 W/(m*K)
PCP content:	PCP < 5 x IO 6"
Slip resistance:	USRV58

GRADING DESCRIPTION*	
Healthy knots:	Acceptable up to 5mm, sporadically
Unhealthy knots with filler:	Not allowed
Unhealthy knot holes:	Not allowed
Bark pockets:	Not allowed
Structure:	Varied
Colour:	Varied
Arrangement of fibres:	Varied
Silver grains:	Acceptable
Sapwood:	Not allowed
Middle and end cracks:	Not allowed
Heartwood:	Not allowed
*Up to 3 % of the products may have a different grading than the described above according to EN 13489	

PRODUCT LABELLING

CE EPH SUCCESS BY QUALITY FSC www.fsc.org FSC® C130566 ECO PLATFORM EPD VERIFIED Välinge Flooring 5G 2G BLAUER ENGEL DAS UMWELTZEICHEN www.blauer-engel.de/uz176

PODŁOGI ŁAŃCUCKIE

OAK STANDARD WIDE PLANK

PRODUCT DESCRIPTION	
General:	Product consists of three layers: a noble oak surface layer, a middle layer made of pine slats and a bottom layer made of spruce veneer
Appearance:	The wood contains very few and small knots. Colour variation is controlled to the minimum. The finish will be clear, with virtually no major visible flaws.
Pattern:	1-strips, Standard grade
Surface finishing:	Light or strong brush
Oil:	Saicos Hardwax Oil, Gloss 5-9, 30g/m2
Connecton system:	A Tongue-and-groove joint or a Välinge Click 5G system
Hardness according to EN 13489:	Average hardness 37 MPa
Moisture content:	7% +/- 2%
Floor heating installation:	Yes, max. 27°

DIMENSIONS & TOLERANCES (EN 13489)	
Thickness (≤ 0.2mm):	15 or 14mm
Length (+/- 0.1%):	from 1800 to 2400mm (1800, 2000, 2200, 2400 mm)
Width (+/- 0.2mm):	190 mm

TECHNICAL SPECIFICATIONS	
Top layer:	4mm or 3mm oak
Middle layer:	9mm pine
Bottom layer:	2mm spruce veneer
Fire class:	Cfls-S1
Formaldehyde content:	E1, < LOD (264 h)
Thermal conductivity:	0,12 W/(m*K)
PCP content:	PCP < 5 x IO 6"
Slip resistance:	USRV58

GRADING DESCRIPTION*	
Healthy knots:	Acceptable up to 50mm
Unhealthy knots with filler:	Acceptable up to 30mm
Unhealthy knot holes:	Acceptable up to 15mm
Bark pockets:	Not allowed
Structure:	Varied
Colour:	Varied
Arrangement of fibres:	Varied
Silver grains:	Acceptable without limit
Sapwood:	Not allowed
Middle and end cracks:	Not allowed
Heartwood:	Not allowed
*Up to 3 % of the products may have a different grading than the described above according to EN 13489	

PRODUCT LABELLING

CE

EPH SUCCESS BY QUALITY

FSC www.fsc.org FSC® C130566

ECO PLATFORM EPD VERIFIED

Välinge Flooring 5G 2G

BLAUER ENGEL DAS UMWELTZEICHEN www.blauer-engel.de/uz176

PODŁOGI ŁAŃCUCKIE

OAK STYLE WIDE PLANK

PRODUCT DESCRIPTION	
General:	Product consists of three layers: a noble oak surface layer, a middle layer made of pine slats and a bottom layer made of spruce veneer
Appearance:	Products are characterized by clear and contrasting grains, as well as visible knots and cracks. The putty used to fill in the cracks can be either lighter or darker in colour. The floor darkens under the influence of UV rays.
Pattern:	1-strip, Rustic grade
Surface finishing:	Light or strong brush
Oil:	Saicos Hardwax Oil, Gloss 5-9, 30g/m2
Connecton system:	A Tongue-and-groove joint or a Välinge Click 5G system
Hardness according to EN 13489:	Average hardness 37 MPa
Moisture content:	7% +/- 2%
Floor heating installation:	Yes, max. 27°

DIMENSIONS & TOLERANCES (EN 13489)	
Thickness (≤ 0.2mm):	15 or 14mm
Length (+/- 0.1%):	from 1080 to 3000mm (1080, 1600, 1800, 2000, 2200, 2400, 3000 mm)
Width (+/- 0.2mm):	from 140 to 300 mm (140, 160, 190, 250, 300 mm)

TECHNICAL SPECIFICATIONS	
Top layer:	4mm or 3mm oak
Middle layer:	9mm pine
Bottom layer:	2mm spruce veneer
Fire class:	Cfls-S1
Formaldehyde content:	E1, < LOD (264 h)
Thermal conductivity:	0,12 W/(m*K)
PCP content:	PCP < 5 x IO 6"
Slip resistance:	USRV58

GRADING DESCRIPTION*	
Healthy knots:	Acceptable up to 80mm in diameter
Unhealthy knots with filler:	Acceptable up to 60mm in diameter
Unhealthy knot holes:	Acceptable up to 40mm in diameter
Bark pockets:	Acceptable
Structure:	Varied
Colour:	Varied
Arrangement of fibres:	Varied
Silver grains:	Acceptable without limit
Sapwood:	Not allowed
Middle and end cracks:	Acceptable
Heartwood:	Acceptable
*Up to 3 % of the products may have a different grading than the described above according to EN 13489	

PRODUCT LABELLING

CE

EPH® SUCCESS BY QUALITY

FSC www.fsc.org FSC® C130566

ECO PLATFORM EPD VERIFIED

Välinge Flooring 5G 2G

BLAUER ENGEL DAS UMWELTZEICHEN www.blauer-engel.de/uz176

Type III Environmental Product Declaration No. 725/2024

Issuance date: 20.12.2024
Validity date: 20.12.2029

Three-layer wooden floorboards

Owner of the EPD:

Podłogi Sp. z o.o.
Address: Kolejowa 7
37-100 Łańcut, Poland
Tel.: +48 784 204 482
Website: www.podlogi.eu.com
Contact: biuro@podlogilancuckie.pl

EPD Program Operator:

Instytut Techniki Budowlanej (ITB)
Address: Filtrowa 1
00-611 Warsaw, Poland
Website: www.itb.pl
Contact: energia@itb.pl

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.

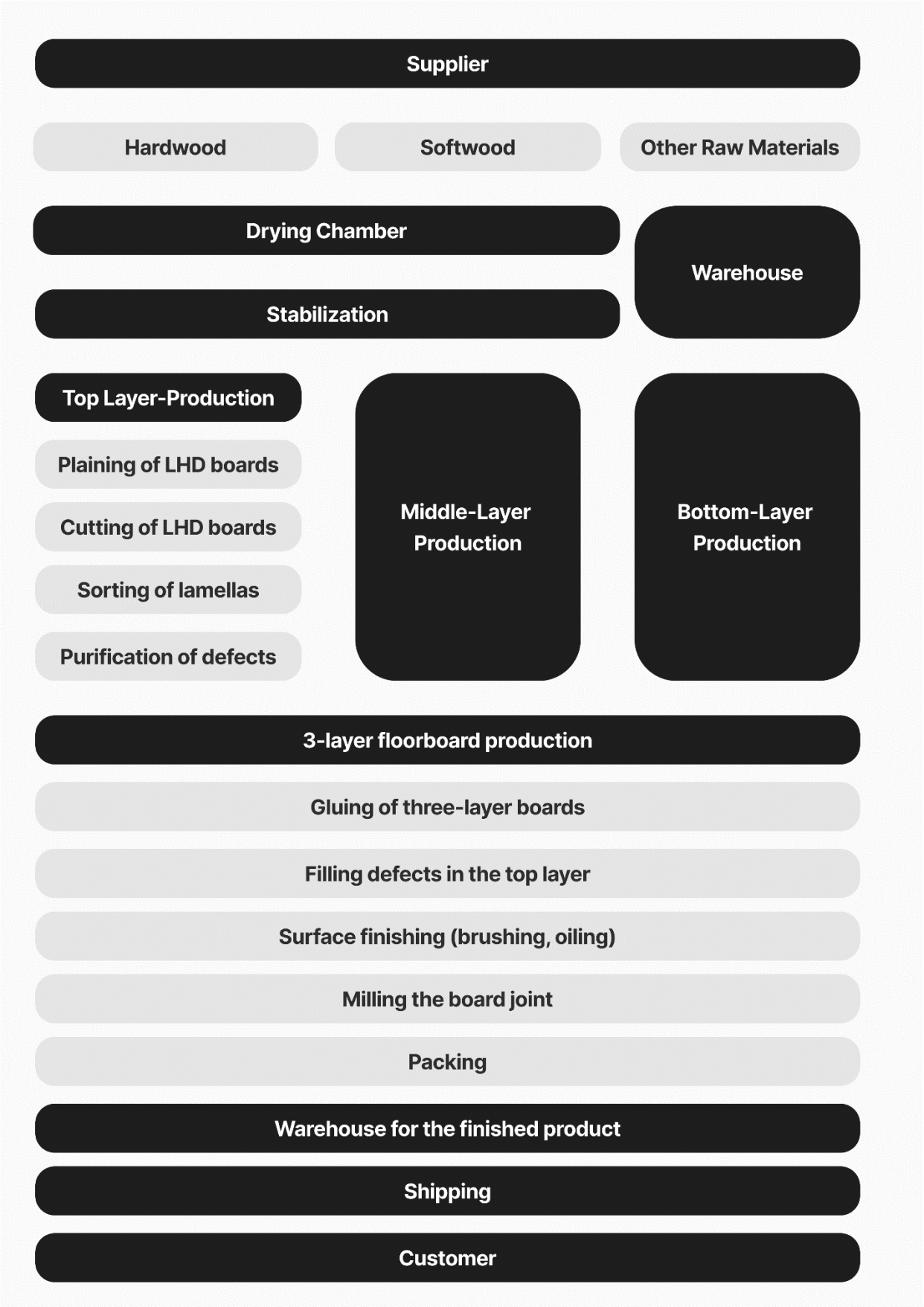

Fig. 3. A scheme of 3-layer wooden floorboards production by Podłogi Sp. z o.o. (Poland)

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

qualified electronic signature

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Thermal Physics, Acoustics and Environment Department
02-656 Warsaw, Ksawerów 21

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

„Podłogi” sp. z o.o. UL. KOLEJOWA 7 37-100 ŁAŃCUT

Łańcut, 08.05.2026

Sentinel Holding Institut GmbH
Bötzinger Straße 38
D-79111 Freiburg i. Br.

Herstellererklärung

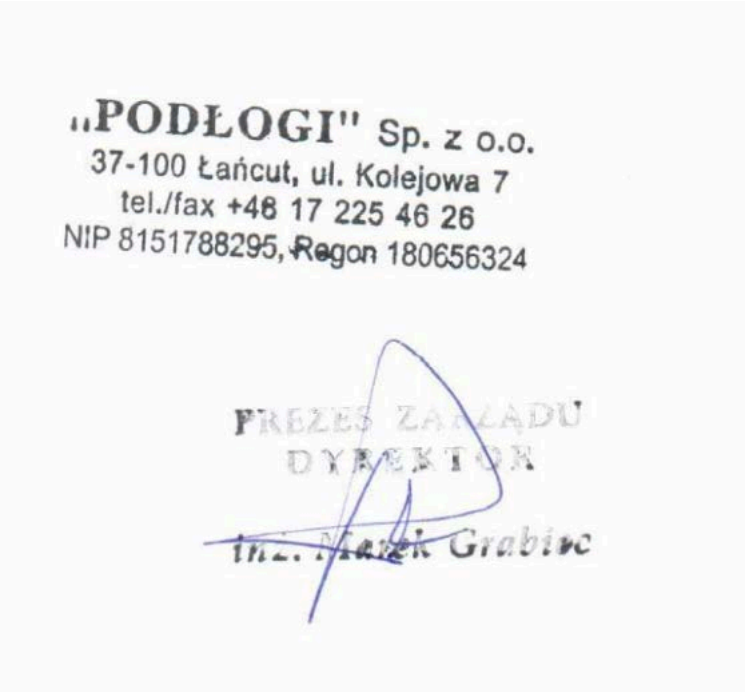
hiermit bestätigen wir, dass in unseren Produkten keine SVHC oder CMT-Stoffe der Kategorie 1A und 1B erhalten sind und alle aktuellen gesundheitlichen Vorgaben, wie z.B. REACH entsprechen.

Die Angaben beruhen auf Informationen des Herstellers und sind nach bestem Wissen korrekt.

Änderungen durch gesetzliche Anpassungen oder neue Prüfmethoden bleiben vorbehalten.

Diese Erklärung ist gültig, bis eine aktualisierte Version bereitgestellt wird oder sich relevante Gesetzgebungen ändern.

Mit freundlichen Grüßen



CERTIFICATE

CERTIFICATION CODE: CU-COC-846631

Field of attention:

FSC® Chain of Custody (COC)

Issued to:

Podlogi Sp. z o.o.
Lancut, POLAND
Project in: POLAND

Standard:

FSC-STD-40-004 V3-1 Chain of Custody Certification, FSC-STD-50-001 V2-1 Requirements for use of the FSC trademarks by Certificate Holders;

Valid until: 05 June 2026

The validity of this certificate shall be verified on http://info.fsc.org/

Control Union Certifications declares to have inspected the unit(s), and/or products of the above mentioned certificate holder, and have found them in accordance with the standards mentioned above.

This certificate covers the unit(s), and/or product(s) as mentioned in the authenticated annex of this certificate. A full list of product groups covered by the certificate can be found on the FSC database of registered certificates (http://info.fsc.org/).

This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents.
This certificate remains in force until further notice, provided that the participant continues to meet the conditions as laid down in the client contract with Control Union Certifications B.V. and verified in inspections by Control Union Certifications B.V.

Date of certification:
06 June 2021
Place and date of issue:
Zielona Góra, 30 July 2024

CERTIFICATE No: C 846631CU-COC-02.2024

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Declared by:
Łukasz Marczewski
On behalf of the Managing Director

Mr. LM Marczewski

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CONTROL UNION CERTIFIED

Annex to
CERTIFICATION CODE: CU-COC-846631
FSC® Chain of Custody (COC)

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37-100 Lancut
POLAND

This certificate gives the right, in accordance with the agreements in the licencee-contract, on the basis of the accreditation of CU by the Forest Stewardship Council (FSC), to use the FSC logo for the unit(s), process(es) and/or product(s) mentioned below. Use of the FSC logo on (trade) products is only allowed for products mentioned under "products" in conformity with the category.

This certificate and its copies or reproductions shall be returned to CU immediately on request.
More information about the client and/or products and/or units can be obtained at the website of CU (www.controlunion.com/certifications) or by contacting CU.

This certificate, referred to in the client contract as scope certificate, covers the following product(s), which comply(ies) with the latest version of the CU Forestry Standards:

Certified products

Product no.	Name of product	Category	Processing unit(s)
P 063833	W11.5 Flooring	FSC 100%, FSC Mix	PRC 065867

This certificate covers the following Processing Unit(s), which comply(ies) with the latest version of the CU Forestry Standards:

Processing unit(s)

Unit no.	Name of unit	Unit ref.	Address	Processes
PRC 065867	Podlogi Sp. z o.o.		ul. Kolejowa 7 Lancut, podkarpackie POLAND	Secondary processor

This certificate including the annex remains property of Control Union Certifications B.V. and can be withdrawn in case of terminations as mentioned in the licensee contract, or in case changes or deviations of the above mentioned data occur. The licensee is obliged to inform Control Union Certifications B.V. immediately of any changes in the above mentioned data. Only an original and signed certificate with accompanying attachments is valid.

Date of certification:
06 June 2021

Place and date of issue:
Zielona Góra, 30 July 2024

Authenticated by

Łukasz Marczewski
On behalf of the Managing Director
Mr. LM Marczewski
Certifier

This certificate cannot be used as guarantee certificate for delivered goods!

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