Environmental Product Declaration

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

“Assi del Cansiglio, prefinished 3-layer planking wooden floor”

from

ITLAS S.r.l. SB

Programme:	The International EPD® System, www.environdec.com
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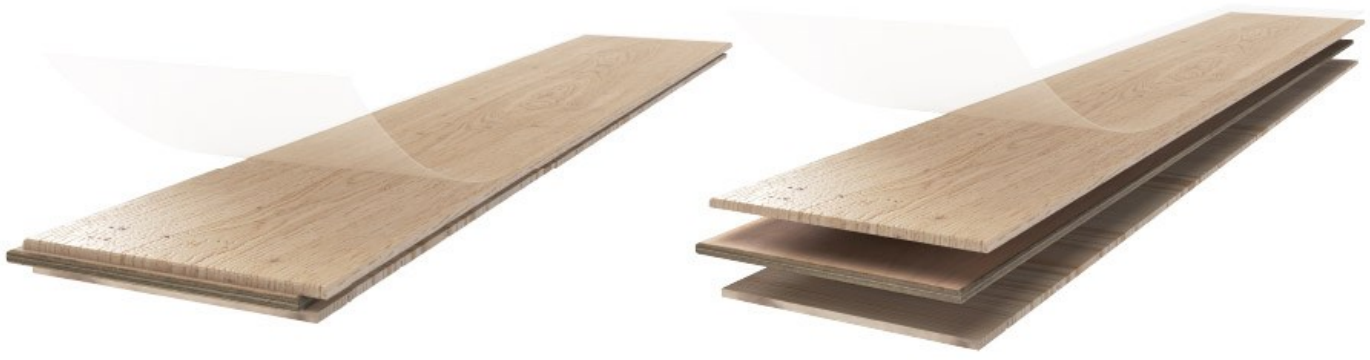
An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
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Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): • PCR 2019:14 - Construction products (EN 15804+A2) (1.3.4) • c-PCR-006 "WOOD AND WOOD-BASED PRODUCTS FOR USE IN CONSTRUCTION (EN 16485:2014)" version 2024-04-30.
PCR 2019:14 IVL Swedish Environmental Research Institute, the Secretariat of the International EPD System, CTME, Concrete NZ, Monk Spaces, Aquafil SpA; Version 1.0.0: IVL Swedish Environmental Research Institute, the Secretariat of the International EPD System
Life Cycle Assessment (LCA)
LCA accountability: Matteo Piazza, ITLAS S.r.l. SB; ambiente.sicurezza.01@itlas.it LCA Technical support: Manfredi Vale, eAmbiente; m.vale@eambientesrl.com
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: IMQ, Istituto Italiano del Marchio di Qualità is an approved certification body accountable for the third-party verification The certification body is accredited by: Accredia (accreditation number 00013)

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: ITLAS S.r.l. Società Benefit. ITLAS is one of the most important Italian companies in the production and marketing of pre-finished wood flooring. It is based in Cordignano, in the province of Treviso, where it was founded in 1988 and where its production facilities are located. An area of 65 thousand covered and 120 thousand uncovered square metres in which about 200 employees and collaborators work. Since 2013, the company has also produced furniture and bathroom fittings.

Contact: Matteo Piazza, ITLAS S.r.l. SB; ambiente.sicurezza.01@itlas.it
Description of the organisation: Manufacturer of layered planks for wooden flooring applications
Product-related or management system-related certifications: ISO 9001:2015, ISO 14001:2015, FSC®, PEFC, French Label, 100% Made in Italy, EUTR, IMO – MED.
Name and location of production site(s): ITLAS S.r.l. Società Benefit, Via del Lavoro, 35, Cordignano, Italy.

See the GPI and the PCR for other required company information.

Product information

Product name: Assi del Cansiglio, prefinished 3-layer planking wooden floor
Product identification: Same as product name.
Product description: 3-layer planking for wooden floor. Layers are cut, rectified and polished, then glued together. The uppermost, visible layer is composed of Italian beech wood from the Cansiglio Woods. It is polished and varnished to protect the wood from wear, and to reach the desired aesthetic finishing. The central layer is composed of beech plywood, while the bottom balancing layer is composed of solid spruce wood. Product is sold as assembled 3-layer planks. Multiple planks are packaged by ITLAS for shipment. Product needs to be assembled into the finished floor on-site.
UN CPC code: 31410 “Plywood consisting solely of sheets, of non-coniferous wood”
Other codes for product classification: HS 2007: 4412.31, .32; ISIC 4: 1610
Geographical scope:
A1: IT, FR; **A2**: IT, FR, LV, PL, RER; **A3**: IT; **C modules**: IT; **D**: IT.
(Abbreviations: IT: Italy; FR: France; LV: Latvia; PL: Poland; RER: Europe)
Type of EPD: Product-Specific EPD

LCA information

Declared unit: 1 m^2 of beech timber, three-layer planking for wooden floor, 16 mm thick, equal to 10,2 kg of product, including packaging
Reference service life: not applicable
Time representativeness: from January 2023 to December 2023
Database(s) and LCA software used: SimaPro 9.6.0.1 and Ecoinvent 3.10 database
Description of system boundaries: Cradle to gate with options. Declared modules: A1 – A3, C1 – C4 and module D.

Calculation of impact results from inventory data is based on the characterization factors from the Environmental Footprint method, adapted for the EN 15804 standard.

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

X = module declared.

MND = module not declared.

Geography abbreviations: IT: Italy; FR: France; LV: Latvia; PL: Poland; RER: Europe.

	LIFE CICLE INFORMATION															Supplementary information
	Production stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundary
	A1-A3			A4-A5		B1-B5					B6-B7		C1-C4				D
	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	Potential for recycling, recovery and reuse
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X
Geography	IT, FR, LV, PL	IT, LV, PL, RER	IT										IT	IT	IT	IT	IT
Share of specific data	49%																
Variation – Products	None: Product-Specific EPD																
Variation – Sites	None: one production site																

Content information

Of the representative product, with respect of the declared unit of 1 m²

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg dry mass (*)
Virgin wood	10,2 ± 0,5	0,0%	100%; 0,41 kg C / kg dry mass
TOTAL	10,2 ± 0,5	0,0%	100%; 0,41 kg C / kg dry mass
Packaging materials	**Weight, kg**	**Weight-% (versus the product)**	**Weight biogenic carbon, kg C/kg**
HDPE film	3,4E-03	0,03%	--
Corrugated cardboard	0,40	3,93%	0,45 kg C / kg dry mass
Adhesive plastic tape	8,4E-05	< 0,01%	--
Euro pallet	0,17	1,65%	0,47 kg C / kg dry mass
TOTAL	**0,57**	**5,6%**	**0,47 kg C / kg dry mass**

(*) Values in the table refer to the "bone-dry mass" of timber, i.e. timber with 0% residual humidity. Timber used by Itlas contains 9% - 10% humidity by weight.

As a result of the calculation in the table above, the content of biogenic carbon in the product and in the packaging is the following:

- Product, weight 10,2 kg / 1 m², biogenic carbon content: 4,2 kg biogenic carbon;
- Packaging, corrugated cardboard, 0,40 kg / 1 m² of product, biogenic carbon content: 0,18 kg biogenic carbon;
- Packaging, Europallet, 0,17 kg / 1 m² of product, biogenic carbon content: 0,08 kg biogenic carbon.

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight-% per functional or declared unit
None	--	--	--

A1 energy production is modeled with the Ecoinvent 3.10 process "Electricity, low voltage {IT}| electricity, low voltage, residual mix | Cut-off, U", reflecting the *Italian residual mix*, reference year 2023. Calculated GWP-GHG impact of this process is 0,59 kg CO_2-eq / kWh.

Results of the environmental performance indicators

Results relate to the representative product

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.

Disclaimer: the use of LCA results without including the modules C is discouraged.

Mandatory impact category indicators according to EN 15804

Results per functional or declared unit										
Indicator	**Unit**	**A1**	**A2**	**A3**	**A1-A3**	**C1**	**C2**	**C3**	**C4**	**D**
GWP-fossil	kg CO_2 eq.	2,43E+01	1,82E+00	2,94E+00	2,90E+01	0,00E+00	1,59E-01	8,04E-02	5,22E-03	-6,79E+00
GWP-biogenic	kg CO_2 eq.	-3,55E+01	5,96E-04	3,01E+01	-5,33E+00	0,00E+00	5,20E-05	1,33E+01	1,60E-01	-2,48E-01
GWP- LULUC	kg CO_2 eq.	6,01E-02	4,47E-05	4,60E-03	6,48E-02	0,00E+00	3,90E-06	4,01E-06	1,79E-07	-2,68E-04
GWP-total	kg CO_2 eq.	-1,11E+01	1,82E+00	3,31E+01	2,38E+01	0,00E+00	1,59E-01	1,34E+01	1,65E-01	-7,04E+00
ODP	kg CFC 11 eq.	4,83E-07	3,71E-08	6,15E-08	5,81E-07	0,00E+00	3,24E-09	1,31E-09	8,23E-11	-2,36E-07
AP	mol H^+ eq.	1,12E-01	4,58E-03	9,15E-03	1,25E-01	0,00E+00	3,95E-04	1,27E-03	4,92E-05	-1,11E-02
EP-freshwater	kg P eq.	2,83E-02	1,77E-03	2,59E-03	3,26E-02	0,00E+00	1,52E-04	7,27E-04	3,99E-04	-2,46E-03
EP- marine	kg N eq.	8,55E-03	1,31E-05	5,96E-04	9,16E-03	0,00E+00	1,15E-06	3,34E-05	8,63E-06	-4,05E-04
EP-terrestrial	mol N eq.	2,94E-01	1,93E-02	2,46E-02	3,38E-01	0,00E+00	1,66E-03	6,93E-03	2,51E-04	-2,61E-02
POCP	kg NMVOC eq.	1,20E-01	7,98E-03	3,42E-02	1,62E-01	0,00E+00	6,90E-04	1,68E-03	1,25E-04	-1,45E-02
ADP-minerals&metals*	kg Sb eq.	3,55E+02	2,40E+01	4,83E+01	4,27E+02	0,00E+00	2,10E+00	5,74E-01	6,87E-02	-1,10E+02
ADP-fossil*	MJ	1,05E-06	6,01E-08	4,85E-07	1,60E-06	0,00E+00	5,25E-09	1,07E-08	2,18E-10	-6,39E-08
WDP*	m^3	9,33E+00	1,02E-02	1,25E+00	1,06E+01	0,00E+00	8,91E-04	1,23E-02	5,41E-05	-1,99E+00
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.*

Additional mandatory and voluntary impact category indicators

Results per functional or declared unit										
Indicator	**Unit**	**A1**	**A2**	**A3**	**A1-A3**	**C1**	**C2**	**C3**	**C4**	**D**
GWP – GHG [1]	kg CO_2 eq.	2,44E+01	1,82E+00	2,96E+00	2,91E+01	0,00E+00	1,59E-01	8,06E-02	1,54E-01	-6,80E+00
Additional voluntary indicators e.g. the voluntary indicators from EN 15804 or the global indicators according to ISO 21930:2017	--				--	--	--	--	--	--

[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**	**A2**	**A3**	**A1-A3**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	3,87E+01	7,46E-02	1,03E+01	4,91E+01	0,00E+00	6,50E-03	8,38E-03	1,37E-04	-1,38E+01
PERM	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
PERT	MJ	3,87E+01	7,46E-02	1,03E+01	4,91E+01	0,00E+00	6,50E-03	8,38E-03	1,37E-04	-1,38E+01
PENRE	MJ	1,44E+03	2,40E+01	5,38E+01	1,52E+03	0,00E+00	2,09E+00	5,71E-01	6,86E-02	-1,11E+02
PENRM	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
PENRT	MJ	1,46E+03	2,40E+01	5,48E+01	1,54E+03	0,00E+00	2,10E+00	5,76E-01	6,87E-02	-1,12E+02
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	7,51E+01	0,00E+00	0,00E+00	7,51E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m^3	3,14E-01	6,17E-04	3,51E-02	3,49E-01	0,00E+00	5,38E-05	1,47E-03	2,15E-06	-5,24E-02
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									

Waste indicators

Results per functional or declared unit										
Indicator	**Unit**	**A1**	**A2**	**A3**	**A1-A3**	**C1**	**C2**	**C3**	**C4**	**D**
Hazardous waste disposed	kg	1,48E-03	1,59E-04	4,20E-04	2,06E-03	0,00E+00	1,39E-05	1,95E-05	4,71E-07	-4,69E-04
Non-hazardous waste disposed	kg	1,15E-01	7,14E-04	2,23E+00	2,34E+00	0,00E+00	6,23E-05	1,23E-02	1,97E-06	-5,89E-03
Radioactive waste disposed	kg	2,52E-04	2,26E-06	4,17E-05	2,96E-04	0,00E+00	1,97E-07	2,01E-07	3,54E-09	-9,04E-05

Output flow indicators

Results per functional or declared unit										
Indicator	**Unit**	**A1**	**A2**	**A3**	**A1-A3**	**C1**	**C2**	**C3**	**C4**	**D**
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Material for recycling	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 energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,08E+00	0,00E+00	0,00E+00
Exported energy, electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Exported energy, thermal	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

References

- General Programme Instructions of the International EPD® System. Version 4.0.
- PCR 2019:14. “Construction Products”. Version 1.3.4, valid until 2025-06-20
- c-PCR-006 ”WOOD AND WOOD-BASED PRODUCTS FOR USE IN CONSTRUCTION (EN 16485:2014)” version 2024-04-30.
- Rapporto LCA ITLAS S.r.l. SB ” Studio LCA dalla culla al cancello di 3 doghe per pavimenti in legno prodotti da Itlas, finalizzato a pubblicazione di EPD”, rev. 05 2025-03-28

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