



Environmental Product Declaration for *Invernizzi* **IGNIPASCOMP** *Fire Retardant Poplar Plywood*

(thickness range 10 to 30 mm)

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

Programme: **The International EPD System**, www.environdec.com

Programme operator: **EPD International AB**

Registration number: **EPD-IES-0028361:001**

EPD of multiple products based on a representative product

Publication date: **17/03/2026**

Valid until: **17/03/2031**



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Plywood Tradition





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General Information



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

EPDs within the same product category but published in different EPD programmes, may not be comparable. For two EPDs to be comparable, they shall be based on the same PCR (including the same first-digit 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 identical scope in terms of included life-cycle stages (unless the excluded life-cycle stage is demonstrated to be insignificant); apply identical impact assessment methods (including the same version of characterisation factors); and be valid at the time of comparison.

For further information about comparability, see EN 15804 and ISO 14025.

Product Category Rules (PCR)	PCR 2019:14 "CEN STANDARD EN 15804 SERVES AS THE CORE PRODUCT CATEGORY RULES (PCR). CONSTRUCTION PRODUCTS" VERSION 2.0.1 [VALID UNTIL 07/04/2030]. C-PCR-006: "WOOD AND WOOD-BASED PRODUCTS FOR USE IN CONSTRUCTION", VERSION 1.0.0 [VALID UNTIL 07/04/2030]
LCA developed by	VALENTINA CASTELLANI, SUSTAINABILITY CONSULTANT [CASTELLANI.VALENTINA@GMAIL.COM]
Third-party verification	EPD VERIFICATION BY ACCREDITED CERTIFICATION BODY THIRD-PARTY VERIFICATION: IMQ IS AN APPROVED CERTIFICATION BODY ACCOUNTABLE FOR THE THIRD-PARTY VERIFICATION THE CERTIFICATION BODY IS ACCREDITED BY: ACCREDIA - ACCREDITATION 00013 REV. 001
Procedure for follow-up of data during EPD validity involves third party verifier	☐ YES ☒ NO

Information about EPD owner



Invernizzi SpA is a leading **family-owned company** since four generations, firmly established on the domestic and the international market of wood processing and poplar plywood and poplar particleboard manufacturing.

It was first set up as a sawmill back in 1875 by Libero Invernizzi, then on January 15th 1940, Giuseppe Invernizzi founded in Gussola, Cremona, Italy, the company “Giuseppe Invernizzi e Figli” a small craftsmanship dedicated to wood processing. After World War II, Giuseppe’s children, Costantino and Alberto, further developed the company to include manufacturing of wooden packaging for local food products, such as cured meat, mustard and jam. It then started producing poplar plywood in the early Fifties, becoming one of the most important players on the Italian market. Then, in 1973, in Solarolo Rainerio, Cremona, Italy, the Invernizzi family founded IPAS S.R.L., a company specialized in manufacturing poplar particleboard panels. In 1996, Giorgio Invernizzi took over the management and with a far-sighted perspective joined the two companies, establishing the headquarters in Solarolo Rainerio, thus establishing the current INVERNIZZI S.p.A.

This brave choice resulted in a stronger competitive advantage and one of the first proofs of the integral and sustainable exploitation of a precious raw material such as poplar wood.

Despite the subsequent enlargements and the latest organizational and structural changes, the company is and wants to remain a family company.

Family Invernizzi has always been the propelling heart of the company, as its members passed over from father to son the skills, the motivation and the enthusiasm. Still today, the family and the company are intertwined.

Giorgio’s kids, Laura and Giuseppe, now represent the fourth generation of an industrial family proud of its history. Following their predecessors’ footsteps, they join their father as company leaders, bringing their own personal touch, ideas and skills.



Reliability, flexibility and dedication are the pillars of the Invernizzi brand name, whose **mission** currently is:

- Offering an exclusive product range;
- Promoting sustainability throughout the entire supply and production chain;
- Creating added value to the customer by means of a transparent customer-oriented organization;
- Supporting continuous improvement by spreading a culture of high-quality products all over the supply and production chain;
- Increasing competitiveness and revenues in a more and more demanding market.



Nowadays, the company headquarters and facilities are located in Solarolo Rainerio (Cremona), in Northern Italy – UE, over an area of more than 246.000 square meters of which more than 39.000 are indoor with 190 employees.

INVERNIZZI SPA is a market leader in the plywood sector, well-known all-over Europe and overseas for the high quality and technical performances of its products, which can also be PEFC, CARB phase 2, E1, NAF, CE 2+ and FSC® certified. These certifications and the best industrial practices, testified by the continuous investments in state of the art technology (new dryer to be fully operational shortly) witness the company’s engagement towards the creation of a strong and efficient industrial model, which is sustainable and future-oriented.

Further to that, INVERNIZZI SPA is in a process of substantial growth and aims at getting further international acknowledgment.

Information about EPD owner



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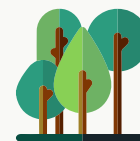
The company exports around 50% of its products in more than 18 countries. The main **end markets** for Invernizzi products are: automotive and recreational vehicles (RV), furniture, coffins, building and construction and wood product dealers.



One of the main reasons of the company's **competitive advantage** comes from the productive complementarity between the two production lines, since the company's manufacturing facilities are divided into two different sections, one dedicated to the plywood production and the other to the chipboard. Both are interconnected, as the sanding and trimming residues of plywood panels produced are milled and end up into the chipboard production line, thus creating a perfect synergy between the two production lines. This represents a virtuous example of **production circularity** in the INVERNIZZI world.



This "**green path**" towards efficiency and sustainability has always been at the heart of the company's industrial philosophy. It all started back in 2006 when INVERNIZZI SPA was among the first companies in Italy to set up a **cogeneration plant** in its premises by producing electrical energy through burning methane gas. This allowed the company to be self-sufficient in terms of energy. This project, through the exploitation of a renewable energy source, represents and confirms the company's commitment for the protection of the global environment.



Apart from that, the company never abandoned its original raw material, which is mainly **Italian poplar**, locally harvested, contributing to develop both its farming and industrial potential, promoting the local economy and the conservation of the local surrounding landscape.



Moreover, INVERNIZZI SPA is constantly working to produce **low-emitting plywood** panels by developing new bonding techniques, bio-based and made with natural ingredients. This represents a further step towards a responsible and sustainable production, which is closer to mankind and the environment.



The final step in this path is represented by the installation of **photovoltaic panels** on the shed of the new dryer, that came into operation in July 2022. The system contains 1090 panels.

Product Information



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IGNIPASCOMP Fire-Retardant Poplar Plywood by INVERNIZZI is a natural product, manufactured using poplar veneers that are fire-treated individually, then superposed on each other and glued to longitudinal fibres, so as to obtain a fully fire-resistant board. The special technical processes and exclusive know-how make the **IGNIPASCOMP** poplar plywood panels extremely resistant to fire. In fact, the product is classified according to the **UNI EN 13501-1 standard** and therefore complies with the fire reaction **Euroclass B-s2, d0**. The product also complies with the **UNI EN 45545-2 standard**, referred to the railway sector, with **R1** set of requirements. The plywood panels can be used in public and private construction projects, automotive sector, boats and caravans, and rolling stock.

The Ignipascomp plywood can be made in different thicknesses (from 10 to 30 mm). The reference product considered for the study is a panel with a thickness of 18 mm, which represents the most sold format and therefore most representative of the products made by the company. The EPD covers the whole range of products, from 10 mm to 30 mm.

CONTENT DECLARATION

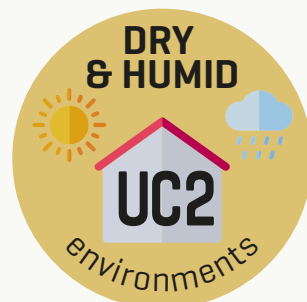
Mass (weight) of one unit of a product per declared unit: 605 kg/m³

1 kg biogenic carbon in the product/packaging is equivalent to the uptake of 44/12 kg of CO₂.

- The product does not contain hazardous substances and substances of very high concern (SVHC) included in the REACH candidate list published by the European Chemical Agency.

- In addition, the product does not contain: Asbestos, Mercury, Lead, Cadmium, Halogenated Flame Retardants (HFR), Perfluoroalkyl chemicals (PFAS), textiles and plastics.

Product content	Mass, kg	Post-consumer recycled material, mass-% of product	Biogenic material, mass-% of product	Biogenic material, kg C/product or declared unit
Poplar Wood	350	0%	58%	642
Glue	57	0%	0%	0
Fire-retardant salt	150	0%	0%	0
Water	48	0%	0%	0
TOTAL	605	0%	58%	642



for **INTERIOR** use

Packaging materials	Mass, kg	Mass-% (versus the product)	Biogenic material, kg C/ declared unit
Paper	0.005	0.001%	0.01
Board	0.366	0.060%	0.67
Plastic	0.095	0.016%	0.17
TOTAL	0.466	0.077%	0.854



Product Information



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▪ CERTIFICATIONS

IGNIPASCOMP panels are manufactured according to the formaldehyde emission control rules and, in this regard, they boast following internationally acknowledged certifications, such as:

Class E1/2 Reg. EU 2023/1464 - its compliance provides that formaldehyde emissions of wood-based panels must not exceed 0,62 mg/m³.

CARB ULEF - (compliant) exemption issued by the California Air Resources Board.

With regards to its supply and production chain, **INVERNIZZI IGNIPASCOMP fire retardant poplar plywood** also abides by the following international standards:

FSC® - issued by the Forest Stewardship Council, aimed at responsible and sustainable management of forest resources.

EU 995/2010 - EU Timber Regulation.

PEFC - stands for Program for the Endorsement of Forest Certification and is aimed at promoting a sustainable forest management.

CE marking - certificates for structural use with 2+ system EN 13986:04 standard, wood panels for structural use.

STANDARD/CERTIFICATION	CONFORMITY
<i>Class E1/2 Reg. EU 2023/1464</i>	ALL PRODUCTS
<i>CARB ULEF</i>	COMPLIANT
<i>FSC®</i>	ON DEMAND
<i>EU 995/2010</i>	ALL PRODUCTS
<i>PEFC</i>	ON DEMAND
<i>CE</i>	ALL PRODUCTS

Available thicknesses range from 10 mm to 30 mm.
The reference thickness considered for the study is 18 mm.



Product Information



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▪ APPLICATIONS

Fire-retardant poplar plywood Ignipascomp is extremely versatile and can be used in several applications, such as:

- PUBLIC AND PRIVATE CONSTRUCTION
- AUTOMOTIVE
- BOATS AND CARAVANS
- ROLLING STOCK



LCA information



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▪ DECLARED UNIT

1m³ of Ignipascomp plywood with thickness 18 mm (605 kg/m³)

▪ DATABASE[S] AND LCA SOFTWARE USED

Study developed using Simapro 10.5 software and ecoinvent 3.11 library.

▪ CUT-OFF

All input and output flows contributing to more than 1% by mass and 5% by energy to the system are included. The packaging of the product is excluded because its mass is below the cut-off threshold. The material content of the packaging is declared.

▪ ELECTRICITY MIX

Climate impact of the electricity purchased (electricity from the Italian grid, residual mix): 0.648 kg CO₂eq/kWh

▪ CONSIDERED PARAMETERS

Parameters considered for the study: moisture content 9%, density 605 kg/m³.

▪ REFERENCE YEAR

2024

▪ ALLOCATION

As the difference in economic value of co-product is high (>25%), economic allocation is applied in the study

Description of System Boundaries



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Cradle to gate with options, modules C1–C4, module D and with optional modules (A1–A3 + C + D and A4).

	A1 X	A2 X	A3 X	A4 X	A5 ND	B1 ND	B2 ND	B3 ND	B4 ND	B5 ND	B6 ND	B7 ND	C1 X	C2 X	C3 X	C4 X	D X
	Raw material supply 	Transport of raw materials 	Manufacturing 	Transport to customer 	Construction-Installation process 	Use 	Maintenance 	Repair 	Replacement 	Refurbishment 	Operational energy use 	Operational water use 	Deconstruction/demolition 	Transport to waste processing 	Waste processing 	Disposal 	Reuse, recovery, recycling potential 
	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END-OF-LIFE STAGE				RESOURCE RECOVERY STAGE
Geography	EU27	EU27	IT	EU27	ND	ND	ND	ND	ND	ND	ND	ND	EU27	EU27	EU27	EU27	EU27
Share of primary data	34.0%					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	<10%					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0%					-	-	-	-	-	-	-	-	-	-	-	-

Description of System Boundaries



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Process	Source type	Source	Reference year	Source	Share of primary data, of GWP-GHG results for A1-A3
Production of monammonium phosphate (fire retardant)	Database	Ecoinvent v3.11	2020	Secondary data	0%
Production of melamine urea formaldehyde adhesive	Database	EPD owner / Ecoinvent v3.11	2024	Secondary data	0%
Generation of electricity and heat (CHP) used in manufacturing of product	Collected data / Database	EPD owner / Ecoinvent v3.11	2024 2024	Primary data	28.1%
Transport of inputs to the manufacturing site	Database	EPD owner / Ecoinvent v3.11	2024	Primary data	5.9%
Other processes	Database	EPD owner / Ecoinvent v3.11	2006 / 2024	Secondary data	0%
Total share of primary data, of GWP-GHG results for A1-A3					34.0%

Process Flow Diagram



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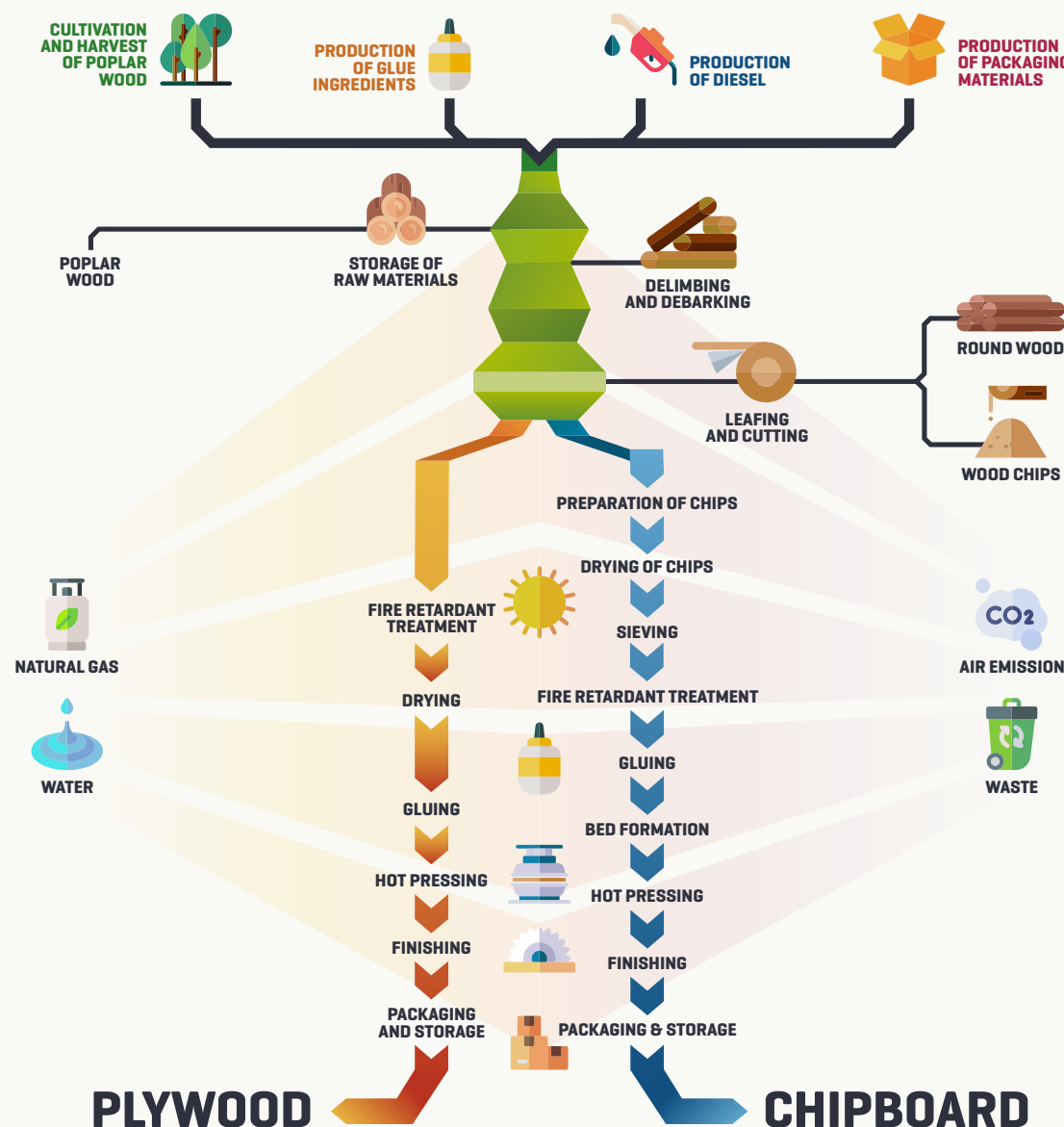
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The production process starts with the **impregnation** of green veneers in an autoclave. The treated impregnated veneers are then cut into shape and enter the second production phase, the **drying**.

Once dried, the veneers are sorted out for the panels to be produced according to their thickness and enter the panel production phase of **gluing**. The glue mixture (mainly melamine-urea-based polymer + hardener) is spreaded over the veneers, which are then overlapped manually by operators in a perpendicular pattern.

The panels are then **pressed** at high temperature and then they are **squared** and **trimmed** to the final marketable dimensions.

The panels enter the finishing line through the **sanding** process. They are then **labelled** according to the desired quality, **packed and stored** into the loading warehouse, ready to be **shipped** to their final destinations.



Distribution Scenario A4

Transport distances are calculated based on company statistics on location of final clients in the reference year (2024). Transport by road is assumed for National, Continental and intercontinental transportation.
Details on the scenarios are provided below.

PARAMETER	 TRUCK
Vehicle type	TRUCK > 32t
Fuel type	DIESEL
Fuel consumption (Kg/tkm)	0,0196
Gross vehicle weight (t)	29,96
Average load factor (t/vehicle)	15,96
Bulk density of goods (kg/m ³)	425
Utilisatio ratio	< 1
Ecoinvent dataset	Transport, freight, lorry >32 metric ton, EURO5 {RER} transport, freight, lorry >32 metric ton, EURO5 Cut-off

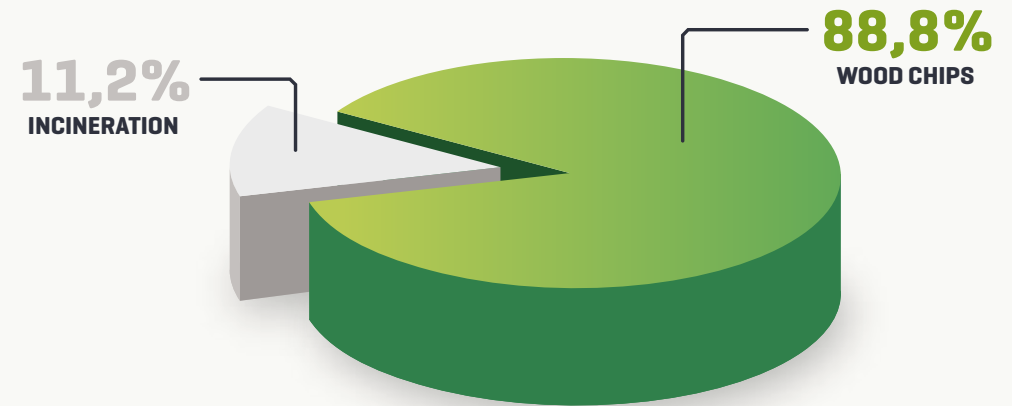
End of Life (C1-C4+D)



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The End of life scenario includes the following assumptions:

- 88,8% of plywood is recycled into wood chips (source: ISPRA, 2022. Report on waste from economic activities);
- The remaining fraction (11,2%) is incinerated with energy recover (efficiency higher than 60%). The recovered energy is 33% electricity and 66% heat. The avoided products are electricity from the national grid and heat produced by a plant fuelled by natural gas (source: ISPRA, 2022. Report on waste from economic activities);
- A distance of 130 km was assumed for the materials that are transported to the incineration site, and 80 km for all the other materials



Environmental Performance

MANDATORY IMPACT CATEGORY INDICATORS ACCORDING TO EN 15804

Results per declared unit (1m³ of plywood 18 mm)

INDICATOR	UNIT	A1-A3	A4	C1	C2	C3	C4	D
Climate change - Total	kg CO ₂ eq	-2.92E+0	1.70E+01	0.00E+00	7.94E+00	7.85E+02	0.00E+00	-3.00E+01
Climate change - Fossil	kg CO ₂ eq	4.90E+02	1.70E+01	0.00E+00	7.94E+00	4.12E+00	0.00E+00	-2.92E+01
Climate change - Biogenic	kg CO ₂ eq	-7.91E+02	3.82E-03	0.00E+00	1.78E-03	7.81E+02	0.00E+00	-6.05E-01
Climate change - Land use and LU change	kg CO ₂ eq	1.77E+00	2.68E-04	0.00E+00	1.25E-04	1.03E-02	0.00E+00	-1.45E-01
Ozone depletion	kg CFC ₁₁ eq	1.99E-05	3.86E-07	0.00E+00	1.80E-07	6.07E-08	0.00E+00	-9.40E-07
Acidification	mol H ⁺ eq	1.38E+00	7.24E-02	0.00E+00	2.05E-02	2.60E-02	0.00E+00	-7.12E-02
Eutrophication aquatic freshwater	kg P eq	4.97E-02	8.74E-05	0.00E+00	4.09E-05	3.54E-03	0.00E+00	-5.66E-03
Eutrophication aquatic marine	kg N eq	3.87E-01	3.17E-02	0.00E+00	7.82E-03	8.39E-03	0.00E+00	-1.88E-02
Eutrophication terrestrial	mol N eq	4.78E+00	3.47E-01	0.00E+00	8.54E-02	7.66E-02	0.00E+00	-1.84E-01
Photochemical ozone formation	kg NMVOC eq	1.67E+00	1.13E-01	0.00E+00	3.39E-02	2.06E-02	0.00E+00	-1.15E-01
Depletion of abiotic resources, minerals and metals*	kg Sb eq	2.65E-04	4.43E-07	0.00E+00	2.07E-07	4.93E-07	0.00E+00	-7.26E-07
Depletion of abiotic resources, fossils*	MJ	8.88E+03	2.26E+02	0.00E+00	1.06E+02	8.69E+01	0.00E+00	-5.14E+02
Water use*	m ³ depriv.	3.92E+02	7.39E-02	0.00E+00	3.45E-02	1.06E+00	0.00E+00	-6.59E+00

* 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.

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. The results of the end-of-life stage (modules C1-C4) should be considered when using the results of the product stage (modules A1-A3)

ADDITIONAL MANDATORY AND VOLUNTARY IMPACT CATEGORY INDICATORS

INDICATOR	UNIT	A1-A3	A4	C1	C2	C3	C4	D
GWP-GHG	kg CO ₂ eq.	4.92E+02	1.70E+01	0.00E+00	7.94E+00	4.14E+00	0.00E+00	-2.94E+01

The company do not wish to declare voluntary indicators.

Environmental Performance



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RESOURCE USE INDICATORS

INDICATOR	UNIT	A1-A3	A4	C1	C2	C3	C4	D
PERE	MJ	5.88E+03	5.55E01	0.00E+00	2.59E-01	4.92E+03	0.00E+00	-2.55E+03
PERM	MJ	4.90E+03	0.00E+00	0.00E+00	0.00E+00	-4.90E+03	0.00E+00	0.00E+00
PERT	MJ	1.08E+04	5.55E-01	0.00E+00	2.59E-01	1.81E+01	0.00E+00	-2.55E+03
PENRE	MJ	7.71E+03	2.26E+02	0.00E+00	1.06E+02	1.26E+03	0.00E+00	-5.14E+02
PENRM	MJ	1.17E+03	0.00E+00	0.00E+00	0.00E+00	-1.17E+03	0.00E+00	0.00E+00
PENRT	MJ	8.88E+03	2.26E+02	0.00E+00	1.06E+02	8.69E+01	0.00E+00	-5.14E+02
SM	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	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
FW	m³	1.10E+01	4.37E-03	0.00E+00	2.04E-03	6.03E-02	0.00E+00	-2.41E-01

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

Results per declared unit (1m³ of plywood 18 mm)

Waste Production and Output Flows



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▪ WASTE PRODUCTION

INDICATOR	UNIT	A1-A3	A4	C1	C2	C3	C4	D
Hazardous waste disposed	kg	4.38E-02	1.50E-03	0.00E+00	7.02E-04	1.88E-04	0.00E+00	-2.28E-03
Non-hazardous waste disposed	kg	1.19E+00	7.47E-03	0.00E+00	3.49E-03	2.19E-01	0.00E+00	-8.47E-02
Radioactive waste disposed	kg	5.38E-03	1.36E-05	0.00E+00	6.37E-06	5.98E-04	0.00E+00	-1.16E-03

▪ OUTPUT FLOWS

INDICATOR	UNIT	A1-A3	A4	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
Material for recycling	kg	1.68E+01	0.00E+00	0.00E+00	0.00E+00	5.37E+02	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	0.00E+00
Exported energy, electricity	MJ	1.74E+02	0.00E+00	0.00E+00	0.00E+00	1.18E+02	0.00E+00	0.00E+00
Exported energy, thermal	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E+02	0.00E+00	0.00E+00

Results per declared unit (1m³ of plywood 18 mm)

Additional LCA results (other environmental performance results) of the product(s)



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▪ 100% RECYCLING SCENARIO - RESULTS PER DECLARED UNIT [1 M³ IGNIPASCOMP 18 MM]

INDICATOR	UNIT	C1	C2	C3	C4
Climate change - Total	kg CO ₂ eq	0.00E+00	1.17E-04	1.15E-02	0.00E+00
Climate change - Fossil	kg CO ₂ eq	0.00E+00	7.42E+00	3.82E+00	0.00E+00
Climate change - Biogenic	kg CO ₂ eq	0.00E+00	1.67E-03	1.40E-01	0.00E+00
Climate change - Land use and LU change	kg CO ₂ eq	0.00E+00	7.42E+00	3.97E+00	0.00E+00
Ozone depletion	kg CFC ₁₁ eq	0.00E+00	1.69E-07	5.81E-08	0.00E+00
Acidification	mol H ⁺ eq	0.00E+00	1.92E-02	1.84E-02	0.00E+00
Eutrophication aquatic freshwater	kg P eq	0.00E+00	3.82E-05	3.56E-03	0.00E+00
Eutrophication aquatic marine	kg N eq	0.00E+00	7.31E-03	3.26E-03	0.00E+00
Eutrophication terrestrial	mol N eq	0.00E+00	7.99E-02	2.72E-02	0.00E+00
Photochemical ozone formation	kg NMVOC eq	0.00E+00	3.17E-02	8.79E-03	0.00E+00
Depletion of abiotic resources, minerals and metals*	kg Sb eq	0.00E+00	1.93E-07	2.86E-07	0.00E+00
Depletion of abiotic resources, fossils*	MJ	0.00E+00	9.86E+01	9.11E+01	0.00E+00
Water use*	m ³ depriv.	0.00E+00	3.23E-02	8.27E-01	0.00E+00

* 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.

100% recycling - Results per declared unit (1 m³ Ignipascomp 18 mm)

Additional LCA results (other environmental performance results) of the product(s)



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▪ 100% INCINERATION SCENARIO - RESULTS PER DECLARED UNIT [1 M³ IGNIPASCOMP 18 MM]

INDICATOR	UNIT	C1	C2	C3	C4
Climate change - Total	kg CO ₂ eq	0.00E+00	1.91E-04	7.60E-04	0.00E+00
Climate change - Fossil	kg CO ₂ eq	0.00E+00	1.21E+01	6.48E+00	0.00E+00
Climate change - Biogenic	kg CO ₂ eq	0.00E+00	2.71E-03	8.85E+02	0.00E+00
Climate change - Land use and LU change	kg CO ₂ eq	0.00E+00	1.21E+01	8.92E+02	0.00E+00
Ozone depletion	kg CFC ₁₁ eq	0.00E+00	2.74E-07	8.11E-08	0.00E+00
Acidification	mol H ⁺ eq	0.00E+00	3.11E-02	8.69E-02	0.00E+00
Eutrophication aquatic freshwater	kg P eq	0.00E+00	6.21E-05	3.37E-03	0.00E+00
Eutrophication aquatic marine	kg N eq	0.00E+00	1.19E-02	4.91E-02	0.00E+00
Eutrophication terrestrial	mol N eq	0.00E+00	1.30E-01	4.68E-01	0.00E+00
Photochemical ozone formation	kg NMVOC eq	0.00E+00	5.15E-02	1.14E-01	0.00E+00
Depletion of abiotic resources, minerals and metals*	kg Sb eq	0.00E+00	3.14E-07	2.13E-06	0.00E+00
Depletion of abiotic resources, fossils*	MJ	0.00E+00	1.60E+02	5.32E+01	0.00E+00
Water use*	m ³ depriv.	0.00E+00	5.25E-02	2.94E+00	0.00E+00

* 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.

100% incineration - Results per declared unit (1 m³ Ignipascomp 18 mm)

Additional environmental information



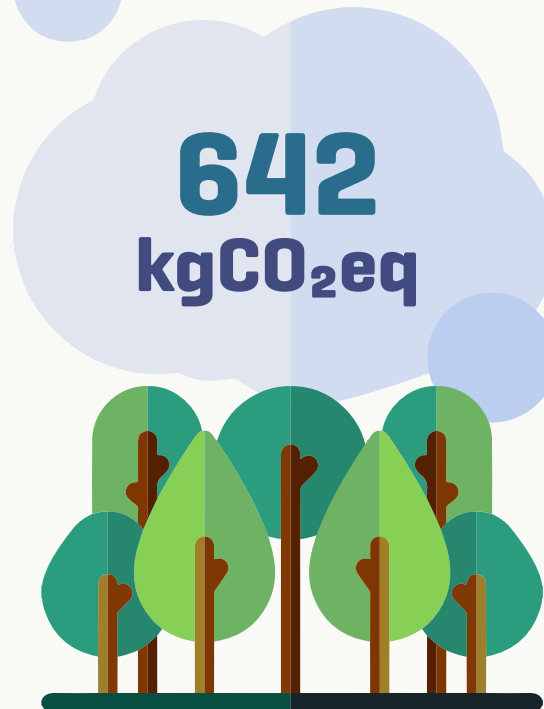
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The CO₂ sequestered during tree growth and stored until the end-of-life has been calculated according to the formula:

Mass of CO₂ sequestered per m³ of plywood = mass of dry timber x 0,5 kg C/kg dry matter x 44/12 x [-1 kg CO₂eq/kg CO₂ in wood]

The average density of Invernizzi poplar plywood is **605 kg/m³**, with a content of **350 kg** of poplar wood.

The CO₂ sequestered by 1m³ of Invernizzi Ignipascomp poplar plywood is:



References

Including a list of all sources referred to in the EPD and in the LCA report, including the GPI (including version number) and PCR (registration number, name, and version) used to develop the LCA and the EPD.

- General Programme Instructions of the International EPD System. Version 5.0.1.
- Product Category Rules (PCR): Construction products, 2019:14, version 2.0.1, UN CPC code 314 (Board and panels)
- C-PCR-006 “WOOD AND WOOD-BASED PRODUCTS FOR USE IN CONSTRUCTION”, version 1.0.0 (valid until 07/04/2030)
- EN 15804:2012+A2:2019
- EN 16485:2014
- LCA report “Life Cycle Assessment (LCA) fire retardant plywood IGNIPASCOMP produced by Invernizzi S.p.A.”v. 01 released 2026-01-26. Author: Valentina Castellani.

▪ VERSION HISTORY

Original Version of the EPD, 2026-MM-DD

EPD OWNER

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