PANGUANETA

PLYWOOD FOR LIFE

The Panguaneta System

COMPANY PROFILE


VISITATORE
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Plywood For Life
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Panguaneta is a modern company and an international top player that produces **plywood panels**.

The main raw material for its products is **Italian poplar** wood, which Panguaneta grows, manages and selects in compliance with the tradition of the territory in which it is based, i.e. the banks of the Po River.

Panguaneta is a **family-run company** established in 1960, deeply rooted in the community of Sabbioneta - a Renaissance city that falls within the UNESCO heritage sites - where it is still based together with its production plants.

Panguaneta plywood is distributed throughout the world and is intended for **the most demanding markets**, such as the automotive, nautical, furniture, and design sectors.

Panguaneta leads its industrial sector with **the certification of its impact** and bases its activity on **environmental, social and economic sustainability** criteria.







RAW MATERIAL

THE RAW MATERIAL: THE ITALIAN POPLAR WOOD

The raw material for Panguaneta plywood is Italian poplar wood, coming from the selection of the finest **I214 clone**, which gives the final product its peculiar light colour, homogeneity and lightness.

DIRECT CULTIVATION OF POPLAR GROVES

Through **the Rosa Anna and Rosa Luigia Farm**, Panguaneta grows its 1,000 hectares of poplar groves located in the surrounding area between the Po and Oglio rivers. To this end, it uses the latest cultivation techniques, such as micro-irrigation and satellite-monitoring systems.

MANAGEMENT OF THIRD-PARTY POPLAR GROVES

Through agreements with local owners, Panguaneta directly manages approximately **7,000 hectares of third-party poplar groves**, thus ensuring the constant availability of the raw material required by the process.

PURCHASE FROM SELECTED SUPPLIERS

Panguaneta fulfils its sourcing requirements by purchasing poplars from selected suppliers based on long-term partnerships, thus being able to directly choose the poplar groves to satisfy its overall requirement of **7,000 hectares**.

NOT JUST POPLAR

The supply of exotic wood and other types of hardwood requires the purchase of raw materials from foreign countries: in this case too, Panguaneta adopts a transparent and sustainable approach, selecting **only wood from traceable and legal origin**, committing itself to ensure that the collection of exotic wood truly contributes to the development of local communities.

EUTR AND EUDR REGULATIONS

Even before its entry into force, Panguaneta is ready to apply the **EUDR regulation** that replaces the EUTR version and provides for the complete legality and traceability of wood, for the protection of forests and global ecosystems.

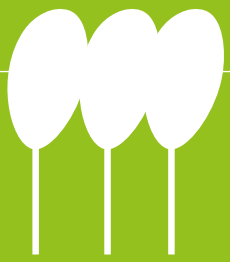
FSC® CERTIFICATION

The crops managed by Panguaneta are certified: the strict FSC® protocols define severe limitations on the use of pesticides as well as on the type and extent of crops, for the benefit of the environment and the local territory. Through Panguaneta, the adoption of FSC® cultivation protocols has spread along the entire chain in local communities. Through the application of these standards, **Panguaneta manages a natural area of 50 hectares for the preservation of biodiversity**.





PRODUCTION PROCESSES
FROM TREES TO PLYWOOD



CULTIVATION

10,000 Ha of poplar groves cultivated for Panguaneta, of which 50% is directly managed and 50% is purchased from qualified suppliers; 100% from controlled sources.



CUTTING AND REPLANTING

Each felled trunk is replaced by a new tree: thanks to crop rotation and in compliance with the natural ripening cycle of poplars (10 years), the poplar grove is always alive.



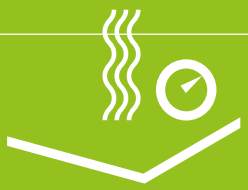
BARKING

The trunks are selected and debarked in the yard.



PEELING

The veneers obtained from the peeling process are used in the composition phase. Among the by-products there are rounds (destined for packaging applications) and barks (involved in energy recovery).



DRYING

Peeled wood is dried by means of thermal energy internally produced from renewable sources: 90% from virgin biomass and 10% from processing waste.



COMPOSITION AND GLUING

Selection and assembling of layers alternating long and cross-grain veneers to maximize the mechanical properties of the end product.



PRESSING

Once assembled and glued, the panel is hot pressed.



FINISHING

The plywood is squared, calibrated, sanded, before undergoing to the final quality control.



STORING AND WAREHOUSE

The panels are packed and stored in the warehouse, ready for shipment.



SHIPPING AFTER-SALES SERVICE



PRODUCTION PROCESS

PROCESS CONTROL AND CERTIFICATION

The production of Panguaneta plywood is the result of a constant search for efficiency in terms of quality (**ISO EN 9001** certified), environmental (**ISO EN 14001**) and energy (**ISO EN 50001**) management.

INVESTMENTS IN ENERGY EFFICIENCY

The efficient use of energy resources is a key factor for the future of the company: the installation of a **next-generation thermal power plant** enables the use of thermal energy generated through the combustion of processing residues for heating the factory and powering the production cycle, without any further consumption of fossil fuels. A cogeneration plant for electricity from renewable sources is in the design phase.

EFFICIENT USE OF RESOURCES

The by-products of the production are sent to processing companies that turn them into energy, paper, pellets and packaging materials. Water consumption is constantly measured to increasingly save natural resources. The plant emissions are constantly monitored to ensure the strictest compliance with the current regulations.

INVESTMENTS IN PRODUCTION CAPACITY

The production plant covers an area of **180,000 square meters** and employs **over 300 persons**, working in continuous cycle to produce approximately **45,000 tons of plywood panels**. In 2025 the expansion of the plant, resulting from the recent investments, will increase the production capacity to **over 60,000 tons of plywood per year**.

EXPANSION

The expansion of the production capacity, which adds a new already operational pressing line, will ease the workload, thus allowing for the **rescheduling and optimization of shifts**.

TECHNOLOGICAL INNOVATION OF PROCESSES

The evolution of production technology is constant: the recent introduction of new finishing lines, followed by the upcoming start-up of **the new composition and hot pressing line**, will be closely followed by **a new Enterprise Resource Planning system (ERP)**, which will enable real-time control over production activities, logistics and warehouse management.





THE VALUE OF HUMAN RESOURCES

Panguaneta believes in the importance of establishing clear and fair working relationships and is committed to ensuring a healthy working environment. A considerable part of the investments in the expansion of the plant is intended to improve the areas dedicated to employees, including new changing rooms, new offices, break rooms and services for external drivers. The establishment of strong and continuous relationships is reflected in the **low staff turnover rate**, constant training and the fact that **most of the employment contracts are permanent**. Moreover, the Company is adopting a **Code of Ethics** and has obtained the **Uni PDR 125:2022 certification for gender equality**.







PRODUCT

PANGUANETA PLYWOOD

With its characteristic light colour, Panguaneta plywood has unique properties of lightness, high stability, easy machining and durability. Thanks to these features, it is appreciated in the most demanding processing industries and can be used in various applications, such as the automotive, furniture, construction, marine, rail and naval sectors, as well as for special design projects.

ITALIAN POPLAR vs OTHER ESSENCES

At the heart of Panguaneta plywood, certified **100% Poplar Made in Italy**, lies poplar wood sourced from a short supply chain and the use of the premium **I-214 clone**. Plywood outperforms solid wood because, thanks to its cross-grained structure, it delivers a uniform mechanical response in all directions: it is stronger, does not expand, and does not warp. **Structures made of poplar plywood are also lighter than those produced with wood from other European hardwoods or softwoods.**

ITALIAN POPLAR vs OTHER MATERIALS

The benefits of plywood panels over synthetic composites, such as plastics, mainly lie in the ability of wood to **store CO_2 and retain it throughout its entire life cycle**. Additional advantages are the lower energy requirement and emissions that characterize the production of plywood compared to steel and cement (which are commonly used, for example, in the construction sector).

PRODUCT INNOVATION

Panguaneta plywood is constantly evolving to meet market demands, thanks to new eco-friendly bonding systems, special treatments, and the combination of poplar with other hardwoods or premium coatings. Innovation also means improving the product's environmental impact: **starting in 2025, none of Panguaneta's panels will have formaldehyde emissions exceeding the E05 level.**

EPD® CERTIFICATION

Panguaneta was the first Italian and European company to carry out the **LCA** (Life Cycle Assessment - the assessment of the product's environmental impact at all stages, from raw material to end-of-life), thus obtaining the **EPD® (Environmental Product Declaration) certification for its entire product range**.





VERSATILITY FOR THE MARKET

The constant dialogue with the customers allows Panguaneta to understand their needs and develop more efficient solutions: the constantly evolving product lines offer **plywood panels designed for specific applications** or with particular characteristics for industrial processes.

THE EVOLUTION OF PLYWOOD

The future of plywood faces two key challenges: reducing its environmental impact and enhancing the performance of the panel with cutting-edge technologies allowing new treatments and finishes that add exceptional value to the final product. On the sustainability front, Panguaneta has pioneered **PureGlue™**, a revolutionary plant-based bonding system, thus creating - among the first companies in Europe - **a panel entirely free of added formaldehyde (NAF)**. For this product, Panguaneta has also obtained the prestigious German **Blauer Engel** certification attesting to its environmental, health and performance standards. The next frontier is next-generation panels - engineered and integrated with increasingly hi-tech materials and ready for seamless industrial use.



MARKET

MARKET

Panguaneta plywood targets an international market: it is distributed throughout the world, and **over 80% of the annual revenue comes from exports**. This success is driven by continuous product diversification, opening doors to new markets and applications. Panguaneta plywood is trusted in the most demanding industrial sectors and in the most advanced and diverse markets.

PRE- AND POST-SALES SERVICE

Panguaneta pays great attention to its pre-sales service. The expertise of its technical and sales teams provides valuable support to customers. Equally essential is the after-sales phase, where valuable feedback is used to improve the product and strengthen collaborative relationships.

PANGUANETA AS SEEN BY THE MARKET

Over the years, Panguaneta has built a solid reputation as a **reliable producer** and **strategic partner** for companies operating in the most demanding and rigorous markets. The solid management structure, the constant growth of the company and the consistent quality of its product make Panguaneta one of the leading European manufacturers in the industry.

TRANSFORMERS AND DISTRIBUTORS

Due to its mechanical properties, Panguaneta plywood is highly valued in the transformation industry, where its uniformity, certifications and the combination of lightweight and strength are key factors of excellence. Its aesthetic and innovative properties, along with its established commercial reliability, also make it a flagship product for distributors: Panguaneta is an accredited and recognized supplier by the most qualified organized distribution centres.

PARTNERSHIPS

The business strategy of Panguaneta has always been focused on building **long-term relationships** based on shared knowledge, common goals and a culture of designing new projects together.
Panguaneta's focus is on creating added value for the benefit of its partners.





SUSTAINABILITY



PRODUCT SUSTAINABILITY

Panguaneta plywood is inherently sustainable: it is made from a renewable raw material (cultivated and certified poplar wood) from a short supply chain, following a tradition deeply rooted in the community and the territory. **It represents a valid and responsible alternative to the use of plastics** in various application sectors.

SUSTAINABLE PROCESSES

Panguaneta acts responsibly towards the market, its co-operators and the local community. The attention is part of the company's DNA and is transparently expressed through the assessment of its environmental impact, the certification of the effects of its crops on the ecosystem, and the publication of its **Sustainability Report**, which collects, measures and discloses the sustainability actions undertaken by the company.

DEVELOPMENT DRIVEN BY SUSTAINABILITY

Panguaneta embraces the goals of sustainable development not as a path imposed by the fight against climate change, but as an evolution of the values and principles that have always guided the company itself, especially the attention to the environment, the local community, work, consumers, and future generations.

By accepting these commitments, Panguaneta firmly links its growth to the principles of sustainability, and its future to that of the new generations.



EMISSION MONITORING AND CONTROL

A strong supporter of the United Nations 2030 Agenda, **Panguaneta is committed to reducing its environmental impact and promoting sustainable development.** The main measure against climate change is the reduction of CO_2 emissions: to this end, Panguaneta conducts a **greenhouse gas emissions inventory (GHG inventory)** and provides voluntary funding for certified climate projects covering its residual Scope 1 and Scope 2 emissions. A continuous commitment to the long-term transition towards carbon neutrality, as established by the European Green Deal.





A SUCCESS STORY

29 MARCH
1960

Date of establishment. Panguaneta begins its activity with the production of poplar plywood.

1960s

Panguaneta grows in the domestic market, primarily targeting the construction and furniture sectors.

1970s

Expansion into the German and Middle Eastern markets. New products: veneered panels and poplar particleboard. Investments in agricultural areas dedicated to poplar cultivation.

1980s

Expansion of the product range to include products for the automotive, furniture, and design sectors, and entry into European markets. Strengthening of production areas. Establishment of the Rosa Anna and Rosa Luigia farm, focusing on the cultivation and experimentation of poplars for industrial use.

1990s

Entry of the second generation. Consolidation of the market leadership and development of cooperations with the industry's major industrial users. The supply chain for raw materials is reinforced through strategic partnerships with leading Italian poplar growers.

2000s

The challenges of globalization. Expansion into non-European Countries. Development of the "green path" as well as of product and system certification processes, with an increasing focus on sustainability.

2010s

Panguaneta expands and renovates its facilities. Significant increase in production capacity. Investments in energy independence from renewable sources: the new biomass thermal power plant.

2020s

60th anniversary, from the roots to the future. Growth and further development of the corporate structure. Investments aimed at monitoring the environmental impact,in line with the principles of circular economy and sustainable growth.



HISTORY

A SUCCESS STORY

Panguaneta was founded in 1960 by **Giuliano Azzi** and **Antonio Tenca**. 65 years later, the company has changed and grown, establishing itself as one of the top international players in the market, achieving the highest quality and sustainability standards, taking the poplar plywood, grown along the banks of the Po river, all over the world and, in return, offering job opportunities, prestige and good sustainable cultivation practices to the local community.

A FAMILY-RUN COMPANY

After over 65 years, Panguaneta is still firmly run by the families of the two founders, whose descendants form the board of directors and hold key roles. The transition to **the third generation** has already begun and will face new challenges, guided by the confidence in the future and the responsibility towards the community.

THE EXPRESSION OF A TERRITORY

The cultivation and processing of poplar are a millennia-old tradition in the area where Panguaneta is located, between the Oglio and Po rivers. The picturesque poplar rows are the most recognizable and iconographic features of the landscape. The walls of **Sabbioneta, a UNESCO world heritage site**, stand a few steps from the factory and symbolize the close link between plantations and landscape, between innovation and history, between the plant and the local community.

INVESTMENTS AND GOALS

Between 2018 and 2025, Panguaneta has invested over 35 million euros in improving plant efficiency, expanding the production, and increasing the warehouse capacity. Alongside this, the introduction of a new ERP will optimize the internal functions and procedures to ensure timely and thorough control of all the processes. These investments aim to optimize the production cycle, reduce its environmental impact, and increase and diversify the production capacity, ensuring that the company is well-equipped to confidently meet the challenges of tomorrow's market.

THE FUTURE OF PANGUANETA

The achievement of efficiency, the expansion of production capacity, the minimization of environmental impact; the certification of raw materials, the transformation process, and the final product; strategic partnerships and accreditation with key purchasing centres; a strong connection with the local community and the territory; and the strengthening of trust with employees and suppliers. These are the results achieved by the Panguaneta of today, forming the foundation for the Panguaneta of tomorrow. It will undoubtedly be different, as will the challenges it will face, but its values, objectives, and responsible approach to achieving them will remain unchanged: **the Panguaneta way.**



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