

Corporate Catalog 2017

***Challenge
the ordinary***

garnica

We challenge
the ordinary by
exploring the limits
of perfection to
engineer the finest
plywood for the
most demanding
clients.

Challenge ² Exploring ⁶ *Non-conventional* ¹⁰ Exceptional products ¹⁴

Panel Families ¹⁶

Modified Panel Families ³⁰

Specialties ³⁸

Finishes ⁴⁴

Challenge

75 years and
counting

Ever since its foundation back in 1941 as a sawmill in Baños de Río Tobía in La Rioja, Spain, Garnica has been a pioneer in exploring new ways to manage and use natural resources wisely, and to manufacture exceptional plywood solutions to suit the needs of our clients worldwide.

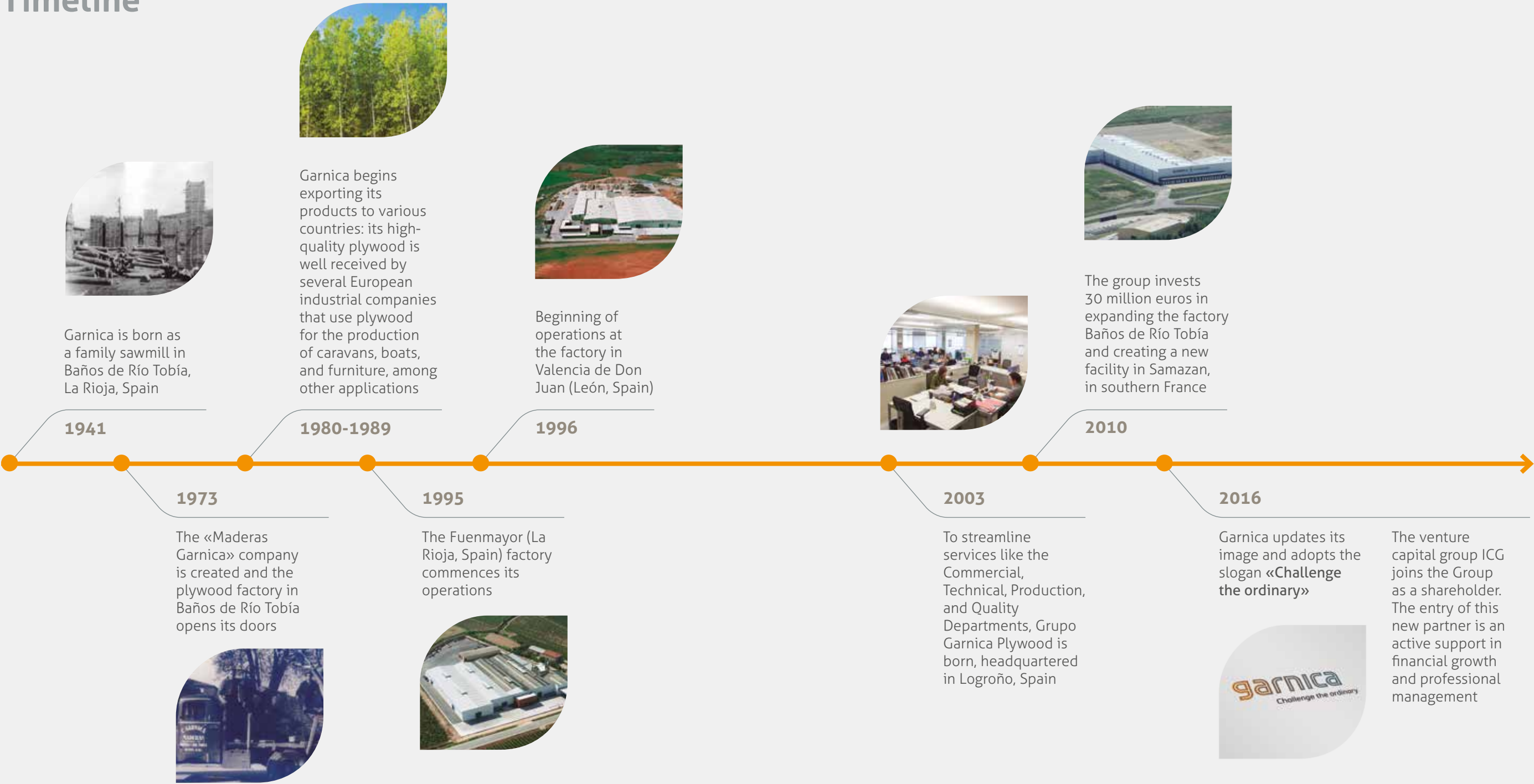
We have come a long way, continually going further in our pursuit of excellence, steadily growing and always keeping an eye on the future.

At present, Garnica is a world reference to the industry with a broad range of plywood based products.

It also manages its sourcing forests and owns production facilities in Spain and France. Garnica is present in all continents and exports products to more than 40 countries.

But for us, this is just the beginning.

Timeline



Exploring

Thinking out of the box

Our exploring nature gives us a hunger for innovation. We are natural trend seekers as well as attentive listeners and always quick to spot the market's newest requirements.

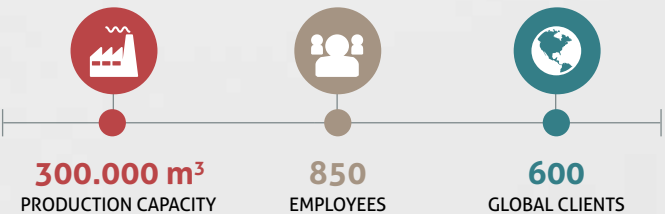
In our quest to discover, identify and satisfy our customers' needs, we have found that safety, robustness, and sustainability have become the market's leading touchpoints. With this in mind, Garnica has developed specific product lines to meet people's needs.

Fireshield, for example, offers safety beyond expectations. As its name suggests, it is an exceptionally resistant fire-retardant plywood, specially developed for construction and decoration applications which require that its properties remain intact when working on or sanding the panel. It is treated to ensure that its properties endure in the most adverse circumstances. Or G-Brick, one of our latest developments, also created for construction purposes as a response to the growing demand for sustainable and energy-efficient building materials. G-Brick allows almost zero-energy consumption projects, thus saving on cost.

The Durable family's high resistance to natural decay is Garnica's solution to the swelling demand for more robust, long-lasting, sustainable plywood solutions for different applications. The Durable family's remarkable properties make it an exceptional choice for construction or marine applications, due to its invulnerability to fungi and other elements of nature obtained through an innovative treatment process.

Clients are our market, no matter where they are

Garnica is a global leader that exports 93% of its production to Germany, France, UK, Netherlands, and the USA as primary markets and has a presence in over 40 countries in all continents. Unphased by frontiers, we deliver to wherever our clients may be.



Germany
Argentina
Australia
Austria
Belgium
Bosnia and Herzegovina
Canada
China
Cyprus
Croatia

Denmark
United Arab Emirates
Slovenia
Spain
Finland
France
Britain
Greece
Guatemala
Holland

Hungary
Ireland
Israel
Italy
Japan
Jordan
South Korea
Malta
Morocco
Mexico
Norway

Your trust is our reward

We prefer to think of ourselves as solution providers as opposed to simply product sellers. This is made possible by an experienced team that is keen to offer direct, expert advice and support in every step of the journey; from assistance and guidance to after-sales service. Through the strengthening of our relationship with clients, we seek to build valuable and trustful partnerships through which we can not only meet but exceed their expectations.

New Zealand
Poland
Portugal
Romania
Sweden
Switzerland
South Africa
Thailand
Turkey
Uruguay
USA

Non-conventional

**A vertical
model, a
sustainable
model**

Garnica possesses a unique know-how and cost-efficient, vertically integrated model of production based on sustainability.

By fostering plantations that are sustainable from which to source our wood we provide benefits for rural areas and in doing so, we help to improve the quality of life of their inhabitants. At our plant nurseries, we select our clones to guarantee successful sustainable plantations and, along the way, obtain the best woods for our products. We also control the logging and transformation processes in order to, ultimately, deliver the finest plywood for a broad range of applications.





Planet, people, profit

Climate change is having a dramatic impact on our planet, which is why the management of sustainable forests is so important in the reduction of greenhouse gases. As mentioned above, Garnica always has its eye on the future. Our clear vision is developed and inspired by our respect for our planet. Garnica's commitment to sustainable plantations goes beyond plywood production. Tangible in the way we foster and manage our sustainable plantations of trees such as poplars, one hectare can capture up to 11 tons of CO₂ per year. In addition, it is grown as a managed forest in agricultural areas, thereby enhancing people's living conditions.

Managed wood plantations, a wise option for our planet

Fast-growing plantations are the answer to the increasing demand for forest products. In this sense, poplar is one of the most sustainable species, and its lumber is becoming increasingly popular as a replacement for other species because, among other features, it grows four times faster than other coniferous and tropical species.

Convinced as we are that forest products should regain their leading role in consumption against other materials and other non-sustainably managed wood species, Garnica manages extensive poplar plantations across Europe both PEFC and FSC® Certified.

FSC® certification ensures that materials and products bearing FSC® labeling come from responsibly managed forests, while the Pan-European Forest Certification (PEFC) is a system of voluntary promotion and certification of sustainable forest management. All of Garnica's facilities have the PEFC Chain of Custody Certification, which verifies that wood used in the transformation industry comes from sustainably managed woods.

In Garnica's managed woods the use of selected clones grown in plant nurseries until definite plantation ensures very homogeneous poplars, which results in very solid wood with an excellent yield. We only log when the tree has reached its optimal growth. Also a fast-growing tree, eucalyptus is one of the most widespread plantation woods. Among the 700 eucalyptus' species, Garnica selected the Globulus to foster sustainable plantations due to its high density and resistance.



The mark of
responsible forestry
Search for FSC®
certified products

Exceptional products

Plywood beyond expectations

Lightness, easy to machine and perfect finish are the three essentials to any Garnica product. Our product range composes of seven plywood family products. Classified as **Panel**, **Modified Panel**, and **Specialty products**, which are not just plywood, all are sourced from sustainable woods plantations and developed to meet market's specific needs, such as resistance, performance, durability, and of course, beauty.

Panel Families

Coatings and veneers enhance the natural properties of all products in the Panel Family.

Modified Panel Families

Products in the Modified Panel Family are panels treated through innovative processes which give these products unique features, such as fire retardant properties or resistance to the attack of fungi and insects.

Specialties

Our products are Specialties particularly developed to satisfy specific needs of the market, complying with sustainability and energetic efficiency thus taking a step forward on our planet's behalf.

Panel Families

- Efficiency
- Performance
- Elegance
- Reinforced
- Tradition

efficiency

Lightness that challenges the impossible

Maximum sustainability thanks to its poplar sourced from fast-growing plantations. This wood is characterised by its lightness, stability, surface quality and ease of machining; exceptional qualities that make for a tremendously versatile range.



Efficiency



| PRODUCT | CHARACTERISTICS | CERTIFICATIONS | APPLICATIONS | | | | |
|-------------------|---|---|--------------|--------|-----------|------------|----------|
| | | | Caravan | Marine | Furniture | Decoration | Building |
| Efficiency poplar | Lightweight panel composed entirely of European sustainable plantation poplar. An infinity of applications due to its excellent mechanical properties and wide variety of formats available at a very reduced cost. Its attractive white ivory color makes it ideal for painting or coating. | FSC® PEFC CE CE2+ CARB Phase 2 KOMO AITIM | ● | ● | ● | ● | ● |
| Efficiency hdf | European light poplar plantation panel coated with thin layers of HDF. Its exceptional surface quality allows uniform finishes with any type of coating, which makes it an ideal panel for furniture manufacturing. The resistance of the plywood avoids the typical HDF moisture absorption problem. | PEFC CE | | | ● | ● | ● |

performance

Quality that challenges perfection

Exceptional performance in the most demanding applications thanks to premium quality interior and exterior veneers and the meticulous finishing work on the panels.

Its sustainable plantation poplar core provides lightness, stability, surface quality and ease of machining.



| PRODUCT | CHARACTERISTICS | CERTIFICATIONS | APPLICATIONS | | | | |
|--------------------|---|---|--------------|--------|-----------|------------|----------|
| | | | Caravan | Marine | Furniture | Decoration | Building |
| Performance poplar | Lightweight panel composed entirely of European sustainable plantation poplar. Premium quality interior sheets for exceptional performance when covered in film or laminated. | FSC® PEFC CE CE2+ CARB Phase 2 KOMO AITIM | ● | ● | | | |
| Performance e-wood | Lightweight panel composed entirely of European sustainable plantation poplar. Premium quality inner veneers and high surface hardness engineered wood faces with excellent scratch and crack resistance, whose properties surpass other tropical plantation woods. | PEFC CE AITIM | ● | | ● | ● | |

elegance

Beauty that challenges the ordinary



The beauty of the products faces finished in natural wood, makes it ideal for furniture and decoration.

In addition to providing exceptional lightness and ease of machining, its sustainable plantation poplar core gives these panels great stability and surface quality.



Elegance



| PRODUCT | CHARACTERISTICS | CERTIFICATIONS | APPLICATIONS | | | | |
|--------------------|---|-------------------------------------|--------------|--------|-----------|------------|----------|
| | | | Caravan | Marine | Furniture | Decoration | Building |
| Elegance globulus | Light panel with a European poplar core and decorative plantation eucalyptus faces from the Globulus variety. Distinguished for its high strength and density. A variety of tones that include cinnamon to chocolate brown. | PEFC CARB Phase 2 CE AITIM | | | ● | ● | |
| Elegance birch | Lightweight panel with European poplar core and decorative birch faces, with soft, warm tones and elegant grain. | | | | ● | ● | |
| Elegance cherry | Lightweight panel with European poplar core and decorative cherry faces, with coppery shades with glossy grain. | | | | ● | ● | |
| Elegance walnut | Lightweight panel with European poplar core and decorative walnut faces. A wood universally appreciated for its chocolate colour and characteristic grain. | | | | ● | ● | |
| Elegance maple | Lightweight panel with European poplar and decorative maple faces, pale pink in tone and marked reddish brown grain. | | | | ● | ● | |
| Elegance red oak | Lightweight panel with European poplar core and decorative red oak faces, with attractive toasted tones and reddish tints. | | | | ● | ● | |
| Elegance white oak | Lightweight panel with European poplar core and decorative white oak faces and attractive cream tones. | | | | ● | ● | |

reinforced

Strength that challenges imagination



Combined poplar core is used to reinforce its physical-mechanical properties whilst maintaining a surprising ease of machining and decorative multi-layer edges. Ideal features for decoration, furniture making and parquet support.

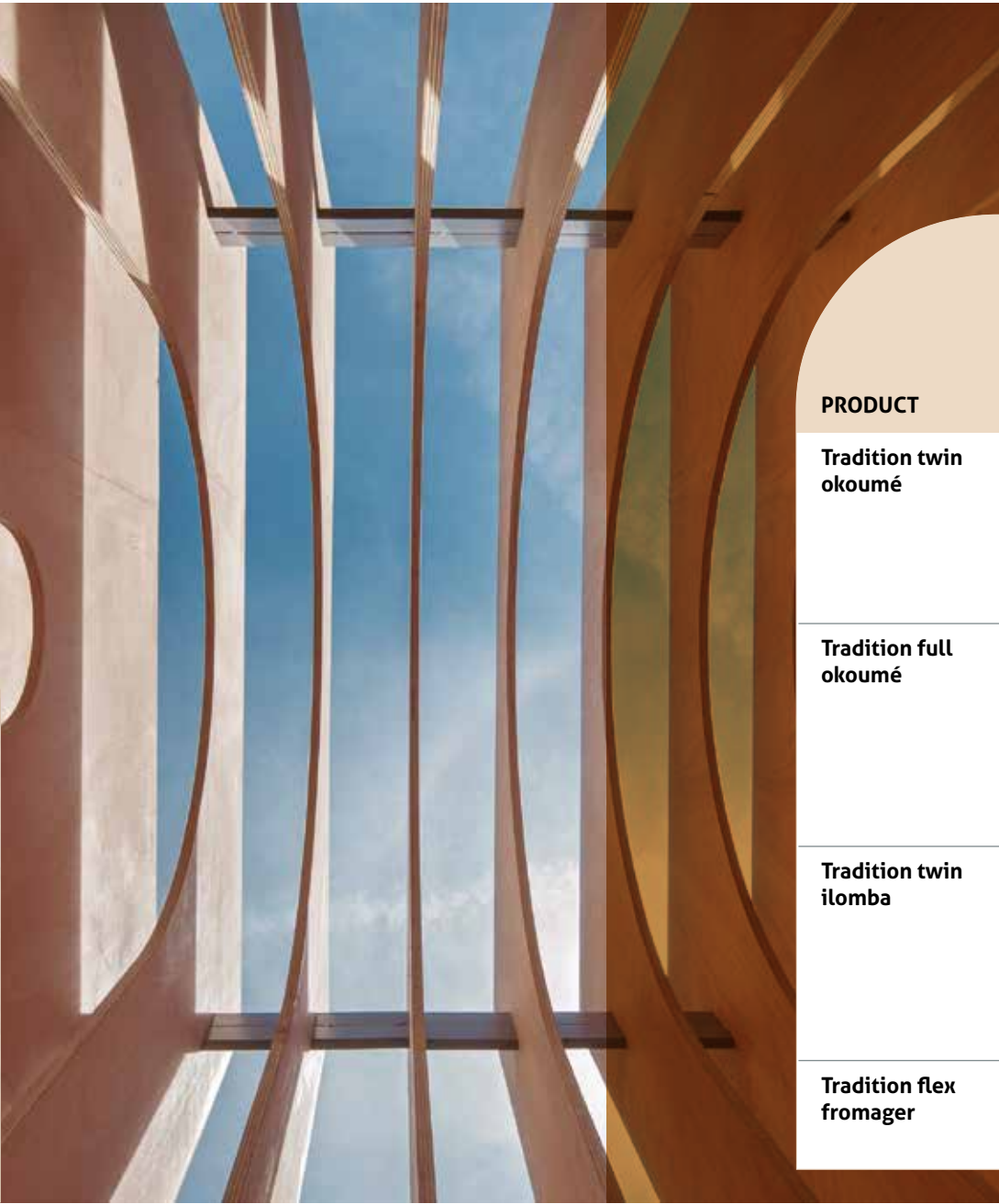


Reinforced

| PRODUCT | CHARACTERISTICS | CERTIFICATIONS | APPLICATIONS | | | | |
|------------------------------|--|-------------------------------------|--------------|--------|-----------|------------|----------|
| | | | Caravan | Marine | Furniture | Decoration | Building |
| Reinforced globulus birch | Panel with poplar core reinforced with eucalyptus of the Globulus variety, a sustainable species that provides extra density and resistance. Birch faces and multi-coloured edges make it ideal for decorative uses. | PEFC CARB Phase 2 CE AITIM | | | | | |
| Reinforced globulus poplar | Panel with poplar core reinforced with eucalyptus of the globulus variety. A sustainable species that provides extra density and resistance. Attractive ivory white poplar faces. | | | | | | |
| Reinforced globulus globulus | Panel with poplar core reinforced with eucalyptus of the globulus variety. A sustainable species that provides extra density and resistance. Eucalyptus faces in shades of cinnamon and multi-veneer edges, which make it ideal for decorative uses. | | | | | | |

tradition

Tropical spirit that challenges the established

| | | | | | | | | | |
|--|---|---------------------------------------|---|--|----------------------------|--------|-----------|------------|----------|
| <p>Panels made from exotic wood species to enhance their natural characteristics: durability, flexibility, surface hardness and decorative finish.</p> |  | <p>PRODUCT</p> | <p>CHARACTERISTICS</p> | <p>CERTIFICATIONS</p> | <p>APPLICATIONS</p> | | | | |
| | | | | | Caravan | Marine | Furniture | Decoration | Building |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| <p>Tradition</p> | | <p>Tradition twin okoumé</p> | <p>Lightweight panel with European poplar core and decorate okoumé faces. Its visual appeal with characteristic reddish tones and ease of machining make it a very versatile panel.</p> | <p>PEFC CARB Phase 2 CE2+ CE AITIM</p> | | | | | |
| | | <p>Tradition full okoumé</p> | <p>Panel made entirely by okoumé, for indoor and outdoor use due to its natural properties of durability and resistance.</p> | <p>FSC® CE CE2+ AITIM CTB-X KOMO BS-1088</p> | | | | | |
| | | <p>Tradition twin ilomba</p> | <p>Lightweight panel with sustainable plantation European poplar core and ilomba faces. Premium quality interior veneers for exceptional performance when covered in film or laminated.</p> | <p>PEFC CARB Phase 2 CE2+ CE AITIM</p> | | | | | |
| | | <p>Tradition flex fromager</p> | <p>Light and flexible panel thanks to its special composition of three fromager sheets.</p> | <p>CE</p> | | | | | |





Garnica

Challenge the ordinary

Modified Panel Families

- Durable
- Fireshield



Resistance that challenges nature

Plywood modified using an innovative treatment gives the panel core exceptional durability. Immune to fungal and insect attack, even when used outdoors and in the most demanding of weather conditions. Its lightness, surface quality and ease of machining make it tremendously versatile, easily adapting to the needs of multiple applications. Maximum sustainability due to its composition using fast-growing wood sourced from European plantations.

Durable

| PRODUCT | CHARACTERISTICS | CERTIF. | APPLICATIONS | | | | |
|-------------------|--|-------------------------------------|--------------|--------|-----------|------------|----------|
| | | | Caravan | Marine | Furniture | Decoration | Building |
| Duraply | Ultra-durable panel for outdoor use in the most demanding conditions, composed of sustainable plantation wood. | FSC® PEFC CE2+ CE AITIM | | ● | ● | ● | ● |
| Duraprime | Ultra-durable panel for outdoor use in the most demanding conditions, composed of sustainable plantation wood. Pre-painted faces, maximising time and money savings. | | | ● | | | ● |
| Durapaint | Ultra-durable panel for outdoor use in the most demanding conditions, composed of sustainable plantation wood. Faces coated with MDO, which in addition to maximising time and money saved, provides surface hardness and greater durability for painting. | | | ● | | | ● |
| Duraply globulus | Highly durable decorative panel for use in demanding humid conditions. Composed of sustainable plantation wood and coated with Eucalyptus Globulus faces, in shades that range from cinnamon to chocolate brown. | CE PEFC | | ● | ● | ● | |
| Duraply birch | Highly durable decorative panel for use in demanding humid conditions. Composed of sustainable plantation wood and covered with birch faces, soft and warm tones and elegant grain. | | | ● | ● | ● | |
| Duraply cherry | Highly durable decorative panel for use in demanding humid conditions. Composed of sustainable plantation wood and covered with cherry faces, in copper tones with glossy grain. | | | ● | ● | ● | |
| Duraply walnut | Highly durable decorative panel for use in demanding humid conditions. Imposed by sustainable plantation wood and covered with walnut faces, a species universally appreciated for its chocolate color and characteristic grain. | | | ● | ● | ● | |
| Duraply maple | Highly durable decorative panel for use in demanding humid conditions. Composed of sustainable plantation wood and covered with maple faces, pale pink in tone and with reddish brown streaked grain. | | | ● | ● | ● | |
| Duraply red oak | Highly durable decorative panel for use in demanding humid conditions. Composed of sustainable plantation wood and covered with red oak faces, with attractive reddish toasted tones. | | | ● | ● | ● | |
| Duraply white oak | Highly durable decorative panel for use in demanding humid conditions. Composed of sustainable plantation wood and covered with white oak faces, with attractive cream tones. | | | ● | ● | ● | |



Innovation that challenges flames

Plywood modified by an innovative treatment that renders the entire panel exceptionally fire resistant, certified by the most demanding tests, even after sanding or machining.

Wide variety of formats available to suit any type of project.

Maximum sustainability and lightness thanks to its composition using fast-growing wood sourced from European plantations.



| PRODUCT | CHARACTERISTICS | CERTIFICATIONS | APPLICATIONS | | | | | |
|----------------------------|--|---|--------------|------------|-----------|--------|---------|-------|
| | | | Construction | Decoration | Furniture | Marine | Caravan | Train |
| Fireshield building | Ideal panel for construction projects of restaurants, auditoriums, schools and other public buildings. B-s1-d0 and ASTM E-84 Euroclass certifications that prove its excellent performance in fire resistance tests. | B-s1-d0 ASTM E-84 Class A PEFC CARB Phase 2 CE AITIM | ● | ● | ● | | | |
| Fireshield marine | Specific panel for the construction of large ships. IMO certificate, which proves its excellent performance in fire resistance tests. | IMO PEFC CARB Phase 2 CE AITIM | | | | ● | | |
| Fireshield train | Specific panel for the train construction industry. NF F16-101 certificate, which proves its excellent performance in fire resistance tests. | NF F16-101 M1 F1 PEFC CARB Phase 2 CE AITIM | | | | | | ● |

Fireshield





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Challenge the ordinary

Specialties

Creating value
with every new
development

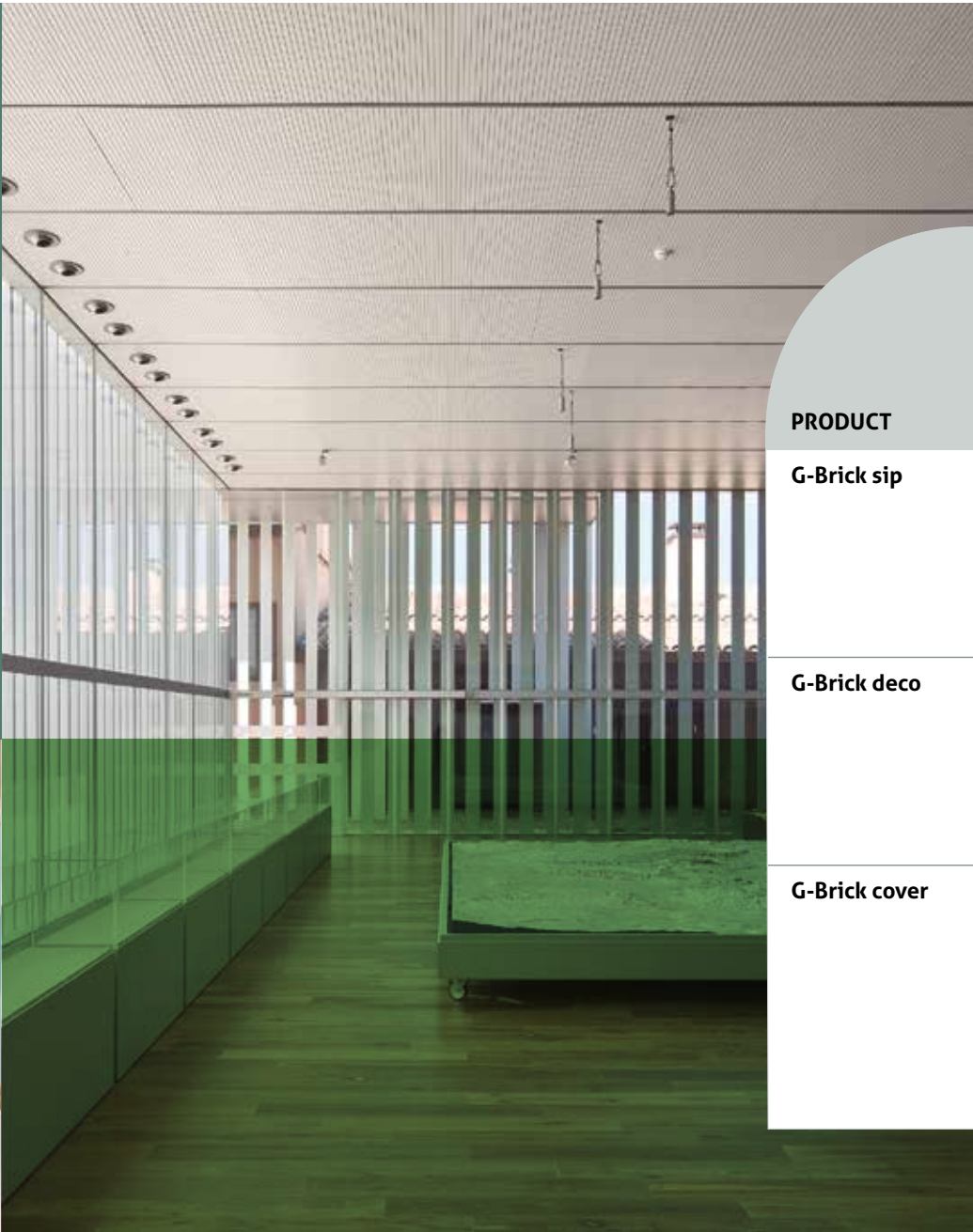
- G-Brick

G

Brick[®]

by Garnica

Efficiency built in

| | | | | | | | |
|--|---|---|--|--------|-----------|------------|----------|
| <p>Structural sandwich panels, offer both insulation and high performance.</p> <p>The excellent mechanical properties and decorative finishes of the Garnica plywood panel are combined with insulating materials such as extruded polystyrene or wood fibre; These give greater resistance, durability and sustainability than most other panels on the market.</p> |  | <div>PRODUCT</div> <div>CHARACTERISTICS</div> | APPLICATIONS | | | | |
| | | | Caravan | Marine | Furniture | Decoration | Building |
| | | | | | | | |
| | | | | | | | |
|  | | G-Brick sip | Structural insulating panel. Constructive system tested by the French technological institute, FCBA. | | | | |
| | | G-Brick deco | • Made of Duraply plywood panel with high performance XPS insulation core. | | | | |
| | | | • Highly insulated and airtight, developed for passive projects or those requiring high energy efficiency. | | | | |
| | | G-Brick deco | Decorative self-supporting panel with a wide range of finishes visible on one or both sides. | | | | |
| | | | • Made of Duraply plywood panel, fireproof or standard, with high performance XPS insulation core. | | | | |
| | | G-Brick cover | Designed specifically for interior solutions, enclosures and bungalows. | | | | |
| | | G-Brick cover | Insulating cover panel with a wide range of decorative finishes. | | | | |
| | | | • Made of plywood panel with insulating wood fibre or XPS core. | | | | |
| | | | • Excellent mechanical performance and easy handling thanks to the lightness of the plywood. | | | | |
| | | | • Durable optional panel for maximum strength and efficiency. | | | | |
| | | | | | | | |
| | | | | | | | |



| | |
|-----|--|
| UV | UV Finish Varnish is a transparent, hard, protective finish or film used in wood finishing. Varnish is transparent and has no added pigment. Acrylic UV varnish is almost 100% solid, and so VOC's emissions are nearly zero. |
| HPL | High Pressure Laminate The HPL is a laminated product manufactured with cellulosic technical fibers joined with phenolic resin that, under high pressure and temperature, achieve a compact sheet of outstanding characteristics, especially emphasizing its exceptional resistance to impact and scratching. Available in thickness from 0.6 mm. |
| MDO | Medium Density Overlay MDO is used for applications as a paintable surface. Paint finishes on MDO are up to three times more durable than on ordinary plywood. |
| PRM | Prime Pre-finished product. Base/background followed by 80 microns of water-based acrylic paint. |
| XPS | Extruded Polystyrene Closed-cell extruded polystyrene foam currently made for thermal insulation and craft applications. |
| CRK | Cork Cork is a versatile material thanks to its various properties: acoustic comfort, lightness, elasticity, impermeability, calorific power, ease of handling, low water content and thermal isolation. |
| CPL | Continuous Pressure Laminate The CPL is a laminated product manufactured with cellulosic technical fibers joined with phenolic resin, which, subjected to high pressure and temperature, achieve a compact sheet that has outstanding characteristics, especially highlighting its lightness and its ease of machining. Available in thickness 0.2-0.4 mm. |

Finishes

Outstanding coatings to match every need

A perfect finish is, as we have already said, one of the three essentials to any Garnica product. To improve and adapt the characteristics of our products to our clients' needs we offer a wide range of finishes applicable to our panel, modified panel and specialties products.

| | | | UV | HPL | MDO | PRM | XPS | CRK | CPL |
|----------------|-------------|-------------------|----|-----|-----|-----|-----|-----|-----|
| Family | | Product | | | | | | | |
| Panel Family | Efficiency | Poplar | ● | ● | ● | ● | ● | ● | ● |
| | | Hdf | | | | | | | |
| | Performance | Poplar | ● | ● | | | ● | ● | ● |
| | | E-wood | ● | | | | ● | | ● |
| | Elegance | Globulus | ● | | | | ● | | |
| | | Birch | ● | | | | ● | | |
| | | Cherry | ● | | | | | | |
| | | Walnut | ● | | | | | | |
| | | Maple | ● | | | | ● | | |
| | | Red oak | ● | | | | ● | | |
| | | White oak | ● | | | | | | |
| | Reinforced | Globulus birch | ● | ● | | | | ● | ● |
| | | Globulus poplar | ● | ● | | | ● | ● | ● |
| | | Globulus globulus | ● | ● | | | | ● | ● |
| | Tradition | Twin okoumé | ● | | | | | | |
| | | Full okoumé | ● | ● | ● | ● | | | ● |
| | | Twin ilomba | | | | | | | |
| | | Flex fromager | | | | | | | |
| Modified Panel | Fireshield | Building | ● | ● | | | | | ● |
| | | Marine | ● | ● | | | | | ● |
| | | Train | ● | ● | | | | | ● |
| | Durable | Duraply | | ● | ● | ● | ● | | ● |
| | | Duraprime | | | | | | | |
| | | Durapaint | | | | | | | |
| | | Duraply globulus | ● | | | | ● | | |
| | | Duraply birch | ● | | | | | | |
| | | Duraply cherry | ● | | | | | | |
| | | Duraply walnut | ● | | | | | | |
| | | Duraply maple | ● | | | | | | |
| | | Duraply red oak | ● | | | | | | |
| | | Duraply white oak | ● | | | | | | |
| Specialties | G-Brick | G-Brick sip | | | | | | | |
| | | G-Brick deco | ● | ● | ● | | | | ● |
| | | G-Brick cover | ● | | | | | | |

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