garnica
Challenge the ordinary
75 YEARS
OF HISTORY
AROUND
POPLAR
PRODUCTION CAPACITY

Anual production 260,000 M3

5 Factories

750 Employees
More and more customers are choosing European Poplar Plywood to replace the use of the principal tropical species.
Sustainable product: managed forests

1 hectare of poplar absorbs 11 tonnes of CO2 annually
We develop new products in our own Laboratory
DURABLE CR3

Product range resistant to fungi and insect attack
DURABLE CR3

DURABLE

STANDARD
FIRE RETARDANT TREATMENT

Fire retardant treatment to achieve the high international regulations against fire

IMO B-s1-d0
News demands of construction

- Sustainable products
- High thermal efficiency
- Reduction of global construction cost
Sandwich concept for construction

Poplar plywood
Insulation
+
+
Poplar plywood
XPS, EPS...
WOOD FIBRE, ROCKWOLL...
Each veneer in the plywood is treated with a fire retardant treatment. This treatment ensures:

- Low thermic conductivity, reducing heat transfer.
- Low dilatation in fire situations, maintaining structural integrity.
- It significantly slows the carbonization speed, preventing rapid fire propagation.
- It generates no flame, and it doesn’t contribute to the spread of fire.
- Low emission of smoke, with low opacity and no toxic by-products.

This treatment makes the use of wood within high-risk areas safer and more sustainable.
100% structure insulated panel,
no decorative

For new projects and refurbishments
requiring high energy efficiency.

Fire protection required:
- FP 15 min = 1 plaster-board 15mm
- FP 30 min = 2 plaster-board 13mm
- FP 60 min = 3 plaster-board 15mm
COMPOSITION

12 mm Poplar plywood,
DURABLE treated

+ 

60/100 mm XPS
Extruded polystyrene

+ 

12 mm Poplar plywood,
DURABLE treated
Tested construction details:

- Great hermeticism (Air change rate, blower door example = 0.47)
- Controled cold bridges
- Thermal transmittance U = 0.14 W/m²K
Construction details
available online
www.garnicabrick.com

U = 0.14 W/m²K
Assembly example
Electric wiring, joinery and finish
2D transport and works on site
Hybrid buildings
2D prefabricated facades

G Brick®
SIP
Construction evolution
Structural and decorative panels
For refurbishments (interior partitions, enclosures...), projects with timber or steel framing, bungalows, stands, etc.

Keys:
-Light weight
-Durability
-Highly insulated
-Perfect finish surfaces
COMPOSITION

10 mm Poplar plywood
Decorative finish
+
30/60/100 mm XPS
Extruded polystyrene
+
10 mm Poplar plywood
Decorative finish
Prefabricated studios
Prefabricated studios
Prefabricated studios
Panels detail

- Decorative finish at both sides
- Double groove for better insulation and fixing of joints
- Internal space for electrical wiring
- 30/60/100 mm XPS standards
Insulated roof panel

For refurbishments or new projects

Keys:
- Light weight
- Durability
- Highly insulated
- Both XPS and woodfibre cores
COMPOSITION

10 mm Poplar plywood,
DURABLE treated
+  
100 mm XPS
or
100 mm WOOD FIBRE
+  
10 mm Poplar plywood
+ Interior decorative finish
What is on the market?

COMPOSITION

10 mm Fir Frieze

+ 

100 mm XPS

+ 

19mm waterproof chipboard
Why G-Brick COVER?

Chipboard + XPS + plywood

- 2440x600
- 19 / 100 / 9
- 27 Kg

- 2400x550
- 19 / 100 / 10
- 27 Kg

- 2400x600
- 10 / 100 / 10
- 17 Kg

37% LIGHTER

Chipboard + XPS + fir frieze

- 2400x550
- 19 / 100 / 10
- 27 Kg

durable plywood + XPS + decorative plywood

- 2400x600
- 10 / 100 / 10
- 17 Kg

MAX WEIGHT PER PERSON ALLOWED: 25 Kg.
Waterproof chipboard

14% swelling after 24h in water

Poplar plywood

3.8% swelling after 24h in water

-73% SWELLING

Why G-Brick COVER?
**G-Brick Cover**

**Why G-Brick COVER?**

- **Waterproof chipboard**
  - MOE = 1950 N/mm²

- **Poplar plywood**
  - MOE = 4200 N/mm²

**TWICE STRONGER**
Why G-Brick COVER?

FIRST PANEL AVAILABLE WITH WOODFIBRE:

10 mm Poplar plywood,
DURABLE
+
100 mm WOOD FIBRE
+
10 mm Poplar plywood
+
Interior decorative finish
Why G-Brick COVER?

Tongue-and-groove in the insulation

CONTROLED COLD BRIDGES

BETTER HERMETICISM
Why G-Brick COVER?

U = 0.32 W/m²K

U = 0.36 W/m²K

Thermal transmittance
Decorative finish

POPLAR
Decorative finish

MAPLE
Decorative finish

GLOBULUS
Active reduction of the carbon footprint in the manufacturing process

100% usage of trees
garnica

Challenge the ordinary

Thank you