

THERMALLY MODIFIED · PREMIUM HARDWOOD

BFP Thermo[®] Beech Wood

Fagus sylvatica

A premium European hardwood transformed by heat-and-steam thermal modification — a rich, warm caramel-brown throughout, exceptionally hard, stable, and completely free of chemicals.

SERVICE LIFE

25+ yrs

DENSITY

620–680 kg/m³

ORIGIN

Europe

CERTIFIED

FSC[®] 100%

Overview

BFP Thermo® Beech Wood (*Fagus sylvatica*) is a premium, thermally modified hardwood from sustainably managed European forests. The modification process uses only **heat and steam** to enhance the timber's cellular structure, resulting in a product with exceptional **dimensional stability** and a rich, warm caramel-brown appearance that is completely free of chemicals. Equilibrium moisture content is permanently reduced to just **4–6%**, upgrading biological durability to **Class 1** — very durable, with no preservative treatment required.

Key Features

01 Emissions

- The thermal modification process uses only intense heat and steam, with no chemical additives involved.
- Very low Volatile Organic Compound (VOC) emissions for safe indoor and outdoor air quality.

03 Durability & Stability

- Enhanced resistance to decay, rot, and insect attack — upgraded to Durability Class 1 (very durable).
- Reduces swelling and warping by up to 60% compared to untreated beech.

05 Health & Safety

- Completely non-toxic and free from hazardous chemicals of any kind.
- Safe to handle, cut, and machine using standard workshop safety measures.

02 Colour

- Heat transforms pale beech into a rich, warm caramel-to-dark brown tone throughout the timber — a sustainable alternative to tropical hardwoods.
- If left untreated, UV rays will weather the brown colour into a silver-grey patina.

04 Physical Properties

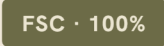
- Fine, straight grain with a smooth, even texture; a classic choice for flooring, furniture, and interiors.
- High surface hardness (~1,300 lbf Janka) resists dents, wear, and heavy daily traffic.

06 Environment

- 100% natural, renewable material from sustainably managed European beech forests.
- Chemical-free production with lower environmental impact than pressure-treated timber; fully biodegradable or recyclable.

Technical Specifications

TREATMENT TEMP	PEAK DURATION	TOTAL CYCLE	ATMOSPHERE
215°C (419°F)	2-3 hours	~50 hours	Steam-shielded

SPECIFICATION	DESCRIPTION
Scientific Name	<i>Fagus sylvatica</i> (European Beech)
Country of Origin	Europe
Modification Process	Thermal Modification (Heat + Steam) — Thermo-D class, SFS 5765
Colour Tone	 Warm caramel to dark brown throughout
Density (approx.)	Heavy: 620 – 680 kg/m ³ (~720 kg/m ³ untreated, reduced by thermal treatment)
Moisture Content	4-6% equilibrium (reduced from ~12% untreated)
Workability	Good — machines, turns, and finishes cleanly; famously responsive to steam bending. The thermal process makes the wood slightly more brittle; pre-drilling is recommended.
Movement Class	Small Movement (up to 60% improved dimensional stability vs. untreated beech)
Durability Class	Class 1 - Very Durable (EN 350; upgraded from Class 5, non-durable)
Recommended Fixings	Stainless steel screws or hidden fastening clips are essential to prevent reaction staining on the wood surface.
Expected Service Life	25+ years above ground, depending on installation method, maintenance, and exposure conditions
Certifications	 Forest Stewardship Council

Figures are nominal averages for thermally modified European beech (*Fagus sylvatica*), cross-checked against published ThermoWood (Thermo-D) and EN 350 durability data, and may vary with natural timber.

BFP

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