

THERMALLY MODIFIED · PREMIUM HARDWOOD

BFP Thermo® Tulip Wood

Liriodendron tulipifera

A premium North American hardwood transformed by heat-and-steam thermal modification — a rich, warm brown throughout, low in knots, exceptionally stable, and completely free of chemicals.

SERVICE LIFE

25+ yrs

DENSITY

400–450 kg/m³

ORIGIN

North America

CERTIFIED

FSC® 100%

Overview

BFP Thermo® Tulip Wood (*Liriodendron tulipifera*) is a premium, thermally modified hardwood from sustainably managed North American 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 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 tulipwood.

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 the naturally pale, sometimes greenish tulipwood into a rich, warm brown tone throughout the timber.
- 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 and low knot content; lightweight for easy handling.
- Soft surface hardness (~540 lbf Janka) — better suited to cladding and interiors than heavy-traffic decking.

06 Environment

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

Technical Specifications

TREATMENT TEMP

210°C (410°F)

PEAK DURATION

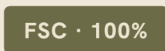
2-3 hours

TOTAL CYCLE

~50 hours

ATMOSPHERE

Steam-shielded

SPECIFICATION	DESCRIPTION
Scientific Name	<i>Liriodendron tulipifera</i> (Tulipwood / Yellow Poplar)
Country of Origin	North America (USA)
Modification Process	Thermal Modification (Heat + Steam) — Thermo-D class, SFS 5765
Colour Tone	 Warm brown throughout, low knot content
Density (approx.)	Lightweight: 400 – 450 kg/m ³ (~450 kg/m ³ untreated, specific gravity ~0.42)
Moisture Content	4-6% equilibrium (reduced from ~12% untreated)
Workability	Excellent — very easy to machine, glue, and paint; one of the most workable hardwoods. The thermal process makes the wood slightly more brittle; care required during handling.
Movement Class	Small Movement (up to 60% improved dimensional stability vs. untreated tulipwood)
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 tulipwood / yellow poplar (*Liriodendron tulipifera*), cross-checked against published ThermoWood and EN 350 durability data, and may vary with natural timber.

BFP

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