

THERMALLY MODIFIED · PREMIUM HARDWOOD

BFP Thermo® Eucalyptus

Eucalyptus grandis

A premium plantation-grown hardwood transformed by heat-and-steam thermal modification — a rich, deep brown throughout, exceptionally durable and stable, and completely free of chemicals.

SERVICE LIFE**20-25 yrs****DENSITY****480-560 kg/m³****ORIGIN****South America****CERTIFIED****FSC® 100%**

Overview

BFP Thermo® Eucalyptus (*Eucalyptus grandis*) is a premium, thermally modified hardwood from sustainably managed plantation 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, deep brown appearance that is completely free of chemicals. Equilibrium moisture content is permanently reduced to just **4-6%**, upgrading biological durability to **Class 1-2** 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 — termite resistance measurably improved by the treatment.
- Reduces swelling and warping substantially compared to untreated eucalyptus, with markedly lower equilibrium moisture.

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 timber into a rich, deep brown tone throughout, an environmentally friendly alternative to tropical hardwoods.
- If left untreated, UV rays will weather the brown colour into a silver-grey patina.

04 Physical Properties

- Fast-growing, plantation-grown boards with a fine, even grain and consistent colour throughout.
- Firm, hard-wearing surface (~750-950 lbf Janka) suited to decking and high-traffic areas.

06 Environment

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

Technical Specifications

TREATMENT TEMP

200–220°C

PEAK DURATION

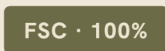
2–3 hours

TOTAL CYCLE

~50 hours

ATMOSPHERE

Steam-shielded

SPECIFICATION	DESCRIPTION
Scientific Name	<i>Eucalyptus grandis</i> (Rose Gum / Flooded Gum)
Country of Origin	South America (fast-growth plantations)
Modification Process	Thermal Modification (Heat + Steam) — Thermo-D class, SFS 5765
Colour Tone	 Rich, deep brown throughout
Density (approx.)	Medium: 480 – 560 kg/m ³ (~530–600 kg/m ³ untreated, reduced ~10% by thermal treatment)
Moisture Content	4–6% equilibrium (reduced from ~12% untreated)
Workability	Good — machines and finishes cleanly with sharp tools. The thermal process reduces surface hardness and bending strength slightly versus raw wood; pre-drilling is recommended.
Movement Class	Small Movement (substantially improved dimensional stability vs. untreated eucalyptus)
Durability Class	Class 1–2 – Durable (improved termite & decay resistance vs. untreated)
Recommended Fixings	Stainless steel screws or hidden fastening clips are essential to prevent reaction staining on the wood surface.
Expected Service Life	20–25 years above ground, depending on installation method, maintenance, and exposure conditions
Certifications	 Forest Stewardship Council

Figures are nominal averages for thermally modified eucalyptus (*Eucalyptus grandis*), cross-checked against peer-reviewed thermal-modification research (Calonego et al., Eur. J. Wood Prod.) and published ThermoWood data, and may vary with natural timber.

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