

THERMALLY MODIFIED · PREMIUM HARDWOOD

BFP Thermo[®] Merpauh Wood

Swintonia spp.

A premium South-East Asian hardwood transformed by heat-and-steam thermal modification — a warm reddish-brown throughout, dimensionally stable, and completely free of chemicals.

SERVICE LIFE

15-20 yrs

DENSITY

590-700 kg/m³

ORIGIN

Malaysia

CERTIFIED

FSC[®] 100%

Overview

BFP Thermo® Merpauh Wood (*Swintonia spp.*) is a premium, thermally modified Malaysian light hardwood from sustainably managed South-East Asian 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 warm reddish-brown appearance that is completely free of chemicals. Equilibrium moisture content is permanently reduced to just **4-6%**, upgrading biological durability to **Class 2-3** 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 from non-durable in exposed conditions to Class 2-3.
- Reduces swelling and warping substantially compared to untreated merpauh, 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 naturally pale grey-brown timber into a consistent warm reddish-brown tone, coloured evenly through the full thickness.
- If left untreated, UV rays will weather the brown colour into a silver-grey patina.

04 Physical Properties

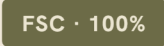
- Interlocked grain with a moderately coarse, even texture and fairly distinct growth rings.
- Firm, hard-wearing surface well suited to flooring, panelling, joinery, and door frames.

06 Environment

- 100% natural, renewable material from sustainably managed Malaysian and South-East Asian 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
200-215°C	2-3 hours	~50 hours	Steam-shielded

SPECIFICATION	DESCRIPTION
Scientific Name	<i>Swintonia spp.</i> (Merpauh — Anacardiaceae; also Periang, Pitoh)
Country of Origin	Malaysia & South-East Asia
Modification Process	Thermal Modification (Heat + Steam) — Thermo-D class, SFS 5765
Colour Tone	 Warm reddish-brown throughout
Density (approx.)	Medium: 590 - 700 kg/m ³ (~640-780 kg/m ³ untreated at 15% MC, reduced ~5-10% by thermal treatment)
Moisture Content	4-6% equilibrium (reduced from ~12% untreated)
Workability	Good — easy to machine and laminate, though ~0.4% silica causes severe tool blunting; carbide-tipped tooling and pre-drilling are recommended.
Movement Class	Small Movement (substantially improved dimensional stability vs. untreated merpauh)
Durability Class	Class 2-3 - Durable (upgraded from non-durable in exposed conditions)
Recommended Fixings	Stainless steel screws or hidden fastening clips are essential to prevent reaction staining on the wood surface.
Expected Service Life	15-20 years above ground, depending on installation method, maintenance, and exposure conditions
Certifications	 FSC · 100% Forest Stewardship Council

Figures are nominal averages for thermally modified merpauh (*Swintonia spp.*), cross-checked against Malaysian Timber Council, ITTO, and ThermoWood data; may vary with natural timber.



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+91-9992023769

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