

THERMALLY MODIFIED · PREMIUM HARDWOOD

BFP Thermo[®] Maple Wood

Acer saccharum

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

SERVICE LIFE

15–20 yrs

DENSITY

620–680 kg/m³

ORIGIN

North America

CERTIFIED

FSC[®] 100%

Overview

BFP Thermo® Maple Wood (*Acer saccharum*) 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 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 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 perishable (Class 5) to Class 2-3.
- Reduces swelling and warping substantially compared to untreated maple, 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 near-white timber into a consistent warm caramel-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

- Fine, even, closed grain with an exceptionally smooth surface that finishes to a refined lustre.
- Hard-wearing surface (~1,150-1,300 lbf Janka) well suited to flooring, worktops, and high-traffic interiors.

06 Environment

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

Technical Specifications

TREATMENT TEMP

190-212°C

PEAK DURATION

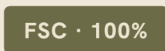
2-3 hours

TOTAL CYCLE

~50 hours

ATMOSPHERE

Steam-shielded

SPECIFICATION	DESCRIPTION
Scientific Name	<i>Acer saccharum</i> (Hard / Sugar Maple)
Country of Origin	North America (USA & Canada)
Modification Process	Thermal Modification (Heat + Steam) — Thermo-D class, SFS 5765
Colour Tone	 Warm caramel-brown throughout
Density (approx.)	Medium-heavy: 620 – 680 kg/m ³ (~705 kg/m ³ untreated, reduced ~5-10% by thermal treatment)
Moisture Content	4-6% equilibrium (reduced from ~12% untreated)
Workability	Good — machines and finishes cleanly with sharp tools, though it is a dense timber. The thermal process reduces bending strength and increases brittleness versus raw wood; pre-drilling is recommended.
Movement Class	Small Movement (substantially improved dimensional stability vs. untreated maple)
Durability Class	Class 2-3 – Durable (BS EN 350; upgraded from Class 5 – perishable)
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	 Forest Stewardship Council

Figures are nominal averages for thermally modified hard maple (*Acer saccharum*), cross-checked against USDA Forest Service Wood Handbook data, published ThermoWood specifications, and BS EN 350 durability classes, and may vary with natural timber.

BFP

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