

THERMALLY MODIFIED · PREMIUM SOFTWOOD

BFP Thermo® Pine Wood

Pinus sylvestris

A premium Scandinavian softwood transformed by heat-and-steam thermal modification — a rich, warm honey-brown throughout, exceptionally stable, and completely free of chemicals.

SERVICE LIFE

Up to 25 yrs

DENSITY

400–480 kg/m³

ORIGIN

Scandinavia

CERTIFIED

FSC® 100%

Overview

BFP Thermo® Pine Wood (*Pinus sylvestris*) is a premium, thermally modified softwood from sustainably managed Scandinavian 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 honey-brown appearance that is completely free of chemicals. Equilibrium moisture content is permanently reduced to just **4-6%**, upgrading biological durability to **Class 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 — upgraded to Durability Class 2.
- Reduces swelling and warping by up to 60% compared to untreated pine.

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 pine into a consistent, warm honey-brown tone throughout the timber.
- If left untreated, UV rays will weather the brown colour into a silver-grey patina.

04 Physical Properties

- Lighter weight for easier handling and installation; improved surface hardness and wear resistance.
- Minimal resin content eliminates bleeding and staining on finished surfaces.

06 Environment

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

Technical Specifications

TREATMENT TEMP

212°C ± 3

PEAK DURATION

2-3 hours

TOTAL CYCLE

~50 hours

ATMOSPHERE

Steam-shielded

SPECIFICATION	DESCRIPTION
Scientific Name	<i>Pinus sylvestris</i> (Scots / Nordic Pine)
Country of Origin	Scandinavia (Northern Europe)
Modification Process	Thermal Modification (Heat + Steam) — Thermo-D class, SFS 5765
Colour Tone	 Consistent light brown / honey-brown
Density (approx.)	Lightweight: 400 – 480 kg/m ³ (at 4-6% MC)
Moisture Content	4-6% equilibrium (reduced from ~12% untreated)
Workability	Excellent — lightweight and easy to machine. The thermal process makes the wood stable but slightly more brittle than raw wood; care required during handling.
Movement Class	Small Movement (up to 60% improved dimensional stability vs. untreated pine)
Durability Class	Class 2 - Durable (BS EN 350; upgraded from Class 4-5)
Recommended Fixings	Stainless steel screws or hidden fastening clips are essential to prevent reaction staining on the wood surface.
Expected Service Life	Up to 25 years, depending on installation method, maintenance, and exposure conditions
Certifications	 Forest Stewardship Council

Figures are nominal averages for thermally modified Scots pine (*Pinus sylvestris*), cross-checked against the International ThermoWood Association Handbook (Thermo-D, SFS 5765) and BS EN 350, and may vary with natural timber.

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