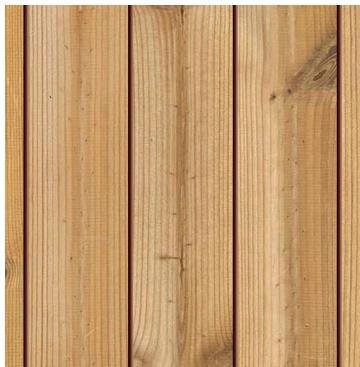


TROPICAL



Scots Pine Decking and Cladding

**THERMOTECHE SCOTS PINE (*PINUS SYLVESTRIS*)
DECKING AND CLADDING SELL SHEET.**



CALL US

905.672.8000 (CDN)

855.344.4500 (US)

TropicalForestProducts.com



Scots Pine

Thermotech Scots Pine

showcases a warm, amber shade with intensified knots and enhanced grain patterns, providing a rustic impression.



Thermal Modification Technology

Thermal modification is a technology that uses heat to remove sugars from the wood, while at the same time closing the wood's cells, thereby reducing or eliminating the sources on which mold grows.

This process not only extends the service life of the wood, but also creates a dimensional stability that greatly reduces installation time and labor costs.

Easy to Install

Because of its lighter density and weight, especially in applications like cladding and soffits, self-drilling trim-head screws, nails and pneumatic fasteners penetrate the fiber more easily.

Eliminating fastener penetration, the hidden Pro Clad Clip System further extends the service life of wood claddings. Like naturally durable hardwoods, stainless steel fasteners are recommended for Thermotech modified wood products in delivering a service life consistent with naturally durable hardwoods.

Durability with a low cost to the environment

Thermotech's modification process creates a wood product with many of the benefits associated with naturally durable hardwoods. This is done without the use of chemicals that contain heavy metals such as copper and chromium.

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THERMOTECH enhances pine's natural properties, creating a durable product with a warm golden-brown color and characteristic tight knotty pattern.

Preferred Application

– Cladding – Paneling – Decking

Compare with

- Cedar #2
- Cypress #2

Warranty

15 years

Our **THERMOTECH™ Scots Pine** products are subjected to rigorous thermal modification, enhancing both their durability (Class 2) and stability, while highlighting the rich, warm golden-brown hue and distinctive knot pattern.

- Consistent finishing prevents wood from developing cracks, guarantees resistance to water and dirt, and produces a uniform visual appearance.
- Similar to any other type of wood, the surface of **THERMOTECH™** products naturally develops a gray patina over time. This transformation begins right after the products are installed and varies in duration from several months to a few years, depending on the level of UV radiation exposure. To minimize discoloration or rejuvenate their original dark hue, **THERMOTECH™** Thermotech Board performance can be enhanced by applying a UV-resistant pigmented finish, such as wax, stain, paint, mineral oil, and more.
- Refinishing prevents wood from developing cracks, guarantees resistance to water and dirt, and produces a uniform visual appearance.



LIGHTWEIGHT MATERIAL



EASY INSTALLATION



EXCEPTIONAL STABILITY



ENHANCED STRENGTH



CONSISTENT QUALITY



CERTIFIED SUSTAINABLE
PEFC®
PEFC/01-31-1030



SUPERIOR DURABILITY



VERSATILE APPLICATIONS

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www.fsc.org
FSC® C15577

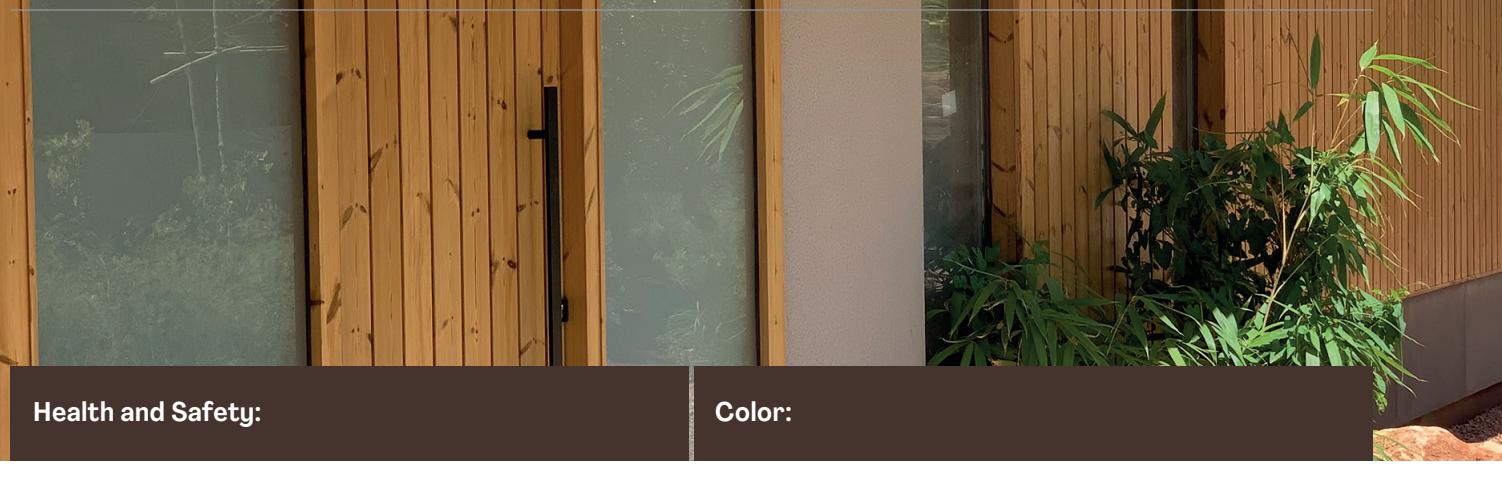
Graded by the better face	Better face	Back face
HIT & MISS	Not allowed	Max 1/2 of the width of the board. Not allowed for PaCS profiles.
FEED-ROLLER MARKS	Not allowed	Unlimited
WANE	Not allowed	Max 1/3 of the width and 1/5 of the thickness of the board
MECHANICAL DEFECTS	Not allowed	Unlimited
SURFACE CHECKS	Max 100mm long	Unlimited
SHAKES	Not allowed	Not allowed
END SPLITS	Max length = Width of the board	Unlimited
RING SHAKE	Not allowed	Not allowed
SOUND KNOTS	Visual grading, not measured, has to maintain the integrity of the board	Unlimited
KNOT HOLE	Not allowed	Unlimited if not through the board
BARK KNOTS	Up to 1/3 of the width of the board, bark not over half of the diameter	Unlimited
DEAD KNOTS	Up to 15 mm	Unlimited
BLACK KNOTS	Up to 1/5 of the width of the board	Unlimited
UNSOOUND KNOTS	Not allowed	Unlimited
BROKEN KNOTS	If not disturbing visually, evaluated from a distance min 1,5 m, up to 1/10 of the width of the board	Unlimited
KNOT SHAKE	Decking: up to 3 mm wide and 50 mm long/ cladding: up to 5 mm wide and 50 mm long	Unlimited

Graded by the better face	Better face	Back face
PIN KNOTS	Unlimited	Unlimited
SPIKE KNOTS	Up to 1/2 of the width of the board	Unlimited
EDGE & ARRIS KNOTS	Unlimited	Unlimited
BROKEN EDGE KNOT	Limited to 1/10 of the width	Unlimited
KNOT CLUSTER	Visual grading, not measured, has to maintain the intergrity of the board	Unlimited
PARTIALLY INTERGROWN KNOTS	Bark up to 1/2 of the diameter	Unlimited
RESIN POCKET	Allowed up to 300 mm ²	Unlimited
SCAR	Allowed up to 300 mm ²	Unlimited
PITH	Max 1/5 of the length of the board	Unlimited
SLOPE OF GRAIN	Unlimited	Unlimited
ROT / MOULD / BLUE STAIN	Not allowed	Not allowed
INSECT HOLES	Not allowed	Unlimited
SPRING, CROOK	Allowed up to 7.5 mm per linear meter	Allowed up to 7.5 mm per linear meter
BOW	Allowed up to 2 mm per linear meter	Allowed up to 2 mm per linear meter
TWIST	Allowed up to 5% of board width per linear meter, has to be reversible during installation	Allowed up to 5% of board width per linear meter, has to be reversible during installation
CUP	Allowed up to 1% of the width of the board	Allowed up to 1% of the width of the board
TOLERANCES	Thickness: +/- 0.5 mm Width: + 0.5/-1 mm Length: +/- 2 mm per linear meter	Thickness: +/- 0.5 mm Width: + 0.5/-1 mm Length: +/- 2 mm per linear meter

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**Health and Safety:**

- No VOC.
- No chemical treatments.
- Safe for human contact.
- 20% lower heat retention than composites or PVC.
- Construction waste can be burned or composted.
- 100% natural.
- 100% reusable, upcyclable and biodegradable.
- Low processing energy demand.
- Sustainable development and a low carbon future.
- Fast growing plantation wood.
- From renewable forests.
- Natural, harmless, and free of chemicals.
- No special handling required.
- Improves the stability and durability of the wood without the use of persistent toxic chemicals.

Color:

- The colour of the wood varies naturally from light to medium brown.

**Maintenance:**

- Takes oil and water based coatings well. It is important to remember that water based coatings can be applied over oil, but oil cannot be applied over water based coatings.
- Please defer to coating manufacturer for suitability of application to this product.

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THERMOTEC Pine

has enhanced dimensional stability:

Increased Stability | Minimized Deformations | Minimized Expansion and Shrinkage

**Mechanical Properties,
Strength Values****THERMOTEC Scots Pine**Modules of elasticity (MOE), flatwise (MPa-N/mm²)
DIN EN 408, TS 2478

7411

Modules of rupture (MOR), flatwise (MPa)
DIN EN 408, TS 2474

31-42

Impact bending strength (IBS), flatwise (MPa)
TS 2477

0.16

Compressive strength (CS), (MPa)
TS 2595

44

**Dimensional Stability
65%Rh 20°C****THERMOTEC Scots Pine**Maximum swelling ratio, tangential (SW-T) (%)
DIN 52184, TS 4083, 4084

3.22

Maximum swelling ratio, radial (SW-R) (%)
TS 4083, 4084

1.5

Maximum swelling ratio, longitudinal (SW-L) (%)
TS 4083, 4084

0.07

Maximum shrinkage ratio, tangential (Sh-T) (%)
TS 4083, 4084

3.62

Maximum shrinkage ratio, radial (Sh-R) (%)
TS 4083, 4084

1.79

Maximum shrinkage ratio, longitudinal (Sh-L) (%)
TS 4083, 4084

0.08

**Physical Properties,
Moisture Content****THERMOTEC Scots Pine**Equilibrium moisture content at 20/65 (%)
EN 13183-1

4 (4-6)

Raw density at 20/65 (kg/m³)
DIN 52182

362-404

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THERMOTEC Pine

has low moisture content that prevents decay and fungi growth.

**Biological Durability Against
Wood-Decaying Basidiomycetes**
THERMOTEC Scots Pine

Increased durability to decay	Yes
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Resins and sugars removed	Yes
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Preliminary durability classification Median mass loss (< 5 %) CEN/TS 15083-1	Class 2
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**Surface Burning Characteristics
of Buildings Material - Fire Resistance**
THERMOTEC Scots Pine

Fire resistance (UNCOATED) EN 13823	Class	D
	Smoke production	S2
	Flaming droplets/particles	d0
Fire resistance (COATED by using fire retardancy liquids) (immersed/impregnated wood) EN 13823	Class	A2/B
	Smoke production	S1
	Flaming droplets/particles	d0

THERMOTEC Pine has improved fire resistance.

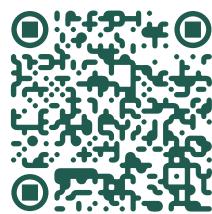
Nail and Screw Holding Strength**THERMOTEC Scots Pine**

a. Stainless steel or galvanized screws and plastic clips are recommended.	Class A2
Hidden and face fixing systems EN 1383, NEN 6562	
b. Steel material standard 10088-3	

ThermoTech Pine glues well



We highly recommend reviewing our
“**Tropical Forest Products Best Practices**”
guide as part of your product selection process.

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The mark of
responsible forestry

**Glueing**

Fingerjoints
Laminations
Panel production

THERMOTECH Scots Pine

MUF, Polyurethane

Brinell Hardness**THERMOTECH Scots Pine**

15 N/mm²

Thermal Conductivity, Insulation**THERMOTECH Scots Pine**

Heat conductivity W/mK
TS EN 12667

0.099

Freeze-Heat Shock Treatments**THERMOTECH Scots Pine**

1 Cycle: Freezing stage: 3 days -40°C as frozen wood and then
Heating stage: 30 min 200°C in furnace as thermal shock effects

OK-5 cycle
(surface quality)
(no cracks)
(no color change).

THERMOTECH WEIGHT		Color	Profile	Length	Weight
PINE	Decking / Cladding / Louvers	Color	Nominal	Linear Feet	lbs/LF
	Deck	-	5/4 x 6	6 to 16'	0.9
	Cladding V-Joint / Nickel GAP	-	1 x 6	6 to 16'	0.6
	Cladding V-Joint / Square	-	5/8 x 4	6 to 16'	0.4
	Fluted Profile #5	-	1 x 6	6 to 16'	0.5

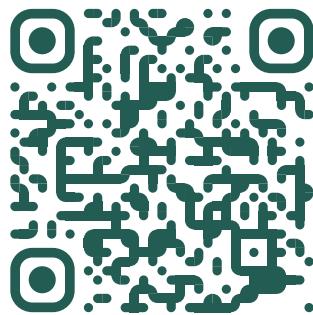
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Stronger...Stable...Sustainable



We invite you to take a closure look at Tropical Forest Products Advanced Wood Technologies, as well as our wide range of other product offerings at TropicalForestProducts.com/Thermotech by scanning the QR code above.

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