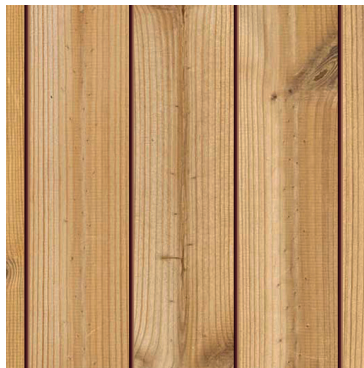

TROPICAL



Scots Pine Decking and Cladding

THERMOTECH SCOTS PINE (*PINUS SYLVESTRUS*)
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 woods 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.

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.

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.

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THERMOTEC 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 **THERMOTEC™ 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 **THERMOTEC™** 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, **THERMOTEC™** 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



SUPERIOR
DURABILITY



VERSATILE
APPLICATIONS

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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
UNSOUND 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 integrity 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

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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THERMOTECH Pine

has enhanced dimensional stability:

Increased Stability | Minimized Deformations | Minimized Expansion and Shrinkage

**Mechanical Properties,
Strength Values****THERMOTECH Scots Pine**

Modules of elasticity (MOE), flatwise (MPa-N/mm ²) 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****THERMOTECH 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****THERMOTECH Scots Pine**

Equilibrium moisture content at 20/65 (%) EN 13183-1	4 (4-6)
Raw density at 20/65 (kg/m ³) DIN 52182	362-404

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THERMOTECH Pine
has low moisture content that prevents
decay and fungi growth.

Biological Durability Against Wood-Decaying Basidiomycetes

THERMOTECH Scots Pine

Increased durability to decay	Yes
Resins and sugars removed	Yes
Preliminary durability classification Median mass loss (< 5 %) CEN/TS 15083-1	Class 2

Surface Burning Characteristics of Buildings Material - Fire Resistance

THERMOTECH 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

THERMOTECH Pine has improved fire resistance.

Nail and Screw Holding Strength

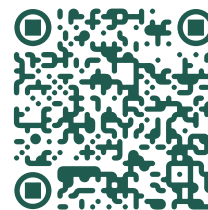
THERMOTECH Scots Pine

a. Stainless steel or galvanized screws and plastic clips are recommended. Hidden and face fixing systems EN 1383, NEN 6562	Class A2
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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Glueing**THERMOTEC Scots Pine**

Fingerjoints
Laminations
Panel production

MUF, Polyurethane

Brinell Hardness**THERMOTEC Scots Pine**15 N/mm²**Thermal Conductivity, Insulation****THERMOTEC Scots Pine**

Heat conductivity W/mK
TS EN 12667

0.099

Freeze-Heat Shock Treatments**THERMOTEC 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).

THERMOTEC™ R&D test specs and ASTM-D 143-94 standards

THERMOTEC WEIGHT**Color****Profile****Length****Weight****Decking / Cladding / Louvers****Color****Nominal****Linear
Feet****lbs/LF****PINE**

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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The mark of
responsible forestry



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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