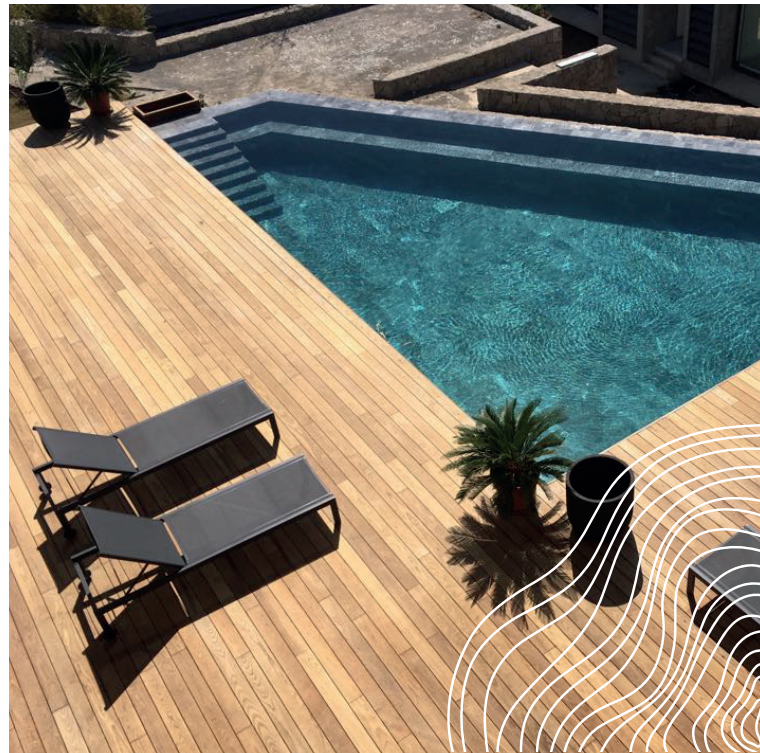
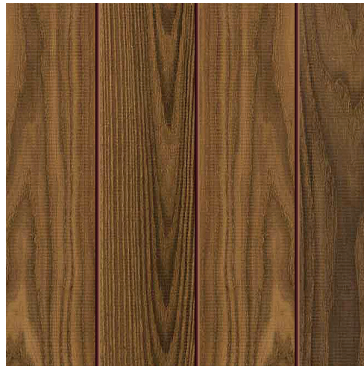


TROPICAL



Ash Decking and Cladding

THERMOTECH ASH DECKING AND CLADDING SELL SHEET



CALL US

905.672.8000 (CDN)

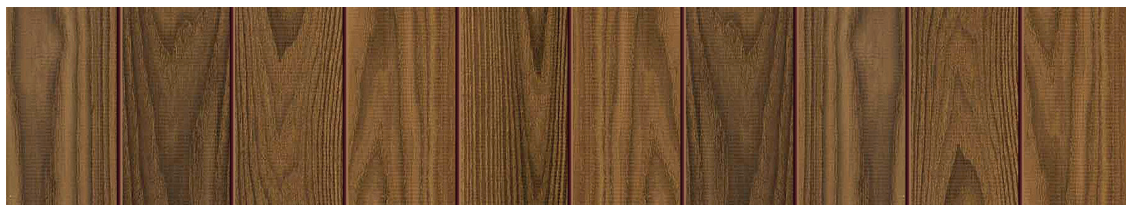
855.344.4500 (US)

TropicalForestProducts.com



Ash

Thermotech Ash exhibits a rich, darkened color with enhanced grain depth, showcasing a distinctive caramelized tone and a lustrous, warm aesthetic.



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 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 thermal 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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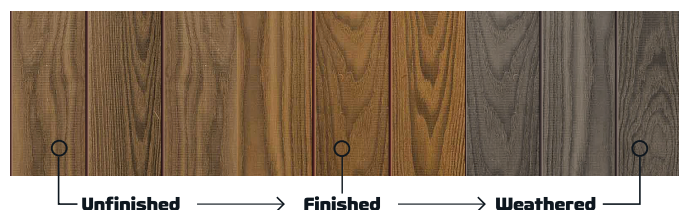


Health and Safety:

- 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 color of the wood varies naturally from medium to dark brown.
- Left unfinished and exposed to UV, THERMOTEC Ash will weather to a silver grey patina over time.



Unfinished → Finished → Weathered

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.

**Mechanical Properties,
Strength Values****THERMOTEC Ash**

Modules of elasticity (MOE), flatwise (MPa-N/mm)
DIN EN 408, TS 2478

12.480 – 14.000

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

56.6 – 85.7

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

-

Compressive strength (CS), (MPa)
TS 2595

-

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THERMOTEC Ash

has enhanced dimensional stability:

Increased Stability | Minimized Deformations | Minimized Expansion and Shrinkage

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

5.3

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

2.9

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

-

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

4.6

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

-

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

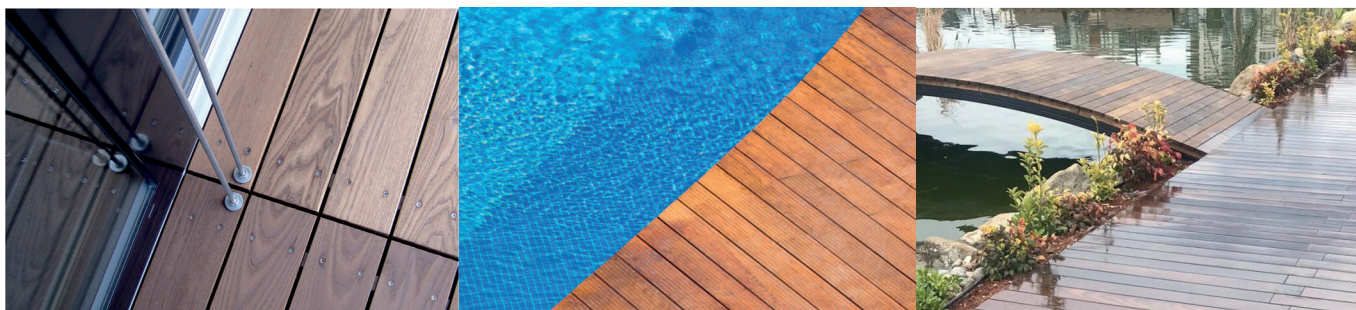
4.6

THERMOTEC Ash has enhanced dimensional stability:
Increased Stability | Minimized Deformations | Minimized Expansion and Shrinkage**Physical Properties,**
Moisture Content**THERMOTEC Ash**Equilibrium moisture content at 20/65 (%)
EN 13183-1

4.2 (4-6)

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

595-629

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THERMOTECH Ash

has low moisture content that prevents decay and fungi growth.

**Biological Durability Against
Wood-Decaying Basidiomycetes****THERMOTECH Ash**

Increased durability to decay	Yes
Resins and sugars removed	Yes
Median mass loss with coniophora puteana DSM 3085 (n = 30) (%) CEN/TS 15083-1	0.1
Median mass loss with coriolus versicolor CTB 863A (n = 30) CEN/TS 15083-1	0.1
Preliminary durability classification Median mass loss (< 5 %)	1 "very durable"

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

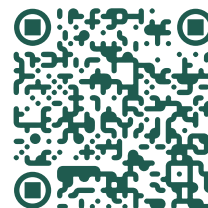
**Surface Burning Characteristics
of Buildings Material - Fire Resistance****THERMOTECH Ash**

a. Flame Spread Index (FSI) ASTM E84-16	a. 40 Class B or II
b. For British fire resistance EN 13501	b. Class D
Smoke developed Index (SDI) ASTM E84-16	200 Class B or II
By using fire retardancy liquids	OK

THERMOTECH Ash has improved fire resistance.



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



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Nail and Screw

THERMOTECH Ash

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

Class A2

Glueing

THERMOTECH Ash

Fingerjoints
Laminations
Panel production

MUF, Polyurethane

ThermoTech Ash Glues Well

Brinell Hardness

THERMOTECH Ash

30.5 N/mm2

Thermal Conductivity, Insulation

THERMOTECH Ash

Heat conductivity W/mK
TS EN 12667

0.099

Lower Heat Retention

THERMOTECH WEIGHT

Color

Profile

Length

Weight

Decking / Cladding / Louvers

Color

Nominal

Linear
Feet

lbs/LF

ASH

Deck Clean

Dark

1 x 6 PLUS

4' - 12'

1.02

Deck Clean

Dark

5/4 x 6

4' - 12'

1.31

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**Mechanical Properties For
Thermally Modified White Ash****ASTM D143- Static Bending**

Max Flexure Load	(lbf)
Median	411.38
Max. Compression	661.86
Min	181.42

ASTM D143- Hardness

Compressive Load at 0.25 in.	(lbf)
Median	1786.69
Max.	2324.07
Min.	1255.27

ASTM D143- Cleavage/ Split Resistance

Tensile Load	(lbf)
Median	224.69
Max.	314.35
Min.	144.49

ASTM D2395- Moisture content, Specific Gravity

Volume by Measurement	
Average Moisture Content	4.69%
Average Specific Gravity	0.581
Density reading	lb/ft3
Median	36.306
Max.	40.728
Min.	30.971



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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