

CHERRY FOREST PRODUCTS



Ecological



Stable



Durable



ASH
DECKING
COLLECTION

 novawood®



A NEW STANDARD

Thermowood Ash is an ideal, 100% natural, sustainable, high quality decking material. Its unique grain structure, provocative colour and elite posture are ideal for any project and will far exceed your expectations.

The process is chemical and additive free, making the products totally safe for all environmental usages.

A beautiful product made
of 100% natural and eco-
friendly material.

Novawood maintains its quality in all climates and weather conditions.



WHAT IS THERMOWOOD?

Thermowood is the name given to lumber that has been thermally modified with high temperatures (180°C - 212°C), water vapour and pressure. As a result of the reduced moisture content of the wood, Novawood timber gains an unparalleled stability and durability.

The thermal modification process takes a period of 48-96 hours, taking into careful consideration variable features, such as type, thickness, and initial moisture content of the lumber. Absolutely no chemical substances are used in the production process.

HOW DOES IT WORK?

Wood has the unique feature of receiving moisture from the environment, and then releasing it again in drier conditions. This results in stability loss due to a change in humidity rates. As weather becomes dry, water molecules in the wood are lost, which results in bending, twisting, and cracking of the lumber. The Thermowood process eliminates this fluctuation by a specific heat treating process outlined below:

STEP

1

HIGH TEMP DRYING

Using heat and steam, the kiln temperature is raised to 130°C. The wood is reduced to a moisture content of nearly zero.

STEP

2

THERMAL MODIFICATION

After high temp drying has taken place, the temperature inside the kiln is increased to between 185°C and 215°C. The temperature remains constant at the desired temperature for 2-3 hours.

STEP

3

COOLING & CONDITIONING

The final stage is to lower the temperature using water spray systems. When the temperature has reached 80-90°C, re-moisturizing takes place to bring the wood moisture content to a usable level (4-7%).

OVERALL RESULTS

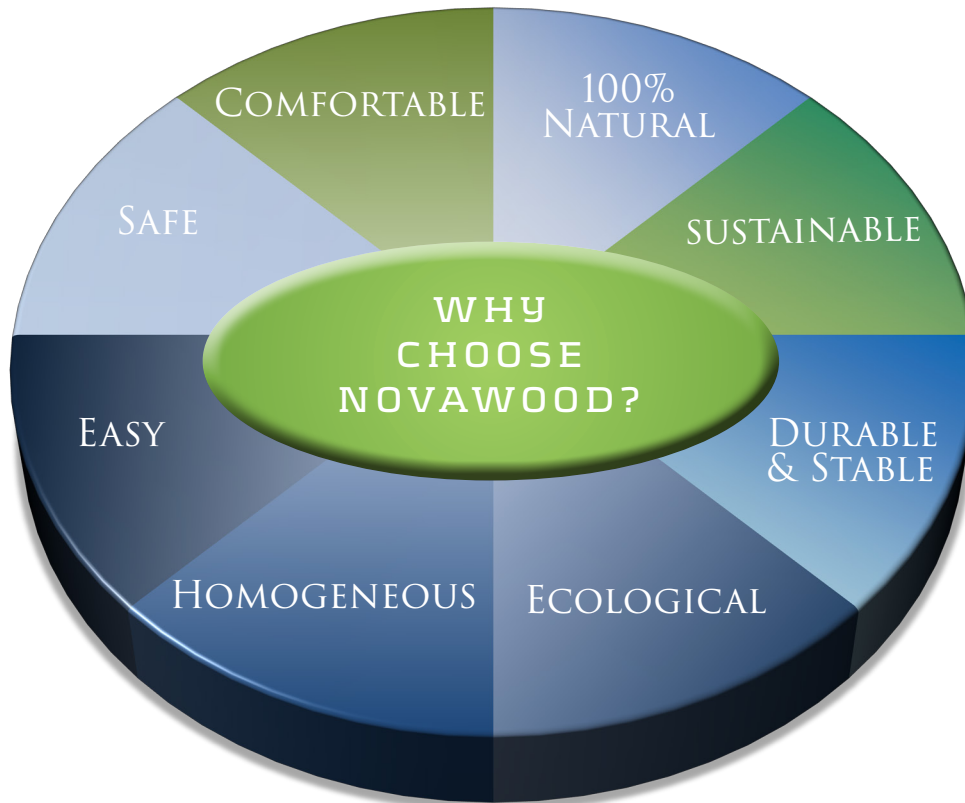
Heating wood permanently changes several of its chemical and physical properties. This is mainly caused by thermic degrading of hemicelluloses. As a result, swelling and shrinkage is decreased, biological durability is improved, colour darkens, the wood becomes lighter and thermal insulation properties are improved.



The rich chocolate colour can be preserved by a clear, oil-based stain.

BEAUTIFUL COLOUR

An added benefit of the Thermowood process is the rich brown walnut colour. This gorgeous and provocative colour is homogeneous throughout the wood. This consistency allows the wood to absorb stain much more uniformly than untreated woods, leading to a breathtaking result.



KEY FEATURES

- **100% Natural** - Absolutely no chemicals used during the entire Thermowood process.
- **Ecological** - Harmless to human beings and all living species. Environmentally friendly, healthy, recyclable, and strong.
- **Durable & Stable** - Performs in all weather conditions, outlasting other species. Resistant to decay and fungal growth.
- **Sustainable** - Produced from sustainable forests and is long lasting. FSC Certified product.
- **Easy** - Light weight, easy on tooling and machinery, planks are 100% usable, non-toxic dust.
- **Homogeneous** - Colour of wood is more homogeneous, allowing for a more even absorption of stain.
- **Comfortable** - 25% more acoustic and heat isolated than non-thermally modified wood. No hot feet, unlike plastic decking.
- **Safe** - 30% more fire resistant than normal lumber, and insect formation is completely prevented.



Thermo Ash Decking can be safely used in high traffic areas, maintaining its exceptional quality for years to come.




UNLIMITED OPPORTUNITIES

The greatest advantage of Thermowood decking is its increased resistance and stability in all weather conditions. This durability allows for nearly infinite usages; terraces, balconies, cafe and restaurant flooring, park and garden landscaping, walkways, courtyards... the list goes on and on!

GOING THE DISTANCE

The greatest advantage of the Thermowood process is its increased stability and durability. The elegance of the wood is preserved for decades to come. In comparison to other woods, Thermowood Ash is at the top of the class.



| | DURABILITY CLASS 1 HIGH DURABILITY | DURABILITY CLASS 2 MEDIUM DURABILITY | DURABILITY CLASS 3 AVERAGE DURABILITY | DURABILITY CLASS 4 LOW DURABILITY | DURABILITY CLASS 5 WITHOUT RESISTANCE |
|--------------|--|---|---|--------------------------------------|--|
| PERIOD | MIN. 25 YEARS | 15-25 YEARS | 10-15 YEARS | 5-10 YEARS | MAX. 5 YEARS |
| WOOD SPECIES |  TEAK IPE | BANGKIRAI CEDAR PRESSURE-TREATED | PLANTATION TEAK DOUGLAS FIR SIBERIAN LARCH OAK | PINE SPRUCE EUROPEAN LARCH | ASH BEECH POPLAR RED PINE |

The difference in durability is clearly seen between regular and non-thermally modified Ash.



INSTALL WITH EASE

End Match Technology

This revolutionary technique allows for 100% usage of each board. The seams are NOT required to rest on support joists. This saves time measuring and cutting and gives a clean, hardwood flooring look. Not to mention design possibilities that are only limited by your imagination.



Presentation

Novawood Decking comes in easy to handle, displayable packaging, similar to interior hardwood flooring, allowing for limitless display and presentation possibilities. The boards are lightweight and easy on blades and installers.



Hidden Clip Technology

The Novawood Deck Boards we carry in stock are pre-grooved and joined together with custom hidden clips. These clips allow for perfect board spacing, clean lines and minimal hardware.

Grooved w/ Clips

D4S with Clips

*Other decking profile variations available by special order.

The unique hidden deck clipping system allows for clean lines and completely level surfaces. No more tripping hazards!



Q. WILL THE DECK RETAIN ITS COLOUR?

A. Your deck naturally ages to a beautiful patina grey colour (as shown above), due to the UV effects of the sun. The rich brown walnut colour will come back easily if treated with a clear oil based stain.

Q. ARE THE BOARDS REVERSIBLE?

A. No. Due to the unique hidden deck clipping system, the side grooves are designed for a maximum grip, and are profiled to fit in only one direction.

Q. WILL THE DECK BOARDS CHECK?

A. Yes. As a natural product, the decking may show signs of slight surface checks. These checks do not affect the strength and durability of the boards, and can actually enhance the character of the deck over time.

Q. HOW MUCH GROUND CLEARANCE DO I NEED?

A. The manufacturer recommends only a minimum of 1-5/8" (4cm) ground clearance. There should be adequate air flow under the deck to remove any trapped moisture.

Q. WHAT IS THE DECK'S AVERAGE LIFESPAN?

A. The manufacturer warrants the deck against rot and decay for 2 years from installation. The average lifespan is a minimum of 25 years, but tests show the Thermowood Ash will far out-perform this period.

Q. WILL THE "ROASTED" SMELL GO AWAY?

A. Yes. The "roasted" smell of the Thermowood decking will dissipate after 3-4 days and will no longer be noticeable. (For indoor applications this can take up to 20-30 days).

Q. HOW FAR APART DO THE JOIST BOARDS NEED TO BE?

A. The manufacturer recommends that the joist boards be placed on 12" centres. The hidden clip system will ensure proper spacing between boards and maintain a uniform presentation for the life of the deck.

Q. WITH LESS MOISTURE, DOES THE WOOD SPLIT OR CHIP MORE FREQUENTLY?

A. It is true that the lower moisture content can increase the risk of splitting. Our installation process has been streamlined with end matched joints and a hidden clip system to eliminate the most common causes of splittance.



ASPIRE TO A NEW STANDARD IN AESTHETICS AND ENVIRONMENTAL CONSCIOUSNESS

If you are a perfectionist, with an eye for detail and quality, we highly recommend our line of Thermowood Ash Decking. This luxurious product is a beautiful and ecological alternative to plastic and tropical decking. The undeniable colour, unparalleled stability and durability, and environmentally responsible construction make every Novawood installation a showcase in understated luxury.

This is what serenity and peace of mind look like. Create your own oasis with Novawood Decking today.





CHERRY FOREST PRODUCTS



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