

THERMAL MODIFICATION DATA SHEET

AMBARA™



What is Thermal Modification?

Thermally modifying wood involves heating wood material to a temperature of 180-220 °C, while at the same time protecting it with steam.

While protecting the wood, the steam also influences the chemical changes taking place in the wood.

Is Thermal Modification Environmentally Friendly?

Thermally Modified wood is an environmentally friendly & fully recyclable product. The manufacturing of thermally modified woods does not include any harmful chemicals, is 100% natural, and non-toxic. Only heat & steam are used.

Why Thermally Modified Woods?

Thermal modification enhances the wood through and through, not just the outer surface. The result is boards that are durable and stable in every way.

After thermal modification, the moisture content of the wood decreases to around 4-6%. As a result of lowered equilibrium moisture content, thermally modified wood does not react to changes in humidity as drastically and retains its shape far better than untreated wood.

All of this makes thermally modified woods a sustainable alternative to tropical hardwoods and an amazing option for indoor and outdoor use in any climate.

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Treatment Class: THERMO D

D stands for durability; the wood has a darker brown tone. Its durability and stability are improved significantly. The wood is thermally modified at 212 °C and is suitable for internal and external applications without need for chemical preservative treatment. Thermally modified wood is also suitable for humid spaces like spas or saunas.

Dimensional Stability:

Lowered equilibrium moisture content of the thermally modified wood makes it dimensionally stable and the material retains its shape far better than untreated wood. The outstanding dimensional stability allows the thermally modified wood to be successfully used in all climates and even in hot and humid weather conditions, both indoors and outdoors.

Use Class:

Thermally modified Ambara™ is suitable for use class 3 (BS EN 335)

The wood is above the ground and exposed to weather (suitable for cladding, rainscreen, decking,...)

Not recommended for use in direct contact with the ground.

Durability:

Thermally modified Ambara™ is classified as durability class 1 (BS EN 350)

Termite Resistant:

Thermally modified Ambara™ is not termite resistant. They can be treated with specialist termite chemical treatment.

Fire Rating:

Thermally modified Ambara™ has a D4 rating.

Wearing Over Time:

Like all timber products, thermally modified Ambara™ will go grey upon exposure to UV, and in time may show some fine cracks or splits on the surface. The greying effect will be visible in a relatively short period of time, 3-6 months after installation. It is recommended to apply an oil or wood coating to help preserve and maintain the original appearance

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