

Thermally-Enhanced North American Hardwoods



9540 83rd Avenue North, Maple Grove, MN 55369

PhoenixWood™ is a line of thermally-enhanced hardwoods that resemble high-priced exotic hardwoods while using domestic sustainably harvested species. Patented in Europe in the late 1990's and widely used today, the Thermal-Wood process has been used to make mouldings, flooring, paneling and decking for many years.

Combined with FSC certification, PhoenixWood™ hardwoods provide you with a wood readily available that is harvested and processed in an environmentally sensitive manner. In the enhancement process there are no environmental emissions and the resulting product has many characteristics never before available in North American hardwoods.

Because the color in PhoenixWood™ is consistent through the full thickness of the piece, a PhoenixWood™ floor can be scratched and still retain the same color, making it ideal for heavy wear, commercial environments. The dimensional stability of PhoenixWood™ is 2 to 3 times greater than untreated wood, making it the perfect product for flooring and mouldings in environments where winter moisture contents that are very low contrast with summer humidity. PhoenixWood's greatly reduced water absorption can also benefit high traffic, commercial environments where frequent floor cleaning is necessary.

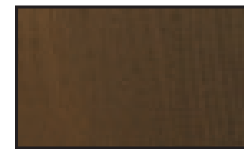
For companies looking to mesh environmental responsibility with the best product available, PhoenixWood™ is the answer. With PhoenixWood™ no tropical forests were destroyed, yet the same rich, dark durable look is attained. Specify PhoenixWood™ for your next product and you will see why this exciting, contemporary technology is being sought after worldwide.



NA Tropical Walnut
(Soft Maple)



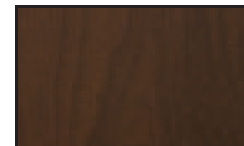
NA Tigerwood
(Soft Maple)



NA Ipe
(Hickory)



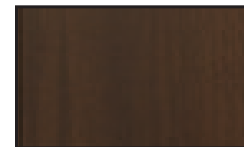
NA Teak
(Hickory)



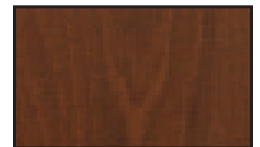
NA Peruvian Walnut
(Hard Maple)



NA English Chestnut
(White Ash)



NA Wenge
(Red Oak)



NA Eng. Brown Oak
(Red Oak)

Features & Benefits

Dimensional Stability

Thermally treated lumber is up to 3 times more stable than its untreated counterpart.

Color/Appearance

The color is the net result of the time and temperature of the treatment and can be duplicated from lot to lot.

Hardness

In the initial stages at the lighter treatment colors the lumber is actually harder, at the deeper stages the resulting wood is slightly softer.

Environmental Impact

Thermally enhanced hardwoods are made with heat and steam only, with no harmful chemicals used and no negative environmental impact.

Density

Lumber density is reduced slightly (5-10%) depending on species.

Equilibrium Moisture Content

During drying the moisture content is reduced to near zero then moisture is added back in during the conditioning step. Moisture at time of shipment is 3-4%. Going forward the MC of the wood remains dry under household conditions, from 4-6%.

Permeability

The heat changes the chemical composition of the lumber which results in a product where absorption is reduced 3-5 times depending on species and treatment level.

Emissions

In the treatment process all emissions are cycled through the heat treatment vessel where they are burned and not released into the environment. There is no water runoff or emissions issues.