

MAXIMO™

THERMOWOOD® AYOUS DATA SHEET



Maximo™ Thermo is the definitive standard in thermally modified wood, establishing the pinnacle for performance, finish, and sustainability within the industry. It has undergone rigorous testing and has consistently surpassed other thermally modified woods in thousands of projects worldwide.

Key Features

Maximo™ Thermo is crafted from responsibly harvested raw materials and undergoes the entire proprietary patented modification process, ensuring sustainability, stability, and durability from inception to completion.

The Patented Thermowood® Process

The thermal modification process, a patented technique studied by wood scientists for decades, alters the cellular structure of the wood using only heat and steam, facilitated by 100% organic materials. This ruptures the cell walls, removing moisture and sucrose. This results in a natural, organic, performance-enhanced wood that is dimensionally stable, lightweight, and ready to install.

NOMINAL SIZE	DIMENSIONAL SIZE	LENGTH	BOARDS PER PACK	LBS per LF
1 x 6	3/4" x 5 1/2"	4'-14'	7	0.40
1 x 8	3/4" x 7 1/8"	4'-14'	7	0.80
1 x 11	3/4" x 9 3/4"	4'-14'	7	0.80
1 x 6	3/4" x 5 1/2"	4'-14'	7	0.20
2 x 2	1 1/2" x 1 1/2"	4'-14'	9	0.20
2 x 4	1 1/2" x 3 1/2"	4'-14'	3	0.60
2 x 6	1 1/2" x 5 1/2"	4'-14'	3	1.40

*Fluted





Material

100% Maximo™ Thermowood® Ayous

Durability

EN 350 Class 2, exceeding the performance of durable woods in long term ground contact field tests

Equilibrium Moisture Content

Equilibrium moisture content at 20/65 (%)
EN 13183- 4.6 (4-7)

Density

Average 510 kg/m³, 65% RH, 20°C,
Range 400 to 600 kg/m³

Material Fire Rating

Maximo™ Thermowood® Ayous: Class B in the USA (ASTM E84)
like most domestic woods. Thermo can be fire treated to meet higher requirements

Sustainability

Our **Maximo™ Thermowood®** raw materials come from forests managed for high timber yields, sourced from suppliers with certified origins. Additionally, many **Maximo™** products hold FSC® certification, which promotes global forest management standards. FSC® incentivizes superior social and environmental practices among forest owners and managers, ensuring products meet the highest standards for consumers.

Biological Resistance

As is the case with all materials exposed to rain, mold may develop on **Maximo™ Thermowood® Ayous** surfaces exposed to rain due to airborne bacteria or impurities. However, wiping or scraping can easily remove this superficial growth.

Maximo™ Thermowood® Ayous is not recommended for structures in direct contact with soil or water.

Weather Resistance

Maximo™ Thermowood® Ayous, left untreated, maintains lower moisture levels compared to unmodified timber when exposed to weather. However, it's advisable to apply surface treatment to protect against humidity, erosion, and UV radiation, especially in warm, humid climates. Rain may cause slight color changes, and UV exposure can cause the wood to gray.

Durability

Maximo™ Thermowood® Ayous is exceptionally resistant to rot and decay and other wood-destroying microorganisms. Because of this resilience, we confidently offer a 20-year outdoor warranty against rot for all products used above ground.

Finishing

To enhance the longevity and dimensional stability of **Maximo™ Thermowood® Ayous**, applying a finish or coating is advisable. **Maximo™ Thermowood® Ayous** is compatible with most commonly used coating systems. Testing has shown that both oil-based and water-based coatings are suitable. For further guidance, consult your coating supplier.

