IROKO

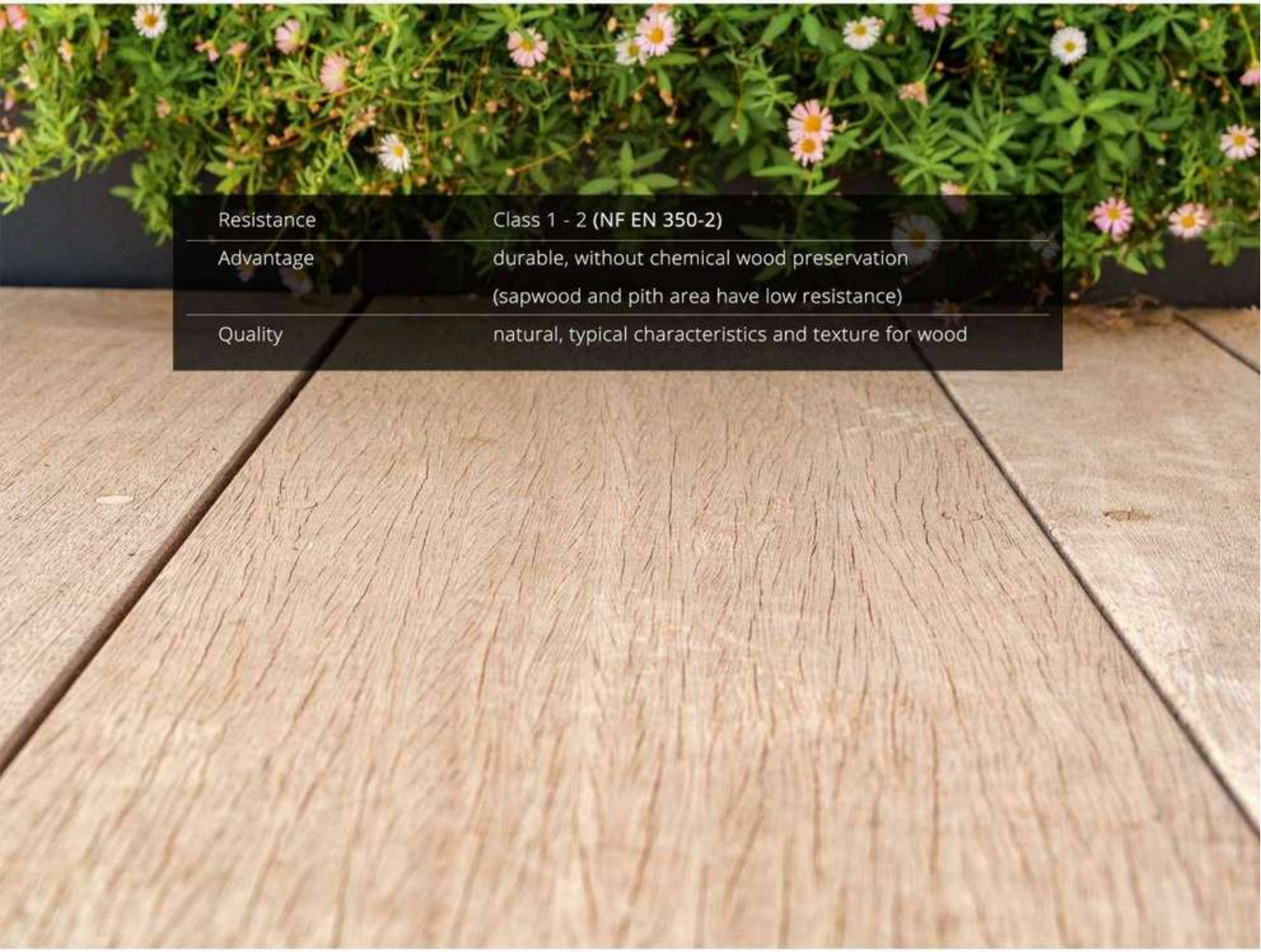
2025 Catalogue

assiourasbros

advanced wood technology

Natural characteristics of wood

Iroko is a timber in shades of golden-orange, responding with comfort in structures exposed to weather, but not excluding the equal use indoors and that is why it finds application in wooden shipbuilding, external and internal frames, internal and external cladding, floor constructions, decks, ladders, boats and ships, outdoor furniture, bench laboratories, as it is very resistant to chemical reagents. At the market it is available in the form of sawn timber and veneer.



Resistance	Class 1 - 2 **(NF EN 350-2)**
Advantage	durable, without chemical wood preservation (sapwood and pith area have low resistance)
Quality	natural, typical characteristics and texture for wood

The wood is referred to moderately hard. It can be compared with Teak in most properties and exhibits good dimensional stability while maintaining its form even after the construction. The heartwood is of high endurance. It is easy in processing both with machine and hand tools, and is a material that allows a high aesthetical and quality outcome when finished.

It has good resistance to static bending and compressive strength and moderate toughness and impact and stains very easily. It has increased photosensitivity resulting in quick changeof color when used in outdoor constructions.

It hs medium weight (average dried weight 660kg/m³). The wood has a golden-orange color close to brown, with clear light-colored lines in tangent incisions. It contains quantities of calcium carbonate in darker wood are allowed around. Wood has sometimes irregular structure, in rough but uniform grain.

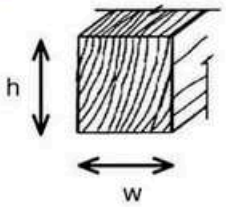
Solid

Iroko

Timber

Dimensions

h	w	h	w
21mm	x 120mm	42mm	x 42mm
21mm	x 142mm	50mm	x 130mm
35mm	x 130mm	50mm	x 150mm
35mm	x 150mm	130mm	x 130mm
		150mm	x 150mm



Physical & mechanical properties

Physical and mechanical properties are based on mature heartwood specimens. These properties can vary greatly depending on origin and growth conditions.

	Mean	Std dev.
Specific gravity *:	0,64	0,06
Monnin hardness *:	4,1	0,9
Coeff. of volumetric shrinkage:	0,44 %	0,07 %
Total tangential shrinkage (TS):	5,4 %	0,7 %
Total radial shrinkage (RS):	3,5 %	0,4 %
TS/RS ratio:	1,5	
Fiber saturation point:	23 %	
Stability:	moderately stable	

(: at 12% moisture content, with 1 MPa = 1 N/mm²)*

Natural Durability and treatability

Fungi and termite resistance refers to end-uses under temperate climate. Except for special comments on sapwood, natural durability is based on mature heartwood. Sapwood must always be considered as non-durable against wood degrading agents..

E.N. = Euro Norm

Funghi (according to E.N. standards):	class 1-2 - very durable to durable
Dry wood borers:	durable - sapwood demarcated (risk limited to sapwood)
Termites (according to E.N. standards):	class D - durable
Treatability (according to E.N. standards):	class 4 - not permeable
Use class ensured by natural durability:	class 3 - not in ground contact, outside
Species covering the use class 5:	No

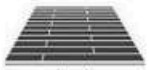
Note: *This species is listed in the European standard NF EN 350-2.*
The heartwood does not cover the use class 4 required for end-uses in contact with permanent humidity (example: contact with ground). On the other hand, if the constructive system is well-drained, without water trap, this species can be used outside without any treatment. Heartwood is hardly permeable to preservative products. This species naturally covers the use class 5 (end-uses in marine environment or in brackish water) due to its high specific gravity and hardness. According to the European standard NF EN 335, performance length might be modified by the intensity of end-use exposition.

Requirement of a preservative treatment

Against dry wood borer attacks:	does not require any preservative treatment
In case of risk of temporary humidification:	does not require any preservative treatment
In case of risk of permanent humidification:	does not require any preservative treatment

Applications


pergolas


deck


shading systems


façade

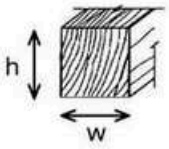
Laminated Iroko Timber

Dimensions

h \ W	80	100	120	140	160	180	200	240	280	300	320	360	400
50	•	•	•	•	•	•	•	•	•	•	•	•	•
60	•	•	•	•	•	•	•	•	•	•	•	•	•
70	•	•	•	•	•	•	•	•	•	•	•	•	•
80	•	•	•	•	•	•	•	•	•	•	•	•	•
100		•	•	•	•	•	•	•	•	•	•	•	•
120			•	•	•	•	•	•	•	•	•	•	•
140				•	•	•	•	•	•	•	•	•	•
160					•	•	•	•	•	•	•	•	•
180						•	•	•	•	•	•	•	•
200							•	•	•	•	•	•	•
240								•	•	•	•	•	•
280									•	•	•	•	•
300										•	•	•	•

maximum length: 12 m

maximum length: 6 m



Physical & mechanical properties

Wood with moderate bending and compressive strength, with very low ME. and very low impact resistance.
Medium weight (average dried weight 660kg/m³) wood in golden-orange color close to brown, with clear light-colored lines in tangent incisions. Quantities of calcium carbonate in darker wood are allowed around. Wood with sometimes irregular structure, in rough but uniform grain.

Durability and treatability

Cordial and extremely durable. (Such us solid timber)

Requirement of a preservative treatment

Against dry wood borer attacks: does not require any preservative treatment
In case of risk of temporary humidification: does not require any preservative treatment
In case of risk of permanent humidification: does not require any preservative treatment

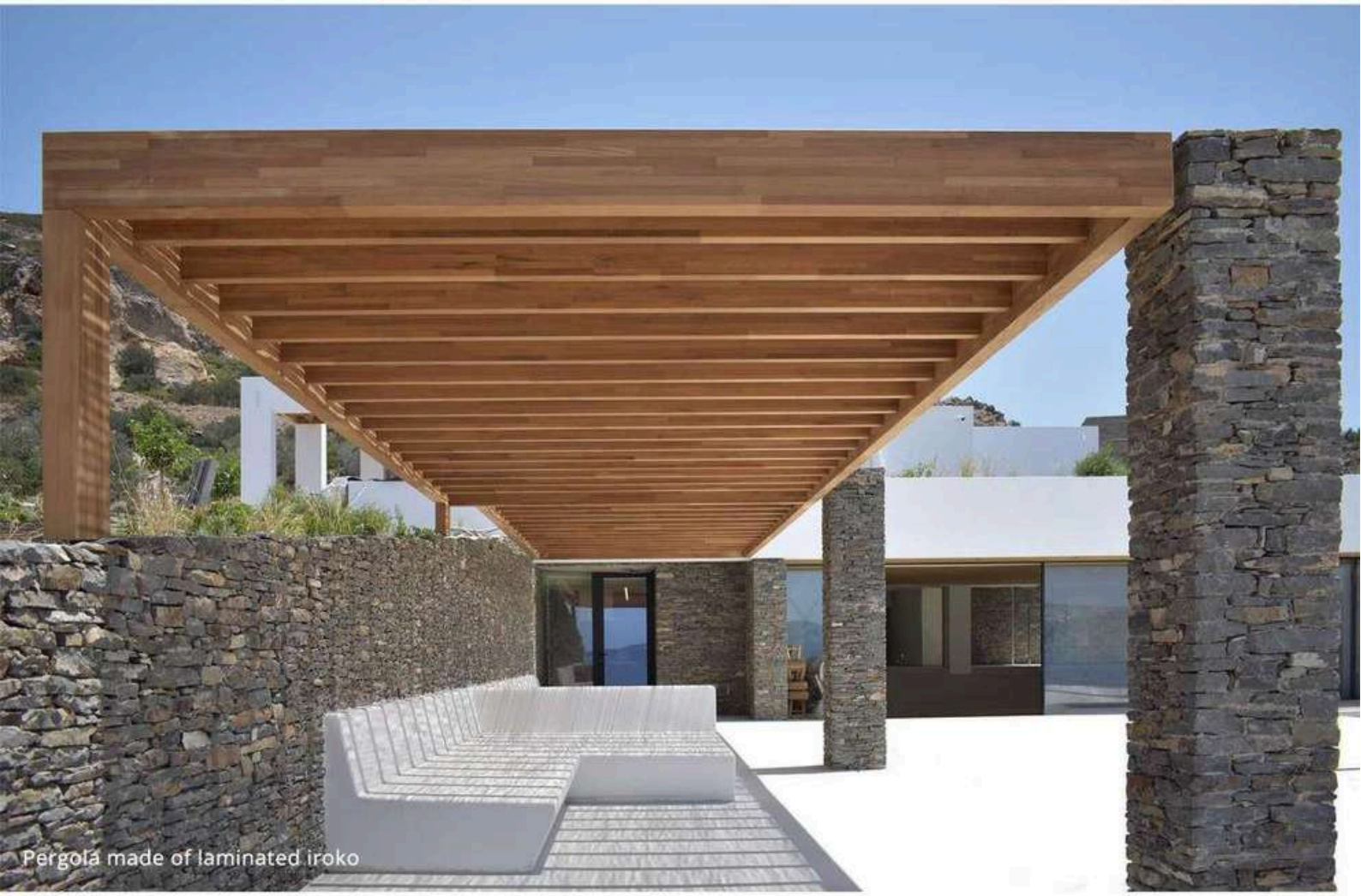
Applications


pergolas


shading systems


façade

Related projects



Pergola made of laminated iroko

assiourasbros
advanced wood technology

SHOWROOM
19,5 Klm Marathonos Av.
153 51 Pallini
Athens - Greece
T +30 210 6139 821

WAREHOUSE
3, Diovounioti Str.
153 51 Pallini
Athens - Greece
T +30 210 6039 845

info@assiourasbros.gr
www.assiourasbros.gr