ANGELIM PEDRA



1 of 2

Family: FABACEAE (angiosperm)
Scientific name(s): Hymenolobium spp.
Commercial restriction: no commercial restriction

WOOD DESCRIPTION

LOG DESCRIPTION

Color: orange - yellow
Sapwood: not clearly demarcated

Texture: coarse **Grain:** interlocked

Interlocked Grain: slight

Note: Heartwood is yellow brown becoming pinkish brown on exposure. Fairly important waxen patches more or less frequent

Diameter: 27.6 – 47.2 inches **Thickness of Sapwood:** 1.2– 2 inches

Floats: no

Log Durability: moderate (treatment recommended)

PHYSICAL PROPERTIES

MECHANICAL/ACOUSTIC

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

Mean Std. Dev. Mean Specific Gravity*: 0.80 0.07 Crushing Strength*: 9,717 lbf Janka Hardness (lbs): Static Bending Strength*: 17,259 lbf 1,720 Volumetric Shrinkage: Modulus of Elasticity*: 0.67% 0.09% 3,026,937 lbf

Total Tangential Shrinkage (TS): 8.3% 1.5% **Total Radial Shrinkage (RS):** 4.9% 0.8%

TS/RS Ratio: 1.7 Fiber Saturation Point: 25%

Stability: Moderately stable to poorly stable

Musical Quality Factor: 111.9 measured at 2607 Hz

*At 12% moisture content.

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 3 – moderately durable

Dry Wood Borers: susceptible - sapwood not or slightly demarcated (risk in all the wood)

Termites (According to E.N. standards): class S - susceptible

Treatability (according to E.N. standards): class 4 - moderately permeable

Use class ensured by natural durability: class 2 – inside or under cover (dampness possible)

Species covering the use class 5:

Note: Resistance to decay moderate to good according to the species.

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: requires appropriate preservative treatment **In case of risk of temporary humidification:** requires appropriate preservative treatment

In case of risk of permanent humidification: use not recommended

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DRYING

Drying Rate:rapid to normalRisk of Distortion:slight riskRisk of Casehardening:noRisk of Checking:slight riskRisk of Collapse:no

Note: A slower drying speed can avoid defects

Possible Drying Schedule: 3

remperature (1)			
M.C. (%)	Dry-Bulb	Wet-Bulb	Air Humidity (%)
Green	140	132.8	81
30	154.4	136.4	61
20	165.2	140	51
15	176	141.8	41

Temperature (°F)

This schedule is given for information only and is applicable to thickness lower or equal to 1.5 in. It must be used in compliance with the code of practice. For thickness from 1.5 to 3 in, the air relative humidity should be increased by 5% at each step. For thickness over 3 in, a 10% increase should be considered.

SAWING AND MACHINING

ASSEMBLING

Blunting Effect: normal

Sawteeth Recommended: ordinary or alloy steel

Cutting Tools:ordinaryPeeling:badSlicing:good

Note: Possible difficulties if the waxen patches are numerous. These

patches remain visible after machining.

Nailing / screwing: good but pre-boring is necessary

Gluing: correct

Note: Tendency to end checks when nailing.

END-USES

MAIN LOCAL NAMES

Interior joinery

Exterior joinery

Current furniture or furniture components

Stairs (interior)

Industrial or heavy flooring

Sliced veneer

Interior/Exterior paneling

Moulding

Heavy carpentry

Flooring

Country

Local Name

Brazil

Angelim Amarelo, Mirarena Angelim Pedra, Angelim Rosa,

Angelim Da Mata, Sapupira Amarella

Guyana

Koraroballi

Suriname Saandoe, Makkakabes

Works Cited:

Meier, E. (2015), Wood, United States of America

Note: A careful sanding must be done to obtain a good finish.