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ND/MD

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## ANGELIM PEDRA

**Scientific Name:** HYMENOLOBIUM PETREUM (Ducke.)

**Family name** : Fabaceae. (Old literature Leguminosae)

**Common Name:** ANGELIM PEDRA, Sapupira, Angelim de Para.

**Locations** : There is plenty of Angelim Pedra in tropical Brazil, Amazonia, Rondonia, Mato Grosso.

**Trees** : Medium heavy trees in highland forest, 45-50meter high and 80-90cm diameter and up, sometimes heavier, good formed, defect free logs are about 20-30m. long.

**Description** : Heartwood green pale brown, deep brown upon exposure, combined with yellowish parenchyma stripes just like Sucupira. Also the heartwood is marked with dark red/brown staines. Sapwood white/grey usually 2-5 cm wide.

**Structure** : medium coarse texture, doesn't has much luster, because of the parenchyma stripes. Small staines/stripes of hard wax in the cells, which are dark red/brown. *It doesn't influence the quality of the lumber and is normal for this specie. The staines have a higher density.*

**Grain** : In general straight, but sometimes interlocked.

**Odeur/taste** : NON, all do green from the sawn You can smell it. This specie is most times mix-up with Angelim Vermelho.

**Properties** : Easy to sawn/plane and to finish, doesn't has a blunting effect on knives.

**Drying** : A medium/slow drying schedule is advisable, all do there is a risk on splitting and a small risk on deformation.  
: 3x5" from green to 12-18% about 35-40 days.  
: 4x5" from green to 14-20% about 60 days.

**Nailing/Screwing:** Holds nails/screws very well, pre-drilling not necessary.

**Availability** : There is plenty of production in Brazil, but is very popular in Brazil for constructions and even furniture. The Dutch market consumes more and more of this specie for windows and doors.



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**Technical properties ANGELIM PEDRA**

<b>Durability</b>	<b>Class I/II</b>
<b>Dry-wood-insects</b>	<b>High resistance</b>
<b>Fungus</b>	<b>Good resistance</b>
<b>Termites</b>	<b>medium resistance</b>
<b>Impregnate</b>	<b>very difficult</b>
<b>Specific Weight : Green</b>	<b>1200-1150 kg/m3</b>
<b>KD 12% MC</b>	<b>770 kg/m3</b>
<b>Shrinkage Radial (R%)</b>	<b>4,8% <i>until 0% moisture</i></b>
<b>Tangential (T%)</b>	<b>8,3% <i>until 0% moisture</i></b>

**Mechanical properties KD 12% MC.**

<b>Bending Strength</b>	<b>131 N/mm2</b>
<b>Elasticity module</b>	<b>16140 N/mm2</b>
<b>Compression Axial until rupture</b>	<b>66 N/mm2</b>

**Uses** : All outdoors constructions, beams, doors, windows, fences, furniture, parquetry

**Comparable** : When you compare strength & durability it is comparable with European oak.

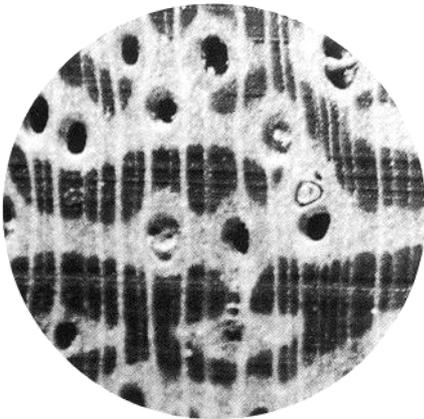
**Sources** : 'Timbers of the New World', Yale University Press., Instituto Brasileiro de  
: Desenvolvimento Florestal. CTFT Atlas de Mad. Trop. Am. do Sul. Arvores e  
: Plantas Uteis. Madeiras da Amazonia Biblioteca Bras. de Madeiras.



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### ANGELIM PEDRA FOTO'S



Seção transversal (x 10)  
Cross section (x 10)

