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TIMBORANA

Com.Names : TIMBORANA, Angico, Angico Vermelho, Parica. P.grande da terra firme,
: Parica Vermelha, Arapiraca Vermelha, Timbo da Mata, Chocolatillo, Angico
: Rajado.

Bot. Names : Piptadenia Suaveolens.

Family : Leguminosae. Mimosoideae.

Description : Timborana is a large unarmed tree, occurring from the Amazonas throughout
: South America. From Venezuela into Argentina, being abundantly represented in
: Brazil, Ecuador, Bolivia, Paraguay, Venezuela. The Piptadenias consist of about 80
: different species, which even occur in Africa and Asia, but we will limit
: ourselves to the reddish-brown specie, which is very hard and heavy, whereas the
: other species are much lighter and certainly less durable. This red specie is also
: often beautifully brownish striped.(Mahoganylike.)
: The trees are usually from 25 upto 30 meters tall, and from 60 to 100cms in
: diameter at maturity but occ. individuals are over 100 feet high with a trunk 4 feet
: through. In spite of it's attractive appearance, it is too hard to be used for
: furniture. Pores of the reddish type Piptadenia cant be distincted without lens.
: The others can be distincted with the bare eye.

Heartwood : brown to reddish brown, slightly distinct from the pale-brown sapwood.
: Often attractively striped, bearing a strong resemblance to 'old mahogany'.
: Distinct Growth-rings.

Texture : medium, grain interlocked or cross-grained.

Luster : moderate.

Odor/taste : No specific odor nor taste.

Workability : not easy to saw or plane, good to turn, peel or polish. Needs very sharp knives and
: power, due to Interlocked grain. However can be finished very smoothly.

Gluing : In spite of the fact, that this specie has a somewhat oily feel, it can be glued very
: easily.

Fixation : Hold nails and screws very well, but probably needs pre-drilling.

Density : Heavy heartwood, with a density of around 870-900kgs/m³ at 12% MC.
: Green Weight is around 1.200kgs/m³.



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Drying : airdries fairly rapidly and kilndries very rapidly. Must be kilned at a slow schedule, to avoid checking. Has a moderate tendency for medium cupping or twisting, when kilning at Schedule 1.

Shrinkage : Tang. 8,3(R)% from Green to 0% MC.
: Rad. 5,1(T)% from Green to 0% MC.

Durability : is very hard, and tough, with a high resistance to fungi and any insects.

Preservation : moderately easy to preserve with CCA-A, difficult with oil-borne products, even vacuum.

Uses : For all Civil- and Naval constructions, floorings both in housing as industrial, truckbodies, Sliced veneers, turnery.

Mechanical properties at 12% MC

Static Bending: Modulus of rupture	1498 kgf/cm²
Static Bending: Modulus of elasticity	157.000kgf/cm²
Max. Compression : Pararell to the grain	798 kgf/cm²
Compression : Perpenducular to the grain (Stress at proportional limit)	142 kgf/cm²
Tension: Perpenducular to the grain (max. compression)= traction	54 kgf/cm²
Shear: Max. Compression	162 kgf/cm²
Janka Hardness Parallel	898 kgf
Janka Hardness End	979 kgf
Choc-resistance	absorption fairly high
Cleavage-resistance	Fairly high

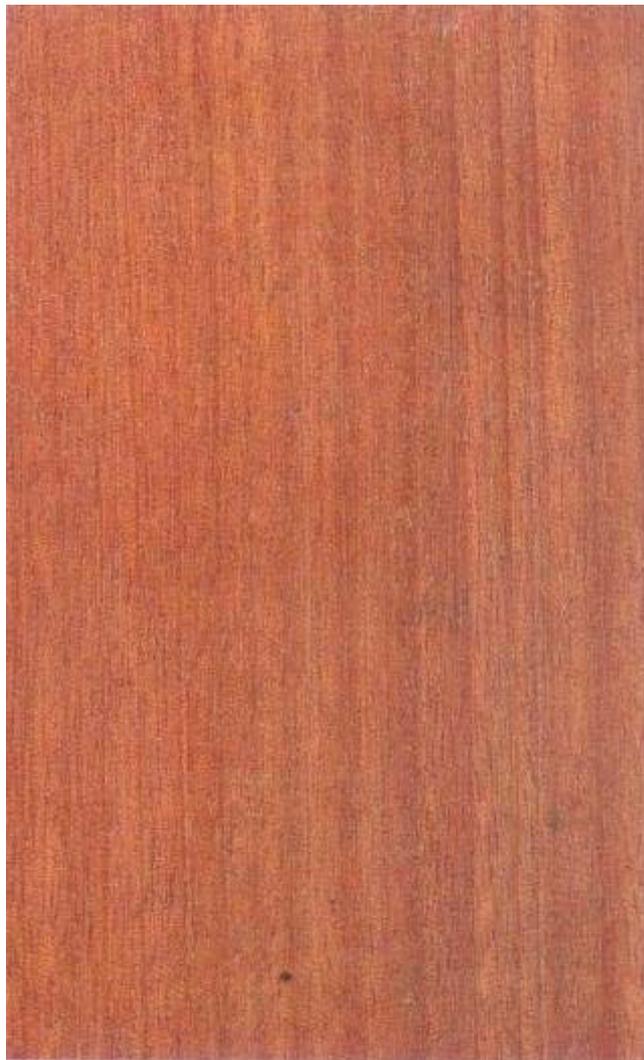
Sources : Forest Products Yale University/Yale School of Forestry/ I.B.D.F. +L.P.F. Brasil.



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Timborana Pictures:



Corte radial
Quartersawn



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

D.  *Jr.*
Hout

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