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CEDRORANA

Bot.name : Cedrelinga Catenaeformis. (Ducke.)

Familyname : Mimosaceae.

Comm. Names : Cedrorana, cedroarana, Achapo.

Description : The Heartwood is pale brown with a golden luster to clear copper-red. Often marked with dark red vessel lines, gradually merging into the lighter coloured sapwood. Luster moderately low. Sapwood creamish white to creamish pink, not very distinct from the heartwood. Coarse-textured and roe-grained, but usually very straightgrained, occasionally slightly interlocked. Easy to cut but saws a little woolly; can however be finished very smoothly. Considered firm and tough and fairly durable. Without distinctive odour and taste. Only when fresh, having an unpleasant odour.

Logs : Well shaped trees often over 150-160 feet tall with enormous trunks of 150-270cm diameters. Generally growing on the humid "Terra Firma" of the Amazon-Tocatins-Rondonia regions in Brazil as well as on the Northern Mato Grosso.

Density : 'Green' abt. 950 kgs, AD abt. 680kgs, KD 12% abt. 500kgs.

Durability : Heartwood must be considered good to moderately durable (class 3) and well resisting to fungi and dry-rot. Resistance to Termites and similar Insects is fairly poor. In contact with the soil it's of average durability and resistance against brownrot is just moderate.

Machining : Sawing, planing, finishing, gluing are all very easy with hardly any abrasing effect on tools. However saws and knives must be kept sharp to avoid woolly or 'torn fibres'. With the exception of an extreme low density specimen this timber holds nails and screws very well. Gluing and laminating of this specy can be done with very good results.

Kilning : Both air drying and kilndrying can be done without any major problem and with a minimal risk on end splits or surface-checks, nor deformation. Also case-hardening hardly ever occurs.

Density Green kg/m ³	900-1000
Density Kilndry 15% MC	550-560
Density Kilndry 12% MC	480-540



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Mechanical Properties at 12% MC

Compressionstrenght	38 N/mm ² (Axial)
Bendingstrenght	79 N/mm ² (Static)
Elasticitymodule	8.800 N/mm ²
Shrinkage (Tang.)	6,5 in T %.
Rad. shrinkage	3,6 in R %.
Hardness Janka	392 kgf

*) Tested according to ASTM-D143/52 Norms.

Tests made by Prof. Marc Stevens of Houttechnologie university of Gand, Belgium for Window-Framing.

Comparison	CEDRORANA	DAR RED MERANTI
AVG. VOLUME-WEIGHT KGS/M3 KD 15% MC	550	550
E-MODULE x10PMa	10	11
NATURAL DURABILITY	3	2-4
CONSERVATION	2	2-3 (*)
DIM. STABILITY	STABLE	STABLE
CROSSGRAIN	OCCASIONNALLY	NO
VARIATION IN COLOUR	NONE	BIG VARIATIONS
VARIATION IN WEIGHT	HARDLY	BIG VARIATIONS

*) Class 2 means : Superficial preservation; No sap allowed.

*) Class 3 means : Careful preservation advised than sap also allowed.

Conclusion	Suitable Windowframe/doors	Suitable

Uses : Cedrorana has been successfully used for moldings, interior and exterior
: constructions, such as Windowframes, Double-glazing, Laminated beams,
: Doors, Turnery, Plywood, Paneling, Furniture.

*) Western European Countries importing and using Cedrorana regularly, are Sweden,
Germany, Belgium, Great Britain, Italy, Spain, France and Holland.

Availability : This Specy occurs abundantly and export of it is rather important.

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



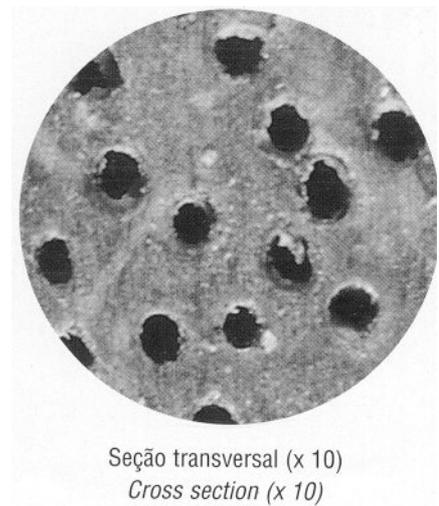
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CEDRORANA FOTO'S:



Corte tangencial
Flatsawn



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