

SIRARI



SCIENTIFIC NAME	Ormosia coarctata
FAMILY	leg. papilionoideae
INTERNATIONAL NAME	Baracara
OTHER NAMES	Tento (Bra.), Chco (Col.), Palo de matos (Pue.), Peonio (Ven.)
AREA OF OCCURRENCE	Humid mounting forests and plains
REGION AND FREQUENCY	States of La Paz, Beni and Pando, Bolivia

IPE IN COMPARISON WITH OTHER SPECIES

	red meranti	sirari	cambara/ cedrinho	mahogany
Density 12%inkg/m ³	500	600	530	430
Density (kg/m ³)AD	900	650	700	480
Radial shrinkage(R%)	3.8	3.2	3.6	3.1
Tangential shrinkage(T%)	7.3	6.4	8.7	4.6
Modulus of Elasticity at 12%(N/mm ²)	11510	14800	10400	9900
Janka hardness at12%(kgf)	4310	7060	3900	4710
Durability class	III	I - II	III - IIII	II - III

More other timber species comparison

DESCRIPTION OF THE TREE

TOP	It presents alternating leaves compound-piñatas
TRUNC	cylindrical tapered Shaft, height total average of 30m
BARK	Brown color of rough appearance

ORGANIC CHARACTERISTIC OF THE WOOD

SAPWOOD COLOR	Very pale Brown
HARDWOOD COLOR	Reddish Yellow
SMELL	Absent to lightly aromatic
FLAVOR	Non distinguishing
SHINE	Brilliant
GRAIN	Intertwined
VEINES	Soft

ANATOMICAL DESCRIPTION

RINGS OF GROWTH	
Visibility	Visible with magnifying glass of 10x
Average number	13 rings in a radius of 10x
PORES	
Visibility	At first sight
Porosity	Diffuse
Type	Loners and multiple radial
Form	Round to oval
PARENQUIMA	
Visibility	Visible at first sight
Quantity	Abundant
Type	Paratraqueal aliforme
RADIUS	
Visibility	Visible with glass magnifying of 10x
Stratification	Absent
Contrast	Absent

PHYSICAL PROPERTIES

CONTENT OF HUMIDITY GREEN	74%
BASIC DENSITY	0,6 g/cm ³
DENSITY AT 12% HUMIDITY	0,65 g/cm ³
RADIAL CONTRACTION	3,2%
TANGENTIAL CONTRACTION	6,4%
VOLUMETRIC CONTRACTION	9,3%
RELATIONSHIP T/R	2,1

MECHANICAL RESISTANCE

MODULE OF ELASTICITY	148 x 1000 kg/cm ²
ROTATING MODULE	1095 kg/cm ²
PARALLEL COMPRESSION	592 kg/cm ²
RADIAL CUT	138 kg/cm ²
JANKA HARDNESS	706 kg
TENACITY	3,97 kg-m

PROCESSING CONDITIONS

WORKABILITY	Easy to process mechanically, doesn't present tensions
PRESERVATION	Barely permeable
DURABILITY	Durable, resistant to the attack of mushrooms and insects
DRYING	Air-drying is of moderate speed, defects are not presented. A moderate program of artificial drying is recommended

USES

Construction
 Marcos of doors and windows
 Furniture in general
 Parquet and floors

click on the picture (online) for a close up



V" groove Sirari ceiling



Fine lifelong Sirari deck.



Moldings

Originally, due to price and availability, Mahogany was substituted by cedrinho/ cambara (the same). However, cambara structure is rather coarse. Also, its quality in respect of durability and resistance to fungi, termites and marine borers is not as good as the less known specie Sirari. Superior strength, decay resistance, and uniformity in color make sirari – also known as Bolivian Mahogany – the homeowners choice over its rival Philippine Mahogany. Sirari is unknown Bolivian specie, which definitely is a great opportunity to buy due its accessible price (at least for the moment). Also, sirari is definitely not as coarse as cambara. The structure of Sirari is as fine as Mahogany. That's why ROQUE VALENTE recommends sirari instead of cambara. We are looking forward to hearing from you soon for any further information at: info@roquevalente.com

Source: Proyectos andinos de desarrollo tecnológico en el área de los recursos forestales tropicales (PADT - REFORT) / JUNAC. Descripción general y anatómica de ciento cinco maderas del grupo andino. JUNAC 1981

Proyecto 150/91 rev. 1 (I) identificación y nomenclatura de las maderas tropicales comerciales en la subregion andina. Manual de identificación de especies forestales de la subregion andina. Instituto nacional de investigación agraria. 1996