Common name:	MANDIOQU	EIRA					
Family: Scientific name(s):	Qualea spp.	VOCHYSIACEAE Qualea spp. Ruizterania spp.					
Note:	Ruizterania spp. Woods of genus Ruizterania may be commercialized under the name MANDIOQUEIRA; only beige grey colour differentiate them from woods of genus Qualea.						
LOG DESCRIPTION			WOOD DESCRIPTION				
Diameter:	from 50 to	80 cm		Pinkish brown			
Thickness of sapwoo		6 cm	-	Sapwood: Clearly demarcated			
Floats:	no			Medium	1		
Durability in forest :	Moderate (tre recommended			Straight or interlock	ed		
Note:		brown to red bro	wn, sometimes olive brown.	Slight Grain sometimes w	avy. Unpleasant		
PHYSICAL PROPER			MECHANICAL PROPE				
Physical and mechar origin and growth co		ed on mature hea	rtwood specimens. These pr	operties can vary gr	eatly depending on		
	mean	standard deviatio	on	mean	standard		
Density *:	0.74 g/cm3				deviation		
Monnin hardness*: Coef of volumetric sh	4.7 nrinkage: 0.60 %	0.6 0.13	Crushing strength *:	69 M	Pa 10		
Total tangential shrin	U	1.1	Static bending strength	n *: 103 M	Pa 19		
Total radial shrinkag		1.0	Modulus of elasticity *	: 19400 M	Pa 2957		
1 Otal Taulai Shi nikag				· 12400 WL			
Fibre saturation poin	it: 31 %						
Fibre saturation poin Stability:			(*: at 12 % moisture co				
Fibre saturation poin Stability: NATURAL DURABI Fungi and termite res Except for special co Sapwood must alway Fungi: Dry wood borers: Termites: Treatability:	tt: 31 % Poorly stable LITY AND TREATAE sistance refers to end-u mments on sapwood, to ys be considered as not Class 3 - mod Durable; sapy Class S - Suss 2 - moderately	ILITY ses under tempera natural durability n-durable against erately durable vood demarcated reptible permeable	(*: at 12 % moisture co ate climate. is based on mature heartwood t wood degrading agents. (risk limited to sapwood)	ontent ; 1 MPa = 1 N od.			
Fibre saturation poin Stability: NATURAL DURABI Fungi and termite res Except for special co Sapwood must alway Fungi: Dry wood borers: Termites:	tt: 31 % Poorly stable LITY AND TREATAE sistance refers to end-u omments on sapwood, r ys be considered as no Class 3 - mod Durable; sapw Class S - Sus 2 - moderately uss*: 2 - not in grou	ILITY ses under tempera natural durability n-durable against erately durable vood demarcated reptible permeable	(*: at 12 % moisture co ate climate. is based on mature heartwood t wood degrading agents.	ontent ; 1 MPa = 1 N od.	/mm2) nsured by natural ability (according		
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MANDIOQUEIRA

REQUIREMENT OF A PRESERVATIVE TREATMENT

Against dry wood borer attacks: In case of temporary humidification risk: In case of permanent humidification risk: Does not require any preservative treatment Requires appropriate preservative treatment Use not recommended

DRYING		Possible dryin	Possible drying schedule		
Drying rate: Risk of distortion:	Normal High risk	M.C. (%)	Tempera dry-bulb	ture (°C) wet-bulb	Air humidity (%)
Risk of casehardening: Risk of checking: Risk of collapse:	No High risk No	Green 50 40 30 15	42 48 48 48 54	39 43 43 43 46	82 74 74 74 63

This shedule is given for information only and is applicable to thickness < 38 mm.

It must be used in compliance with the code of practice.

For thickness from 38 to 75 mm , the air relative humidity should be increased by 5 % at each step.

For thickness over 75 mm , a 10 % increase should be considered.

Note:

Variable risks of distortion according to the species. High humidity recommended during the first stages of drying in order to reduce defects.

SAWING AND MACHINING

Blunting effect:	Normal
Sawteeth recommended:	Ordinary or alloy steel
Cutting tools:	Ordinary
Peeling:	Good
Slicing:	Good
Note:	Some species can be siliceous and present an important blunting effect. In this case, it is
	necessary to use adequate tools.

ASSEMBLING

Nailing / Screwing:	Good
Runnig / Berewing.	0000
Gluing:	Correct
8	

END-USES

Main known end-uses; they must to be implemented according to the code of practice. Important remark: some end-uses are mentionned for information (traditional, regional or ancient end-uses).

Wood frame house	Tool handles (resilient woods)	
Heavy carpentry		
Flooring		
Exterior joinery		
Interior joinery		
Interior panelling		
Exterior panelling		
Current furniture or furniture components		
Sliced veneer		
Ship building (planking and deck)		
Moulding		
Veneer for interior of plywood		
Boxes and crates		
Formwork		
Glued laminated		
Vehicle or container flooring		
Seats		
Open boats		