



Garapa – *Apuleia molaris*

OTHER NAMES: Muira-Juba, Ferro

REGION OF ORIGIN: South America



GENERAL DESCRIPTION

Garapa is a light yellow to honey-brown colour and its interlocked grain has a fine texture. It is a very durable timber that resists rot, decay and fire. The timber is lustrous and does not bleed. It has a high silica content and is scratch resistant. Primarily used as a kiln-dried decking timber. Garapa carries either independent FSC100% certification it is sourced from legal and well-managed resources.

MAIN USES

Decking, exterior furniture and joinery, exterior construction and flooring.

WORKING PROPERTIES

Garapa saws, nails and screws well with only slight blunting effect and also glues well. It is scratch resistant.

Avoid contact with iron filings as this will discolour the timber black. If this does occur staining can be removed with a light scrub using oxalic acid.

MECHANICAL PROPERTIES

Garapa is a hard and strong timber with high bending and crushing strengths.

AVAILABILITY

Specifications stocked at Rosenfeld Kidson are: Ex 100x25mm and Ex 150x25mm kiln dried decking, as well as 40mm and 50mm thicknesses in a range of fixed widths.

GRADING

Select.

DENSITY (kg/m3)*:	790
DURABILITY:	Durable

STRENGTH GROUP:	SD3
MOR (MPa):	Seasoned 116
MOE(GPa):	Seasoned 15.9
JANKA(kN):	7.4

SHRINKAGE GREEN TO 12% M.C.	Tangential	Radial
	6.5	3.5

*Air Dry Density (kg/m3) is average indication only and actual value may vary. Refer to timber properties tables over page for strength, shrinkage and durability classifications.

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STRENGTH GROUPINGS

Minimum values for strength groups (unseasoned timber)			
<i>(units are Mpa = 145 lb/sq.inch)</i>			
Strength group	Modulus of rupture	Modulus of elasticity	Maximum crushing strength
S1	103	16300	52
S2	76	14200	43
S3	73	12400	36
S4	62	10700	31
S5	52	9100	26
S6	43	7900	22
S7	36	6900	18

Minimum values for strength groups (seasoned timber)			
<i>(units are Mpa = 145 lb/sq.inch)</i>			
Strength group	Modulus of rupture	Modulus of elasticity	Maximum crushing strength
SD1	150	21500	80
SD2	130	18500	70
SD3	110	16000	61
SD4	94	14000	54
SD5	78	12500	47
SD6	65	10500	41
SD7	55	9100	36
SD8	45	7900	30

SHRINKAGE CLASSIFICATIONS

Description of shrinkage	Shrinkage from Green to Oven-dry (12% MC)	
	(%) before reconditioning	
	Tangential	Radial
Very Low	0 - 3.5	0 - 2
Low	3.5 - 5.0	2 - 3
Medium	5.0 - 6.5	3 - 4
High	6.5 - 8.0	4 - 5
Very High	> 8.0	> 5

DURABILITY CLASSIFICATIONS

Grade of durability	Approximate service life (years)		
	Fully Protected	Above ground, exposed	In-ground, exposed
Very Durable	> 50	> 40	> 25
Durable	> 50	15 - 40	15 - 25
Moderately Durable	> 50	7 - 15	5 - 15
Non-Durable	> 50	0 - 7	0 - 5

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