Cumaru Hardwood

Species: Dipteryx odorata

Other names: Brazilian Teak, Tonka, Shihuahuaco

About us:

Our Brazilian Teak, or Cumaru, is sustainably sourced from a remote area in Brazil called Acre. The logging of this timber only happens 4 months of the year, and provides jobs and income for local indigenous communities in the area. The timber is sourced under strict environmental laws, and once the allocated timber (10% of area) is logged, the area is then untouchable for the next 25 years. The indigenous communities rely heavily on this industry for their livelihoods, as there is only one other industry in the area, and we are in regular contact with our partner in Brazil to ensure safe and sustainable practices are being met. Our hardwood carries independent FSC100% certification that it is sourced from legal and well-managed forests.

General description:

Rich in texture and colour, Cumaru hardwood when cut is reddish-brown or purplish-brown with lighter streaks and on exposure gradually becomes uniform light brown. Lustre is low to medium, texture is fine and grain interlocked with a waxy or oily feel. Similar to spotted gum in appearance.

Mechanical properties:

Timber is extremely hard and heavy, very strong and tough. Shock resistance is high.

Availability:

Specifications stocked are as follows.
Decking - 145mmx21mm & 90mmx21mm
Flooring - 145mmx21mm TNG

Density (kg/m3*): 1140
Durability: Very durable
Strength Group: S1
Modules of rupture (MPa): 132 (Unseasoned), 188 (Seasoned)
Modules of elasticity (GPa): 18.3 (Unseasoned), 21.0 (Seasoned)
Janka (kN): 13.7
Shrinkage Green to 12% M.C.: 7.0 (Tangential), 4.0 (Radial)

Timber Properties:

Strength Groupings:

Minimum values for strength groups (unseasoned timber)			
(units are Mpa = 145 lb/sq.inch)			
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)			
(units are Mpa = 145 lb/sq.inch)			
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