



Technical Datasheet for hardwood

Raw material	IPE		CUMARU		GARAPA		GREEN HEART		MASSARANDUBA		SUCAPIRA	
	Green	Dry	Green	Dry	Green	Dry	Green	Dry	Green	Dry	Green	Dry
Density	960 kg/m ³	994 kg/m ³	910 kg/m ³	1,138 kg/cm ³	830 kg/m ³	670 kg/m ³			833 kg/m ³	1000 kg/m ³	940 kg/m ³	780 kg/m ³
Bending strength	1,579 KG/CM2	1,825 KG/CM2	1,357 KG/CM2	1,917 KG/CM2	956 KG/CM2	1278 KG/CM2			1,193KG/CM2	1,658KG/CM2	1505 KG/CM2	668 KG/CM2
Crushing strength (green)	1,825 KG/CM2	725 KG/CM2	1,917 KG/CM2	634 KG/CM2	380 KG/CM2	554 KG/CM2					746 KG/CM2	941 KG/CM2
Stiffness	204 T/CM2	220 T/CM2	189 T/CM2	213 T/CM2								
Specific gravity	0.92	1.08	0.86	0.9				0.97				
Hardness	1,671 kg		1,606 kg		1,631 kg				980 kg		973 kg	
Shearing strength	114 KG/CM2				129 KG/CM2				135KG/CM2		139 KG	
Weight	994 KG/CM3		1,138 KG/CM3									
Radial shrinkage	6.6%		5%		4.4%		7.5%		6.8%		5.6%	
Tangential shrinkage	8%		7.6%		8.5%		8.2%		11%		8.4%	
Volumetric shrinkage	13.2%		12%		14%				19%		15.1%	
Colour	Dark Green to Yellow/Brown		Chestnut		Yellowish Beige to Yellowish Brown		Yellow Brown		Light Red, becoming darker in time		Dark Brown	
Texture	Fine		Unstressed Fibrous		Fine		Fine		Fine		Medium	
Durability	Very hard, resistant to termites and fungus		Resistant to fungal and marine attack		Resistant to termites and decay fungi		Resistant to termites and decay fungi		Resistant to decay fungi and termites		Resistant to fungi and termites	
Size of tile	500 x 500mm		500 x 500mm		500 x 500mm		500 x 500mm		500 x 500mm		500 x 500mm	
Thickness of tile	30mm		30mm		30mm		30mm		30mm		30mm	
Weight of tile	5.7kg		5kg									
Sawing characteristics	Regular		Difficult				Difficult		Difficult		Difficult	
Drilling characteristics	Easy		Easy with defects								Good – Pre boring necessary	
Finishing characteristics	Good		Good		Good				Good			
Drying characteristics	Easy with little or no defects		Easy with small defects		Slow with little or no defects		Slow with a risk of defects		Difficult as wood is prone to splitting, warp and case hardening		Fast with little or no defects	
Euroclasse Fire rating	Class B		Class B		Class B		High/Medium		Class B		Class B	

