

Species - Kwila (Instia sp)



Uses:

Heavy Construction, Flooring, Sill, Boat Building, Bridge & Wharf - Superstructure, Decking, Steps, Truck Bodies, Cross Arms Carving, Turnery, Posts, Poles, Furniture, Joinery, Bench & Counter Tops, Switchboards, Cabinet Work, Interior Fittings, Decorative Veneer, Panelling, Artifacts, Sleepers








Physical Properties:

Air Dried Density	830Kg/m3 @12% m.c.
Colour	Brown, dark brown or golden brown
Texture	Moderately coarse but even
Grain	Sometimes slightly interlocked
Durability	Highly durable
Permeability	Heartwood is very resistant to preservative treatment
Lyctid Susceptibility	Susceptible
Shrinkage	Radial: 1.5% ; Tangential: 2.5%

Mechanical Properties:

Strength	SD 3 Seasoned
Structural Grade	F22 select grade
Toughness (Izod)	14J Seasoned, 18J Unseasoned
Hardness (Janka)	8.6kN Seasoned, 7.6kN Unseasoned
Maximum. Crushing Strength	81MPa Seasoned, 55MPa Unseasoned.
Modules of Elasticity	18GPa Seasoned, 12GPa Unseasoned.
Modules of Rapture	147MPa Seasoned, 103MPa Unseasoned.

Working Properties:

	<p>Saws well though saw blade gums up while sawing.</p>		<p>Additional power required.</p>
	<p>Turns well</p>		<p>Glues reasonably well, except with casein</p>
	<p>Screws well</p>		<p>Must be pre-bored first.</p>
	<p>Moulds Well</p>		