

SOLOMON ISLAND TEAK VS BURMESE TEAK

PROPERTIES	SOLOMON / SOUTH PACIFIC TEAK	BURMESE TEAK
Density	670kg/m ³ at 12% moisture content; about 1.5m ³ of seasoned sawn timber per tonne.	670kg/m ³ at 12% moisture content; about 1.5m ³ of seasoned sawn timber per tonne.
Colour	Golden brown, darkening to exposure.	Tends to be a golden or medium brown.
Texture	Moderately coarse and uneven.	Coarse, uneven and oily to the touch.
Grain	Usually straight.	Usually straight to slightly wavy.
Figure	Cathedral-like figure on back-sawn faces.	It can have a dulling effect on cutters but the is capable of a good finish.
Durability	Very durable.	Very durable.
Permeability	Impermeable.	Impermeable.
Lyctid Susceptibility	Susceptible.	Susceptible.
WORKABILITY		
General	Excellent working and finishing properties; cutter edges must be kept well sharpened due to presence of silica (SiO ₂).	Although working qualities can be variable, the timber generally works with moderate ease. It can have a dulling effect on cutters but the timber is capable of a good finish. It turns well and can be glued, stained and polished.
Sawing	Saws well but with blunting effect.	Saws well but with blunting effect.
Planning	Planes very well but with blunting effect: Cutting angle of 20° recommended.	Planes very well but with blunting effect: Cutting angle of 20° recommended.
Blunting	Medium to high.	Medium to high.
Boring	Good characteristics: clean exit hole.	Good characteristics: clean exit hole.
Turning	Good characteristics producing sharp arises: smooth (oily) finish.	Good characteristics producing sharp arises: smooth (oily) finish.
Nailing	Nails well: Good holding ability.	Nails well: Good holding ability.
Gluing	Care required due to greasy nature of the wood.	Care required due to greasy nature of the wood.
Finishing	Takes an excellent high polish: satin lustre.	Takes an excellent high polish: satin lustre.
MECHANICAL PROPERTIES		
Strength	(S6) unseasoned, (SD6) seasoned.	(S6) unseasoned, (SD6) seasoned.
Structural Grade	F4, F5, F7, F8 (unseasoned); F7, F8, F11, F14 (seasoned) when visually stress-graded according to AS 2082—2000: Timber—Hardwood—Visually stress-graded hardwood for structural purposes.	F4, F5, F7, F8 (unseasoned); F7, F8, F11, F14 (seasoned) when visually stress-graded according to AS 2082—2000: Timber—Hardwood—Visually stress-graded hardwood for structural purposes.
Toughness	143 (seasoned), 8J (unseasoned).	227 inch-lbs or 261 cm-kg.
Hardness	4.6KN (seasoned), 4.8KN (unseasoned).	firm (rated 4 on a 6-class scale) to indent and work with hand tools.
Max. Crushing Strength	49MPa (seasoned), 38MPa (unseasoned).	7883 psi or 554 kg/cm ² .
Modulus of Elasticity	11GPa (seasoned), 10GPa (unseasoned).	1,781,000 lbf/in ² (12.28 GPa).
Modulus of Rupture	88MPa (seasoned), 76MPa (unseasoned).	4,080 lbf/in ² (97.1 MPa).
SEASONING		
Average Age of Trees	25 years.	75 years.
General	Dries slowly with little degrade.	Dries slowly with little degrade.
Movement	Low.	Low.
Shrinkage	Low.	Low.
AVAILABILITY & PRICE		
Availability	20 Year Multi Plantation Supply Contract direct with Landowners with 363,000 Mature Age Trees available.	Government Ban on Export of Raw Timbers (Including Teak).
Average Price Per Cubic Tonne	US\$2,500.00	US\$9,800.00