



T-PAC LUMBER PTY LTD

BANGKIRAI

Botanical Name: Shorea spp.



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Also Known as Yellow Balau, Balau Kuning, Selangan Batu,

Native to Malaysia, Indonesia and the Philippines, Bangkirai is a dense hardwood used mainly for heavy construction.

The heartwood of Bangkirai is yellow to brown, which is distinct from the paler sapwood. Its moderately fine and even texture presents an interlocked grain, which produces a stripe figure on the radial surface. Bangkirai is also susceptible to pinhole borer damage.

In relation to its density, Bangkirai is relatively easy to work. It does not contain silica, however resin pockets may be present, meaning resin can build up on cutting equipment. Pre-drilling is advisable when nailing. Bangkirai can be painted, stained and polished but is not suitable for steam bending

TECHNICAL PROPERTIES

Density. Bangkirai 900 kg/m³ seasoned

Strength groups. Bangkirai S3 unseasoned; SD2 seasoned.

Stress grades. Bangkirai F8, F11, F14, F17 (unseasoned), F14, F17, F22, F27 (seasoned);

Joint groups. Bangkirai J2 unseasoned; JD2 seasoned.

Shrinkage to 12% MC. 6.5-8.0% (tangential); 4.0-5.0% (radial).

Durability above-ground. Bangkirai class 1 - life expectancy 40+ years.

Durability in-ground. Bangkirai class 2 - life expectancy 15 to 25 years.

Lyctine susceptibility. Untreated sapwood susceptible to lyctid borer attack.

Termite Resistance. Not Resistant.

Machining. Machines reasonably well to a smooth surface. However, some of the lower density species may give a woolly cut if sharp tools are not used.

Bush Fire Resistance. Bal 12.5 and 19 AS3959

Fixing. No difficulty has been experienced with the use of standard fittings and fastenings.

Gluing. Can be satisfactorily bonded using standard procedures.

Finishing. Can be painted, stained or polished. However, due to its open grain timber surfaces may need to be filled before finishing.

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