

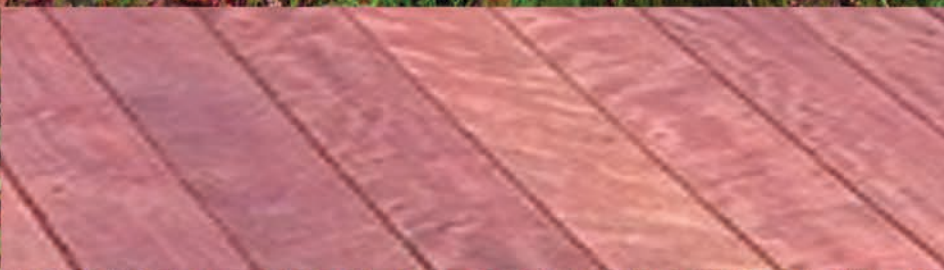
# PURPLEHEART



Possesses high strength and very good durability. It is an excellent structural timber suitable for heavy outdoor construction work such as bridges and docks. Great for outdoor Decking Applications. As flooring, it has high wearing qualities and is suitable for most conditions of traffic. A valuable wood for its attractive appearance and strength.



Doors and Trims



Decking and Flooring

**International Trade Name:** Purpleheart

**Scientific Name:** *Peltogyne spp.*

**Family:** *Caesalpiniaceae (Leguminosae)*

**Other name(s):** *Amaranth Nazareno, Pau Roxo, Bois Violet, Barabu*

**Distribution:** Available in commercial quantities from the Forests of Guyana.

**Appearance:** Dull brown when freshly cut and rapidly oxidizes to violet purple on exposure to light, gradually toning down in course of time to dark purplish-brown. The sapwood is whitish or cream coloured and grain is generally straight, sometimes wavy or interlocked. The texture is moderate to fine.

**Strength:** Purpleheart is intermediate between American white oak and greenheart in strength properties, but is outstanding in its ability to withstand suddenly applied loads and difficult strains.

**Natural Durability:** Highly resistant to decay, termites and fire. The heartwood is very durable and extremely resistant to preservatives while the sapwood is permeable.

## Timber Processing

**Drying** - Dries well and fairly rapidly with little de-grade.

**Working** - Planes and turns very well, finishes smoothly and takes a high polish.

**Assembly** - It takes glue well and holds nails and screws satisfactorily.

**Finishing** - Gives amazing results when lacquered or polished.

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# PURPLEHEART



Trimming and Mouldings. Mixes with other woods such as Greenheart well.  
Perfect for artisans, craftsmen and performs great in CNC applications



## Physical & Mechanical Properties

Very tough, strong and resilient

**Air dried density (12%):** 840 kg/m<sup>3</sup>

**Bending strength (at 12%):** 155 N/mm<sup>2</sup>

**Modulus of elasticity (at 12%):** 16860 N/mm<sup>2</sup>

**Compression parallel to grain:** 78.5 N/mm<sup>2</sup>

**Crushing strength (at 12%):** 79 N/mm<sup>2</sup>

**Tree Size:** 100 - 170 ft (30 - 50 m) tall, 3-5 ft (1 - 1.5 m) trunk diameter

**Average Dried Weight:** 56 lbs/ft<sup>3</sup> (905 kg/m<sup>3</sup>)

**Specific Gravity (at 12%):** 0.76, 0.90

**Janka Hardness:** 2520 lb<sub>f</sub> (11,190N)

**Modulus of Rupture:** 22000 lb<sub>f</sub>/in<sup>2</sup> (151.7 MPa)

**Shrinkage:** Radial: 3.8%, Tangential: 6.4%, Volumetric: 10.6%, T/R Ratio: 1:7

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Data Obtained through: Guyana Forestry Commission, (Guyana Woods Booklet 2014), Timber Research and Development Association (TRADA) UK Ltd., Woods-Database.com.