GREENHEART

A very heavy, hard, timber, suitable for use under exacting conditions. Outstanding in most of its strength properties and of very high durability with excellent resistance to attacks by marine borers. Available in very large sizes and long lengths, and is suitable for piling, piers, lock gates, dock and harbour works. Useful for Decking ,Joists and Flooring. Suitable for joinery in both exterior and interior siuations.

International Trade Name: *Greenheart*

Scientific Name: *Chlorocardium rodiei*

Family: *Lauraceae*

Other name(s): *Sipiri, Bibiro, Sipu*

Distribution: Occurs principally in Guyana and in lesser quantities in Suriname and Venezuela. Only commercially available in Guyana's forest.

Appearance: Light greenish to dark olive-green, sometimes marked with brown or black stakes. The texture is fine and even and grain straight or interlocked. The sapwood is pale yellow or greenish and is about 25-50mm wide in young trees and about 75mm wide in mature trees. The grain varies from straight to roey, and the texture is fine and uniform, lustrous and cold to the touch.

Strength: Greenheart is one of the strongest woods being hard, heavy, touch and elastic.

Natural Durability: Almost immune to decay and termites, highly resistant to marine organisms and fire. Extremely resistant to preservative treatment.

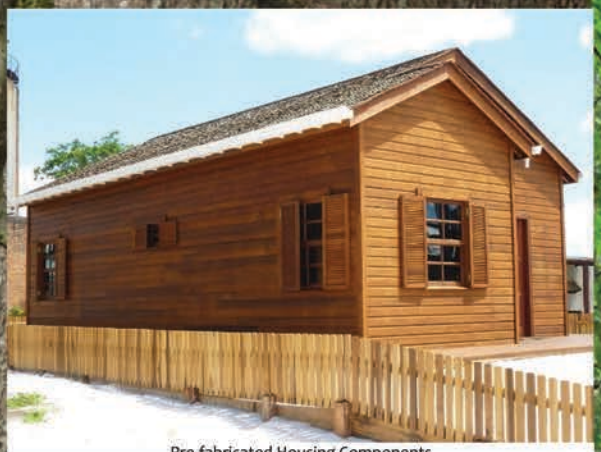
Timber Processing

Drying - Dries very slowly with minor degrade, particularly in the thicker sizes. Distortion is not serious.

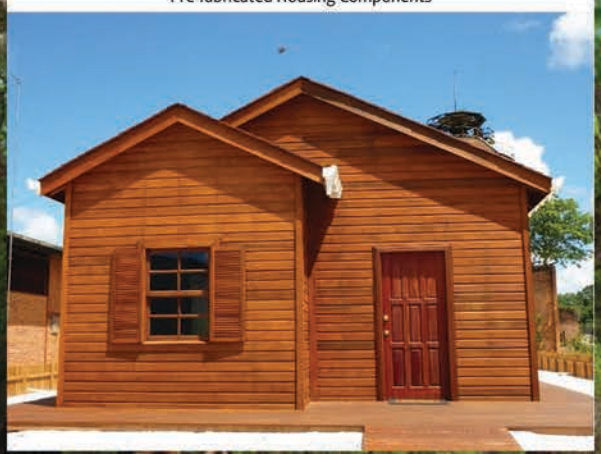
Working - Power required with blunting effect being moderate to high. Turns well. Planing is not difficult despite its high density and interlocked grain.

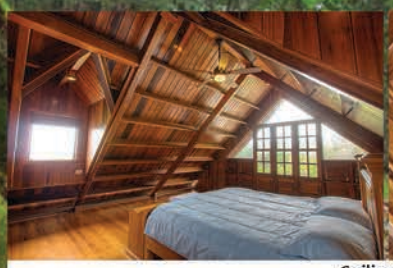
Assembly - Easy gluing. Pre-boring is recommended for nails and screws. Good nail holding.

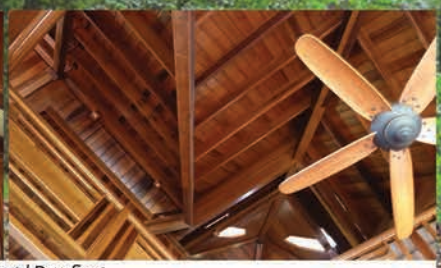
Finishing - Staining rarely necessary. Polishes satisfactorily.



Pre-fabricated Housing Components







Ceiling / Roofing

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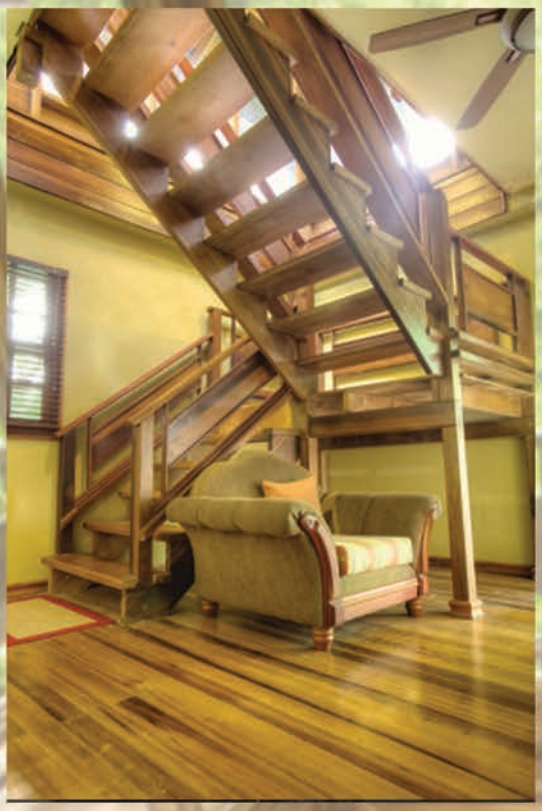
GREENHEART



Great for Flooring, Decking, Cladding, Stairwells. Can be used for both interior and exterior applications and finishing in various forms are possible.

Physical & Mechanical Properties

Has exceptionally high strength properties

Air dried density (12%): 970 kg/m^3

Bending strength (at 12%): 240 N/mm^2

Modulus of elasticity (at 12%): 24500 N/mm^2

Compression parallel to grain: 89.9 N/mm^2

Crushing strength (at 12%): 98 N/mm^2

Tree Size: 75-100 ft (23-30m) tall, 1.5-2 ft (0.5-0.6m) trunk diameter

Average Dried Weight: 63 lbs/ft^3 (1010 kg/m^3)

Specific Gravity (at 12%): 0.81, 1.01

Janka Hardness: 2530 lb$_f$ (11,260N)

Modulus of Rupture: 26900 lb$_f$/in^2 (185.5 MPa)

Shrinkage: Radial: 8.2%, Tangential: 8.9%, Volumetric: 16.5%, T/R Ratio: 1:1

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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.