Ocotea rubra
Family: Lauraceae
Determa

Red Louro

Other Common Names: Determa (Guyana), Wana, Wane (Surinam), Grignon rouge (French Guiana), Louro vermelho (Brazil).

Distribution: The Guianas, Trinidad, and the lower Amazon region of Brazil. Occasional to frequent on sandy or loamy soils in Guyana.

The Tree: Trees reach heights of 130 ft with diameters to 5 ft; usually 90 to 100 ft high with diameters of 2 to 3 ft; boles are generally basally swollen and clear 40 to 80 ft.

The Wood:
General Characteristics: Heartwood light reddish brown with a golden sheen; well-defined sapwood, narrow, dull gray or pale yellowish brown. Texture rather coarse; grain is interlocked to straight; quartersawn lumber is sometimes attractively figured; dry wood is without distinctive odor or taste.

Weight: Basic specific gravity (ovendry weight/green volume) 0.52 to 0.59; air-dry density 40 to 45 pcf.

Mechanical Properties: (First set of data based on the 2-in. standard; second set based on the 2-cm standard.)

<table>
<thead>
<tr>
<th>Moisture content</th>
<th>Bending strength (Psi)</th>
<th>Modulus of elasticity (1,000 psi)</th>
<th>Maximum crushing strength (Psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green (74)</td>
<td>7,820</td>
<td>1,460</td>
<td>3,760</td>
</tr>
<tr>
<td>12%</td>
<td>10,470</td>
<td>1,820</td>
<td>5,800</td>
</tr>
<tr>
<td>Green (30)</td>
<td>10,300</td>
<td>1,450</td>
<td>5,150</td>
</tr>
<tr>
<td>15%</td>
<td>13,600</td>
<td>NA</td>
<td>7,150</td>
</tr>
</tbody>
</table>

Janka side hardness 520 lb for green material and 660 lb at 12% moisture content. Forest Products Laboratory toughness average for green and dry material is 75 in.-lb. (5/8-in. specimen). Amsler toughness 137 in.-lb at 15% moisture content (2-cm specimen).
**Drying and Shrinkage:** The wood is moderately difficult to air-season; drying at a moderate rate with slight checking and moderate warp. Kiln schedule T6-D2 is suggested for 4/4 stock and T3-D1 for 8/4; there is a tendency to warp and check in the kiln. Shrinkage green to ovendry: radial 3.7%; tangential 7.6%; volumetric 10.4%.

**Working Properties:** Works readily with hand and machine tools with little dulling effect; reported to glue readily and polishes fairly well.

**Durability:** Heartwood is rated durable to very durable in resistance to attack by white-rot and durable to a brown rot; moderately resistant to dry-wood termites; is similar to teak in resistance to marine borers. Weathering characteristics are excellent and the wood is highly resistant to moisture absorption.

**Preservation:** The heartwood is not treatable.

**Uses:** Furniture, general construction, boat planking, tanks and cooperage, joinery, heavy marine construction, turnery, parquet flooring, veneer and plywood is also suggested.

**Additional Reading:** (10), (30), (46), (74)
