



# Massaranduba

## Atibt

Maçaranduba

## Other names

Maçaranduba, maparajuba (Brazil), balata rouge, balata franc, bois boulet (French Guiana), bulletwood, beefwood (Guyana), bolletrie, balata, horse meatwood (Suriname).

## Botanic name

*Manilkara bidentata* A. CHEV., *M. huberi* STANDL., *M. spec. div.* (= *Mimusops spec. div.*).

## Family

Sapotaceae

## Growth area

Suriname, Guianas, Brazil and Central America.



<b>Tree Description</b>	Height 30-45 m. The straight cylindrical branchless trunk is 15-18 m long and 0.6-0.8 m in diameter, 1.8 m maximum.
<b>Supply</b>	Edged wood.
<b>Wood Description</b>	Fresh, the wood is meaty, approaching grayish reddish brown or sometimes purplish brown. The heartwood is clearly distinguishable from the 30-50 mm wide white to light brown sapwood.
<b>Grain</b>	Straight, sometimes slightly wavy or slightly cross-grained.
<b>Texture</b>	Fine.
<b>Voluminous mass</b>	1050 (850-1200) kg/m <sup>3</sup> at 12% moisture content, fresh 1050-1350 kg/m <sup>3</sup> .
<b>Work</b>	Medium .
<b>Drying</b>	Very slow, with a strong tendency to deformation and surface cracking.
<b>Hardness</b>	Longitudinal plane 14200 N.
<b>Machinability</b>	Despite its high voluminous mass fairly well machinable. Massaranduba has a nice smooth finish. The fine dust can cause inflammation of the eyes and mucous membranes.



<b>Nailing &amp; Screwing</b>	Pre-drilling required.
<b>Adhesives</b>	Moderate.
<b>Bend</b>	Good.
<b>Surface finish</b>	Good.
<b>Impregnability</b>	Heartwood very difficult.
<b>Details</b>	In Suriname, balata (which is better than rubber for some uses) is tapped from the tree.
<b>Applications</b>	Hydraulic structures in pile worm-free areas, bridge decks, floors, sleepers. Also for turnery, knobs and handles, wind instruments, parquet and strip flooring and for violin bows as a substitute for pernambuco.
<b>Quality requirements</b>	Massaranduba is listed in NEN 5493.
<b>Sterkteklasse</b>	Classified as D60 depending on origin and quality (see Table D).

### Sustainability

#### Relative resistance to mold

M. bidentata I. M. huberi II. M. amazonica III

#### Relative resistance to animal organisms

Heartwood: termite D moderately durable.