

# Bruinhart (Brownheart)



## WOOD DESCRIPTION

<b>Color:</b>	Dark brown
<b>Grain:</b>	Straight
<b>Interlocked Grain:</b>	Absent
<b>Sapwood:</b>	Clearly demarcated
<b>Texture:</b>	Medium
<b>Diameter:</b>	40 - 100 cm
<b>Thickness of sapwood:</b>	2 - 3 cm
<b>Log durability:</b>	Good
<b>Floats:</b>	No

## Physical description

<b>Crushing strength*:</b>	82 (+/- 5)
<b>Specific Gravity *:</b>	0,92 (+/- 0,05)
<b>Stability:</b>	Moderately stable
<b>Static bending strength*:</b>	148 (+/- 12)
<b>Monnin hardness *:</b>	6,9 (+/- 1,5)
<b>Modulus of elasticity *:</b>	19780 (+/- 1662)
<b>Coeff. of volumetric shrinkage:</b>	0,65 % (+/- 0,06)
<b>Total radial shrinkage (RS):</b>	4,2 % (+/- 0,5)
<b>Total tangential shrinkage (TS):</b>	6,5 % (+/- 0,8)
<b>TS/RS ratio (Fiber saturation point):</b>	1,5
<b>Fiber saturation point:</b>	22 %
<b>Musical quality factor:</b>	129,9 at 2928 Hz

(\* at 12% moisture content, with 1 MPa = 1 N/mm<sup>2</sup>)

## Durability

<b>Dry wood borers:</b>	Class D - Durable
<b>Fungi:</b>	Class 1 - Very durable
<b>Termites:</b>	Class D - Durable
<b>Treatability:</b>	Class 3 - Poorly permeable

## DRYING

<b>Drying rate:</b>	Normal to slow
<b>Risk of distortion:</b>	Slight risk
<b>Risk of casehardening:</b>	No
<b>Risk of checking:</b>	Slight risk
<b>Risk of collapse:</b>	No

## SAWING AND MACHINING

<b>Blunting effect:</b>	Fairly high
<b>Sawteeth recommended:</b>	Stellite-tipped
<b>Cutting tools:</b>	Tungsten carbide
<b>Peeling:</b>	Not specified
<b>Slicing:</b>	Nood
<b>Note:</b>	Requires much power. Veneers quite brittle