

Afzelia

ORIGIN

Côte d'Ivoire, Camaroon, Ghana, Gabon, Nigeria, Zaire, Angola, Congo

SCIENTIFIC NAME

Afzelia africana, Afzelia bella Harms, Afzelia bipendensis Harms, Afzelia pachyloba Harms

COMMON NAMES

Afzelia, Chanfuta, Doussié, Lingue, Papao, Apa, Mussacossa, Uvala

FAMILY

Fabaceae-Caesalpinioideae

SAPWOOD

Clearly demarcated

HEARTWOOD

COLOUR: Brown or red brown

VEIN: Straight or interlocked

GRAIN: Medium

TEXTURE: -



PHYSICAL PROPERTIES

Green wood density (kg/m³): 1.100 - 1.200

Density at 12% (kg/m³): 800

Total tangential shrinkage (t%): 4,4

Total radial shrinkage (r%): 3,0

Coeff. of volumetric shrinkage (v%): 0,44

Crushing strength (n/mm²): 74

Bending strength (n/mm²): -

Static bending strength (n/mm²): 124

Modulus of elasticity (n/mm²): 17.020

Monnin hardness: 7,7

TRANSFORMATION

SAWING: Hard, requires specific tools

DRYING RATE: Slow, slight risk of distortion and checking

MACHINING: Hard due to interlocked grain

FINISHING: Good

GLUING: Delicate

NAILING: Good but pre-boring is necessary (slight risk of checking)

SCREWING: Good

USE CLASS ENSURED BY NATURAL DURABILITY

Class 4

In ground or fresh water contact

END-USE

Exterior carpentry

Luxury interior and exterior furnishings

Interior parquet

Construction of bridges and beams

Shipbuilding