



Constructional Timbers



Durability Table

SPECIES	STRENGTH CLASS	WEIGHT PER m ³ 12% M.C.	MODULUS OF ELASTICITY 12% M.C.	DURABILITY
Yellow Balau P.H.N.D.	D70	880-950 Kg	19000 N/mm ²	VERY DURABLE
Cumaru	D60	1070 Kg	26610 N/mm ²	VERY DURABLE
Ekki	D60	950-1100 Kg	18500 N/mm ²	VERY DURABLE
Garapa	D40	790 Kg	15880 N/mm ²	DURABLE
Greenheart	D70	1030 Kg	21000 N/mm ²	VERY DURABLE
Ipé	D60	1040 Kg	22760 N/mm ²	VERY DURABLE
Massaranduba	D60	1100 Kg	24410 N/mm ²	VERY DURABLE
Oak, European	D30/40	720 Kg	10100 N/mm ²	DURABLE
Opepe	D50	740 Kg	13400 N/mm ²	VERY DURABLE
Purpleheart	D50	860 Kg	16700 N/mm ²	VERY DURABLE

Species in green are normally available with FSC or PEFC certification.

Yellow Balau (Shorea spp)

A heavy durable hardwood. Main uses are in fendering, decking, street furniture and other structural and marine applications.

Cumaru (Coumarouna spp)

A red/brown durable hardwood used mainly for cladding and decking applications.

Ekki (Lophira alata)

A heavy hard timber, utilised in marine structures and other constructions where strength and durability are important. Suitable in acidic conditions, rivers etc.

Garapa (Apuleia Leiocatpa)

A yellowish durable hardwood used mainly for decking and flooring.

Greenheart (Ocotea rodiaei)

Another heavy durable timber, used in the UK for over two centuries, fundamentally employed in coastal defences, piles, lock gates and bridges.

Ipé (Tabebuia)

A red/brown durable and very stable hardwood used extensively for cladding, decking and flooring.

Massaranduba (Manilkata Bidentata/Hubeti)

A deep red very hard and durable hardwood used mainly for decking applications.

European Oak (Quercus Rober)

A durable and strong hardwood used in construction and joinery for roof beams, timber framed constructions, lock gates, decking and many other applications.

Opepe (Nauclea diderrichii)

A strong, stable and moderately heavy structural hardwood possessing resistance to marine borers.

Purpleheart (Peltogyne spp)

From Guyana and as name implies, colour changes from light brown when freshly sawn through to a purplish hue on exposure. Applications include street furniture, bollards, planking and decking.



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