

**Opepe**

Family Name: Rubiaceae

Latin Name: Nauclea Diderrichii

Origin: West Africa

Strength Class: D50

Weight: Approx 740 kg/m<sup>3</sup>

Durability: Very Durable

Description: The heartwood is an orange-brown colour, texture is fairly coarse and grain usually striped in appearance.

Mechanical Properties: An exceptionally strong timber, medium bending strength and high crushing strength. Low resistance to shock loads. Good resistance to fungus and insect attack.

Main Uses:	Marine Construction	River Defences
	Construction Work	Bridge Construction
	Piling	Sleepers
	Decking	Boat Building
	Panelling	Flooring

Grade Stresses for timber graded in accordance with BS 5268 rules: for service classes 1 and 2									
Standard Name	Grade	Bending parallel to grain <sup>a</sup>	Tension parallel to grain <sup>a</sup>	Compression		Shear parallel to grain	Modulus of elasticity		Approx Weight Kg/m <sup>3</sup>
				Parallel to grain	Perpendicular to grain <sup>b</sup>		Mean	Minimum	
		N/mm <sup>2</sup>	N/mm <sup>2</sup>	N/mm <sup>2</sup>	N/mm <sup>2</sup>	N/mm <sup>2</sup>	N/mm <sup>2</sup>	N/mm <sup>2</sup>	
Balau	D70	23.4	14.1	23.0	5.3	2.8	20 900	16 700	850
Beech	D30	22.8	22.8	15.2	4.5	3.1	11 400	7 200	710
Douglas Fir	C24	4.4	2.6	5.2	2.1	0.8	9 500	6 000	530
Ekki	D70	25.0	15.0	24.6	5.6	3.0	18 500	15 500	1050
Greenheart	D70	26.1	15.6	23.7	5.9	2.6	21 600	18 000	1030
Iroko	D40	12.6	7.5	12.6	2.8	1.6	10 600	8 500	660
Jarrah	D40	13.8	8.2	14.2	3.1	2.0	12 400	8 700	835
Kapur	D60	18.1	10.9	18.0	4.1	1.9	19 200	15 800	770
Keruing	D50	16.2	9.7	16.0	3.6	1.7	19 300	16 100	745
Larch	C24	5.3	3.2	6.8	1.8	0.8	9 000	6 000	575
Oak	D40	20.7	20.1	15.2	4.5	3.1	9 700	5 200	700
Opepe	D50	17.0	10.2	17.6	3.8	2.1	14 500	11 300	740

<sup>a</sup> Stresses applicable to timber 300mm deep (or wide)

<sup>b</sup> When the specifications specifically prohibit wane at bearing areas, the HS grade compression perpendicular to the grain stress may be multiplied by 1.33