

## Ekki

Family Name:	Ochnaceae
Latin Name:	Lophira Alata
Origin:	West Africa
Strength Class:	D70
Weight:	Approx 1050 kg/m <sup>3</sup>
Durability:	Very Durable
Description:	Colour varies from dark red to chocolate brown with white deposits in the pores. It has an interlocked grain with a coarse and uneven texture.
Mechanical Properties:	Very high bending and crushing strength, high resistance to shock loads and decay. Dries very slowly with severe splitting and distortion.
Main Uses:	Marine Construction      Sleepers Heavy Construction Heavy Duty Flooring Bridge Building              Bog Mats Decking

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> N/mm <sup>2</sup>	Tension parallel to grain <sup>a</sup> N/mm <sup>2</sup>	Compression		Shear parallel to grain N/mm <sup>2</sup>	Modulus of elasticity		Approx Weight Kg/m <sup>3</sup>
				Parallel to grain N/mm <sup>2</sup>	Perpendicular to grain <sup>b</sup> N/mm <sup>2</sup>		Mean N/mm <sup>2</sup>	Minimum 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