

Hyne ETP Characteristic Properties



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Characteristic Strengths and Elastic Moduli for Horizontally Laminated Glulam Grades And Hyne LGL 44 (1)

Stress Grades	CHARACTERISTIC STRENGTHS (MPA)				ELASTIC MODULI (MPA)	
	Bending	Tension parallel to grain	Shear in beam	Compression parallel to grain	Short duration average modulus of elasticity parallel to the grain	Short duration average modulus of rigidity for beams
	(Fb')	(Ft')	(Fs')	(Fc')	(E)	(G)
GL21(2)	50	25	5.0	50	21000	1400
GL18	50	25	5.0	50	18500	1230
GL17	42	21	3.7	35	16700	1110
GL13 (LGL 65)	33	16	3.7	33	13300	900
LGL 44(3)	30	16	3.7	30	13300	890
GL12	25	12	3.7	29	11500	770
GL10	22	11	3.7	26	10000	670
GL8	19	10	3.7	24	8000	530

NOTE: Glulam grade designations are based on the modulus of elasticity. Each of the grades may be relevant to specific products. Further information should be sought from appropriate industry associations (www.gltaa.com).

1 All information is accordance with AS1720.1 excluding GL21 and LGL44.

2 GL21 is a non standard GL grade manufactured by Hyne Timber (Hynebeam 21).

3 LGL 44 is a non standard, edge laminated (vertical glulam) GL grade manufactured by Hyne Timber (Hyne LGL 44)

Joint Group, Strength Group and Related Properties for Hyne Beams, Hyne LGL 65 and Hyne LGL 44

Stress grades	Joint group	Strength group	CHARACTERISTIC STRENGTHS (MPA)			
			Bearing		Shear at joints details	Tension perpendicular to grain
			Perpendicular to grain	Parallel to grain		
			(fp')	(fl')	(fsj')	(ftp')
Hyne Beam GL21	JD2	SD2	27	80	10	0.9
Hyne Beam GL18	JD3	SD3	23	70	8.7	0.7
Hyne Beam GL17	JD4	SD5	15	45	6.1	0.6
LGL 65 GL13	JD4	SD6	12	35	5.0	0.6
LGL 44	JD4	SD6	12	35	5.0	0.6

For further information please refer to Australian Standards such as AS1720.1.