

**CHARACTERISTIC STRENGTHS AND ELASTIC MODULI FOR HORIZONTALLY LAMINATED  
GLULAM GRADES**

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
	F <sub>b</sub>	F <sub>t</sub>	F <sub>s</sub>	F <sub>c</sub>	E	G
GL18	50	25	5.0	50	18500	1230
GL17	42	21	3.7	35	16700	1110
GL13	33	16	3.7	33	13300	900
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.

Source : GLTAA