



**TABLE H2.1**

**CHARACTERISTIC VALUES FOR DESIGN—F-GRADES—BENDING AND SHEAR FOR BEAMS, TENSION, COMPRESSION AND ELASTIC MODU-**

Stress grade	Bending ( $f'_b$ )	Tension parallel to grain		Shear in beam ( $f'_s$ )	Compression Tension parallel to grain ( $f'_c$ )	Short duration average modulus of elasticity parallel to the grain, MPa (E)	Short duration average modulus of rigidity, MPa (G)
		Hardwood	Softwood				
		( $f'_t$ )					
F34	84	51	42	6.1	63	21500	1430
F27	67	42	34	5.1	51	18500	1230
F22	55	34	29	4.2	42	16000	1070
F17	42	25	22	3.6	34	14000	930
F14	36	22	19	3.3	27	12000	800
F11	31	18	15	2.8	22	10500	700
F8	22	13	12	2.2	18	9100	610
F7	18	11	8.9	1.9	13	7900	530