

VISUAL STRESS GRADING HARDWOOD AS 2082 2000

SPECIES : mixed Qld. and N.NSW	S 3	F 17	F 14	F 11	F 8
SPECIES : Spotted Gum, Red Ironbark	S 2	F 22	F 17	F 14	F 11
SPECIES : Grey Ironbark	S 1	F 27	F 22	F 17	F 14
SPECIES : Forest Red Gum (Blue Gum)	S 3	F 17	F 14	F 11	F 8
NATURAL CHARACTERISTICS		STRUCTURAL GRADE No. 1	STRUCTURAL GRADE No. 2	STRUCTURAL GRADE No.3	STRUCTURAL GRADE No. 4
Fractures, Splits and Shakes. Exceptional low density. Enclosed Termite Galleries		NOT ALLOWED IN ANY GRADE			
Knots, Branch Stubs, Knot Holes and other Holes (not insect holes) Borer Holes (no decay) up to 3 mm dia. over 3 mm dia. and separated by < 2x dia.		≤1/7 W or T (15% W or T) ≤12 holes per 100 x 100 mm as for knots	≤1/4 W or T (25% W or T) ≤20 holes per 100 x 100 mm as for knots	≤1/3 W or T (33% W or T) unlimited if separated 2 x dia. as for knots	≤3/8 W or T (40% W or T) unlimited if separated 2 x dia. as for knots
Termite Galleries, not enclosed		As for Want & Wane	As for Want & Wane	As for Want & Wane	As for Want & Wane
Slope of Grain		20 in 300 (1 : 15)	30 in 300 (1 : 10)	40 in 300 (1 : 8)	50 in 300 (1 : 6)
Heart & Heart Shakes in < 175 x 175 mm in > 175 x 175 mm		not permitted within middle 1/3 W and T	not permitted within middle 1/3 W and T	not permitted within middle 1/3 W and T	not permitted within middle 1/3 W and T
Tight Gum Veins		aggregate <1.5 L; individual not surface to surface < 1/2 L individual surface to surface < 1/4 L	unlimited	unlimited	unlimited
Loose Gum Veins and Ring Shakes and Included Bark aggregate length intersecting an end surface to surface 3 mm wide, not surface to surface		≤1/10 L not permitted	≤1/6 L not permitted	≤1/4 L as for end splits	≤1/3 L as for end splits
Gum Pockets, Latex Pockets, Resin Pockets, Overgrowth of Injury individual length individual width, measure radially one surface only (lesser of) one surface to another (lesser of) one surface to another & intersecting an end		≤3 W or 300 mm ≤1/4 W or T or 12 mm ≤1/8 W or T or 6 mm as for end splits	≤3 W or 300 mm ≤1/3 W or T or 20 mm ≤1/4 W or T or 12 mm as for end splits	≤3 W or 300 mm ≤1/2 W or T or 25 mm ≤1/3 W or T or 20 mm as for end splits	≤3 W or 300 mm ≤1/2 W or T or 30 mm ≤1/3 W or T or 25 mm as for end splits
End Splits, aggregate length		≤ W or 100 mm	≤ W or 100	≤ 1.5 W or 150	≤ 1.5 W or 150
Checks, other than internal, ≤ 3 mm wide		≤ 1/4 L	≤ 1/3 L	≤ 1/2 L	≤ 1/2 L
Internal Checks, Loss of Cross section		≤1/10	≤ 1/10	≤ 1/10	≤1/10
Primary Rot (decay)		≤ 3 mm deep, ≤ 150 x 100 mm in any 2 m	≤ 3 mm deep, ≤ 150 x 100 mm in any 2 m	≤ 3 mm deep, ≤ 150 x 100 mm in any 2 m	≤ 3 mm deep, ≤ 150 x 100 mm in any 2 m
Want & Wane, Lyctid Susceptible Sapwood individual or aggregate		≤1/10 (10%) cross section ≤1/2 (50%) W or 1/3 (33%) T	≤1/5 (20%) cross section ≤ 1/2 (50%) W or 1/3 (33%) T	≤1/5 (20%) cross section ≤1/2 (50%) W or 1/3 (33%) T	≤1/5 (20%) cross section ≤1/2 (50%) W or 1/3 (33%) T
Hit & Miss, if more than Want & Wane		≤ 3 mm deep, ind. ≤ 600 mm	≤ 3 mm deep, ind. ≤ 600 mm	≤ 3 mm deep, ind. ≤ 600 mm	≤ 3 mm deep, ind. ≤ 600 mm
Bow, Spring and Twist, Cupping		See Bow, Spring and Twist Tables; Cupping: 1 mm per 50 mm W			

S(SD)	1				2				3				4			
	1				2				3				4			
S1(SD1)	F27(F43)	F22(F34)	F17(F27)	F14(F22)	TOLERANCES				APPEARANCE GRADE				SPECIAL STRAIGHTNESS			
S2(SD2)	F22(F34)	F17(F27)	F14(F22)	F11(F17)												
S3(SD3)	F17(F27)	F14(F22)	F11(F17)	F8(F14)	Unseasoned timber (Green) + or - 3 mm				As for grades 1, 2, 3 & 4				For studs, lintels and wall plates: Customer - supplier arrangements.			
S4(SD4)	F14(F22)	F11(F17)	F8(F14)	F7(F11)												
S5(SD5)	F11(F17)	F8(F14)	F7(F11)	F5(F8)	Seasoned timber (S) +5, -0 mm				Not permitted: Loose, unsound & defective knots; Holes > 3 mm;				NOTE: This grading card is for study purposes only, for full details of the grading rules see AS 2802 - 2000.			
S6(SD6)	F8(F14)	F7(F11)	F5(F8)	F4(F7)												
					Sized, as for Green or S ≤2 mm variation				Termite galleries; Loose gum veins & Ring Shakes; Gum pockets, Latex and resin pockets, Overgrowth of injury; Checks > 1 mm;				Decay; Included bark; Primary rot; Want & Wane, Hit & Miss, Lyctid susceptible sapwood; Damage by hooks, ropes, etc.			
					Dressed timber + 2 and - 0 mm											
					Lengths not < ordered											
					Squareness + or - 2 degrees											