

# HARDWOOD FLOORING STANDARD AS 2796

PERMISSIBLE FEATURES in ALL GRADES	
SLOPING GRAIN	40 in 320
BOW, SPRING and TWIST	See tables
CUPPING	× 1 mm per 100 mm W
BURLS	No Limitation
HOB NAILS, BIRDSEYE	No Limitation

*Not Permitted in Any Grade on Any Surface:*  
 Enclosed termite galleries; Heart and Heart shakes; Shakes; Cross-fractures and cross-shakes; Splits and End splits; Decay and primary rot; Lyctid-susceptible sapwood; Loose Gum Veins, Gum Pockets, Overgrowth of Injury, Other pockets from surface to surface or intersecting an end. Holes and knot holes > 10 mm.

*Not Permitted in Any Grade on Any Exposed Surface:*  
 Want and Wane; Mechanical damage; Stain other than natural discolouration; Sticker marks.

	SELECT GRADE	MEDIUM FEATURE GRADE - Standard	HIGH FEATURE GRADE
NON-PERMITTED FEATURES On any exposed surface	Loose knots; Loose Gum Veins, Gum Pockets; Overgrowth of Injury, Knot checks..	Loose knots	

PERMISSIBLE FEATURES	SELECT GRADE	MEDIUM FEATURE GRADE - Standard	HIGH FEATURE GRADE
SAPWOOD	No limitation if Non-susceptible or treated	No limitation if Non-susceptible or treated	No limitation if Non-susceptible or treated
TIGHT KNOTS and associated voids	≤15 mm or 1/4W, ≤1 / any 1M	≤40 mm or 1/3W; ≤1 / any 1M	≤50 mm or 3/8W, ≤1 / any 1M
HOLES, including stained insect holes	≤2 mm dia, 6 per 100x100 mm, ave. ≤12 / 300x300 mm	≤3 mm dia, 20 per 100 x 100, ave. × 30 / 300x300 mm	Pinholes = unlimited ≤3 mm dia: 20 per 100 x 100, ave ≤30 / 300x300 mm. 3 to 10 mm: 3 / any 1 m
TIGHT GUM VEINS Quartersawn	≤2 mm wide, ind. × 250 mm, aggr. ≤1/2L	≤5 mm wide	≤5 mm wide
TIGHT GUM VEINS Backsawn	Not Permitted	≤60 mm wide, ≤1 m in L. ≤2 mm deep, No. unlimited ≤3 mm wide, aggr. ≤1/5 L	≤2 mm deep
LOOSE GUM VEINS	Not Permitted	≤10 x 50 mm; ≤2 mm deep	≤3 mm wide, aggr. ≤1/5 L
GUM POCKETS, OVERGROWTH of INJURY, OTHER POCKETS	Not Permitted	≤2 mm wide	≤15 x 75 mm; ≤2 mm deep
KNOT CHECKS	Not Permitted	≤2 mm wide	≤3 mm wide
CHECKS	≤1 mm wide, ind. ≤250 mm	≤2 mm wide, ind. ≤250 mm	≤2 mm wide
STAINS, natural discolouration	Slight	No Limitation	No Limitation
BLACK SPECK	Slight	No Limitation	No Limitation

This grading card is for study purposes only, for full details of the grading rules see AS 2796-1999.

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TOLERANCES - ALL GRADES	
Overall thickness	+ or - 0.5 mm
Other dimensions in thickness	+ or - 0.3 mm
Mismatch	≤ 0.5 mm
Clearance tongue and groove	≤ 0.6 mm and ≥ 0.3 mm
Dimensions in width, including cover width	+ or - 0.3 mm

MACHINING IMPERFECTIONS and SURFACE FINISH EXPOSED SURFACES - ALL GRADES	
Skip, hit and miss	Once per board, ≤ 0.5 mm deep
Cutter marks	> 10/30mm
Raised grain, ridges, torn grain	≤ 0.5 mm
Chip marks or roller marks	Continuous 1/3 of L unaffected, (≤ 0.5 mm deep)
Pause marks or glazed surfaces	Once per board
Knot chipping	≤ 3 mm wide
Torn corners and edges, gouge, kick out	Not permitted

TONGUE and GROOVE IMPERFECTIONS Short tongue, broken tongue, broken under-groove ALL GRADES	
< 50% of tongue or under-groove missing	Individual ≤ 250 mm Aggregate ≤ 500 mm or ¼ of L (lesser of)
> 50% of tongue or under-groove missing	Individual ≤ 200 mm Aggregate ≤ 250 mm or ¼ of L (lesser of)

ON CONCEALED SURFACES - ALL GRADES	
Natural features	As for High Feature Grade
Went and Wane, Mechanical damage	1/3 of W or T; agg. ≤ 300 mm
Stains and Stickermarks	Unlimited

ALL GRADES									
L in M	BOW		SPRING			TWIST			L in M
	THICKNESS		WIDTH			WIDTH			
	15 mm	19 mm	60 mm	80 mm	130 mm	60 mm	80 mm	130 mm	
1.2	6	5	6	5	4	2	3	5	1.2
1.8	13	11	14	12	8	4	5	8	1.8
2.4	22	19	25	21	15	5	6	10	2.4
3.0	35	30	40	33	23	6	8	13	3.0
3.6	50	45	60	50	33	7	10	16	3.6
4.2	70	60	80	67	48	8	11	18	4.2
4.8	90	75	100	83	58	10	13	21	4.8
5.4	110	95	130	106	73	11	14	23	5.4
6.0	130	110	150	130	90	12	16	26	6.0