

SPECIES, PROPERTIES AND USES

SPECIES TABLES

RECOMMENDED PRACTICE // MARCH 2014

16b

To be read in conjunction with TDS 16a

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15									
Standard Trade Name	Botanical Name	Strength Group	Joint Group		Density (kg/m³)	Hardness (Seasoned kN)	Toughness		Tangential Shrinkage %	% Unit Tangential Movement	#Durability Class (*Termite Resistant)	Bushfire Rated	Colour	Common Uses								Availability varies region by region	
			Unseasoned	Seasoned			Unseasoned	Seasoned						Framing Above Ground-Exposed	Framing Above Ground-Protected	Decking	Cladding	Internal Flooring	Paneling	External Joinery	Internal Joinery		
ash, alpine	Eucalyptus delegatensis	S4	SD4	J3	JD3	5.0	M	M	8.5	0.35	4/3	S	-	W	-	S	-	-	0	0	-	0	R
ash, crows	Flindersia australis	S2	SD3	J1	JD1	11.0	M	M	4.2	-	1/1	S	-	W	-	-	0	-	0	-	-	-	L
ash, mountain	Eucalyptus regnans	S4 S	D3	J3	JD3	4.9	M	M	13.3	0.36	4/3	NS	-	W	-	-	-	0	0	-	0	R	
ash, silvertop	Eucalyptus sieberi	S3	SD3	J2	JD2	9.8	M	M	10.6	0.36	3/2	NS	✓	W-P	-	-	0	-	-	-	-	-	L
balau, yellow (selangan batu)	Shorea spp.	S2	SD3	J2	JD2	-	-	-	7.0	-	2/1	S	-	R	-	0	0	0	0	0	-	-	R
bangkirai	Shorea laevifolia	S3	SD3	-	-	-	-	-	5.0	-	2/2	S	-	W	-	-	-	-	0	0	-	-	L
belian (ulin)	Eusideroxylum zwageri	S1	SD1	-	-	13.0 -	-	-	4.5	-	1/1	NS	-	B	-	-	0	-	-	-	-	-	L
beech, myrtle	Nothofagus cunninghamii	S4	SD5	J3	JD3	5.9	-	-	4.7	0.32	4/3	NS	-	P	-	-	0	0	0	0	-	0	L
bloodwood, red	Corymbia intermedia	S3	SD3	-	-	8.8	-	-	4.0	-	1*/1	S	-	R	0	-	-	-	-	-	-	-	L
blackbutt	Eucalyptus pilularis	S2	SD2	J2	JD2	8.9	M	M	7.3	0.37	2*/1	NS	✓	W	-	0	0	0	0	0	-	-	R
blackbutt, New England	Eucalyptus andrewsii	S3	SD3	J3	JD2	9.2	M	M	11.4	0.36	2*/2	S	-	W	-	-	0	-	0	0	-	-	R
blackbutt, W.A.	Eucalyptus patens	S4	SD5	J2	JD2	6.9	L	L	10.0	-	2/1	S	-	B	-	-	S	0	0	0	0	-	L
blackwood	Acacia melanoxylan	S4	SD4	J3	JD3	4.9	-	-	3.9	0.27	3/-	S	-	B	-	-	0	-	0	0	-	0	R
box, brush	Lophostemon confertus	S3	SD3	J2	JD2	9.1	M	M	9.7	0.38	3*/3	NS	-	B	-	-	-	-	0	0	0	-	L
box, grey coast	Eucalyptus bosistoana	S1	SD1	J1	JD1	13.1	H	H	8.2	0.42	1*/1	S	-	W	0	-	-	0	-	0	-	-	R
brownbarrell	Eucalyptus fastigata	S4	SD4	J3	JD3	5.5	M	M	11.8	0.34	4/3	S	-	W	-	-	0	-	-	-	-	-	L
calantas (kalanatas)	Toona calantas	S6	SD7	-	JD4	-	L	L	7.0	-	2/1	S	-	R	-	-	-	-	-	0	0	0	R
candlebark	Eucalyptus rubida	S5	SD5	J3	JD3	5.9	M	M	12.2	0.34	3/3	S	-	P	-	-	0	-	-	-	-	-	L
cedar, western red	Thuja plicata	S7	SD8	-	JD6	-	L	L	3.0	-	3*/2	NS	-	W-B	-	-	-	-	0	0	0	0	R
cypress	Callitris glaucophylla	S5	SD6	J3	JD3	6.1	L	L	2.5	0.26	2*/1	NS	-	WB	-	0	0	0	0	0	-	-	R
fir, Douglas (oregon)	Pseudotsuga menziesii	S5	SD5	J4	JD4	3.0	L	L	4.0	-	4/4	NS	-	W	-	-	0	-	-	0	-	0	R
gum, blue southern	Eucalyptus globulus	S3	SD3	J2	JD2	11.5	M	M	7.7	0.40	3/2	S	-	W	-	-	0	-	0	0	-	-	R
gum, blue Sydney	Eucalyptus saligna	S3	SD3	J2	JD2	8.1	M	M	9.5	0.35	3/2	S	-	P	-	-	0	-	0	0	-	-	R
gum, grey	Eucalyptus propinqua	S1	SD2	J1	JD1	14.0	M	M	7.0	-	1/1	NS	-	R	0	-	-	-	-	-	-	-	R
gum, grey mountain	Eucalyptus cyclocarpa	S3	SD2	J2	JD2	10.3	M	M	11.9	0.39	3/2	S	-	P	-	-	-	0	0	-	0	R	
gum, mamba	Eucalyptus viminalis	S4	SD4	J3	JD2	5.8	M	M	12.0	0.34	4/3	S	-	P	-	-	-	-	0	0	-	0	R
gum, mountain	Eucalyptus dalrympleana	S4	SD5	J3	JD3	5.7	M	M	11.5	0.35	4/3	S	-	P	-	-	0	-	-	0	-	0	L
gum, red, forest	Eucalyptus tereticornis	S3	SD4	J1	JD1	11.3	M	M	8.6	0.34	1*/1	NS	-	R	0	0	0	0	0	-	-	-	R

Durability Class - Inground/above ground

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																			
Standard Trade Name	Botanical Name	Strength Group		Joint Group		Density (kg/m³)		Hardness (Seasoned kN)	Toughness		Tangential Shrinkage %	#Durability Class (*Termite Resistant)	Lycid Susceptibility	Bushfire Rated	Colour	Common Uses																	
		Unseasoned	Seasoned	Unseasoned	Seasoned	Unseasoned	Seasoned		Unseasoned	Seasoned						In Ground	Framing Above Ground-Exposed	Framing Above Ground-Protected	Decking	Cladding	Internal Flooring	Paneling	External Joinery	Internal Joinery									
gum, river, red	Eucalyptus camaldulensis	S5	SD5	J2	JD2	1150	900	9.7	M	L	8.9	0.31	2*/1	S	✓	R	0	-	0	0	0	0	0	0	-	Availability varies by region							
									M	M	7.5	0.30	3/2	NS	-	P	-	-	0	-	-	0	0	-	-		-	-					
									M	M	12.8	0.33	4/3	S	-	W	-	-	0	-	-	0	-	-	-		-	-					
gum, spotted	Corymbia maculata/ Corymbia citridora	S2	SD2	J1	JD1	1200	1100	10.1	H	H	6.1	0.38	2*/1	S	✓	B	-	0	0	0	0	0	-	0	-	R							
									-	-	6.4	0.39	3/2	NS	-	B	-	-	-	-	0	-	-	-	-	-	-	-					
									L	L	5.0	-	4/4	NS	-	W	-	-	0	-	-	-	-	0	-	-	-	-	-	-	L		
hardwood, Johnstone River	Backhousia bancroftii	S2	SD3	J1	JD1	1150	950	-	-	-	-	6.4	0.39	3/2	NS	-	B	-	-	-	-	-	-	0	-	L							
									S6	SD6	J4	JD4	800	500	2.7	L	L	5.0	-	4/4	NS	-	W	-	-	-	-	-	-	0	-	L	
									S1	SD1	J1	JD1	1250	1100	16.3	H	H	7.5	0.39	1*/1	NS	-	WRB	0	0	0	0	-	-	-	-	-	R
ironbark, red	Eucalyptus sideroxylon	S2	SD3	J1	JD1	1200	1100	11.9	H	M	6.3	0.37	1*/1	S	✓	R	0	0	-	0	-	0	-	-	-	-	R						
									S1	SD1	-	-	-	1220	13.0	-	-	3.0	-	1/1	S	-	RB	0	-	-	-	0	-	-	-	-	L
									S4	SD4	J2	JD2	1100	800	8.5	L	L	7.4	0.30	2*/2	S	-	R	-	-	0	-	0	0	0	0	0	R
ironwood Cooktown	Erythrophleum chlorostgchys	S3	SD4	J2	JD2	1100	750	5.4	L	M	6.0	-	3/2	NS	-	WPR	-	-	0	-	-	-	-	-	-	-	L						
									S3	SD2	J2	JD2	1150	900	9.0	M	M	9.9	0.40	3/2	NS	-	P	-	0	0	-	-	0	0	-	-	R
									S3	SD3	J2	JD2	950	750	4.6	H	H	9.5	-	3/3	S	-	R	P	0	-	-	0	-	-	-	-	L
kwila (merbau)	Intsia bijuga	S2	SD3	J2	JD2	1150	850	8.8	M	M	2.5	-	3*/1	S	✓	R	-	0	0	0	-	0	0	0	0	-	R						
									S5	SD6	-	JD3	-	650	3.2	-	-	4.0	-	3/3	S	-	R	-	-	-	-	-	-	-	0	R	
									S6	SD7	-	JD4	-	550	2.6	-	-	6.5	-	4/4	S	-	W	-	-	-	-	-	0	-	-	-	R
mahogany, Philippine, red, dark	Shorea spp.	S2	SD3	J1	JD1	1200	950	12.0	M	M	6.3	0.34	2*/1	S	-	R	-	0	0	-	-	0	-	-	-	-	L						
									S2	SD3	J2	JD2	1100	900	9.2	M	M	9.8	0.37	3*/2	NS	-	R	-	-	0	-	-	-	-	-	L	
									S2	SD3	J1	JD2	1150	1000	10.1	M	M	5.4	0.34	1*/1	NS	-	W	-	0	0	0	-	-	-	-	-	R
mahogany, southern	Eucalyptus botryoides	S3	SD3	J2	JD2	1150	850	7.1	M	M	6.6	0.34	3/3	S	-	W	-	-	0	-	-	0	0	-	-	-	L						
									S5	SD6	J4	JD3	1100	650	3.5	-	-	5.0	-	4/2	S	-	R	-	-	-	-	-	0	-	0	R	
									S6	SD7	-	JD5	-	400	2.4	-	-	4.4	-	4/3	S	-	P	-	-	-	-	0	-	0	-	0	R
mahogany, white	Eucalyptus acmenoides	S3	SD3	J3	JD3	1100	750	7.4	M	M	11.3	0.36	3/3	S	-	W	-	-	0	-	-	0	0	-	-	-	R						
									S2	SD3	J1	JD1	-	955	-	-	-	6.0	-	1*/1	NS	-	W	0	0	0	-	-	0	-	-	L	
									S6	SD6	-	-	-	750	-	-	-	5.0	-	4/-	S	-	W	-	-	-	-	0	-	0	-	0	L
mahogany, red	Eucalyptus resinifera	S2	SD2	J1	JD1	1200	950	12.0	M	M	6.3	0.34	2*/1	S	-	R	-	-	0	-	-	0	-	-	-	-	L						
									S2	SD3	J2	JD2	1100	900	9.2	M	M	9.8	0.37	3*/2	NS	-	R	-	-	0	-	-	-	-	-	L	
									S2	SD3	J1	JD2	1150	1000	10.1	M	M	5.4	0.34	1*/1	NS	-	W	-	0	0	0	-	-	-	-	-	R
mahogany, Philippine, red, light	Shorea, Pentacme, Parashorea spp.	S2	SD3	J2	JD2	1150	850	7.1	M	M	6.6	0.34	3/3	S	-	W	-	-	0	-	-	0	0	-	-	-	L						
									S5	SD6	J4	JD3	1100	650	3.5	-	-	5.0	-	4/2	S	-	R	-	-	-	-	-	0	-	0	R	
									S6	SD7	-	JD5	-	400	2.4	-	-	4.4	-	4/3	S	-	P	-	-	-	-	0	-	0	-	0	R
mahogany, red	Eucalyptus botryoides	S2	SD3	J3	JD3	1100	750	7.4	M	M	11.3	0.36	3/3	S	-	W	-	-	0	-	-	0	0	-	-	-	R						
									S2	SD3	J1	JD1	-	955	-	-	-	6.0	-	1*/1	NS	-	W	0	0	0	-	-	0	-	-	L	
									S6	SD6	-	-	-	750	-	-	-	5.0	-	4/-	S	-	W	-	-	-	-	0	-	0	-	0	L
mahogany, red, dark	Shorea spp.	S2	SD2	J1	JD1	1145	920	-	M	M	7.0	-	2/2	NS	-	PR	-	-	-	-	-	0	-	-	-	-	R						
									S2	SD2	J1	JD1	-	920	-	-	-	7.0	-	2/2	NS	-	PR	-	-	-	-	-	-	-	-	-	R
									S2	SD2	J1	JD1	-	920	-	-	-	7.0	-	2/2	NS	-	PR	-	-	-	-	-	-	-	-	-	-

Durability Class - Inground/above ground

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15											
Standard Trade Name	Botanical Name	Strength Group	Joint Group		Density (kg/m³)	Hardness (Seasoned kN)	Toughness		Shrinkage %	#Durability Class (*Termite Resistant)	Lyctid Susceptibility	Bushfire Rated	Colour	Common Uses								Availability varies region by region			
			Unseasoned	Seasoned			Unseasoned	Seasoned						In Ground	Framing Above Ground-Exposed	Framing Above Ground-Protected	Decking	Cladding	Internal Flooring	Paneling	External Joinery		Internal Joinery		
peppermint, narrow-leaved	Eucalyptus australiana	S4	SD4	J3	JD2	1100	800	7.5	L	L	13.2	0.36	4/3	S	-	P	-	-	-	-	-	-	-	-	L
pine, caribbean	Pinus caribaea	S6	SD6	J4	JD4	-	550	-	-	-	5.0	3.4	4/4	NS	-	W	P	P	P	0	0	P	-	-	R
pine, hoop (Araucaria)	Araucaria cunninghamii	S6	SD5	J4	JD4	800	550	3.4	L	L	3.8	0.23	4/4	NS	-	W	P	P	P	0	0	P	0	P	R
pine, radiata	Pinus radiata	S6	SD6	J4	JD4	800	550	3.3	M	L	5.1	0.27	4/4	NS	-	W	P	P	P	0	0	P	0	P	R
pine, slash	Pinus elliotii	S5	SD5	J4	JD4	850	650	3.4	L	L	4.2	0.30	4/4	NS	-	W	P	P	P	0	0	P	0	P	R
ramin	Gonystylus spp.	S4	SD4	-	JD3	-	650	5.8	-	-	5.5	-	4/-	S	-	W	-	-	-	0	0	-	0	-	L
sacau (Northern Box)	Palaquium hornei	S3	SD2	J2	JD2	1010	890	-	M	M	6.4	-	2/2	S	-	PR	-	-	-	0	0	0	-	-	R
stringybark, Blackdown	Eucalyptus spheroarpa	S3	SD3	J1	JD1	-	1000	-	-	-	7.0	-	2*/1	S	-	B	-	0	-	0	-	-	-	-	L
stringbark, brown	Eucalyptus baxteri	S3	SD3	J2	JD2	1100	850	7.5	M	M	10.4	0.33	3/2	NS	-	B	-	-	0	-	0	-	-	-	L
stringbark, white	Eucalyptus eugenioides	S3	SD3	J2	JD2	1100	1000	9.0	M	M	10.6	0.36	2*/2	NS	-	P	-	-	0	-	0	-	-	-	L
stringbark, yellow	Eucalyptus muellerana	S3	SD3	J2	JD2	1150	900	8.6	M	M	7.5	0.37	3*/2	NS	-	W	-	-	0	-	0	-	-	-	R
tallowwood	Eucalyptus microcorys	S2	SD2	J1	JD2	1200	1000	8.6	M	M	6.1	0.37	1*/1	S	-	W	0	0	0	0	0	-	-	-	L
taun	Pometia pinnata	S4	SD4	-	JD3	-	700	-	-	-	5.5	-	3/2	S	-	R	-	-	0	-	0	0	-	-	R
turpentine	Syncarpia glomulifera	S3	SD3	J2	JD2	1050	950	11.6	M	M	13.0	0.35	2*/1	NS	✓	PB	0	-	0	-	0	-	-	-	L

Commercial Species Groups

ash, Victorian oak, Australian oak, Tasmanian	Eucalyptus spp.	S4	SD4	J3	JD3	1050	650	4.9	M	M	13.3	0.36	4/4	S	-	W	-	0	0	-	0	R
hardwood, mixed (Qld/Nth. NSW)	Eucalyptus spp. Corymbia spp.	S3	SD3	J2	JD2	1150	750	-	M	M	-	-	3/2	S	-	WPRB	-	0	0	-	-	R
softwoods, mixed Australian grown	pinus spp.	-	SD7	-	JD4	850	550	-	L	L	-	-	4/4	NS	-	W	-	0	0	-	-	R
softwoods, imported (unidentified)	mixed spp.	S7	SD8	J6	JD6	850	400	-	L	L	-	-	4/5	NS	-	W	-	0	0	-	-	R
hemfir	mixed spp.	-	SD7	-	JD5	-	-	-	L	L	-	-	4/4	NS	-	W	-	0	0	-	-	R
Spruce pine fir (SPF)	mixed spp.	-	SD7	-	JD6	-	-	-	L	L	-	-	4/4	NS	-	W	-	0	0	-	-	R

Durability Class – Inground/above ground



TIMBER QUEENSLAND
We build Queensland

Timber Queensland Limited

ACN 092 686 756 | ABN 50 092 686 756

500 Brunswick Street, Fortitude Valley
Brisbane Queensland 4006

Phone (07) 3254 1989

Fax (07) 3358 7999

PO Box 2014, Fortitude Valley BC Qld 4006

admin@timberqueensland.com.au

www.timberqueensland.com.au

Whilst every effort is made to ensure the accuracy of advice given, Timber Queensland Limited cannot accept liability for loss or damage arising from the use of the information supplied.