



Innovative Timber Ideas

# MERBAU

[www.itimerbau.com.au](http://www.itimerbau.com.au)

POSTS, BEAMS & PROFILES  
ENGINEERED MERBAU  
BAL 29 BUSH FIRE RESISTING  
GLTAA APPROVED



Innovative Timber Ideas

# ITI

# (Aust)

[itiaustralia.com.au](http://itiaustralia.com.au)



# USING MERBAU, ONE OF THE **TOUGHEST** BUILDING MATERIALS AVAILABLE,

ITI's Finger Jointed Glulam Merbau has been designed to give you the ultimate in strength, durability and great looks. Merbau (Kwila) is a natural reddish-brown colour which can be clear coated or painted depending on your needs.

Using Finger Jointed Glue Lamination methods perfected over 50 years, ITI Merbau is produced to create spans that only Glue Laminated products can achieve. The adhesive systems used are all service class 3 for external above ground applications giving excellent bond strength that you can count on.

## VERSATILITY & **QUALITY**

ITI Merbau is manufactured to the highest of standards and passes the GLTAA (Glued Laminated Timber Association of Australia) product certification process. Each and every piece conforms to Australian & New Zealand Standard 1328 (AS/NZS 1328) and is identifiable by either a label or stamp with the GLTAA logo. ITI Merbau contains natural resistance to termites and seasons well with kiln or air-drying, which creates durable posts and beams with very little shrinkage or movement.



## MERBAU IS A **NATURAL** PRODUCT

Merbau like all timbers will react to climatic changes during its service life. We attempt to minimise the effect these changes may have on the appearance of the product but resin bleed, raised grain or uneven swelling may occur as a result of climatic conditions.

To reduce the risks we recommend the use of protective finishes to enhance the appearance and improve the service life of the product. Protective finishes will prolong the service life of finger jointed and laminated Merbau by limiting the effects UV light has on the product, reducing moisture ingress and aiding with the dimensional stability of the product.



# WHEN STRENGTH MATTERS

Increased strength is one of many benefits due to the laminating process - the smaller members known as laminates are machine finger-jointed using a service class 3 glue creating a straight, rigid beam or post for years to come. The glue used in the laminating process is Phenol Resorcinol Formaldehyde and is considered the industry standard for structural engineered wood applications. A high degree of dimensional stability is also provided as glulam Merbau is manufactured from seasoned timber and is therefore less prone to movement caused by changes in moisture content. It is recommended however that the timber is coated.

Accredited span tables are also available for applications such as Verandah & Roof Beams, Rafters, Floor Joists & Posts.

FLOOR JOISTS				FLOOR BEARERS			
<b>Loads</b>	Roof 0.4 kPa Live Load 2.0 kPa LS 1kN	<b>Deflection limits</b>	Short term: span/120 or 12mm Long term: span/250 or 9mm 2mm for 50kPa point load	<b>Loads</b>	Roof 0.4 kPa Live Load 4.0 kPa LS 1kN	<b>Deflection limits</b>	Short term: span/120 or 12mm Long term: span/250 or 9mm 2mm
<b>2.00kPa Wet Use - With Ceiling Single Span GL17</b>				<b>2.00kPa Wet Use Single Span GL17</b>			
<b>40mm Beams</b>				<b>40mm Beams</b>			
Joist Size	400	450	500	Verandah Width - 1000mm	1200	1600	2000
10 x 40	1000	1200	1500	10 x 40	1000	1200	1500
10 x 42	1200	1500	1800	10 x 42	1000	1200	1500
10 x 44	1400	1800	2200	10 x 44	1000	1200	1500
10 x 46	1600	2000	2500	10 x 46	1000	1200	1500
10 x 48	1800	2200	2800	10 x 48	1000	1200	1500
10 x 50	2000	2500	3000	10 x 50	1000	1200	1500
10 x 52	2200	2800	3500	10 x 52	1000	1200	1500
10 x 54	2400	3000	4000	10 x 54	1000	1200	1500
10 x 56	2600	3200	4500	10 x 56	1000	1200	1500
10 x 58	2800	3500	5000	10 x 58	1000	1200	1500
10 x 60	3000	3800	5500	10 x 60	1000	1200	1500
10 x 62	3200	4000	6000	10 x 62	1000	1200	1500
10 x 64	3400	4200	6500	10 x 64	1000	1200	1500
10 x 66	3600	4500	7000	10 x 66	1000	1200	1500
10 x 68	3800	4800	7500	10 x 68	1000	1200	1500
10 x 70	4000	5000	8000	10 x 70	1000	1200	1500
10 x 72	4200	5200	8500	10 x 72	1000	1200	1500
10 x 74	4400	5500	9000	10 x 74	1000	1200	1500
10 x 76	4600	5800	9500	10 x 76	1000	1200	1500
10 x 78	4800	6000	10000	10 x 78	1000	1200	1500
10 x 80	5000	6200	10500	10 x 80	1000	1200	1500
10 x 82	5200	6500	11000	10 x 82	1000	1200	1500
10 x 84	5400	6800	11500	10 x 84	1000	1200	1500
10 x 86	5600	7000	12000	10 x 86	1000	1200	1500
10 x 88	5800	7200	12500	10 x 88	1000	1200	1500
10 x 90	6000	7500	13000	10 x 90	1000	1200	1500
10 x 92	6200	7800	13500	10 x 92	1000	1200	1500
10 x 94	6400	8000	14000	10 x 94	1000	1200	1500
10 x 96	6600	8200	14500	10 x 96	1000	1200	1500
10 x 98	6800	8500	15000	10 x 98	1000	1200	1500
10 x 100	7000	8800	15500	10 x 100	1000	1200	1500
10 x 102	7200	9000	16000	10 x 102	1000	1200	1500
10 x 104	7400	9200	16500	10 x 104	1000	1200	1500
10 x 106	7600	9500	17000	10 x 106	1000	1200	1500
10 x 108	7800	9800	17500	10 x 108	1000	1200	1500
10 x 110	8000	10000	18000	10 x 110	1000	1200	1500
10 x 112	8200	10200	18500	10 x 112	1000	1200	1500
10 x 114	8400	10500	19000	10 x 114	1000	1200	1500
10 x 116	8600	10800	19500	10 x 116	1000	1200	1500
10 x 118	8800	11000	20000	10 x 118	1000	1200	1500
10 x 120	9000	11200	20500	10 x 120	1000	1200	1500
10 x 122	9200	11500	21000	10 x 122	1000	1200	1500
10 x 124	9400	11800	21500	10 x 124	1000	1200	1500
10 x 126	9600	12000	22000	10 x 126	1000	1200	1500
10 x 128	9800	12200	22500	10 x 128	1000	1200	1500
10 x 130	10000	12500	23000	10 x 130	1000	1200	1500
10 x 132	10200	12800	23500	10 x 132	1000	1200	1500
10 x 134	10400	13000	24000	10 x 134	1000	1200	1500
10 x 136	10600	13200	24500	10 x 136	1000	1200	1500
10 x 138	10800	13500	25000	10 x 138	1000	1200	1500
10 x 140	11000	13800	25500	10 x 140	1000	1200	1500
10 x 142	11200	14000	26000	10 x 142	1000	1200	1500
10 x 144	11400	14200	26500	10 x 144	1000	1200	1500
10 x 146	11600	14500	27000	10 x 146	1000	1200	1500
10 x 148	11800	14800	27500	10 x 148	1000	1200	1500
10 x 150	12000	15000	28000	10 x 150	1000	1200	1500
10 x 152	12200	15200	28500	10 x 152	1000	1200	1500
10 x 154	12400	15500	29000	10 x 154	1000	1200	1500
10 x 156	12600	15800	29500	10 x 156	1000	1200	1500
10 x 158	12800	16000	30000	10 x 158	1000	1200	1500
10 x 160	13000	16200	30500	10 x 160	1000	1200	1500
10 x 162	13200	16500	31000	10 x 162	1000	1200	1500
10 x 164	13400	16800	31500	10 x 164	1000	1200	1500
10 x 166	13600	17000	32000	10 x 166	1000	1200	1500
10 x 168	13800	17200	32500	10 x 168	1000	1200	1500
10 x 170	14000	17500	33000	10 x 170	1000	1200	1500
10 x 172	14200	17800	33500	10 x 172	1000	1200	1500
10 x 174	14400	18000	34000	10 x 174	1000	1200	1500
10 x 176	14600	18200	34500	10 x 176	1000	1200	1500
10 x 178	14800	18500	35000	10 x 178	1000	1200	1500
10 x 180	15000	18800	35500	10 x 180	1000	1200	1500
10 x 182	15200	19000	36000	10 x 182	1000	1200	1500
10 x 184	15400	19200	36500	10 x 184	1000	1200	1500
10 x 186	15600	19500	37000	10 x 186	1000	1200	1500
10 x 188	15800	19800	37500	10 x 188	1000	1200	1500
10 x 190	16000	20000	38000	10 x 190	1000	1200	1500
10 x 192	16200	20200	38500	10 x 192	1000	1200	1500
10 x 194	16400	20500	39000	10 x 194	1000	1200	1500
10 x 196	16600	20800	39500	10 x 196	1000	1200	1500
10 x 198	16800	21000	40000	10 x 198	1000	1200	1500
10 x 200	17000	21200	40500	10 x 200	1000	1200	1500
10 x 202	17200	21500	41000	10 x 202	1000	1200	1500
10 x 204	17400	21800	41500	10 x 204	1000	1200	1500
10 x 206	17600	22000	42000	10 x 206	1000	1200	1500
10 x 208	17800	22200	42500	10 x 208	1000	1200	1500
10 x 210	18000	22500	43000	10 x 210	1000	1200	1500
10 x 212	18200	22800	43500	10 x 212	1000	1200	1500
10 x 214	18400	23000	44000	10 x 214	1000	1200	1500
10 x 216	18600	23200	44500	10 x 216	1000	1200	1500
10 x 218	18800	23500	45000	10 x 218	1000	1200	1500
10 x 220	19000	23800	45500	10 x 220	1000	1200	1500
10 x 222	19200	24000	46000	10 x 222	1000	1200	1500
10 x 224	19400	24200	46500	10 x 224	1000	1200	1500
10 x 226	19600	24500	47000	10 x 226	1000	1200	1500
10 x 228	19800	24800	47500	10 x 228	1000	1200	1500
10 x 230	20000	25000	48000	10 x 230	1000	1200	1500
10 x 232	20200	25200	48500	10 x 232	1000	1200	1500
10 x 234	20400	25500	49000	10 x 234	1000	1200	1500
10 x 236	20600	25800	49500	10 x 236	1000	1200	1500
10 x 238	20800	26000	50000	10 x 238	1000	1200	1500
10 x 240	21000	26200	50500	10 x 240	1000	1200	1500
10 x 242	21200	26500	51000	10 x 242	1000	1200	1500
10 x 244	21400	26800	51500	10 x 244	1000	1200	1500
10 x 246	21600	27000	52000	10 x 246	1000	1200	1500
10 x 248	21800	27200	52500	10 x 248	1000	1200	1500
10 x 250	22000	27500	53000	10 x 250	1000	1200	1500
10 x 252	22200	27800	53500	10 x 252	1000	1200	1500
10 x 254	22400	28000	54000	10 x 254	1000	1200	1500
10 x 256	22600	28200	54500	10 x 256	1000	1200	1500
10 x 258	22800	28500	55000	10 x 258	1000	1200	1500
10 x 260	23000	28800	55500	10 x 260	1000	1200	1500
10 x 262	23200	29000	56000	10 x 262	1000	1200	1500
10 x 264	23400	29200	56500	10 x 264	1000	1200	1500
10 x 266	23600	29500	57000	10 x 266	1000	1200	1500
10 x 268	23800	29800	57500	10 x 268	1000	1200	1500
10 x 270	24000	30000	58000	10 x 270	1000	1200	1500
10 x 272	24200	30200	58500	10 x 272	1000	1200	1500
10 x 274	24400	30500	59000	10 x 274	1000	1200	1500
10 x 276	24600	30800	59500	10 x 276	1000	1200	1500
10 x 278	24800	31000	60000	10 x 278	1000	1200	1500
10 x 280	25000	31200	60500	10 x 280	1000	1200	1500
10 x 282	25200	31500	61000	10 x 282	1000	1200	1500
10 x 284	25400	31800	61500	10 x 284	1000	1200	1500

Sizes

Grade

Finish

Available lengths

**POSTS**

95x95	GL13	F/J Laminated	2.4, 3.0, 3.6, 4.8, 5.4, 6.0m
120x120	GL13	F/J Laminated	2.4, 3.0, 3.6, 4.8, 5.4, 6.0m
140x140	GL13	F/J Laminated	3.0, 3.6, 4.8, 5.4, 6.0m
190x190	GL13	F/J Laminated	3.6, 4.8, 6.0m

**BEAMS**

70x32	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
90x32	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
140x35	GL17	F/J Laminated	3.6, 4.8, 6.0m
190x35	GL17	F/J Laminated	3.6, 4.8, 6.0m
240x35	GL17	F/J Laminated	3.6, 4.8, 6.0m
290x35	GL17	F/J Laminated	3.6, 4.8, 6.0m
70x42	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
90x42	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
120x42	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
140x42	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
190x42	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
240x42	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
290x42	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
190x65	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8m
240x65	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8m
265x65	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8m
290x65	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8m
330x65	GL17	F/J Laminated	4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8m
240x80	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8m
265x80	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8m
290x80	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8m
330x80	GL17	F/J Laminated	4.2, 4.8, 5.4, 6.0, 6.6, 7.2, 7.8m

**Non-Structural**

18mm		F/J Quad	5.4m
30mm		F/J Scotia	5.4m
42x10		F/J Cover Strip	5.4m
42x19		F/J DAR	5.4m
42x32		F/J DAR	5.4m
42x42		F/J DAR	2.7, 5.4m
66x30		F/J Lattice Surround	3.0m
90x42		F/J DAR Handrail	3.0, 3.6, 4.8, 6.0m
140x42		F/J DAR Handrail	3.6, 4.8, 6.0m
188x30		F/J Fascia	4.8, 5.4, 6.0m