



Innovative Timber Ideas

MERBAU

www.itimerbau.com.au

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



Innovative Timber Ideas

ITI

(Aust)

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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									
Loads	Roof 0.4 kPa Live Load 2.0 kPa LR 1kN	Deflection limits	Short term: span/120 or 12mm Long term: span/200 or 9mm 2mm for 50kPa point load	Loads	Roof 0.4 kPa Live Load 4.0 kPa LR 1kN	Deflection limits	Short term: span/120 or 12mm Long term: span/200 or 9mm 2mm						
2.00kPa Wet Use - With Ceiling Single Span GL17				2.00kPa Wet Use Single Span GL17									
40mm Beams				40mm Beams									
Joist Size	400	450	500	Span (mm)	1200	1800	2400	3000	3600	4200	4800	5400	6000
100 x 40	1000	1200	1300	100 x 40	1000	1500	2000	2500	3000	3500	4000	4500	5000
120 x 40	1200	1400	1500	120 x 40	1200	1800	2400	3000	3600	4200	4800	5400	6000
140 x 40	1400	1600	1700	140 x 40	1400	2100	2800	3500	4200	4900	5600	6300	7000
160 x 40	1600	1800	1900	160 x 40	1600	2400	3200	4000	4800	5600	6400	7200	8000
180 x 40	1800	2000	2100	180 x 40	1800	2700	3600	4500	5400	6300	7200	8100	9000
200 x 40	2000	2200	2300	200 x 40	2000	3000	4000	5000	6000	7000	8000	9000	10000
220 x 40	2200	2400	2500	220 x 40	2200	3300	4400	5500	6600	7700	8800	9900	11000
240 x 40	2400	2600	2700	240 x 40	2400	3600	4800	6000	7200	8400	9600	10800	12000
260 x 40	2600	2800	2900	260 x 40	2600	3900	5200	6500	7800	9100	10400	11700	13000
280 x 40	2800	3000	3100	280 x 40	2800	4200	5600	7000	8400	9800	11200	12600	14000
300 x 40	3000	3200	3300	300 x 40	3000	4500	6000	7500	9000	10500	12000	13500	15000
65mm Beams				65mm Beams									
Joist Size	400	450	500	Span (mm)	1200	1800	2400	3000	3600	4200	4800	5400	6000
100 x 65	1000	1200	1300	100 x 65	1000	1500	2000	2500	3000	3500	4000	4500	5000
120 x 65	1200	1400	1500	120 x 65	1200	1800	2400	3000	3600	4200	4800	5400	6000
140 x 65	1400	1600	1700	140 x 65	1400	2100	2800	3500	4200	4900	5600	6300	7000
160 x 65	1600	1800	1900	160 x 65	1600	2400	3200	4000	4800	5600	6400	7200	8000
180 x 65	1800	2000	2100	180 x 65	1800	2700	3600	4500	5400	6300	7200	8100	9000
200 x 65	2000	2200	2300	200 x 65	2000	3000	4000	5000	6000	7000	8000	9000	10000
220 x 65	2200	2400	2500	220 x 65	2200	3300	4400	5500	6600	7700	8800	9900	11000
240 x 65	2400	2600	2700	240 x 65	2400	3600	4800	6000	7200	8400	9600	10800	12000
260 x 65	2600	2800	2900	260 x 65	2600	3900	5200	6500	7800	9100	10400	11700	13000
280 x 65	2800	3000	3100	280 x 65	2800	4200	5600	7000	8400	9800	11200	12600	14000
300 x 65	3000	3200	3300	300 x 65	3000	4500	6000	7500	9000	10500	12000	13500	15000

ITl Merbau span table booklet
Download your copy now at www.itimerbau.com.au

MAINTENANCE AND CARE

ITl Merbau should be kept dry and protected from moisture before installation. This is to prevent resin bleed and prolong the appearance of your Merbau. If resin bleed does occur, lightly sand the affected area(s) before coating. It is recommended that ITl Merbau is coated with a protective finish to enhance the appearance and improve the service life of the product. Two initial coats followed by yearly coats will not only protect you Merbau's performance but will also keep it looking great for years to come. When using stainless steel balustrading it is recommended that bolt type fixing is used rather than screw and buckle type fixings which can cause de-lamination.



Bush fire protection

ITl Merbau is bush fire resisting to BAL 29 (as per AS 3959) to give you an added piece of mind when building in bush fire prone areas.



AVAILABLE IN A WIDE RANGE OF POST, BEAM AND NON-STRUCTURAL SIZES

Sizes	Grade	Finish	Available lengths
POSTS			
90 x 90mm	GL13	F/J Laminated	2.4, 2.7, 3.0, 3.6, 4.8, 5.4, 6.0m
115 x 115mm	GL13	F/J Laminated	2.4, 2.7, 3.0, 3.6, 4.8, 5.4, 6.0m
140 x 140mm	GL13	F/J Laminated	2.4, 2.7, 3.0, 3.6, 4.8, 5.4, 6.0m
190 x 190mm	GL13	F/J Laminated	2.4, 2.7, 3.0, 3.6, 4.8, 5.4, 6.0m

BEAMS			
190 x 30mm	GL17	F/J Laminated	6.0m
70 x 42mm	GL17	F/J Laminated	5.4, 6.0m
90 x 42mm	GL17	F/J Laminated	3.6, 4.8, 5.4, 6.0, 7.2m
140 x 42mm	GL17	F/J Laminated	3.6, 4.8, 6.0, 7.2m
190 x 42mm	GL17	F/J Laminated	3.6, 4.8, 6.0, 7.2m
240 x 42mm	GL17	F/J Laminated	3.6, 4.8, 6.0, 7.2m
290 x 42mm	GL17	F/J Laminated	3.6, 4.8, 6.0, 7.2m
140 x 65mm	GL17	F/J Laminated	3.6, 4.8, 6.0, 7.2m
190 x 65mm	GL17	F/J Laminated	3.6, 4.8, 6.0, 7.2m
240 x 65mm	GL17	F/J Laminated	3.6, 4.8, 6.0, 7.2m
290 x 65mm	GL17	F/J Laminated	3.6, 4.8, 6.0, 7.2m

Non-Structural

66 x 18mm	F/J DAR	5.4m
42 x 30mm	F/J DAR	5.4m
42 x 10mm	F/J Cover Strip	5.4m
18 x 18mm	F/J Quad	5.4m
30 x 30mm	F/J Scotia	5.4m

Decking

90 x 19mm	F/J DAR	5.7m
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