



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

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

ProLam 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, ProLam 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.



Look for the
blue ends.

I VERSATILITY & **QUALITY**

ProLam is manufactured to the highest of standards and manufacturing plants are GLTAA (Glued Laminated Timber Association of Australia) endorsed. Each and every piece conforms to Australian & New Zealand Standard 1328 (AS/NZS 1328) and is identifiable by a label with the GLTAA logo so you know you are purchasing the genuine article. ProLam 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.

I 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.



I WHEN STRENGTH MATTERS

ProLam products feature increased strength due to the laminating process - glulam is stronger than solid timber as it has fewer natural defects and a wider distribution. It is also comparable to steel in strength but is much lighter. The adhesive 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		Deflection limits		Loads		Deflection limits	
Roof	0.4 kPa	Short term	span/200 or 12mm	Roof	0.4 kPa	Short term	span/200 or 12mm
Live	2.0 kPa	Long term	span/300 or 8mm	Live	4.0 kPa	Long term	span/300 or 8mm
	1.8 kN	2mm for each point load			1.8 kN	2mm	
2.00kPa Wet Use - With Ceiling Single Span GL17				2.00kPa Wet Use Single Span GL17			
43mm Beams				43mm Beams			
Joist Size	400	450	600	Span (mm)	1000	1500	2000
100 x 42	200	1200	1200	1500	800	800	750
150 x 42	170	1200	1200	2000	750	800	800
200 x 42	1400	2300	3300	2500	700	800	800
300 x 42	600	3800	3300	3000	650	800	800
400 x 42	450	4800	4300	3500	600	800	800
500 x 42	360	5300	4900	4000	550	800	800
65mm Beams				65mm Beams			
Joist Size	400	450	600	Span (mm)	1000	1500	2000
100 x 65	240	1200	1200	1500	800	800	750
150 x 65	170	1200	1200	2000	750	800	800
200 x 65	1400	2300	3300	2500	700	800	800
300 x 65	600	3800	3300	3000	650	800	800
400 x 65	450	4800	4300	3500	600	800	800
500 x 65	360	5300	4900	4000	550	800	800

ProLam span table booklet
Download your copy now at www.prolam.com.au

I MAINTENANCE AND CARE

ProLam 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 prolam products have coated with a protective finish applied to enhance the appearance and improve the service life of the product. Two coats should be applied within 30 days of installation followed by annual applications will continue to protect the prolam products when exposed to the weather. Regular maintenance of cleaning and applications of protective finishes will keep prolam products looking good 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.

I BUSH FIRE PROTECTION

ProLam is a bush fire resisting timber for BAL 29 (as per AS 3959) applications to give you an added piece of mind when building in bush fire prone areas.



For more information visit www.prolam.com.au

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, 4.2, 4.8, 5.4, 6.0m
115 x 115mm	GL13	F/J Laminated	2.4, 2.7, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0m
135 x 135mm	GL13	F/J Laminated	2.4, 2.7, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0m
115 x 115mm	GL13	Solid Faced Veneer	2.4, 2.7, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0m
140 x 140mm	GL13	Solid Faced Veneer	2.4, 2.7, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0m
190 x 190mm	GL13	Solid Faced Veneer	2.4, 2.7, 3.0, 3.6, 4.2, 4.8, 5.4, 6.0m
Beams			
70 x 32mm	GL17	F/J Laminated	5.4, 6.0m
70 x 42mm	GL17	F/J Laminated	6.0m
90 x 42mm	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
140 x 42mm	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
190 x 42mm	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
240 x 42mm	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
290 x 42mm	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
140 x 65mm	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
190 x 65mm	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
240 x 65mm	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
290 x 65mm	GL17	F/J Laminated	3.6, 4.2, 4.8, 5.4, 6.0m
Non-Structural			
18 x 18mm		F/J Quad	5.4m
30 x 11mm		F/J DAR	5.4m
30 x 18mm		F/J DAR	5.4m
30 x 30mm		F/J Scotia	5.4m
620 x 30mm		F/J Laminated DAR Benchtop	4.2m
Decking / Screening			
70 x 19mm		F/J DAR	5.4m
90 x 19mm		F/J DAR	5.4m
Hand Rail & Bottom Rails coming soon			

For more information please contact your ITI Rep or your local ITI office.

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