

31 August 2011

File: 11-0272

(Please quote this number when calling the office to minimise delays on the phone)

**Attn: Kim Simpson**

**Simpson Woodstock Pty Ltd**

**Email:** [kim@simpsonwoodstock.com](mailto:kim@simpsonwoodstock.com)

**cc:** [chris@pacificwood.com.au](mailto:chris@pacificwood.com.au)

Ref: Certification for Merbau and Kwila Glued Laminated Beams, manufactured by  
ETH Enterprise Pte Ltd and distributed here in Australia

Dear Kim,

The final design values that we recommend for the Australian market are listed in the tables below, based on the two grades that we have pre-qualified, GL13 and GL17. We have also carried out all designs for the span tables for their use in Australia, and we have checked the literature to which this letter is attached.

These Merbau and Kwila beams are manufactured as suitable for use in Service Classes, 1, 2 and 3 in accordance with AS/NZS 1328 – 1998, and therefore can be used in exterior locations above and not in contact with the ground.

Grade	Bending	Tension	Compression Parallel to Grain	Beam Shear	Elasticity Parallel to grain	Modulus of Rigidity for Beams	Bearing Perpendicular to Grain
	$f'_b$	$f'_t$	$f'_c$	$f'_s$	$E$	$G$	$f'_p$
GL17	40	20	33	4.2	16700	1110	23
GL13	33	16	26	4.2	13300	900	23

Standards used in the development of the Span Table Guide are:

- AS1720.1-2010 Timber Design Code
- AS/NZS 1170 series – Loading Codes
- AS 1684.2, .3 – 2010 Residential Timber-framed Construction
- AS 4055-2006 Wind Loads for Housing

Therefore, I am satisfied that the characteristic values, with all products included in this guide, and the items installed and connected in accordance with the requirements laid out throughout this guide, will comply with the requirements of the Building Code of Australia, and Australian building practice.

Should you require any further information, or confirmation of any of the above matters, please do not hesitate to contact me at any time.

**Yours faithfully,**  
**HUNT ROBINSON Pty Ltd**




**Stephen John Hunt BEng (Civil), CPEng**  
(MIEAust #368737), (RPEQ #3731), NPER

**Directors:**

Stephen Hunt  
Janette Hunt

**Engineering:**

Craig Doherty  
Benjamin Winning  
Jake Kerswill  
Anthony Coughlan

**Building Design:**

Brad Hunt  
James Overitt

**Software:**

James Overitt

**Administration:**

Carolyn Foot  
Leisa Skehan

**Reply to: -**

PO Box 103,  
Buddina, Q, 4575.

**Office at: -**

4/40 Technology Dr,  
Warana, Q, 4575.

Telephone:  
(07) 5493 2677  
Facsimile:  
(07) 5493 1816

**Email: -**

engineers@  
hrdesigngroup.com.au

**Web site: -**

www.hrdesigngroup.com.  
au