

# THE MARRON CONSULTANCY

ABN 96 276 451 253  
 4/168 Beecroft Road, Cheltenham, NSW 2119  
 Phone/Fax +61 2 9868 5351 — Mobile 0408 335 558  
 Email: [crawd@bigpond.net.au](mailto:crawd@bigpond.net.au)

## CERTIFICATE

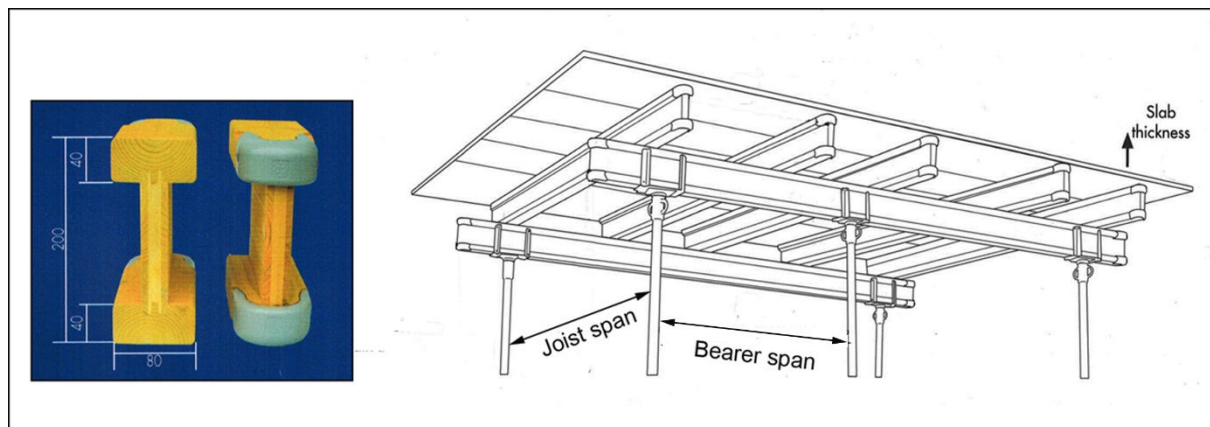
**Date:** 27 October 2016

**Client:** Auswood International Pty Ltd  
 Unit 6, 4-20 Violet St,  
 Revesby, NSW 2212

**Project:** Timber beams used as joists and bearers for concrete soffits

**Preliminary:**

Testing was carried out to a test protocol prepared by the undersigned. Tests were carried out by Mahaffey Associates Pty Ltd. Unit 9/108-110 Percival Road, Smithfield, NSW 2164 during October 2016.



**JOISTS**

Joists at 300 mm centres	150 mm slab	300 mm slab	450 mm slab	600 mm slab
Joist span 1.5 m	Class 2	Class 2	Class 2	Class 2
Joist span 2.0 m	Class 2	Class 2	Class 3	Class 3
Joist span 2.5 m	Class 2	Class 2	Class 3	Class 3
Joists at 450 mm centres				
Joist span 1.5 m	Class 2	Class 2	Class 3	Class 3
Joist span 2.0 m	Class 3	Class 3	Class 3	Class 3
Joist span 2.5 m	Class 3	Class 3	Class 3	Class 3
Joists at 600 mm centres				
Joist span 1.5 m	Class 3	Class 3	Class 3	NA
Joist span 1.5 m	Class 3	Class 3	NA	NA
Joist span 1.5 m	Class 3	Class 3	NA	NA

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Joists performance in the table above have been evaluated against the requirements of AS 3610.1—2010, Table 3.3.2 for form face deflections where:

Class 2 — Lesser of 3 mm or span/270

Class 3 — Span/270 — where 1.5 m span = 5.55 mm  
2.0 m span = 7.40 mm  
2.5 m span = 9.25 mm

### BEARERS

The expected bearer deflections in the table below have been calculated from the test results and allowing for a 1 kPa live load during placing of concrete.

	Joist span	Slab thickness			
		150 mm	300 mm	450 mm	600 mm
Bearer span 1.5 m	1.5 m	span/500	span/400	span/270	span/270
	2.0 m	span/500	span/270	NA	NA
	2.5 m	span/500	span/270	NA	NA
Bearer span 2.0 m	1.5 m	span/400	span/270	NA	NA
	2.0 m	span/270	NA	NA	NA
	2.5 m	NA	NA	NA	NA
Bearer span 2.5 m	1.5 m	NA	NA	NA	NA
	2.0 m	NA	NA	NA	NA
	2.5 m	NA	NA	NA	NA
Bearer span 3.0 m	1.5 m	NA	NA	NA	NA
	2.0 m	NA	NA	NA	NA
	2.5 m	NA	NA	NA	NA

The testing was witnessed by the undersigned and the results are certified to represent the test results.



D. W. Crawford BE (UNSW), ASTC, MIEAust, NER, RPEQ