



W E S P I N E

INDUSTRIES
PTY LTD

A.B.N. 88 052 954 337

Technical Update 7

April 2009

WUNDERPURLINS Supporting Roof Loads Only

100 x 75 Seasoned Softwood

The Wespine Wunderpurlin is designed to support sheet and tile roofs (constructed according to AS1684.2) for N1/N2 winds and can also be used for STRUTS, (see Technical Update 10.1).

The Wunderpurlin span table is engineer designed and certified to AS1720 *Timber structures code and AS1684 Residential timber framed construction – Part 1 Design criteria*. The table below has been developed by TimberED Services from its report, Revised Span Tables for 100 x 75 “Wunderpurlins” N1 and N2 Houses, January 2003.

WUNDERPURLINS (for N1 & N2 conditions) Supporting Roof Loads Only

		Roof Load Width (mm)											
		1800		2700		3600		1800		2700		3600	
Rafter spacing (mm)		600	1200	600	1200	600	1200	600	1200	600	1200	600	1200
Size D x B (mm)	Roof Mass (kg/m ²)	Maximum Underpurlin Span (mm)											
		Single Span						Continuous Span					
100 x 75	10	2700	2700	2300	2300	1900	1700	2700	2800	2300	2500	2000	1900
	20	2300	2400	2000	1900	1800	1600	2500	2700	2100	2500	1900	1900
	40	1800	1800	1600	1400	1500	N/A	2100	2500	1800	1800	1500	1600
	60	1600	1500	1400	N/A	1300	N/A	1800	1800	1500	1600	1400	1000

NOTES:

- End bearing lengths = 45mm at end supports and 45mm at internal supports for continuous members.

WUNDERPURLINS (for N3 & N4 conditions)

Supporting Roof Loads Only

N3		N3 WIND CONDITIONS											
		Roof Load Width (mm)											
		1800		2700		3600		1800		2700		3600	
Rafter spacing (mm)		600	1200	600	1200	600	1200	600	1200	600	1200	600	1200
Size D x B (mm)	Roof Mass (kg/m ²)	Maximum Underpurlin Span (mm)											
		Single Span						Continuous Span					
100 x 75	10	2200	2100	1700	1400	1500	1000	2200	2300	1800	1700	1500	1400
	20	2300	2300	1800	1500	1500	1100	2300	2300	1800	1800	1600	1600
	40	1800	1800	1600	1300	1400	NA	2100	2000	1700	1700	1500	1300
	60	1600	1500	1400	NA	1300	NA	1900	1900	1600	1500	1400	1100

N4		N4 WIND CONDITIONS											
		Roof Load Width (mm)											
		1800		2700		3600		1800		2700		3600	
Rafter spacing (mm)		600	1200	600	1200	600	1200	600	1200	600	1200	600	1200
Size D x B (mm)	Roof Mass (kg/m ²)	Maximum Underpurlin Span (mm)											
		Single Span						Continuous Span					
100 x 75	10	1700	1400	1400	NA	1200	NA	1800	1800	1500	1200	1300	1000
	20	1800	1400	1400	NA	1200	NA	1800	1800	1500	1300	1300	1000
	40	1800	1500	1400	1000	1300	NA	1800	1800	1500	1300	1300	1000
	60	1600	1300	1300	NA	1200	NA	1700	1700	1400	1100	1300	NA

NOTES:

- End bearing lengths = 45mm at end supports and 45mm at internal supports for continuous members.

Feel free to copy and/or forward this technical update to colleagues. For further information and technical assistance, contact:

Wespine Industries Pty Ltd on free-call number **1800 018 888** or Website www.wespine.com.au