



WESPINE

INDUSTRIES
PTY LTD

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Technical Update 11.2

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TOP PLATES for MASONRY WALLS – SINGLE or UPPER STOREY

TILE ROOF

The following spantables provide an overview of WESPINE product performance in the application of *top plates for masonry walls under tile roof*.

Wind Classification N1/N2:

		Rafter/Truss Spacing (mm)								
		450			600			900		
Tie-down Spacing (mm)		600	900	1200	600	900	1200	600	900	1200
Size DxB (mm)	Stud Spacing (mm)	Maximum Roof Load Width (mm)								
90x35 MTP*	0	7500	7500	7500	7500	7500	7500	7500	7500	6900
70x35 MGP10	0	7500	7500	7500	7500	7500	7500	7500	7500	7500
90x35 MGP10	0	7500	7500	7500	7500	7500	7500	7500	7500	7500
70x45 MGP10	0	7500	7500	7500	7500	7500	7500	7500	7500	7500
90x45 MGP10	0	7500	7500	7500	7500	7500	7500	7500	7500	7500
90x35 MGP12	0	7500	7500	7500	7500	7500	7500	7500	7500	7500
70x45 MGP12	0	7500	7500	7500	7500	7500	7500	7500	7500	7500
90x45 MGP12	0	7500	7500	7500	7500	7500	7500	7500	7500	7500

* MTP refers to WESPINE product 'Masonry Top Plate'

Wind Classification N3:

		Rafter/Truss Spacing (mm)								
		450			600			900		
Tie-down Spacing (mm)		600	900	1200	600	900	1200	600	900	1200
Size Dx B (mm)	Stud Spacing (mm)	Maximum Roof Load Width (mm)								
90x35 MTP*	0	7500	6600	3200	7500	5100	3700	4300	3300	2500
70x35 MGP10	0	7500	7100	3400	7500	5400	4000	4700	3500	2700
90x35 MGP10	0	7500	7500	3900	7500	6200	4600	5300	4100	3100
70x45 MGP10	0	7500	7500	5400	7500	7500	6300	7400	5600	4200
90x45 MGP10	0	7500	7500	6400	7500	7500	7400	7500	6600	5000
90x35 MGP12	0	7500	7500	6900	7500	7500	7500	7500	7100	5400
70x45 MGP12	0	7500	7500	7500	7500	7500	7500	7500	7500	6200
90x45 MGP12	0	7500	7500	7500	7500	7500	7500	7500	7500	7400

* MTP refers to WESPINE product 'Masonry Top Plate'

Wind Classification N4:

		Rafter/Truss Spacing (mm)								
		450			600			900		
Tie-down Spacing (mm)		600	900	1200	600	900	1200	600	900	1200
Size Dx B (mm)	Stud Spacing (mm)	Maximum Roof Load Width (mm)								
90x35 MTP*	0	5400	3500	1700	4000	2700	2000	2300	1700	1300
70x35 MGP10	0	5800	3800	1800	4300	2900	2100	2500	1900	1400
90x35 MGP10	0	6600	4400	2100	4900	3300	2400	2800	2200	1600
70x45 MGP10	0	7500	6000	2900	6800	4600	3400	3900	3000	2200
90x45 MGP10	0	7500	7100	3400	7500	5400	4000	4600	3500	2700
90x35 MGP12	0	7500	7500	3700	7500	5800	4300	5000	3800	2900
70x45 MGP12	0	7500	7500	4300	7500	6800	5000	5800	4400	3300
90x45 MGP12	0	7500	7500	5000	7500	7500	5900	6900	5200	3900

* MTP refers to WESPINE product 'Masonry Top Plate'

NOTES:

- Maximum roof load widths are based on the support of a maximum total tile roof, framing and ceiling mass of 90kg/m²
- Tile roof systems are to be constructed according to AS1684.2
- In each of the wind classifications, the maximum roof load width achievable with a rafter spacing of 600mm and tie-down spacing of 1200mm remains greater than that achievable with only a 450mm rafter spacing. This is due to the unique loading condition that occurs when the rafter spacing is half that of the tie-down spacing.

The above spantables are engineer designed and certified to AS1720 *Timber structures code*, AS1684 *Residential timber framed construction – Part 2 Non-cyclonic areas*, AS1170 *Loading code*, and AS4055 *Wind load for housing*.

Tie down systems must be constructed in accordance with *Building Code of Australia Class 1 & Class 10 Building Housings Provisions* (Section 3.3.3, Vol 2).

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

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