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Residential timber-framed construction

Part 2: Non-cyclonic areas
N4 Supplement 2: Timber framing span tables—Wind classification N4—Seasoned softwood—Stress Grade F7 (Supplement to AS 1684.2—2006)

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TABLE 1 FLOOR BEARERS - Floor load width 1200 mm Supporting single or upper storey loadbearing walls

Roof Load Width (mm)	1500		4500		7500		1500		4500		7500	
Size DxB (mm)	Maximum Bearer Span (mm)											
	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever
	Single Span						Continuous Span					
Sheet Roof												
2/90x35	1300	300	1100	300	1000	300	1600	400	1400	400	1200	300
2/90x45	1400	400	1200	300	1100	300	1800	500	1500	400	1300	300
2/120x35	1700	500	1500	400	1300	300	2100	600	1800	500	1600	400
2/120x45	1800	500	1600	400	1400	400	2400	700	2100	600	1800	500
2/140x35	2000	600	1700	500	1500	400	2400	700	2100	600	1800	500
2/140x45	2100	600	1800	500	1700	500	2800	800	2400	700	2100	600
2/170x35	2400	700	2100	600	1900	500	3000	900	2600	700	2200	600
2/170x45	2600	700	2200	600	2000	600	3400	1000	2900	800	2500	700
2/190x35	2700	800	2300	600	2100	600	3300	900	2900	800	2500	700
2/190x45	2900	800	2500	700	2300	600	3700	1100	3300	900	2800	800
2/240x35	3400	1000	2900	800	2600	700	4200	1250	3600	1000	3100	900
2/240x45	3600	1000	3200	900	2800	800	4600	1300	4100	1200	3600	1000
2/290x35	3900	1100	3500	1000	3200	900	5000	1500	4400	1300	3800	1100
2/290x45	4200	1200	3800	1100	3400	1000	5200	1500	4700	1400	4300	1200
Tile Roof												
2/90x35	1100	300	NS	NS	NS	NS	1400	400	1100	300	NS	NS
2/90x45	1200	300	1000	300	NS	NS	1600	400	1200	300	1000	300
2/120x35	1500	400	1200	300	1100	300	1900	500	1400	400	1200	300
2/120x45	1700	500	1300	300	1200	300	2200	600	1600	400	1300	300
2/140x35	1800	500	1400	400	1300	300	2200	600	1700	500	1400	400
2/140x45	1900	500	1600	400	1400	400	2500	700	1900	500	1500	400
2/170x35	2200	600	1700	500	1500	400	2700	800	2000	600	1700	500
2/170x45	2300	600	1900	500	1700	500	3100	900	2300	600	1900	500
2/190x35	2400	700	1900	500	1700	500	3000	900	2300	600	1900	500
2/190x45	2600	700	2100	600	1900	500	3400	1000	2600	700	2100	600
2/240x35	3000	900	2500	700	2200	600	3800	1100	2800	800	2300	600
2/240x45	3300	900	2700	800	2300	600	4200	1200	3200	900	2600	700
2/290x35	3600	1000	3000	900	2600	700	4600	1300	3400	1000	2800	800
2/290x45	3900	1100	3200	900	2800	800	4900	1400	3900	1100	3200	900

NOTES:

i) Maximum bearer spans supporting roof loads are based on the support of a maximum total sheet roof, framing and ceiling mass of 40 kg/m^2, a maximum total tile roof, framing and ceiling mass of 90 kg/m^2 and a maximum flooring mass of 40 kg/m^2. For guidance on determination of roof mass refer to Appendix B.

ii) Cantilevers shall not exceed 50% of actual backspan.

iii) Minimum bearing length = 50 mm at end supports and 100 mm at internal supports for continuous members.

iv) Multiple members shall be nailed together as per Clause 2.3.

v) For design parameters refer to Figure 4.6.

vi) Where loadbearing walls are supported at right angles to bearer within the bearer span reference should be made to Clause 4.3.1.5.

vii) Where bearers support roof point loads, reference should be made to Clause 4.3.1.6.

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