

AS 1684.3 C1 Supplement 9—2010

Residential timber-framed construction

Part 3: Cyclonic areas

C1 Supplement 9: Timber framing span tables—Wind classification C1— Seasoned hardwood—Stress Grade F27 (Supplement to AS 1684.3—2010)



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- Mr Peter Juniper
-

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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	1700	500	1500	400	1300	300	2300	650	2000	600	1800	500
2/90x45	1800	500	1600	400	1400	400	2500	700	2100	600	1900	500
2/120x35	2200	600	1900	500	1700	500	3000	850	2600	700	2400	700
2/120x45	2400	700	2100	600	1900	500	3300	950	2900	800	2600	700
2/140x35	2600	700	2300	600	2000	600	3500	1000	3100	900	2800	800
2/140x45	2800	800	2500	700	2200	600	3800	1100	3300	900	3000	900
2/170x35	3200	900	2700	800	2500	700	4100	1200	3700	1100	3400	1000
2/170x45	3400	1000	3000	900	2700	800	4400	1300	3900	1100	3600	1000
2/190x35	3500	1000	3100	900	2800	800	4500	1350	4000	1200	3700	1100
2/190x45	3800	1100	3300	900	3000	900	4800	1400	4300	1200	4000	1200
2/240x35	4200	1200	3800	1100	3500	1000	5300	1500	4800	1400	4400	1300
2/240x45	4500	1300	4000	1200	3700	1100	5700	1700	5100	1500	4700	1400
2/290x35	4900	1400	4400	1300	4000	1200	6100	1800	5500	1600	5100	1500
2/290x45	5100	1500	4600	1300	4300	1200	6400	1900	5800	1700	5400	1600
Tile Roof												
2/90x35	1500	400	1200	300	1100	300	2100	600	1700	500	1500	400
2/90x45	1700	500	1300	300	1200	300	2200	600	1800	500	1600	400
2/120x35	2000	600	1600	400	1400	400	2800	800	2200	600	1900	500
2/120x45	2200	600	1800	500	1600	400	3000	900	2400	700	2100	600
2/140x35	2400	700	1900	500	1700	500	3200	900	2600	700	2300	600
2/140x45	2600	700	2100	600	1800	500	3500	1000	2800	800	2500	700
2/170x35	2900	800	2300	600	2000	600	3800	1100	3100	900	2800	800
2/170x45	3100	900	2500	700	2200	600	4100	1200	3400	1000	3000	900
2/190x35	3200	900	2600	700	2300	600	4100	1200	3500	1000	3100	900
2/190x45	3500	1000	2800	800	2500	700	4400	1300	3800	1100	3300	900
2/240x35	3900	1100	3300	900	2900	800	4900	1400	4200	1200	3800	1100
2/240x45	4200	1200	3500	1000	3100	900	5300	1500	4500	1300	4100	1200
2/290x35	4500	1300	3900	1100	3500	1000	5700	1700	4800	1400	4400	1300
2/290x45	4800	1400	4100	1200	3700	1100	6000	1800	5100	1500	4700	1400

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/m², a maximum total tile roof, framing and ceiling mass of 90 kg/m² and a maximum flooring mass of 40 kg/m². 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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