AS 1684.3 C1 Supplement 10—2010

Residential timber-framed construction

Part 3: Cyclonic areas C1 Supplement 10: Timber framing span tables—Wind classification C1— Unseasoned softwood—Stress Grade F5 (Supplement to AS 1684.3—2010)



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LIST OF TABLES

SINGLE OR UPPER STOREY

- 1 FLOOR BEARERS Supporting single or upper storey loadbearing walls FLW 1200
- 2 FLOOR BEARERS Supporting single or upper storey loadbearing walls FLW 2400
- 3 FLOOR BEARERS Supporting single or upper storey loadbearing walls FLW 3600
- 4 FLOOR BEARERS Supporting single or upper storey loadbearing walls FLW 4800
- 5 FLOOR BEARERS Supporting floor load only
- 6 FLOORJOISTS
- 7 WALL STUDS Not notched single or upper storey
- 8 WALL STUDS Notched 20 mm single or upper storey
- 9 STUDS SUPPORTING CONCENTRATED LOADS Not notched
- 10 STUDS SUPPORTING CONCENTRATED LOADS Notched to 20 mm
- 11 JAMB STUDS Single or upper storey
- 12 INTERNAL LOADBEARING WALL STUDS Not notched single or upper storey
- 13 INTERNAL LOADBEARING WALL STUDS Notched to 20 mm single or upper storey
- 14 BOTTOM PLATES Supporting single or upper storey
- 15 TOP PLATES Single or upper storey sheet roof
- 16 TOPPLATES- Single or upper storey tile roof
- 17 LINTELS Sheet roof Single or upper storey loadbearing walls
- 18 LINTELS Tile roof Single or upper storey loadbearing walls
- 19 LINTELS Sheet roof Supporting concentrated roof loads
- 20 LINTELS Tile roof Supporting concentrated roof loads
- 21 CEILING JOISTS Supporting ceiling loads, no overbatten
- 22 CEILING JOISTS Supporting ceiling loads with overbatten
- 23 HANGING BEAMS Supporting ceiling loads
- 24 COUNTERBEAMS
- 25 STRUTTING/HANGING BEAMS Supporting roof & ceiling loads
- 26 STRUTTING/COUNTER BEAMS Supporting roof & ceiling loads
- 27 STRUTTINGBEAMS
- 28 UNDERPURLINS
- 29 RAFTERS OR PURLINS
- 30 RIDGE OR INTERMEDIATE BEAMS Single span
- 31 RIDGE OR INTERMEDIATE BEAMS Continuous span
- 32 ROOF BATTENS Supporting roofing only

LOWER STOREY OF TWO STOREY

- 33 FLOOR BEARERS Supporting two storey loadbearing walls FLW 1800
- 34 FLOOR BEARERS Supporting two storey loadbearing walls FLW 3600
- 35 FLOOR BEARERS Lower Storey of two storey supporting upper and lower floor loads only
- 36 WALL STUDS Not notched lower storey loadbearing walls
- 37 WALL STUDS Notched to 20 mm lower storey loadbearing walls
- 38 STUDS Not notched Supporting concentrated floor loads
- 39 STUDS Notched to 20 mm Supporting concentrated floor loads
- 40 JAMB STUDS Lower storey of two storey FLW 1800
- 41 JAMB STUDS Lower storey of two storey FLW 3600
- 42 JAMB STUDS Lower storey of two storey FLW 4800
- 43 WALLSTUDS Not notched supporting floor loads only
- 44 WALLSTUDS Notched to 20 mm supporting floor loads only
- 45 BOTTOM PLATES Lower storey of two storey
- 46 TOP PLATES Lower storey of two storey
- 47 LINTELS Lower storey loadbearing walls Sheef roof
- 48 LINTELS Lower storey loadbearing walls Tile roof

VERANDAHS, POSTS & DECKS

- 49 DECK BEARERS
- 50 DECKJOISTS
- 51 VERANDAH BEAMS Single span
- 52 VERANDAH BEAMS Continuous span
- 53 POSTS SUPPORTING ROOF AND/OR FLOOR LOADS

TABLE 1

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

Roof Load Width (mm)	1500		45	500	7500		1500		4500		7500		
	Maximum Bearer Span (mm)												
Size DxB	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	
(mm)			Singl	e Span			Continuous Span						
Sheet Roof													
100x75	1100	300	1000	300	NS	NS	1500	400	1300	300	1100	300	
125x75	1400	400	1200	300	1100	300	1800	500	1600	400	1400	400	
150x75	1700	500	1500	400	1300	300	2200	600	1900	500	1700	500	
175x75	2000	600	1700	500	1600	400	2600	700	2200	600	2000	600	
200x75	2300	600	2000	600	1800	500	3000	900	2600	700	2200	600	
225x75	2600	700	2200	600	2000	600	3300	900	2900	800	2500	700	
250x75	2900	800	2500	700	2300	600	3700	1100	3200	900	2800	800	
275x75	3200	900	2700	800	2500	700	4100	1200	3600	1000	3100	900	
300x75	3500	1000	3000	900	2700	800	4400	1300	3900	1100	3400	1000	
						Tile	Roof						
100x75	1000	300	NS	NS	NS	NS	1300	300	1000	300	NS	NS	
125x75	1300	300	1000	300	NS	NS	1700	500	1200	300	1000	300	
150x75	1600	400	1300	300	1100	300	2000	600	1500	400	1200	300	
175x75	1800	500	1500	400	1300	300	2400	700	1800	500	1400	400	
200x75	2100	600	1700	500	1500	400	2700	800	2000	600	1700	500	
225x75	2400	700	1900	500	1700	500	3000	900	2300	600	1900	500	
250x75	2600	700	2100	600	1800	500	3400	1000	2500	700	2100	600	
275x75	2900	800	2300	600	2000	600	3700	1100	2800	800	2300	600	
300x75	3100	900	2500	700	2200	600	4100	1200	3000	900	2500	700	

NOTES:

- 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 i) 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.
- Cantilevers shall not exceed 50% of actual backspan.
- $Minimum\ bearing\ length=50\ mm\ at\ end\ supports\ and\ 100\ mm\ at\ internal\ supports\ for\ continuous\ members.$
- Multiple members shall be nailed together as per Clause 2.3. For design parameters refer to Figure 4.6.
- Where loadbearing walls are supported at right angles to bearer within the bearer span reference should be made to Clause 4.3.1.5. vi)
- Where bearers support roof point loads, reference should be made to Clause 4.3.1.6.

TABLE 2

FLOOR BEARERS - Floor load width 2400 mm Supporting single or upper storey loadbearing walls

Roof Load Width (mm)	1500		4500		7500		1500		4500		7500		
	Maximum Bearer Span (mm)												
Size DxB (mm)	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	
(11111)			Singl	e Span		Continuous Span							
Sheet Roof													
100x75	1000	300	NS	NS	NS	NS	1100	300	1000	300	NS	NS	
125x75	1200	300	1100	300	1000	300	1400	400	1300	300	1200	300	
150x75	1500	400	1300	300	1200	300	1700	500	1500	400	1400	400	
175x75	1700	500	1600	400	1400	400	2000	600	1800	500	1700	500	
200x75	2000	600	1800	500	1700	500	2200	600	2100	600	1900	500	
225x75	2200	600	2000	600	1900	500	2500	700	2300	600	2200	600	
250x75	2500	700	2200	600	2100	600	2800	800	2600	700	2400	700	
275x75	2700	800	2500	700	2300	600	3100	900	2800	800	2600	700	
300x75	3000	900	2700	800	2500	700	3400	1000	3100	900	2900	800	
	Tile Roof												
100x75	NS	NS	NS	NS	NS	NS	1000	300	NS	NS	NS	NS	
125x75	1100	300	1000	300	NS	NS	1300	300	1100	300	1000	300	
150x75	1400	400	1200	300	1000	300	1600	400	1300	300	1200	300	
175x75	1600	400	1400	400	1200	300	1900	500	1600	400	1400	400	
200x75	1900	500	1600	400	1400	400	2100	600	1800	500	1500	400	
225x75	2100	600	1800	500	1600	400	2400	700	2000	600	1700	500	
250x75	2300	600	2000	600	1800	500	2700	800	2300	600	1900	500	
275x75	2600	700	2200	600	1900	500	2900	800	2500	700	2100	600	
300x75	2800	800	2400	700	2100	600	3200	900	2700	800	2300	600	

NOTES:

- 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. Cantilevers shall not exceed 50% of actual backspan.
- $\dot{\text{Minimum bearing length}} = 50 \, \text{mm at end supports and } 100 \, \text{mm at internal supports for continuous members}.$
- Multiple members shall be nailed together as per Clause 2.3. For design parameters refer to Figure 4.6.
- V)
- vi) Where load bearing walls are supported at right angles to bearer within the bearer span reference should be made to Clause 4.3.1.5.
- Where bearers support roof point loads, reference should be made to Clause 4.3.1.6.

TABLE 3

FLOOR BEARERS - Floor load width 3600 mm Supporting single or upper storey loadbearing walls

Roof Load Width (mm)	1500		4500		7500		1500		4500		7500	
	Maximum Bearer Span (mm)											
Size DxB (mm)	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever	Span	Cantilever
(11111)			Single	e Span		Continuous Span						
	Sheet Roof											
100x75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
125x75	1100	300	1000	300	1000	300	1200	300	1100	300	1000	300
150x75	1300	300	1200	300	1200	300	1400	400	1300	300	1200	300
175x75	1500	400	1400	400	1400	400	1600	400	1500	400	1500	400
200x75	1800	500	1600	400	1500	400	1900	500	1800	500	1700	500
225x75	2000	600	1900	500	1700	500	2100	600	2000	600	1900	500
250x75	2200	600	2100	600	1900	500	2300	600	2200	600	2100	600
275x75	2400	700	2300	600	2100	600	2600	700	2400	700	2300	600
300x75	2700	800	2500	700	2300	600	2800	800	2600	700	2500	700
						Tile	Roof					
100x75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
125x75	1000	300	NS	NS	NS	NS	1100	300	1000	300	NS	NS
150x75	1300	300	1100	300	1000	300	1300	300	1200	300	1100	300
175x75	1500	400	1300	300	1200	300	1600	400	1400	400	1300	300
200x75	1700	500	1500	400	1300	300	1800	500	1600	400	1400	400
225x75	1900	500	1700	500	1500	400	2000	600	1800	500	1600	400
250x75	2100	600	1900	500	1700	500	2300	600	2000	600	1800	500
275x75	2300	600	2000	600	1900	500	2500	700	2200	600	2000	600
300x75	2500	700	2200	600	2000	600	2700	800	2400	700	2200	600

NOTES:

- 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.
- Cantilevers shall not exceed 50% of actual backspan.
- $\label{eq:main_model} \begin{tabular}{ll} Minimum bearing length = 50 mm at end supports and 100 mm at internal supports for continuous members. \\ Multiple members shall be nailed together as per Clause 2.3. \\ \end{tabular}$
- For design parameters refer to Figure 4.6.
- Where load bearing walls are supported at right angles to bearer within the bearer span reference should be made to Clause 4.3.1.5.
- Where bearers support roof point loads, reference should be made to Clause 4.3.1.6.