

TABLE 1 **Floor Bearers**
Supporting Single or Upper Storey Loadbearing Walls - Floor Load Width 1800 mm

	Floor Load Width (mm)							
	1800				1800			
Roof Load Width (mm)	3000	4500	6000	7500	3000	4500	6000	7500
Size DxB (mm)	Maximum Bearer Span (mm)							
	Single Span				Continuous Span			
Sheet Roof								
140x31	1500	1500	1400	1300	1700	1600	1500	1400
90x35	1000	NS	NS	NS	1100	1100	1000	NS
140x35	1600	1500	1500	1400	1800	1700	1600	1500
190x35	2200	2100	2000	1900	2500	2300	2200	2100
90x42	1100	1000	1000	NS	1200	1200	1100	1000
140x42	1700	1600	1600	1500	2000	1900	1800	1600
190x42	2400	2200	2100	2100	2700	2600	2400	2300
240x42	3000	2900	2700	2600	3500	3300	3100	2900
290x42	3600	3500	3300	3200	4200	4000	3700 ₅	3500 ₁₀
140x65	2000	1900	1800	1700	2500	2400	2200	2100
190x65	2800	2600	2500	2400	3400	3200	3000	2800
240x65	3500	3300	3200	3000	4300	4100	3800	3600
290x65	4100	3900	3800	3700	5100	4900	4600	4400
140x80	2200	2000	1900	1900	2800	2600	2500	2300
190x80	3000	2800	2700	2600	3800	3600	3400	3200
240x80	3700	3600	3400	3300	4700	4500	4200	4000
290x80	4300	4100	4000	3800	5400	5200	5000	4800
Tile Roof								
140x31	1400	1200	1100	1100	1400	1300	1100	1100
90x35	NS	NS	NS	NS	NS	NS	NS	NS
140x35	1400	1300	1200	1100	1500	1400	1200	1100
190x35	2000	1800	1700	1600	2100	1900	1700	1600 ₅
90x42	NS	NS	NS	NS	1100	NS	NS	NS
140x42	1500	1400	1300	1200	1700	1500	1400	1200
190x42	2100	1900	1800	1700	2300	2100	1900	1700
240x42	2700	2500	2300	2200	3000	2600	2400 ₁₀	2200 ₂₀
290x42	3200	3000	2800	2600	3600 ₁₀	3200 ₂₀	2900 ₃₀	2700 ₄₀
140x65	1800	1600	1500	1400	2100	1900	1700	1600
190x65	2400	2200	2100	2000	2900	2600	2300	2200
240x65	3100	2900	2700	2500	3700	3300	3000	2700
290x65	3700	3500	3200	3100	4500	4000	3600 ₁₀	3300 ₁₅
140x80	1900	1800	1600	1500	2400	2100	1900	1700
190x80	2600	2400	2300	2100	3300	2900	2600	2400
240x80	3300	3100	2900	2700	4100	3700	3300	3100
290x80	3900	3700	3500	3300	4900	4400	4000	3700 ₅

NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- The above table was based on a maximum Sheet Roof Mass of 40 (kg/m²), Tile Roof Mass of 90 (kg/m²), Total Ground Floor Mass of 40 (kg/m²), Total Wall Mass of 15 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- The above table was based on a Wall Height (mm) of 2400.
- End bearing lengths = 45 mm at end supports and 60 mm at internal supports for continuous members. Subscript values indicate the minimum additional bearing length where required to be greater than 45 mm at end supports and 60 mm at internal supports.

TABLE 2 **Floor Bearers**
Supporting Single or Upper Storey Loadbearing Walls - Floor Load Width 2400 mm

	Floor Load Width (mm)							
	2400				2400			
Roof Load Width (mm)	3000	4500	6000	7500	3000	4500	6000	7500
Size DxB (mm)	Maximum Bearer Span (mm)							
	Single Span				Continuous Span			
Sheet Roof								
140x31	1500	1400	1300	1300	1500	1400	1400	1300
90x35	NS	NS	NS	NS	1000	NS	NS	NS
140x35	1500	1400	1400	1300	1600	1500	1500	1400
190x35	2100	2000	1900	1800	2200	2100	2000	1900
90x42	1000	1000	NS	NS	1100	1100	1000	NS
140x42	1600	1500	1500	1400	1800	1700	1600	1500
190x42	2200	2100	2000	2000	2400	2300	2200	2100
240x42	2800	2700	2600	2500	3100	3000	2900	2700
290x42	3400	3300	3200	3000	3800 ₅	3600 ₁₀	3500 ₁₅	3300 ₂₀
140x65	1900	1800	1700	1700	2200	2100	2100	2000
190x65	2600	2500	2400	2300	3100	2900	2800	2700
240x65	3300	3200	3000	2900	3900	3700	3600	3400
290x65	3900	3800	3600	3500	4700	4500	4300	4100
140x80	2000	1900	1900	1800	2500	2400	2300	2200
190x80	2800	2700	2600	2500	3400	3300	3100	3000
240x80	3500	3400	3200	3100	4300	4100	4000	3800
290x80	4100	4000	3800	3700	5200	5000	4800	4600
Tile Roof								
140x31	1300	1200	1100	1000	1300	1200	1100	1000
90x35	NS	NS	NS	NS	NS	NS	NS	NS
140x35	1400	1300	1200	1100	1400	1300	1200	1100
190x35	1900	1700	1600	1500	2000	1800	1600	1500 ₁₀
90x42	NS	NS	NS	NS	1000	NS	NS	NS
140x42	1500	1300	1300	1200	1600	1400	1300	1200
190x42	2000	1900	1800	1700	2200	2000	1800	1700
240x42	2600	2400	2200	2100	2800	2500 ₅	2300 ₁₅	2100 ₂₅
290x42	3100	2900	2700	2600 ₅	3400 ₁₅	3000 ₂₅	2800 ₃₅	2600 ₄₅
140x65	1700	1600	1500	1400	2000	1800	1600	1500
190x65	2300	2200	2000	1900	2800	2500	2200	2100
240x65	3000	2800	2600	2500	3500	3100	2900	2700 ₅
290x65	3600	3400	3200	3000	4200	3800 ₅	3500 ₁₅	3200 ₂₀
140x80	1800	1700	1600	1500	2200	2000	1800	1700
190x80	2500	2300	2200	2100	3100	2700	2500	2300
240x80	3200	3000	2800	2700	3900	3500	3200	3000
290x80	3800	3600	3400	3200	4700	4200	3900 ₅	3600 ₁₀

NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- The above table was based on a maximum Sheet Roof Mass of 40 (kg/m²), Tile Roof Mass of 90 (kg/m²), Total Ground Floor Mass of 40 (kg/m²), Total Wall Mass of 15 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- The above table was based on a Wall Height (mm) of 2400.
- End bearing lengths = 45 mm at end supports and 60 mm at internal supports for continuous members. Subscript values indicate the minimum additional bearing length where required to be greater than 45 mm at end supports and 60 mm at internal supports.

TABLE 3 **Floor Bearers**
Supporting Single or Upper Storey Loadbearing Walls - Floor Load Width 3600 mm

	Floor Load Width (mm)							
	3600				3600			
Roof Load Width (mm)	3000	4500	6000	7500	3000	4500	6000	7500
Size DxB (mm)	Maximum Bearer Span (mm)							
	Single Span				Continuous Span			
Sheet Roof								
140x31	1300	1200	1200	1200	1300	1200	1200	1200
90x35	NS	NS	NS	NS	NS	NS	NS	NS
140x35	1300	1300	1300	1200	1300	1300	1300	1200
190x35	1900	1800	1700	1700	1900	1800	1700	1700
90x42	NS	NS	NS	NS	NS	NS	NS	NS
140x42	1500	1400	1400	1300	1500	1400	1400	1400
190x42	2000	1900	1900	1800	2000	2000	1900	1900
240x42	2600	2500	2400	2300	2600 ₅	2500 ₅	2500 ₁₀	2400 ₁₀
290x42	3100	3000	2900	2800	3200 ₂₅	3100 ₂₅	3000 ₃₀	2900 ₃₀
140x65	1700	1600	1600	1500	1900	1800	1800	1700
190x65	2400	2300	2200	2100	2600	2500	2400	2400
240x65	3000	2900	2800	2700	3300	3200	3100	3000
290x65	3600	3500	3400	3300	4000	3800 ₅	3700 ₅	3600 ₅
140x80	1800	1800	1700	1700	2100	2000	2000	1900
190x80	2500	2400	2400	2300	2900	2800	2700	2600
240x80	3200	3100	3000	2900	3600	3500	3400	3400
290x80	3800	3700	3600	3500	4400	4300	4200	4100
Tile Roof								
140x31	1200	1100	1000	NS	1200	1100	1000	NS
90x35	NS	NS	NS	NS	NS	NS	NS	NS
140x35	1200	1200	1100	1000	1200	1200	1100	1000
190x35	1700	1600	1500	1400	1700	1600	1500 ₁₀	1400 ₁₅
90x42	NS	NS	NS	NS	NS	NS	NS	NS
140x42	1300	1300	1200	1100	1400	1300	1200	1100
190x42	1900	1700	1600	1500	1900	1800	1600	1500 ₁₀
240x42	2400	2200	2100	2000	2400 ₁₀	2300 ₁₅	2100 ₂₅	2000 ₃₀
290x42	2900	2700	2600 ₅	2400 ₅	2900 ₃₀	2800 ₃₅	2600 ₄₅	2400 ₅₀
140x65	1600	1500	1400	1300	1700	1600	1500	1400
190x65	2200	2000	1900	1900	2400	2200	2100	1900
240x65	2800	2600	2500	2400	3100	2900	2600 ₅	2500 ₁₀
290x65	3300	3200	3000	2900	3700 ₅	3500 ₁₅	3200 ₂₀	3000 ₂₅
140x80	1700	1600	1500	1400	1900	1800	1700	1600
190x80	2300	2200	2100	2000	2700	2500	2300	2200
240x80	3000	2800	2700	2500	3400	3200	2900	2800
290x80	3600	3400	3200	3100	4100	3800 ₅	3600 ₁₀	3300 ₁₅

NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- The above table was based on a maximum Sheet Roof Mass of 40 (kg/m²), Tile Roof Mass of 90 (kg/m²), Total Ground Floor Mass of 40 (kg/m²), Total Wall Mass of 15 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- The above table was based on a Wall Height (mm) of 2400.
- End bearing lengths = 45 mm at end supports and 60 mm at internal supports for continuous members. Subscript values indicate the minimum additional bearing length where required to be greater than 45 mm at end supports and 60 mm at internal supports.

TABLE 4 **Floor Bearers**
Supporting Single or Upper Storey Loadbearing Walls - Floor Load Width 4800 mm

	Floor Load Width (mm)							
	4800				4800			
Roof Load Width (mm)	3000	4500	6000	7500	3000	4500	6000	7500
Size DxB (mm)	Maximum Bearer Span (mm)							
	Single Span				Continuous Span			
Sheet Roof								
140x31	1100	1100	1000	1000	1100	1100	1000	1000
90x35	NS	NS	NS	NS	NS	NS	NS	NS
140x35	1200	1100	1100	1100	1200	1100	1100	1100
190x35	1600	1600	1500	1500	1600 ₅	1600 ₅	1500 ₅	1500 ₁₀
90x42	NS	NS	NS	NS	NS	NS	NS	NS
140x42	1300	1200	1200	1200	1300	1200	1200	1200
190x42	1800	1700	1700	1600	1800	1700	1700	1600
240x42	2300	2200	2200	2100	2300 ₂₀	2200 ₂₀	2200 ₂₅	2100 ₂₅
290x42	2700	2700	2600	2600 ₅	2700 ₃₅	2700 ₄₀	2600 ₄₀	2600 ₄₅
140x65	1600	1500	1500	1500	1600	1600	1500	1500
190x65	2200	2100	2100	2000	2200	2200	2100	2100
240x65	2800	2700	2600	2600	2800	2800	2700	2600 ₅
290x65	3300	3300	3200	3100	3400 ₁₅	3400 ₂₀	3300 ₂₀	3200 ₂₀
140x80	1700	1600	1600	1600	1800	1800	1700	1700
190x80	2300	2300	2200	2200	2500	2400	2400	2300
240x80	3000	2900	2800	2700	3200	3100	3000	2900
290x80	3600	3500	3400	3300	3800 ₅	3700 ₅	3700 ₁₀	3600 ₁₀
Tile Roof								
140x31	1000	1000	NS	NS	1000	1000	NS	NS
90x35	NS	NS	NS	NS	NS	NS	NS	NS
140x35	1100	1000	1000	NS	1100	1000	1000	NS
190x35	1500	1400	1400	1300	1500 ₁₀	1400 ₁₀	1400 ₁₅	1300 ₂₀
90x42	NS	NS	NS	NS	NS	NS	NS	NS
140x42	1200	1200	1100	1100	1200	1200	1100	1000
190x42	1700	1600	1500	1500	1700	1600 ₅	1500 ₅	1400 ₁₅
240x42	2100	2000	1900	1900	2100 ₂₀	2000 ₂₅	1900 ₃₅	1800 ₃₅
290x42	2600	2500 ₅	2400 ₅	2300 ₁₀	2600 ₄₅	2500 ₅₀	2400 ₅₅	2200 ₆₀
140x65	1500	1400	1300	1300	1500	1500	1400	1300
190x65	2000	1900	1800	1800	2100	2000	1900	1800
240x65	2600	2500	2400	2300	2700	2600 ₅	2500 ₁₀	2300 ₁₅
290x65	3100	3000	2900	2700	3300 ₂₀	3100 ₂₅	3000 ₃₀	2800 ₃₅
140x80	1600	1500	1400	1400	1700	1600	1600	1500
190x80	2200	2100	2000	1900	2300	2200	2100	2000
240x80	2800	2600	2500	2400	3000	2800	2700	2600 ₅
290x80	3400	3200	3100	3000	3600 ₁₀	3500 ₁₅	3300 ₂₀	3100 ₂₅

NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- The above table was based on a maximum Sheet Roof Mass of 40 (kg/m²), Tile Roof Mass of 90 (kg/m²), Total Ground Floor Mass of 40 (kg/m²), Total Wall Mass of 15 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- The above table was based on a Wall Height (mm) of 2400.
- End bearing lengths = 45 mm at end supports and 60 mm at internal supports for continuous members. Subscript values indicate the minimum additional bearing length where required to be greater than 45 mm at end supports and 60 mm at internal supports.

TABLE 5

Floor Bearers Supporting Floor Load Only

Size DxB (mm)	Floor Load Width (mm)				
	1800	2400	3600	4800	6000
	Maximum Bearer Span (mm)				
	Single Span				
140x31	1900	1700	1400	1200	1000
90x35	1200	1100	NS	NS	NS
140x35	2000	1800	1500	1200	1100
190x35	2700	2500	2000	1700	1500
90x42	1300	1200	1000	NS	NS
140x42	2100	1900	1600	1400	1200
190x42	2900	2600	2200	1900	1700
240x42	3700	3300	2800	2400	2100
290x42	4200	3900	3400	2900	2600
140x65	2500	2200	1900	1700	1500
190x65	3400	3100	2600	2400	2100
240x65	4100	3800	3300	3000	2700
290x65	4700	4400	3900	3600	3200
140x80	2600	2400	2100	1800	1700
190x80	3600	3300	2800	2500	2300
240x80	4300	4000	3600	3200	3000
290x80	4900	4600	4100	3800	3600
Continuous Span					
140x31	2000	1700	1400	1200	1000
90x35	1300	1100	NS	NS	NS
140x35	2100	1800	1500	1200	1100
190x35	2900	2500	2000	1700	1500 ₁₀
90x42	1500	1200	1000	NS	NS
140x42	2300	2000	1600	1400	1200
190x42	3200	2700	2200	1900	1700
240x42	4000	3500	2800	2400 ₁₀	2100 ₂₅
290x42	4900	4200	3400 ₁₅	2900 ₃₀	2600 ₄₅
140x65	2900	2500	2000	1700	1500
190x65	4000	3400	2800	2400	2100
240x65	4800	4300	3500	3000	2700
290x65	5500	5200	4300	3700 ₁₀	3200 ₂₀
140x80	3200	2800	2300	1900	1700
190x80	4200	3800	3100	2600	2300
240x80	5100	4700	3900	3400	3000
290x80	5900	5400	4700	4100	3600 ₁₀

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Floor Mass of 40 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- iii) End bearing lengths = 45 mm at end supports and 60 mm at internal supports for continuous members. Subscript values indicate the minimum additional bearing length where required to be greater than 45 mm at end supports and 60 mm at internal supports.

TABLE 6a **Floor Joists - Sheet Roof - Supporting Floor Loads**
and/or Supporting Loadbearing Wall Perpendicular to Joists

	Roof Load Width (mm)											
	0			1500			4500			7500		
Joist Spacing (mm)	300	450	600	300	450	600	300	450	600	300	450	600
Size DxB (mm)	Maximum Floor Joist Span (mm)											
	Single Span											
140x31	3500	2600	2400	3200	2600	2400	2800	2400	2100	2400	2000	1800
90x35	1900	1600	1500	1900	1600	1500	1600	1400	1200	1400	1200	1000
140x35	3600	2700	2500	3300	2700	2500	2900	2500	2200	2600	2200	1900
190x35	4500	3900	3500	4300	3900	3500	4000	3600	3200	3700	3200	2900
90x42	2100	1700	1600	2100	1700	1600	1800	1500	1300	1500	1300	1100
140x42	3800	2900	2700	3500	2900	2700	3100	2700	2400	2800	2400	2100
190x42	4700	4200	3800	4500	4100	3800	4200	3800	3500	3900	3500	3100
240x42	5500	5100	4800	5400	4900	4600	5000	4600	4300	4800	4300	4000
290x42	6300	5900	5500	6100	5700	5300	5800	5300	5000	5600	5000	4700
140x65	4100	3500	3100	3900	3500	3100	3600	3200	2800	3300	2800	2500
190x65	5100	4700	4400	4900	4500	4300	4600	4200	3900	4400	4000	3700
240x65	6000	5600	5300	5800	5400	5100	5600	5100	4800	5300	4800	4500
290x65	6800	6400	6000	6700	6200	5900	6400	5900	5500	6100	5600	5300
140x80	4300	3800	3400	4100	3700	3400	3800	3400	3100	3600	3100	2700
190x80	5300	4900	4700	5100	4800	4500	4900	4400	4100	4600	4200	3900
240x80	6200	5800	5500	6100	5600	5300	5800	5300	5000	5500	5100	4700
290x80	7000	6600	6300	6900	6400	6100	6600	6200	5800	6400	5900	5500
Continuous Span												
140x31	4100	3100	2700	4000	3100	2700	3500	3000	2700	3100	2600	2200
90x35	2700	1900	1700	2700	1900	1700	2100	1700	1500	1700	1400	1200
140x35	4200	3200	2900	4200	3200	2900	3700	3200	2800	3200	2700	2400
190x35	5300	4700	4100	5300	4700	4100	4800	4300	4000	4400	3900	3600
90x42	2900	2000	1900	2900	2000	1900	2200	1900	1700	1900	1600	1400
140x42	4400	3500	3100	4400	3500	3100	3900	3400	3000	3500	2900	2600
190x42	5600	5100	4400	5600	5100	4400	5000	4500	4200	4600	4100	3800
240x42	6700	6100	5600	6600	6100	5600	6100	5500	5100	5700	5100	4700
290x42	7800	7000	6500	7600	7000	6500	7100	6500	6000	6700	6000	5600
140x65	5000	4200	3700	4900	4200	3700	4400	3900	3600	4000	3600	3200
190x65	6300	5700	5200	6100	5600	5200	5600	5100	4700	5200	4700	4300
240x65	7500	6800	6300	7300	6700	6300	6800	6200	5800	6400	5800	5300
290x65	8400	7800	7300	8300	7700	7300	7800	7200	6700	7400	6800	6300
140x80	5200	4600	4000	5100	4600	4000	4600	4100	3800	4200	3800	3500
190x80	6600	6000	5600	6400	5900	5500	5900	5400	5000	5500	5000	4600
240x80	7800	7200	6700	7600	7000	6600	7100	6500	6100	6700	6100	5700
290x80	8400	8300	7700	8400	8000	7600	8200	7500	7100	7800	7100	6600

NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- The above table was based on a maximum Floor Mass of 40 (kg/m²), Total Ground Floor Mass of 40 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- End bearing lengths = 30 mm at end supports and 45 mm at internal supports for continuous members.
- Floor loads may consist of floor covering, flooring and/or ceilings. No heavy point roof loads shall be applied to Floor Joists. Cantilevers may be up to 25%. For loadbearing walls supported by cantilevered floor joists, the maximum floor joist cantilever shall not exceed 15% of the span for the appropriate roof load width (RLW) provided that the minimum backspan is at least four times the cantilever distance.

TABLE 6b **Floor Joists - Tile Roof - Supporting Floor Loads**
and/or Supporting Loadbearing Wall Perpendicular to Joists

	Roof Load Width (mm)											
	0			1500			4500			7500		
Joist Spacing (mm)	300	450	600	300	450	600	300	450	600	300	450	600
Size DxB (mm)	Maximum Floor Joist Span (mm)											
	Single Span											
140x31	3500	2600	2400	2900	2500	2200	2200	1900	1600	1800	1500	1200
90x35	1900	1600	1500	1800	1500	1300	1200	1000	NS	1000	NS	NS
140x35	3600	2700	2500	3000	2600	2300	2300	2000	1700	2000	1600	1400
190x35	4500	3900	3500	4100	3700	3400	3500	3000	2600	3000	2500	2200
90x42	2100	1700	1600	1900	1600	1400	1400	1100	1000	1100	NS	NS
140x42	3800	2900	2700	3300	2800	2500	2600	2100	1900	2100	1800	1500
190x42	4700	4200	3800	4300	3900	3600	3700	3200	2900	3300	2700	2400
240x42	5500	5100	4800	5100	4700	4400	4600	4100	3800	4200	3700	3300
290x42	6300	5900	5500	5900	5400	5100	5400	4800	4500	4900	4400	4000
140x65	4100	3500	3100	3700	3300	3000	3100	2600	2300	2600	2200	1900
190x65	5100	4700	4400	4700	4300	4000	4200	3800	3500	3800	3300	2900
240x65	6000	5600	5300	5700	5200	4900	5100	4600	4300	4700	4200	3900
290x65	6800	6400	6000	6500	6000	5600	6000	5400	5000	5500	5000	4600
140x80	4300	3800	3400	3900	3600	3200	3300	2800	2500	2900	2400	2100
190x80	5300	4900	4700	5000	4500	4300	4400	4000	3700	4000	3600	3200
240x80	6200	5800	5500	5900	5400	5100	5400	4900	4500	5000	4500	4100
290x80	7100	6600	6300	6700	6300	5900	6200	5700	5300	5800	5300	4900
Continuous Span												
140x31	4100	3100	2700	3700	3100	2700	2700	2300	2000	2200	1800	1600
90x35	2700	1900	1700	2300	1900	1700	1500	1300	1100	1200	NS	NS
140x35	4200	3200	2900	3800	3200	2900	2900	2400	2100	2400	2000	1700
190x35	5300	4700	4100	5000	4500	4100	4100	3700	3300	3700	3100	2700
90x42	2900	2000	1900	2400	2000	1800	1700	1400	1200	1300	1100	NS
140x42	4400	3500	3100	4000	3500	3100	3200	2600	2300	2600	2100	1900
190x42	5600	5100	4400	5200	4700	4400	4400	3900	3600	3900	3400	2900
240x42	6700	6100	5600	6300	5700	5300	5400	4800	4400	4800	4300	3900
290x42	7800	7000	6500	7300	6700	6200	6400	5700	5300	5800	5100	4700
140x65	5000	4200	3700	4500	4100	3700	3800	3200	2900	3200	2700	2300
190x65	6300	5700	5200	5800	5300	4900	5000	4400	4100	4400	3900	3600
240x65	7500	6800	6300	7000	6400	6000	6100	5500	5100	5500	4900	4500
290x65	8400	7800	7300	8000	7400	6900	7100	6500	6000	6500	5800	5400
140x80	5200	4600	4000	4800	4300	4000	4000	3600	3100	3500	2900	2600
190x80	6600	6000	5600	6100	5600	5200	5300	4700	4300	4700	4200	3800
240x80	7800	7200	6700	7300	6700	6300	6400	5800	5400	5800	5200	4800
290x80	8400	8300	7700	8300	7700	7300	7500	6800	6300	6900	6200	5700

NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- The above table was based on a maximum Floor Mass of 90 (kg/m²), Total Ground Floor Mass of 40 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- End bearing lengths = 30 mm at end supports and 45 mm at internal supports for continuous members.
- Floor loads may consist of floor covering, flooring and/or ceilings. No heavy point roof loads shall be applied to Floor Joists. Cantilevers may be up to 25%. For loadbearing walls supported by cantilevered floor joists, the maximum floor joist cantilever shall not exceed 15% of the span for the appropriate roof load width (RLW) provided that the minimum backspan is at least four times the cantilever distance.

TABLE 17

Lintels - Sheet Roof Single or Upper Storey Loadbearing Walls

	Roof Load Width (mm)									
	1500		3000		4500		6000		7500	
Rafter/Truss Spacing (mm)	600	1200	600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Maximum Lintel Span (mm)									
140x31	2600	2600	1800	1500	1400	900	1300	NS	900	NS
90x35	2000	1800	1400	900	1100	NS	900	NS	700	NS
140x35	2800	2700	1900	1600	1500	1100	1300	NS	1200	NS
190x35	3600	3400	2500	2400	2000	1800	1700	1200	1500	700
90x42	2100	2000	1400	1000	1200	600	1000	NS	800	NS
140x42	3000	2900	2100	1900	1600	1300	1400	800	1300	NS
190x42	3800	3700	2700	2600	2200	2100	1800	1600	1600	1000
240x42	4500	4500	3400	3200	2700	2700	2400	2300	2100	1700 _s
290x42	5200	5200	4000	3900	3300	3100	2800	2700 _s	2500 _s	2400 ₁₅
140x65	3400	3300	2500	2500	2000	1800	1700	1400	1500	1100
190x65	4200	4200	3400	3200	2700	2600	2400	2200	2100	1900
240x65	5000	5000	4200	4100	3400	3200	2900	2800	2600	2500
290x65	5700	5700	4900	4900	4100	4000	3500	3400	3100	3000
140x80	3500	3500	2800	2700	2300	2100	1900	1600	1700	1300
190x80	4400	4400	3700	3500	3000	2900	2600	2500	2300	2200
240x80	5200	5200	4500	4500	3800	3600	3300	3100	2900	2800
290x80	5900	5900	5100	5200	4600	4500	3900	3800	3500	3300

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Roof Mass of 40 (kg/m²).
- iii) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 17

Lintels - Sheet Roof Single or Upper Storey Loadbearing Walls

	Roof Load Width (mm)									
	1500		3000		4500		6000		7500	
Rafter/Truss Spacing (mm)	600	1200	600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Maximum Lintel Span (mm)									
140x31	2800	2800	2200	2300	2000	1900	1800	1700	1600	1300
90x35	2000	1900	1600	1500	1400	1200	1300	1000	1200	800
140x35	2900	2900	2300	2400	2000	2000	1800	1800	1700	1500
190x35	3600	3600	3100	3100	2700	2800	2500	2500	2300	2200
90x42	2100	2100	1600	1600	1400	1300	1300	1100	1200	900
140x42	3100	3000	2500	2600	2200	2200	2000	1900	1800	1700
190x42	3800	3800	3200	3200	2900	2900	2700	2700	2500	2500
240x42	4500	4500	3900	3800	3500	3500	3300	3200	3100	3000
290x42	5200	5200	4400	4400	4000	4000	3800	3700	3600	3500
140x65	3400	3300	2800	2800	2500	2600	2300	2300	2100	2100
190x65	4200	4200	3600	3600	3300	3200	3000	3000	2900	2900
240x65	5000	5000	4300	4300	3900	3900	3600	3600	3400	3400
290x65	5700	5700	4900	4900	4500	4500	4200	4200	4000	4000
140x80	3500	3500	3000	3000	2700	2700	2400	2500	2200	2300
190x80	4400	4400	3800	3700	3400	3400	3200	3200	3000	3000
240x80	5200	5200	4500	4500	4100	4100	3800	3800	3600	3600
290x80	5900	5900	5100	5200	4700	4700	4400	4400	4200	4200

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Roof Mass of 40 (kg/m²).
- iii) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 18

Lintels - Tile Roof Single or Upper Storey Loadbearing Walls

	Roof Load Width (mm)									
	1500		3000		4500		6000		7500	
Rafter/Truss Spacing (mm)	600	1200	600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Maximum Lintel Span (mm)									
140x31	2200	2100	1700	1600	1500	1100	1300	600	1200	NS
90x35	1500	1400	1200	1000	1000	600	900	NS	800	NS
140x35	2200	2300	1800	1700	1500	1200	1400	700	1200 ₅	NS
190x35	3000	3000	2400	2400	2100	2000	1800	1500 ₁₀	1600 ₁₀	900
90x42	1600	1500	1300	1000	1100	700	1000	NS	900	NS
140x42	2400	2400	1900	1900	1600	1400	1500	1000	1300	600
190x42	3100	3100	2600	2600	2200	2200	2000	1800	1700	1400
240x42	3700	3700	3200	3100	2800	2800 ₁₀	2500 ₁₀	2400 ₁₅	2200 ₁₀	1800 ₁₀
290x42	4300	4300	3700	3600	3300	3300 ₅	3000 ₁₀	2900 ₂₀	2700 ₂₀	2600 ₃₀
140x65	2700	2800	2200	2200	1900	1900	1700	1500	1600	1200
190x65	3500	3500	3000	3000	2600	2600	2300	2300	2200	2100
240x65	4200	4200	3500	3500	3200	3200	3000	3000	2700	2700 ₅
290x65	4800	4800	4100	4100	3700	3700	3400	3400	3300	3200 ₅
140x80	2900	2900	2300	2400	2000	2000	1800	1800	1700	1500
190x80	3700	3600	3100	3100	2800	2800	2500	2600	2300	2300
240x80	4400	4400	3700	3700	3400	3300	3100	3100	3000	2900
290x80	5000	5000	4300	4300	3900	3900	3600	3600	3400	3400

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Roof Mass of 90 (kg/m²).
- iii) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 18

Lintels - Tile Roof Single or Upper Storey Loadbearing Walls

	Roof Load Width (mm)									
	1500		3000		4500		6000		7500	
Rafter/Truss Spacing (mm)	600	1200	600	1200	600	1200	600	1200	600	1200
Size DxB (mm)	Maximum Lintel Span (mm)									
140x31	2200	2100	1700	1600	1500	1300	1400	1100	1200	700
90x35	1500	1400	1200	1000	1000	800	900	700	900	NS
140x35	2200	2300	1800	1700	1500	1400	1400	1200	1300	900
190x35	3000	3000	2400	2400	2100	2100	1900	1900	1700	1600 ₅
90x42	1600	1500	1300	1000	1100	800	1000	700	900	NS
140x42	2400	2400	1900	1900	1600	1600	1500	1300	1400	1100
190x42	3100	3100	2600	2600	2200	2200	2000	2000	1900	1900
240x42	3700	3700	3200	3100	2800	2800	2600	2600 ₅	2400 ₅	2400 ₁₀
290x42	4300	4300	3700	3600	3300	3300	3100	3100 ₅	2900 ₁₀	2900 ₁₅
140x65	2700	2800	2200	2200	1900	1900	1700	1700	1600	1500
190x65	3500	3500	3000	3000	2600	2600	2300	2300	2200	2100
240x65	4200	4200	3500	3500	3200	3200	3000	3000	2800	2800
290x65	4800	4800	4100	4100	3700	3700	3400	3400	3300	3200
140x80	2900	2900	2300	2400	2000	2000	1800	1800	1700	1700
190x80	3700	3600	3100	3100	2800	2800	2500	2600	2300	2300
240x80	4400	4400	3700	3700	3400	3300	3100	3100	3000	3000
290x80	5000	5000	4300	4300	3900	3900	3600	3600	3400	3400

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Roof Mass of 90 (kg/m²).
- iii) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 19

Lintel Supporting Truncated Girders - Hip Ends Only Sheet Roof - Girder Truss Setback 2700 mm

	Truss Span (mm)							
	6000		9000		12000		15000	
Truss Spacing	600	1200	600	1200	600	1200	600	1200
GT setback (mm)	2700	2700	2700	2700	2700	2700	2700	2700
Size DxB (mm)	Maximum Lintel Span (mm)							
140x31	2300 ₅	2300 ₁₅	2300 ₂₅	2300 ₃₅	2300 ₃₅	2300 ₅₅	2300 ₅₀	2300 ₇₀
90x35	1700	1700	1700	1700	1700	1700	1700	1700
140x35	2400	2400 ₁₀	2300 ₁₅	2300 ₂₅	2300 ₂₅	2300 ₄₀	2300 ₄₀	2300 ₆₀
190x35	2500	2500 ₅	2500 ₁₅	2500 ₂₅	2400 ₂₅	2400 ₄₀	2400 ₃₅	2400 ₅₅
90x42	1800	1800	1800	1800	1800	1800	1800	1800
140x42	2400	2400	2400 ₅	2400 ₁₅	2300 ₁₅	2300 ₃₀	2300 ₂₅	2300 ₄₀
190x42	2500	2500	2500 ₅	2500 ₁₀	2500 ₁₅	2400 ₂₅	2400 ₂₅	2400 ₄₀
240x42	3000	2600	2600 ₅	2600 ₁₀	2600 ₁₅	2500 ₂₅	2600 ₂₅	2500 ₃₅
290x42	3400	3200	3000 ₅	2700 ₁₀	2700 ₁₅	2700 ₂₀	2700 ₂₅	2600 ₃₅
140x65	2600	2500	2500	2500	2400	2400 ₅	2400 ₅	2400 ₁₅
190x65	2900	2800	2700	2600	2500	2500 ₅	2500	2500 ₁₀
240x65	3600	3300	3000	2900	2900	2600	2600 ₅	2600 ₁₀
290x65	4800	3900	3500	3300	3200	3000	3000 ₅	2700 ₁₀
140x80	2900	2600	2500	2500	2500	2400	2400	2400 ₅
190x80	3200	3000	2900	2600	2500	2500	2500	2500 ₅
240x80	4100	3600	3300	3100	3000	2900	2900	2600
290x80	4600	4400	3800	3600	3400	3200	3200	3000

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Roof Mass of 40 (kg/m²).
- iii) The above table was based on a Lintel setback (mm) of 400, Lintel setback (mm) of 600.
- iv) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 19

Lintel Supporting Truncated Girders - Hip Ends Only Sheet Roof - Girder Truss Setback 2700 mm

	Truss Span (mm)							
	6000		9000		12000		15000	
Truss Spacing	600	1200	600	1200	600	1200	600	1200
GT setback (mm)	2700	2700	2700	2700	2700	2700	2700	2700
Size DxB (mm)	Maximum Lintel Span (mm)							
140x31	2300	2400	2300	2300 ₅	2300 ₁₀	2300 ₂₀	2300 ₂₀	2300 ₃₀
90x35	1700	1700	1700	1700	1700	1700	1700	1700
140x35	2400	2400	2300	2400	2300 ₅	2300 ₁₀	2300 ₁₀	2300 ₂₀
190x35	2800	2800	2700	2700	2600	2500 ₁₀	2500 ₅	2500 ₁₅
90x42	1800	1800	1800	1800	1800	1800	1800	1800
140x42	2400	2400	2400	2400	2400	2400 ₅	2300 ₅	2300 ₁₀
190x42	3000	3000	2800	2800	2700	2700	2700	2600 ₅
240x42	3600	3400	3300	3200	3100	3000	3000 ₅	2900 ₅
290x42	3900	3900	3700	3700	3500	3500	3400 ₅	3200 ₅
140x65	2600	2600	2600	2500	2500	2500	2500	2400
190x65	3300	3200	3100	3100	3000	2900	2900	2800
240x65	3800	3800	3600	3600	3400	3400	3300	3300
290x65	4400	4400	4100	4100	3900	3900	3800	3700
140x80	2800	2800	2700	2600	2600	2600	2500	2500
190x80	3400	3400	3200	3200	3100	3100	3000	3000
240x80	4000	4000	3800	3700	3600	3600	3500	3400
290x80	4600	4600	4300	4300	4100	4100	3900	3900

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Roof Mass of 40 (kg/m²).
- iii) The above table was based on a Lintel setback (mm) of 400, Lintel setback (mm) of 600.
- iv) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 20

Lintel Supporting Truncated Girders - Hip Ends Only Tile Roof - Girder Truss Setback 2400 mm

	Truss Span (mm)							
	6000		9000		12000		15000	
Truss Spacing	600	1200	600	1200	600	1200	600	1200
GT setback (mm)	2400	2400	2400	2400	2400	2400	2400	2400
Size DxB (mm)	Maximum Lintel Span (mm)							
90x31	1400	1400	1400	1400	1400	1400	1400	1400
90x35	1400	1400	1400	1400	1400	1400	1400	1400
140x35	2000 ₅	2000 ₁₀	2000 ₂₀	2000 ₃₀	2000 ₃₅	2000 ₅₀	2000 ₄₅	2000 ₇₀
190x35	2300	2200 ₁₀	2200 ₁₅	2200 ₂₅	2200 ₃₀	2100 ₄₅	2100 ₄₀	2100 ₆₅
90x42	1500	1500	1500	1500	1500	1500	1500	1500
140x42	2000	2100 ₅	2000 ₁₀	2000 ₂₀	2000 ₂₀	2000 ₃₅	2000 ₃₅	2000 ₅₀
190x42	2400	2400	2200 ₅	2200 ₁₅	2200 ₁₅	2200 ₃₀	2200 ₂₅	2100 ₄₅
240x42	3000	2800	2600 ₅	2300 ₁₅	2300 ₁₀	2300 ₂₅	2300 ₂₅	2300 ₄₀
290x42	3300	3200	2900 ₁₀	2800 ₁₀	2700 ₂₀	2400 ₂₅	2400 ₂₅	2400 ₄₀
140x65	2200	2200	2100	2100	2100	2100 ₁₀	2100 ₁₀	2100 ₂₀
190x65	2700	2600	2500	2500	2400	2300 ₅	2200 ₅	2200 ₁₅
240x65	3300	3200	3000	2800	2800	2600	2600 ₅	2300 ₁₅
290x65	3700	3700	3400	3400	3200	3000 ₅	2900 ₁₀	2700 ₁₀
140x80	2300	2200	2200	2200	2100	2100	2100	2100 ₁₀
190x80	2900	2800	2600	2600	2500	2400	2400	2300 ₅
240x80	3600	3300	3100	3100	3000	2800	2800	2600
290x80	3900	3900	3600	3600	3400	3300	3200	3000 ₅

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Roof Mass of 90 (kg/m²).
- iii) The above table was based on a Lintel setback (mm) of 400, Lintel setback (mm) of 600.
- iv) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 20

Lintel Supporting Truncated Girders - Hip Ends Only Tile Roof - Girder Truss Setback 2400 mm

	Truss Span							
	6000		9000		12000		15000	
Truss Spacing	600	1200	600	1200	600	1200	600	1200
GT setback (mm)	2400	2400	2400	2400	2400	2400	2400	2400
Size DxB (mm)	Maximum Lintel Span (mm)							
140x31	2000	2000 ₅	2000 ₁₀	2000 ₂₅	2000 ₂₅	2000 ₄₀	2000 ₃₅	2000 ₅₅
90x35	1400	1400	1400	1400	1400	1400	1400	1400
140x35	2000	2000	2000 ₅	2000 ₁₅	2000 ₁₅	2000 ₃₀	2000 ₂₅	2000 ₄₅
190x35	2300	2300	2200	2200 ₁₀	2200 ₁₅	2100 ₂₅	2100 ₂₅	2100 ₄₀
90x42	1500	1500	1500	1500	1500	1500	1500	1500
140x42	2000	2100	2000	2000 ₅	2000 ₁₀	2000 ₂₀	2000 ₁₅	2000 ₃₀
190x42	2400	2400	2300	2200 ₅	2200 ₅	2200 ₁₅	2200 ₁₀	2200 ₂₅
240x42	2900	2800	2700	2600	2600 ₅	2300 ₁₀	2300 ₁₀	2300 ₂₀
290x42	3300	3300	3100	3000	2900 ₁₀	2800 ₁₀	2800 ₁₅	2400 ₂₀
140x65	2200	2200	2100	2100	2100	2100	2100	2100 ₅
190x65	2700	2600	2500	2500	2400	2400	2300	2200 ₅
240x65	3300	3200	3000	2900	2800	2800	2700	2600
290x65	3700	3700	3400	3400	3300	3200	3100	3000
140x80	2300	2200	2200	2200	2100	2100	2100	2100
190x80	2900	2800	2600	2600	2500	2400	2400	2400
240x80	3400	3300	3100	3100	3000	2900	2900	2800
290x80	3900	3900	3600	3600	3400	3300	3300	3200

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Roof Mass of 90 (kg/m²).
- iii) The above table was based on a Lintel setback (mm) of 400, Lintel setback (mm) of 600.
- iv) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 29

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Single Span					
140x31	10	4600	650	3600	500	3000	450
	20	4400	650	3700	550	3100	450
	40	3600	700	3200	550	2900	450
	60	3200	700	2800	550	2600	450
	90	2800	700	2500	550	2300	500
90x35	10	2600	500	2400	400	2000	350
	20	2600	500	2400	400	2000	350
	40	2400	500	2100	400	1900	350
	60	2100	500	1900	400	1700	350
	90	1900	500	1600	400	1500	350
140x35	10	4900	700	3900	550	3200	500
	20	4500	700	4000	550	3300	500
	40	3800	750	3300	600	3000	500
	60	3300	750	2900	600	2700	500
	90	2900	750	2600	600	2400	500

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Single Span					
190x35	10	6700	900	5400	750	4600	600
	20	6000	900	5500	750	4700	600
	40	5100	950	4500	750	4100	650
	60	4500	950	4000	750	3700	650
	90	4000	1000	3500	800	3200	650
90x42	10	3000	550	2600	450	2200	350
	20	3000	550	2700	450	2200	350
	40	2500	550	2200	450	2100	400
	60	2200	550	2000	450	1800	400
	90	2000	600	1700	450	1600	400
140x42	10	5400	800	4300	650	3600	550
	20	4700	800	4300	650	3700	550
	40	4000	800	3500	650	3200	550
	60	3500	850	3100	650	2900	550
	90	3100	850	2700	700	2500	600
190x42	10	6800	1000	6000	800	5100	700
	20	6200	1000	5700	800	5200	700
	40	5300	1050	4800	850	4400	700
	60	4800	1050	4200	850	3900	700
	90	4200	1100	3700	900	3400	750
240x42	10	7900	1250	7500	1000	6500	850
	20	7200	1250	6800	1000	6500	850
	40	6500	1250	6000	1000	5500	850
	60	6000	1300	5300	1050	4900	900
	90	5300	1350	4700	1050	4300	900

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Single Span					
290x42	10	8400	1450	8400	1150	8000	950
	20	8200	1450	7700	1150	7400	1000
	40	7400	1500	6800	1200	6400	1000
	60	6800	1500	6300	1200	5900	1000
	90	6300	1550	5700	1250	5200	1050
140x65	10	5900	1000	5500	800	4600	700
	20	5200	1000	4800	800	4500	700
	40	4500	1050	4000	850	3700	700
	60	4000	1050	3600	850	3300	700
	90	3600	1100	3200	850	2900	750
190x65	10	7100	1300	6900	1050	6500	900
	20	6600	1300	6200	1050	6000	900
	40	6000	1350	5400	1050	5000	900
	60	5400	1350	4800	1100	4500	950
	90	4800	1400	4300	1100	3900	950
240x65	10	8200	1600	7900	1250	7700	1100
	20	7700	1600	7300	1300	7000	1100
	40	7000	1650	6500	1300	6200	1100
	60	6500	1650	6000	1350	5600	1150
	90	6000	1700	5400	1350	5000	1150
290x65	10	8400	1900	8400	1500	8400	1250
	20	8400	1900	8200	1500	7900	1250
	40	7900	1950	7400	1550	7000	1300
	60	7400	1950	6900	1550	6500	1300
	90	6900	2050	6400	1600	6000	1350

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Single Span					
140x80	10	6000	1150	5700	900	5200	800
	20	5500	1150	5000	900	4700	800
	40	4700	1150	4300	950	3900	800
	60	4300	1200	3800	950	3500	800
	90	3800	1200	3400	950	3100	850
190x80	10	7300	1450	7000	1200	6800	1000
	20	6800	1500	6400	1200	6200	1000
	40	6200	1500	5700	1200	5300	1050
	60	5700	1550	5100	1250	4700	1050
	90	5100	1600	4600	1250	4200	1100
240x80	10	8300	1800	8100	1450	7900	1200
	20	7800	1800	7500	1450	7200	1250
	40	7200	1850	6800	1450	6400	1250
	60	6800	1900	6300	1500	5900	1300
	90	6300	1950	5700	1550	5300	1300
290x80	10	8400	2150	8400	1700	8400	1450
	20	8400	2150	8400	1700	8200	1450
	40	8200	2200	7700	1750	7300	1450
	60	7700	2250	7200	1750	6800	1500
	90	7200	2300	6600	1800	6300	1550

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Continuous Span					
140x31	10	4600	650	3600	500	3000	450
	20	4700	650	3700	550	3100	450
	40	4800	700	3800	550	3200	450
	60	4400	700	3600	550	3000	450
	90	3800	700	3400	550	2800	500
90x35	10	3000	500	2400	400	2000	350
	20	3100	500	2400	400	2000	350
	40	3200	500	2500	400	2100	350
	60	2900	500	2400	400	2000	350
	90	2500	500	2200	400	1800	350
140x35	10	4900	700	3900	550	3200	500
	20	5000	700	4000	550	3300	500
	40	5100	750	4100	600	3500	500
	60	4500	750	3900	600	3300	500
	90	4000	750	3500	600	3000	500

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Continuous Span					
190x35	10	6800	900	5400	750	4600	600
	20	6900	900	5500	750	4700	600
	40	6600	950	5700	750	4800	650
	60	6100	950	5400	750	4600	650
	90	5400	1000	4800	800	4200	650
90x42	10	3400	550	2600	450	2200	350
	20	3400	550	2700	450	2200	350
	40	3500	550	2800	450	2300	400
	60	3100	550	2600	450	2200	400
	90	2700	600	2400	450	2000	400
140x42	10	5400	800	4300	650	3600	550
	20	5500	800	4400	650	3700	550
	40	5400	800	4500	650	3800	550
	60	4800	850	4300	650	3600	550
	90	4300	850	3700	700	3400	600
190x42	10	7500	1000	6000	800	5100	700
	20	7700	1000	6100	800	5200	700
	40	6900	1050	6200	850	5300	700
	60	6400	1050	5800	850	5000	700
	90	5800	1100	5100	900	4700	750
240x42	10	8400	1250	7700	1000	6500	850
	20	8400	1250	7800	1000	6700	850
	40	8100	1250	7500	1000	6800	850
	60	7500	1300	6900	1050	6500	900
	90	6900	1350	6300	1050	5900	900

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Continuous Span					
290x42	10	8400	1450	8400	1150	8000	950
	20	8400	1450	8400	1150	8200	1000
	40	8400	1500	8400	1200	8100	1000
	60	8400	1500	7900	1200	7400	1000
	90	7900	1550	7300	1250	6800	1050
140x65	10	6900	1000	5500	800	4600	700
	20	6800	1000	5600	800	4700	700
	40	6100	1050	5500	850	4900	700
	60	5500	1050	4900	850	4500	700
	90	4900	1100	4300	850	3900	750
190x65	10	8400	1300	7600	1050	6500	900
	20	8300	1300	7800	1050	6600	900
	40	7500	1350	7000	1050	6600	900
	60	7000	1350	6400	1100	6000	950
	90	6400	1400	5900	1100	5400	950
240x65	10	8400	1600	8400	1250	8300	1100
	20	8400	1600	8400	1300	8400	1100
	40	8400	1650	8200	1300	7800	1100
	60	8200	1650	7600	1350	7100	1150
	90	7600	1700	7000	1350	6500	1150
290x65	10	8400	1900	8400	1500	8400	1250
	20	8400	1900	8400	1500	8400	1250
	40	8400	1950	8400	1550	8400	1300
	60	8400	1950	8400	1550	8200	1300
	90	8400	2050	8000	1600	7500	1350

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Continuous Span					
140x80	10	7600	1150	6200	900	5200	800
	20	7000	1150	6300	900	5300	800
	40	6300	1150	5800	950	5400	800
	60	5800	1200	5200	950	4800	800
	90	5200	1200	4600	950	4200	850
190x80	10	8400	1450	8400	1200	7300	1000
	20	8400	1500	8100	1200	7400	1000
	40	7800	1500	7200	1200	6900	1050
	60	7200	1550	6700	1250	6300	1050
	90	6700	1600	6200	1250	5700	1100
240x80	10	8400	1800	8400	1450	8400	1200
	20	8400	1800	8400	1450	8400	1250
	40	8400	1850	8400	1450	8100	1250
	60	8400	1900	7900	1500	7500	1300
	90	7900	1950	7300	1550	6900	1300
290x80	10	8400	2150	8400	1700	8400	1450
	20	8400	2150	8400	1700	8400	1450
	40	8400	2200	8400	1750	8400	1450
	60	8400	2250	8400	1750	8400	1500
	90	8400	2300	8300	1800	7900	1550

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Single Span					
140x31	10	5200	850	4500	650	3800	550
	20	4400	850	3900	650	3600	550
	40	3600	850	3200	700	2900	600
	60	3200	900	2800	700	2600	600
	90	2800	950	2500	750	2300	650
90x35	10	2600	600	2400	500	2300	400
	20	2600	600	2400	500	2300	400
	40	2400	650	2100	500	1900	450
	60	2100	650	1900	500	1700	450
	90	1900	650	1600	500	1500	450
140x35	10	5300	900	4900	700	4100	600
	20	4500	900	4100	700	3800	600
	40	3800	900	3300	750	3000	650
	60	3300	950	2900	750	2700	650
	90	2900	1000	2600	800	2400	700

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Single Span					
190x35	10	6700	1150	6300	900	5700	800
	20	6000	1150	5500	900	5100	800
	40	5100	1200	4500	950	4100	800
	60	4500	1250	4000	1000	3700	850
	90	4000	1300	3500	1050	3200	900
90x42	10	3000	650	2800	550	2500	450
	20	3000	700	2800	550	2500	450
	40	2500	700	2200	550	2100	500
	60	2200	700	2000	600	1800	500
	90	2000	750	1700	600	1600	500
140x42	10	5500	1000	5100	800	4500	650
	20	4700	1000	4300	800	4000	700
	40	4000	1000	3500	850	3200	700
	60	3500	1050	3100	850	2900	750
	90	3100	1100	2700	900	2500	750
190x42	10	6800	1300	6500	1000	6200	850
	20	6200	1300	5700	1050	5300	900
	40	5300	1350	4800	1050	4400	900
	60	4800	1350	4200	1100	3900	950
	90	4200	1450	3700	1150	3400	1000
240x42	10	7900	1550	7500	1250	7200	1050
	20	7200	1600	6800	1250	6500	1050
	40	6500	1600	6000	1300	5500	1100
	60	6000	1650	5300	1350	4900	1150
	90	5300	1750	4700	1400	4300	1200

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Single Span					
290x42	10	8400	1850	8400	1450	8200	1250
	20	8200	1850	7700	1450	7400	1250
	40	7400	1900	6800	1500	6400	1300
	60	6800	2000	6300	1550	5900	1350
	90	6300	2100	5700	1650	5200	1400
140x65	10	5900	1250	5500	1000	5200	850
	20	5200	1300	4800	1000	4500	900
	40	4500	1300	4000	1050	3700	900
	60	4000	1350	3600	1100	3300	900
	90	3600	1400	3200	1150	2900	950
190x65	10	7100	1650	6900	1300	6600	1100
	20	6600	1650	6200	1350	6000	1150
	40	6000	1700	5400	1350	5000	1150
	60	5400	1750	4800	1400	4500	1200
	90	4800	1850	4300	1500	3900	1250
240x65	10	8200	2000	7900	1600	7700	1350
	20	7700	2050	7300	1600	7000	1400
	40	7000	2100	6500	1650	6200	1400
	60	6500	2150	6000	1700	5600	1450
	90	6000	2300	5400	1800	5000	1550
290x65	10	8400	2400	8400	1900	8400	1600
	20	8400	2400	8200	1900	7900	1600
	40	7900	2500	7400	1950	7000	1650
	60	7400	2550	6900	2050	6500	1700
	90	6900	2700	6400	2150	6000	1800

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Single Span					
140x80	10	6000	1400	5700	1150	5500	950
	20	5500	1450	5000	1150	4700	1000
	40	4700	1450	4300	1200	3900	1000
	60	4300	1500	3800	1200	3500	1050
	90	3800	1600	3400	1300	3100	1100
190x80	10	7300	1850	7000	1500	6800	1250
	20	6800	1850	6400	1500	6200	1300
	40	6200	1950	5700	1550	5300	1300
	60	5700	2000	5100	1600	4700	1350
	90	5100	2100	4600	1650	4200	1400
240x80	10	8300	2300	8100	1800	7900	1550
	20	7800	2300	7500	1850	7200	1550
	40	7200	2400	6800	1900	6400	1600
	60	6800	2450	6300	1950	5900	1650
	90	6300	2600	5700	2050	5300	1750
290x80	10	8400	2700	8400	2150	8400	1800
	20	8400	2750	8400	2150	8200	1850
	40	8200	2800	7700	2200	7300	1900
	60	7700	2900	7200	2300	6800	1950
	90	7200	3050	6600	2400	6300	2050

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Continuous Span					
140x31	10	5700	850	4500	650	3800	550
	20	5900	850	4700	650	3900	550
	40	4900	850	4400	700	3800	600
	60	4400	900	3800	700	3500	600
	90	3800	950	3400	750	3100	650
90x35	10	3400	600	3000	500	2400	400
	20	3400	600	3100	500	2500	400
	40	3300	650	2900	500	2400	450
	60	2900	650	2500	500	2300	450
	90	2500	650	2200	500	2000	450
140x35	10	6100	900	4900	700	4100	600
	20	6100	900	5000	700	4200	600
	40	5100	900	4500	750	4000	650
	60	4500	950	4000	750	3700	650
	90	4000	1000	3500	800	3200	700

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Continuous Span					
190x35	10	8400	1150	6800	900	5700	800
	20	7500	1150	7000	900	5900	800
	40	6600	1200	6100	950	5600	800
	60	6100	1250	5400	1000	5000	850
	90	5400	1300	4800	1050	4400	900
90x42	10	3900	650	3300	550	2700	450
	20	3900	700	3400	550	2800	450
	40	3500	700	3100	550	2700	500
	60	3100	700	2700	600	2500	500
	90	2700	750	2400	600	2200	500
140x42	10	6800	1000	5400	800	4500	650
	20	6300	1000	5600	800	4700	700
	40	5400	1000	4800	850	4400	700
	60	4800	1050	4300	850	3900	750
	90	4300	1100	3700	900	3400	750
190x42	10	8400	1300	7500	1000	6300	850
	20	7800	1300	7300	1050	6500	900
	40	6900	1350	6400	1050	6000	900
	60	6400	1350	5800	1100	5300	950
	90	5800	1450	5100	1150	4700	1000
240x42	10	8400	1550	8400	1250	8200	1050
	20	8400	1600	8400	1250	8100	1050
	40	8100	1600	7500	1300	7100	1100
	60	7500	1650	6900	1350	6500	1150
	90	6900	1750	6300	1400	5900	1200

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Continuous Span					
290x42	10	8400	1850	8400	1450	8400	1250
	20	8400	1850	8400	1450	8400	1250
	40	8400	1900	8400	1500	8100	1300
	60	8400	2000	7900	1550	7400	1350
	90	7900	2100	7300	1650	6800	1400
140x65	10	7500	1250	6900	1000	5800	850
	20	6800	1300	6400	1000	6000	900
	40	6100	1300	5500	1050	5000	900
	60	5500	1350	4900	1100	4500	900
	90	4900	1400	4300	1150	3900	950
190x65	10	8400	1650	8400	1300	8100	1100
	20	8300	1650	7800	1350	7500	1150
	40	7500	1700	7000	1350	6600	1150
	60	7000	1750	6400	1400	6000	1200
	90	6400	1850	5900	1500	5400	1250
240x65	10	8400	2000	8400	1600	8400	1350
	20	8400	2050	8400	1600	8400	1400
	40	8400	2100	8200	1650	7800	1400
	60	8200	2150	7600	1700	7100	1450
	90	7600	2300	7000	1800	6500	1550
290x65	10	8400	2400	8400	1900	8400	1600
	20	8400	2400	8400	1900	8400	1600
	40	8400	2500	8400	1950	8400	1650
	60	8400	2550	8400	2050	8200	1700
	90	8400	2700	8000	2150	7500	1800

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 29 (cont)

Rafters or Roofing Purlins (House, Verandah or Pergola)

Size DxB (mm)	Roof Mass (kg/m2)	Rafter Spacing (mm)					
		600		900		1200	
		Maximum Rafter Span & OverHang (mm)					
		Span	O/H	Span	O/H	Span	O/H
		Continuous Span					
140x80	10	7600	1400	7300	1150	6500	950
	20	7000	1450	6600	1150	6300	1000
	40	6300	1450	5800	1200	5400	1000
	60	5800	1500	5200	1200	4800	1050
	90	5200	1600	4600	1300	4200	1100
190x80	10	8400	1850	8400	1500	8400	1250
	20	8400	1850	8100	1500	7800	1300
	40	7800	1950	7200	1550	6900	1300
	60	7200	2000	6700	1600	6300	1350
	90	6700	2100	6200	1650	5700	1400
240x80	10	8400	2300	8400	1800	8400	1550
	20	8400	2300	8400	1850	8400	1550
	40	8400	2400	8400	1900	8100	1600
	60	8400	2450	7900	1950	7500	1650
	90	7900	2600	7300	2050	6900	1750
290x80	10	8400	2700	8400	2150	8400	1800
	20	8400	2750	8400	2150	8400	1850
	40	8400	2800	8400	2200	8400	1900
	60	8400	2900	8400	2300	8400	1950
	90	8400	3050	8300	2400	7900	2050

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- ii) The above table was based on a Batten Spacing (mm) of 900.
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 50 % of Backspan.
- v) Maximum BirdsMouth Depth = 30.00% of depth.
- vi) End bearing lengths = 35 mm at end supports and 45 mm at internal supports for continuous members.
- vii) Construction loads shall not be applied to overhangs until a 190x19 (min) timber fascia or other fascia of equivalent stiffness is rigidly and permanently attached to the end of rafter overhangs.

TABLE 30

Ridge or Intermediate Beams

Size DxB (mm)	Roof Mass (kg/m2)	Roof Load Width (mm)									
		1500		3000		4500		6000		7500	
		Maximum Beam Span & OverHang (mm)									
		Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H
140x31	20	2200	900	1500	600	1200	500	1100	450	1000	400
	40	2200	900	1600	650	1300	500	1100	450	1000	400
	60	2300	900	1600	650	1300	550	1100	450	1000	400
	90	2100	950	1600	650	1300	550	1100	500	1000	450
90x35	20	1500	600	1000	400	NS	NS	NS	NS	NS	NS
	40	1500	600	1000	450	NS	NS	NS	NS	NS	NS
	60	1500	600	1100	450	NS	NS	NS	NS	NS	NS
	90	1400	650	1100	450	NS	NS	NS	NS	NS	NS
140x35	20	2300	950	1600	650	1300	550	1200	500	1000	450
	40	2400	950	1700	700	1400	550	1200	500	1100	450
	60	2500	950	1700	700	1400	550	1200	500	1100	450
	90	2200	1000	1700	700	1400	600	1200	500	1100	450
190x35	20	3200	1300	2300	900	1800	750	1600	650	1400	600
	40	3400	1300	2300	900	1900	750	1600	650	1500	600
	60	3400	1300	2400	950	2000	750	1700	650	1500	600
	90	3000	1350	2300	950	1900	800	1700	700	1500	600
90x42	20	1600	650	1100	450	NS	NS	NS	NS	NS	NS
	40	1700	650	1200	450	NS	NS	NS	NS	NS	NS
	60	1600	700	1200	500	1000	400	NS	NS	NS	NS
	90	1400	700	1100	500	1000	400	NS	NS	NS	NS
140x42	20	2600	1050	1800	750	1500	600	1300	500	1100	450
	40	2600	1050	1900	750	1500	600	1300	550	1200	500
	60	2600	1050	1900	750	1600	600	1400	550	1200	500
	90	2300	1100	1800	800	1600	650	1300	550	1200	500
190x42	20	3600	1400	2500	1000	2000	800	1800	700	1600	650
	40	3700	1450	2600	1000	2100	850	1800	700	1600	650
	60	3600	1450	2600	1050	2200	850	1900	750	1700	650
	90	3200	1500	2500	1050	2100	850	1800	750	1600	700
240x42	20	4700	1800	3200	1250	2600	1050	2300	900	2000	800
	40	4900	1850	3300	1300	2700	1050	2300	900	2100	800
	60	4500	1900	3400	1300	2800	1050	2400	950	2100	850
	90	4000	1900	3200	1350	2700	1100	2300	950	2100	850

NOTES :

- D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- Minimum BackSpan = 200 % of Overhang.
- Maximum Overhang = 50 % of Backspan.
- Minimum bearing length = 45 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 45 mm.
- Rafter Spacing up to 1200mm.

TABLE 30 (cont)

Ridge or Intermediate Beams

Size DxB (mm)	Roof Mass (kg/m2)	Roof Load Width (mm)									
		1500		3000		4500		6000		7500	
		Maximum Beam Span & OverHang (mm)									
		Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H
290x42	20	5800	2250	3900	1550	3200	1250	2700	1100	2500	1000
	40	6000	2300	4000	1550	3300	1300	2800	1100	2500	1000
	60	5400	2300	4100	1600	3300	1300	2900	1150	2600	1000
	90	4800	2300	3800	1650	3300	1350	2800	1150	2500 _s	1050
140x65	20	3300	1300	2300	900	1900	750	1600	650	1400	600
	40	3400	1300	2400	950	1900	750	1700	650	1500	600
	60	3000	1300	2400	950	2000	800	1700	700	1500	600
	90	2700	1300	2100	1000	1800	800	1600	700	1500	650
190x65	20	4700	1750	3200	1250	2600	1050	2200	900	2000	800
	40	4600	1750	3200	1250	2600	1050	2300	900	2100	800
	60	4100	1750	3300	1300	2700	1050	2400	900	2100	850
	90	3600	1750	2900	1350	2500	1100	2200	950	2100	850
240x65	20	6000	2250	4000	1600	3300	1300	2800	1150	2500	1000
	40	5800	2250	4100	1600	3400	1300	2900	1150	2600	1050
	60	5200	2250	4100	1650	3500	1350	3000	1150	2700	1050
	90	4600	2250	3700	1700	3200	1400	2900	1200	2600	1100
290x65	20	7400	2700	4900	1900	4000	1600	3500	1350	3100	1250
	40	6700	2700	5000	1950	4100	1600	3600	1400	3200	1250
	60	6200	2700	5000	2000	4200	1650	3700	1400	3300	1250
	90	5600	2600	4400	2050	3900	1700	3500	1450	3200	1300
140x80	20	3700	1400	2600	1000	2100	850	1800	750	1600	650
	40	3600	1400	2600	1050	2100	850	1900	750	1700	650
	60	3200	1400	2600	1050	2200	850	1900	750	1700	700
	90	2900	1400	2300	1100	2000	900	1800	750	1600	700
190x80	20	5300	1900	3500	1400	2900	1150	2500	1000	2200	900
	40	4900	1900	3600	1400	2900	1150	2600	1000	2300	900
	60	4400	1900	3500	1450	3000	1200	2600	1050	2400	900
	90	3900	1900	3100	1500	2700	1200	2400	1050	2200	950
240x80	20	6800	2400	4500	1750	3700	1450	3200	1250	2800	1150
	40	6100	2400	4600	1800	3800	1450	3300	1300	2900	1150
	60	5500	2400	4400	1850	3800	1500	3400	1300	3000	1150
	90	4900	2400	3900	1900	3400	1550	3100	1350	2800	1200
290x80	20	7700	2900	5400	2150	4400	1750	3800	1500	3500	1350
	40	6900	2900	5600	2200	4600	1800	4000	1550	3600	1400
	60	6400	2900	5300	2200	4600	1800	4100	1600	3700	1400
	90	5900	2750	4700	2300	4100	1850	3700	1600	3400	1450

NOTES :

- D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- Minimum BackSpan = 200 % of Overhang.
- Maximum Overhang = 50 % of Backspan.
- Minimum bearing length = 45 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 45 mm.
- Rafter Spacing up to 1200mm.

TABLE 30

Ridge or Intermediate Beams

Size DxB (mm)	Roof Mass (kg/m2)	Roof Load Width (mm)									
		1500		3000		4500		6000		7500	
		Maximum Beam Span & OverHang (mm)									
		Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H
140x31	20	3200	1000	2400	750	2000	650	1700	550	1500	500
	40	2700	1000	2100	800	1800	650	1600	550	1400	500
	60	2400	1000	1800	800	1600	650	1400	600	1300	550
	90	2100	1000	1600	800	1400	700	1300	600	1100	550
90x35	20	2100	700	1600	500	1300	450	1100	400	1000	350
	40	1800	700	1400	550	1200	450	1000	400	NS	NS
	60	1500	700	1200	550	1000	450	NS	NS	NS	NS
	90	1400	650	1100	550	NS	NS	NS	NS	NS	NS
140x35	20	3400	1050	2500	800	2100	700	1800	600	1600	550
	40	2800	1050	2200	850	1900	700	1600	600	1500	550
	60	2500	1050	1900	850	1700	700	1500	600	1300	550
	90	2200	1050	1700	800	1500	750	1300	650	1200	550
190x35	20	4600	1450	3500	1100	2900	900	2500	800	2200	700
	40	3800	1450	3000	1150	2500	950	2300	800	2100	750
	60	3400	1450	2600	1200	2300	950	2000	850	1900	750
	90	3000	1450	2300	1100	2000	1000	1800	900	1600	800
90x42	20	2300	750	1800	600	1400	500	1300	400	1100	350
	40	1900	750	1400	600	1200	500	1100	450	1000	400
	60	1600	750	1300	600	1100	500	1000	450	NS	NS
	90	1400	700	1100	500	1000	500	NS	NS	NS	NS
140x42	20	3600	1100	2800	900	2300	750	2000	650	1800	600
	40	3000	1100	2300	950	2000	750	1800	650	1600	600
	60	2600	1100	2000	950	1800	800	1600	700	1400	600
	90	2300	1100	1800	900	1600	800	1400	700	1300	650
190x42	20	4800	1500	3800	1250	3200	1000	2800	900	2500	800
	40	4000	1500	3200	1250	2700	1050	2400	900	2200	800
	60	3600	1500	2800	1300	2400	1050	2200	950	2000	850
	90	3200	1500	2500	1200	2100	1000	1900	900	1800	850
240x42	20	6000	1900	4800	1550	4000	1300	3500	1100	3100	1000
	40	5100	1900	4000	1600	3400	1300	3100	1150	2800	1050
	60	4500	1900	3600	1650	3100	1350	2800	1200	2500	1050
	90	4000	1900	3200	1600	2700	1300	2500	1250	2300	1100

NOTES :

- D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- Minimum BackSpan = 200 % of Overhang.
- Maximum Overhang = 50 % of Backspan.
- Minimum bearing length = 45 mm at end supports.
- Rafter Spacing up to 1200mm.

TABLE 30 (cont)

Ridge or Intermediate Beams

Size DxB (mm)	Roof Mass (kg/m2)	Roof Load Width (mm)									
		1500		3000		4500		6000		7500	
		Maximum Beam Span & OverHang (mm)									
		Span	O/H	Span	O/H	Span	O/H	Span	O/H	Span	O/H
290x42	20	6900	2300	5800	1900	4900	1550	4300	1350	3800	1200
	40	6100	2300	4800	1950	4200	1600	3700	1400	3400	1250
	60	5400	2300	4300	2000	3700	1650	3400	1450	3100	1300
	90	4800	2300	3800	1900	3300	1600	3000	1500	2700	1350
140x65	20	4100	1300	3200	1150	2700	950	2400	800	2200	750
	40	3400	1300	2700	1150	2300	950	2000	850	1900	750
	60	3000	1300	2400	1200	2100	1000	1800	850	1700	750
	90	2700	1300	2100	1000	1800	900	1600	800	1500	700
190x65	20	5400	1750	4300	1550	3700	1250	3300	1100	3000	1000
	40	4600	1750	3700	1600	3100	1300	2800	1150	2600	1000
	60	4100	1750	3300	1650	2800	1350	2500	1150	2300	1050
	90	3600	1750	2900	1400	2500	1200	2200	1100	2100	1000
240x65	20	6600	2250	5500	1950	4700	1600	4200	1400	3800	1250
	40	5800	2250	4600	2000	4000	1650	3600	1450	3300	1300
	60	5200	2250	4100	2050	3600	1700	3200	1500	2900	1350
	90	4600	2250	3700	1800	3200	1600	2900	1400	2600	1300
290x65	20	7500	2700	6400	2400	5700	1950	5000	1700	4600	1500
	40	6700	2700	5600	2450	4800	2000	4300	1750	3900	1550
	60	6200	2700	5000	2350	4300	2050	3900	1800	3600	1600
	90	5600	2600	4400	2200	3900	1950	3500	1700	3200	1600
140x80	20	4300	1400	3400	1250	2900	1050	2600	900	2300	800
	40	3600	1400	2900	1300	2500	1050	2200	950	2000	850
	60	3200	1400	2600	1300	2200	1100	2000	950	1800	850
	90	2900	1400	2300	1100	2000	1000	1800	900	1600	800
190x80	20	5700	1900	4600	1700	4000	1400	3500	1250	3200	1100
	40	4900	1900	3900	1750	3400	1450	3000	1250	2700	1150
	60	4400	1900	3500	1700	3000	1500	2700	1300	2500	1150
	90	3900	1900	3100	1500	2700	1300	2400	1200	2200	1100
240x80	20	6800	2400	5800	2200	5000	1800	4400	1550	4000	1400
	40	6100	2400	4900	2250	4300	1850	3800	1600	3500	1450
	60	5500	2400	4400	2150	3800	1900	3400	1650	3200	1500
	90	4900	2400	3900	1900	3400	1700	3100	1500	2800	1400
290x80	20	7700	2900	6700	2650	6000	2150	5400	1900	4900	1700
	40	6900	2900	5900	2650	5200	2250	4600	1950	4200	1750
	60	6400	2900	5300	2500	4600	2250	4200	2000	3800	1800
	90	5900	2750	4700	2300	4100	2000	3700	1800	3400	1700

NOTES :

- D = member depth, B = member breadth, NS = not suitable, O/H = Overhang (mm).
- Minimum BackSpan = 200 % of Overhang.
- Maximum Overhang = 50 % of Backspan.
- Minimum bearing length = 45 mm at end supports.
- Rafter Spacing up to 1200mm.

TABLE 47

Lintels - Sheet Roof Lower Storey Load Bearing Walls

	Roof Load Width (mm)									
	1500		3000		4500		6000		7500	
Upper Floor Load Width (mm)	1800	3600	1800	3600	1800	3600	1800	3600	1800	3600
Size DxB (mm)	Maximum Lintel Span (mm)									
Sheet Roof										
140x31	1700	1400	1600	1400	1500	1300	1400	1300	1400	1200
90x35	1200	1000	1100	1000	1100	900	1000	900	1000	900
140x35	1800	1500	1700	1400	1600	1400	1500	1300	1400	1300
190x35	2400	2000	2300	1900	2100	1900	2000	1800	1900	1700
90x42	1300	1000	1200	1000	1100	1000	1100	900	1000	900
140x42	1900	1600	1800	1500	1700	1500	1600	1400	1500	1400
190x42	2600	2100	2400	2100	2300	2000	2200	1900	2100	1900
240x42	3200	2700	3000	2600	2900	2500	2700	2400	2600	2400
290x42	3600	3200	3500	3100 _s	3300	3000 _s	3200	3000 _s	3100	2900 _s
140x65	2200	1800	2000	1800	1900	1700	1800	1600	1800	1600
190x65	3000	2500	2800	2400	2600	2300	2500	2200	2400	2200
240x65	3500	3100	3400	3000	3200	2900	3100	2800	3000	2700
290x65	4100	3600	3900	3500	3700	3400	3600	3300	3500	3200
140x80	2300	2000	2200	1900	2100	1800	2000	1800	1900	1700
190x80	3100	2700	3000	2600	2800	2500	2700	2400	2600	2300
240x80	3700	3300	3500	3200	3400	3100	3300	3000	3200	2900
290x80	4300	3800	4100	3700	3900	3600	3800	3500	3700	3400

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Sheet Roof Mass of 40 (kg/m²), Total Upper Floor Mass of 40 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- iii) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 47

Lintels - Sheet Roof Lower Storey Load Bearing Walls

	Roof Load Width (mm)									
	1500		3000		4500		6000		7500	
Upper Floor Load Width (mm)	1800	3600	1800	3600	1800	3600	1800	3600	1800	3600
Size DxB (mm)	Maximum Lintel Span (mm)									
Sheet Roof										
140x31	1700	1400	1600	1400	1500	1300	1400	1300	1400	1200
90x35	1200	1000	1100	1000	1100	900	1000	900	1000	900
140x35	1800	1500	1700	1400	1600	1400	1500	1300	1400	1300
190x35	2400	2000	2300	1900	2100	1900	2000	1800	1900	1700
90x42	1300	1000	1200	1000	1100	1000	1100	900	1000	900
140x42	1900	1600	1800	1500	1700	1500	1600	1400	1500	1400
190x42	2600	2100	2400	2100	2300	2000	2200	1900	2100	1900
240x42	3200	2700	3000	2600	2900	2500	2700	2400	2600	2400
290x42	3600	3200	3500	3100 _s	3300	3000 _s	3200	3000 _s	3100	2900 _s
140x65	2200	1800	2000	1800	1900	1700	1800	1600	1800	1600
190x65	3000	2500	2800	2400	2600	2300	2500	2200	2400	2200
240x65	3500	3100	3400	3000	3200	2900	3100	2800	3000	2700
290x65	4100	3600	3900	3500	3700	3400	3600	3300	3500	3200
140x80	2300	2000	2200	1900	2100	1800	2000	1800	1900	1700
190x80	3100	2700	3000	2600	2800	2500	2700	2400	2600	2300
240x80	3700	3300	3500	3200	3400	3100	3300	3000	3200	2900
290x80	4300	3800	4100	3700	3900	3600	3800	3500	3700	3400

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Sheet Roof Mass of 40 (kg/m²), Total Upper Floor Mass of 40 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- iii) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 48

Lintels - Tile Roof Lower Storey Load Bearing Walls

	Roof Load Width (mm)									
	1500		3000		4500		6000		7500	
Upper Floor Load Width (mm)	1800	3600	1800	3600	1800	3600	1800	3600	1800	3600
Size DxB (mm)	Maximum Lintel Span (mm)									
Tile Roof										
140x31	1600	1400	1400	1300	1300	1200	1200	1100	1100	1100
90x35	1100	900	1000	900	900	800	800	800	800	700
140x35	1600	1400	1500	1300	1300	1200	1300	1200	1200	1100
190x35	2200	1900	2000	1800	1800	1700	1700	1600	1600	1500 ₅
90x42	1200	1000	1000	900	900	900	900	800	800	800
140x42	1700	1500	1600	1400	1400	1300	1300	1200	1300	1200
190x42	2400	2000	2100	1900	1900	1800	1800	1700	1700	1600
240x42	3000	2600	2700	2400	2500	2300	2300	2100 ₅	2200 ₅	2000 ₁₀
290x42	3400	3100 ₅	3200	2900 ₅	3000	2700 ₁₀	2800 ₅	2600 ₁₀	2600 ₁₀	2500 ₁₅
140x65	2000	1700	1800	1600	1700	1500	1500	1400	1500	1400
190x65	2700	2400	2500	2200	2300	2100	2100	2000	2000	1900
240x65	3300	3000	3100	2800	2900	2600	2700	2500	2500	2400
290x65	3800	3500	3500	3300	3300	3100	3200	3000	3000	2900 ₅
140x80	2200	1900	1900	1700	1800	1600	1700	1500	1600	1500
190x80	2900	2500	2600	2400	2400	2200	2300	2100	2100	2000
240x80	3500	3100	3200	3000	3000	2800	2900	2700	2700	2600
290x80	4000	3600	3700	3400	3500	3300	3300	3200	3200	3100

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Tile Roof Mass of 90 (kg/m²), Total Upper Floor Mass of 40 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- iii) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 48

Lintels - Tile Roof Lower Storey Load Bearing Walls

	Roof Load Width (mm)									
	1500		3000		4500		6000		7500	
Upper Floor Load Width (mm)	1800	3600	1800	3600	1800	3600	1800	3600	1800	3600
Size DxB (mm)	Maximum Lintel Span (mm)									
Tile Roof										
140x31	1600	1400	1400	1300	1300	1200	1200	1100	1100	1100
90x35	1100	900	1000	900	900	800	800	800	800	700
140x35	1600	1400	1500	1300	1300	1200	1300	1200	1200	1100
190x35	2200	1900	2000	1800	1800	1700	1700	1600	1600	1500 ₅
90x42	1200	1000	1000	900	900	900	900	800	800	800
140x42	1700	1500	1600	1400	1400	1300	1300	1200	1300	1200
190x42	2400	2000	2100	1900	1900	1800	1800	1700	1700	1600
240x42	3000	2600	2700	2400	2500	2300	2300	2100 ₅	2200 ₅	2000 ₁₀
290x42	3400	3100 ₅	3200	2900 ₅	3000	2700 ₁₀	2800 ₅	2600 ₁₀	2600 ₁₀	2500 ₁₅
140x65	2000	1700	1800	1600	1700	1500	1500	1400	1500	1400
190x65	2700	2400	2500	2200	2300	2100	2100	2000	2000	1900
240x65	3300	3000	3100	2800	2900	2600	2700	2500	2500	2400
290x65	3800	3500	3500	3300	3300	3100	3200	3000	3000	2900 ₅
140x80	2200	1900	1900	1700	1800	1600	1700	1500	1600	1500
190x80	2900	2500	2600	2400	2400	2200	2300	2100	2100	2000
240x80	3500	3100	3200	3000	3000	2800	2900	2700	2700	2600
290x80	4000	3600	3700	3400	3500	3300	3300	3200	3200	3100

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Tile Roof Mass of 90 (kg/m²), Total Upper Floor Mass of 40 (kg/m²), Floor Live Load of 1.5 (kPa), Floor Point Load of 1.8 (kN).
- iii) Minimum bearing length = 35 mm at end supports. Subscript values indicate the minimum additional bearing length where required to be greater than 35 mm.

TABLE 49

Deck Bearers May Support Decks Greater than 1000mm above the Ground

Size DxB (mm)	Floor Load Width (mm)											
	1200		2400		4800		1200		2400		4800	
	Maximum Bearer Span (mm)											
	Span	C'lever	Span	C'lever	Span	C'lever	Span	C'lever	Span	C'lever	Span	C'lever
	Single Span						Continuous Span					
140x31	2100	600	1500	400	1000	300	2100	600	1500	400	1000	300
90x35	1400	400	1000	300	NS	NS	1400	400	1000	300	NS	NS
140x35	2200	600	1600	400	1100	300	2200	600	1600	400	1100	300
190x35	3100	900	2200	600	1500	400	3100	900	2200	600	1500 ₁₀	400 ₁₀
90x42	1600	400	1100	300	NS	NS	1600	400	1100	300	NS	NS
140x42	2500	700	1700	500	1200	300	2500	700	1700	500	1200	300
190x42	3400	1000	2400	700	1600	400	3400	1000	2400	700	1600	400
240x42	4300	1200	3000	900	2100	600	4300	1200	3000	900	2100 ₂₅	600 ₂₅
290x42	5200	1500	3700	1100	2600 ₅	700 ₅	5200	1500	3700 ₁₀	1100	2600 ₄₅	700 ₄₅
140x65	3100	900	2200	600	1500	400	3100	900	2200	600	1500	400
190x65	4200	1200	3000	900	2100	600	4200	1200	3000	900	2100	600
240x65	5100	1500	3800	1100	2600	700	5400	1600	3800	1100	2600 ₅	700
290x65	5900	1700	4600	1300	3200	900	6500	1900	4600	1300	3200 ₂₀	900 ₂₀
140x80	3500	1000	2400	700	1700	500	3500	1000	2400	700	1700	500
190x80	4500	1300	3300	900	2300	600	4700	1400	3300	900	2300	600
240x80	5300	1500	4200	1200	2900	800	5900	1700	4200	1200	2900	800
290x80	6200	1800	5100	1500	3600	1000	7200	2100	5100	1500	3600 ₁₀	1000

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, C'lever = Cantilever (mm).
- ii) The above table was based on a maximum Deck Mass of 40 (kg/m²), Floor Point Load of 1.8 (kN), Balcony Live Load of 2 (kPa).
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 30 % of Backspan.
- v) End bearing lengths = 45 mm at end supports and 60 mm at internal supports for continuous members. Subscript values indicate the minimum additional bearing length where required to be greater than 45 mm at end supports and 60 mm at internal supports.

TABLE 50

Deck Joists

May Support Decks greater than 1000mm above the Ground

Size DxB (mm)	Joist Spacing (mm)					
	300		450		600	
	Maximum Floor Joist Span (mm)					
	Span	C'lever	Span	C'lever	Span	C'lever
	Single Span					
140x31	3000	900	2800	800	2700	800
90x35	1600	400	1500	400	1400	400
140x35	3200	900	3000	900	2900	850
190x35	4500	1300	4300	1200	4100	1200
90x42	1700	500	1600	400	1600	400
140x42	3500	1000	3300	900	3200	950
190x42	4800	1400	4500	1300	4400	1250
240x42	6000	1800	5800	1700	5400	1600
290x42	7200	2100	6700	2000	6200	1800
140x65	4000	1200	3900	1100	3700	1050
190x65	5500	1600	5300	1500	5000	1450
240x65	6800	2000	6400	1900	6000	1800
290x65	7600	2200	7200	2100	7000	2100
140x80	4300	1200	4100	1200	4000	1150
190x80	5900	1700	5700	1700	5300	1550
240x80	6900	2000	6600	1900	6300	1800
290x80	7800	2300	7400	2200	7200	2100
Continuous Span						
140x31	3500	1050	3400	900	3000	850
90x35	1900	500	1800	500	1700	500
140x35	3700	1100	3500	950	3200	850
190x35	5000	1500	4800	1300	4400	1200
90x42	2100	600	2000	600	1900	500
140x42	3900	1150	3700	1000	3500	950
190x42	5400	1550	5100	1400	4800	1250
240x42	6800	2000	6500	1750	6100	1600
290x42	8300	2400	7900	2100	7300	1900
140x65	4600	1350	4400	1200	4200	1050
190x65	6300	1800	6000	1600	5800	1450
240x65	7900	2300	7600	2000	7400	1850
290x65	8400	2500	8400	2450	8400	2200
140x80	4900	1450	4700	1250	4600	1150
190x80	6700	1950	6400	1700	6200	1550
240x80	8400	2450	8100	2150	7900	1950
290x80	8400	2500	8400	2500	8400	2350

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable, C'lever = Cantilever (mm).
- ii) The above table was based on a maximum Deck Mass of 40 (kg/m²), Floor Point Load of 1.8 (kN), Balcony Live Load of 2 (kPa).
- iii) Minimum BackSpan = 200 % of Overhang.
- iv) Maximum Overhang = 30 % of Backspan.
- v) End bearing lengths = 30 mm at end supports and 45 mm at internal supports for continuous members.

TABLE 53

Posts Supporting Roof and/or Floor Loads

	Floor Load Area (m2)								
	0			10			20		
Roof Load Area (m2)	0	10	20	0	10	20	0	10	20
Size DxB (mm)	Maximum Post Height (mm)								
Sheet Roof									
70x70	6000	2600	NS	2200	2000	NS	1500	1400	1300
90x90	6000	4300	3100	3800	3400	2800	2600	2500	2400
100x100	6000	5400	3800	4700	4300	3500	3300	3100	3000
115x115	6000	6000	5000	6000	5700	4700	4400	4200	4000
140x140	6000	6000	6000	6000	6000	6000	6000	6000	6000
190x190	6000	6000	6000	6000	6000	6000	6000	6000	6000
Tile Roof									
70x70	6000	2300	1600	2200	1900	1400	1500	1300	1100
90x90	6000	3800	2700	3800	3100	2500	2600	2400	2200
100x100	6000	4700	3300	4700	3900	3100	3300	3000	2700
115x115	6000	6000	4400	6000	5200	4200	4400	4000	3600
140x140	6000	6000	6000	6000	6000	6000	6000	5900	5400
190x190	6000	6000	6000	6000	6000	6000	6000	6000	6000

NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- The above table was based on a maximum Sheet Roof Mass of 40 (kg/m²), Tile Roof Mass of 90 (kg/m²), Total Upper Floor Mass of 50 (kg/m²), Floor Live Load of 1.5 (kPa).

TABLE 53

Posts Supporting Roof and/or Floor Loads

	Floor Load Area (m2)								
	0			10			20		
Roof Load Area (m2)	0	10	20	0	10	20	0	10	20
Size DxB (mm)	Maximum Post Height (mm)								
Sheet Roof									
70x70	6000	3200	2300	2200	2000	1900	1500	1400	1300
90x90	6000	5400	3800	3800	3400	3200	2600	2500	2400
100x100	6000	6000	4700	4700	4300	4000	3300	3100	3000
115x115	6000	6000	6000	6000	5700	5200	4400	4200	4000
140x140	6000	6000	6000	6000	6000	6000	6000	6000	6000
190x190	6000	6000	6000	6000	6000	6000	6000	6000	6000
Tile Roof									
70x70	6000	2500	1700	2200	1900	1500	1500	1300	1100
90x90	6000	4200	2900	3800	3100	2600	2600	2400	2200
100x100	6000	5100	3600	4700	3900	3200	3300	3000	2700
115x115	6000	6000	4800	6000	5200	4300	4400	4000	3600
140x140	6000	6000	6000	6000	6000	6000	6000	5900	5400
190x190	6000	6000	6000	6000	6000	6000	6000	6000	6000

NOTES :

- i) D = member depth, B = member breadth, NS = not suitable.
- ii) The above table was based on a maximum Sheet Roof Mass of 40 (kg/m²), Tile Roof Mass of 90 (kg/m²), Total Upper Floor Mass of 50 (kg/m²), Floor Live Load of 1.5 (kPa).

TABLES 51 & 52

Verandah & Pergola Beams

		Roof Load Width (mm)							
		1800	2400	3000	4500	1800	2400	3000	4500
Rafter/Truss Spacing (mm)		900	900	900	900	900	900	900	900
Size DxB (mm)	Roof Mass (kg/m ²)	Maximum Verandah Beam Span (mm)							
		Single Span				Continuous Span			
140x31	10	2200	1900	1600	NS	2200	2000	1700	NS
	20	2200	1900	1700	NS	2300	2000	1800	NS
	40	2300	2000	1700	NS	2400	2100	1900	NS
	60	2100	1900	1700	NS	2400	2100	2000	NS
	90	1800	1600	NS	NS	2400	2100	2000	NS
90x35	10	NS	NS	NS	NS	NS	NS	NS	NS
	20	NS	NS	NS	NS	1500	NS	NS	NS
	40	NS	NS	NS	NS	1500	NS	NS	NS
	60	NS	NS	NS	NS	1600	NS	NS	NS
	90	NS	NS	NS	NS	1500	NS	NS	NS
140x35	10	2300	2000	1800	NS	2400	2100	1900	NS
	20	2300	2000	1800	NS	2400	2100	2000	NS
	40	2400	2100	1900	1500	2500	2200	2000	1500
	60	2100	2000	1800	1500	2600	2300	2100	1600
	90	1900	1700	1500	NS	2500	2300	2100	1600
190x35	10	3300	2700	2400	2000	3300	2800	2500	2100
	20	3300	2800	2500	2000	3400	2900	2600	2100
	40	3300	2900	2600	2100	3500	3000	2700	2200
	60	2900	2600	2400	2100	3700	3200	2800	2300
	90	2500	2300	2100	1900	3400	3100	2800	2300
90x42	10	1600	NS	NS	NS	1600	NS	NS	NS
	20	1600	NS	NS	NS	1700	NS	NS	NS
	40	1600	NS	NS	NS	1900	1500	NS	NS
	60	NS	NS	NS	NS	1900	1500	NS	NS
	90	NS	NS	NS	NS	1600	1500	NS	NS
140x42	10	2500	2200	2000	1600	2600	2300	2100	1600
	20	2600	2200	2000	1600	2700	2300	2100	1600
	40	2500	2300	2100	1700	2800	2400	2200	1800
	60	2200	2100	2000	1600	2900	2500	2200	1900
	90	2000	1800	1600	NS	2600	2400	2200	1900
190x42	10	3600	3100	2700	2200	3700	3200	2800	2300
	20	3700	3200	2800	2200	3800	3200	2800	2300
	40	3500	3200	2900	2300	3900	3300	3000	2400
	60	3100	2800	2600	2300	4100	3500	3100	2500
	90	2700	2400	2300	2000	3700	3300	3100	2500
240x42	10	4600	4000	3600	2800	4700	4000	3600	2900
	20	4700	4100	3600	2900	4800	4100	3700	3000
	40	4300	4000	3800	3000	5000	4300	3800	3100
	60	3900	3600	3300	2900	4900	4400	4000	3200
	90	3400	3100	2900	2500	4500	4200	3900	3200

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NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- End bearing lengths = 70 mm at end supports and 70 mm at internal supports for continuous members.
- Overhangs shall not exceed 25% of the actual backspan. Minimum bearing length = 35mm at end supports and 70mm at continuous supports.

TABLES 51 & 52 (cont)

Verandah & Pergola Beams

		Roof Load Width (mm)							
		1800	2400	3000	4500	1800	2400	3000	4500
Rafter/Truss Spacing (mm)		900	900	900	900	900	900	900	900
Size DxB (mm)	Roof Mass (kg/m ²)	Maximum Verandah Beam Span (mm)							
		Single Span				Continuous Span			
290x42	10	5700	4900	4300	3600	5700	4900	4400	3500
	20	5700	5000	4400	3600	5800	5000	4400	3600
	40	5000	4600	4400	3700	6000	5200	4600	3800
	60	4500	4200	4000	3500	5600	5300	4800	3900
	90	4100	3800	3500	3100	5100	4800	4600	3900
140x65	10	3300	2800	2500	2000	3300	2900	2500	2100
	20	3400	2800	2500	2100	3400	3000	2600	2100
	40	2900	2700	2500	2100	3600	3100	2700	2200
	60	2600	2400	2200	2000	3500	3200	2800	2300
	90	2300	2100	2000	1700	3100	2800	2600	2300
190x65	10	4600	4000	3500	2800	4600	4000	3600	2900
	20	4600	4000	3600	2800	4700	4100	3600	2900
	40	4000	3700	3400	3000	4900	4200	3800	3100
	60	3600	3200	3000	2600	4600	4300	3900	3200
	90	3100	2800	2600	2300	4200	3900	3600	3100
240x65	10	5900	5100	4500	3700	5900	5100	4500	3700
	20	5500	5200	4600	3700	6000	5200	4600	3800
	40	4800	4500	4200	3900	6000	5400	4800	3900
	60	4300	4100	3900	3400	5500	5100	4800	4100
	90	4000	3600	3400	2900	4900	4600	4400	4000
290x65	10	6900	6100	5500	4400	7200	6200	5500	4500
	20	6200	5900	5600	4500	7300	6300	5600	4500
	40	5500	5200	4900	4500	6800	6400	5800	4700
	60	5000	4700	4500	4100	6300	5900	5600	4900
	90	4600	4300	4100	3600	5700	5400	5100	4600
140x80	10	3700	3200	2800	2200	3800	3200	2900	2300
	20	3800	3200	2800	2300	3900	3300	2900	2400
	40	3200	2900	2700	2400	4000	3400	3100	2400
	60	2800	2500	2400	2100	3800	3400	3200	2500
	90	2400	2200	2100	1800	3300	3000	2800	2400
190x80	10	5100	4400	3900	3200	5200	4400	4000	3200
	20	4800	4500	4000	3200	5200	4500	4100	3300
	40	4200	3900	3700	3200	5200	4700	4200	3400
	60	3800	3500	3200	2800	4800	4500	4300	3500
	90	3300	3100	2800	2500	4400	4100	3900	3300
240x80	10	6300	5700	5000	4100	6600	5700	5100	4100
	20	5700	5400	5100	4100	6700	5800	5200	4200
	40	5000	4700	4500	4100	6200	5900	5300	4300
	60	4600	4300	4100	3600	5700	5400	5100	4500
	90	4200	3900	3600	3200	5200	4900	4600	4200
290x80	10	7100	6800	6100	5000	8000	6900	6100	5000
	20	6400	6100	5900	5100	8100	7000	6300	5100
	40	5700	5400	5100	4700	7100	6700	6400	5300
	60	5300	4900	4700	4300	6600	6200	5900	5400
	90	4800	4500	4300	3800	6000	5600	5400	4800

NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- End bearing lengths = 70 mm at end supports and 70 mm at internal supports for continuous members.
- Overhangs shall not exceed 25% of the actual backspan. Minimum bearing length = 35mm at end supports and 70mm at continuous supports.

TABLES 51 & 52

Verandah & Pergola Beams

		Roof Load Width (mm)							
		1800	2400	3000	4500	1800	2400	3000	4500
Rafter/Truss Spacing (mm)		900	900	900	900	900	900	900	900
Size DxB (mm)	Roof Mass (kg/m ²)	Maximum Verandah Beam Span (mm)							
		Single Span				Continuous Span			
140x31	10	2700	2300	2100	1600	2800	2400	2100	1700
	20	2800	2400	2100	1700	2800	2400	2200	1800
	40	2300	2100	2000	1700	3100	2600	2300	2000
	60	2100	1900	1700	1500	2700	2500	2300	2000
	90	1800	1600	NS	NS	2400	2100	2000	NS
90x35	10	1600	1500	NS	NS	1900	1500	NS	NS
	20	1500	NS	NS	NS	2000	1600	NS	NS
	40	NS	NS	NS	NS	2000	1900	1500	NS
	60	NS	NS	NS	NS	1800	1600	1500	NS
	90	NS	NS	NS	NS	1500	NS	NS	NS
140x35	10	2900	2400	2200	1800	3000	2500	2300	1900
	20	3000	2500	2200	1800	3100	2600	2300	2000
	40	2400	2200	2100	1800	3200	2800	2500	2100
	60	2100	2000	1800	1500	2800	2600	2400	2100
	90	1900	1700	1500	NS	2500	2300	2100	1600
190x35	10	4100	3500	3100	2400	4100	3500	3200	2500
	20	4000	3600	3200	2500	4200	3700	3300	2600
	40	3300	3000	2800	2400	4300	3900	3400	2800
	60	2900	2600	2400	2100	3900	3600	3300	2800
	90	2500	2300	2100	1900	3400	3100	2800	2300
90x42	10	2000	1700	NS	NS	2100	1900	1500	NS
	20	2000	1700	1500	NS	2100	1900	1600	NS
	40	1600	1500	NS	NS	2200	2000	1900	NS
	60	NS	NS	NS	NS	1900	1800	1600	NS
	90	NS	NS	NS	NS	1600	1500	NS	NS
140x42	10	3200	2700	2400	2000	3300	2800	2500	2100
	20	3200	2800	2500	2000	3400	2900	2600	2100
	40	2500	2300	2200	2000	3400	3100	2700	2200
	60	2200	2100	2000	1600	3000	2800	2500	2200
	90	2000	1800	1600	NS	2600	2400	2200	1900
190x42	10	4500	3900	3500	2700	4500	3900	3500	2800
	20	4200	4000	3600	2800	4600	4000	3600	2900
	40	3500	3200	3000	2600	4500	4200	3800	3100
	60	3100	2800	2600	2300	4100	3800	3500	3100
	90	2700	2400	2300	2000	3700	3300	3100	2500
240x42	10	5700	4900	4400	3600	5800	5000	4400	3600
	20	5000	4700	4500	3700	6000	5100	4600	3700
	40	4300	4000	3800	3300	5400	5000	4800	4000
	60	3900	3600	3300	2900	4900	4600	4400	3900
	90	3400	3100	2900	2500	4500	4200	3900	3200

NOTES :

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- D = member depth, B = member breadth, NS = not suitable.
- End bearing lengths = 70 mm at end supports and 70 mm at internal supports for continuous members.
- Overhangs shall not exceed 25% of the actual backspan. Minimum bearing length = 35mm at end supports and 70mm at continuous supports.

TABLES 51 & 52 (cont)

Verandah & Pergola Beams

		Roof Load Width (mm)							
		1800	2400	3000	4500	1800	2400	3000	4500
Rafter/Truss Spacing (mm)		900	900	900	900	900	900	900	900
Size DxB (mm)	Roof Mass (kg/m ²)	Maximum Verandah Beam Span (mm)							
		Single Span				Continuous Span			
290x42	10	6500	6000	5400	4300	7000	6100	5400	4400
	20	5700	5400	5200	4400	7100	6200	5600	4500
	40	5000	4600	4400	4000	6200	5800	5500	4800
	60	4500	4200	4000	3500	5600	5300	5000	4600
	90	4100	3800	3500	3100	5100	4800	4600	3900
140x65	10	4100	3600	3100	2500	4200	3600	3200	2500
	20	3600	3300	3100	2500	4300	3800	3300	2600
	40	2900	2700	2500	2200	4000	3700	3400	2800
	60	2600	2400	2200	2000	3500	3200	3000	2600
	90	2300	2100	2000	1700	3100	2800	2600	2300
190x65	10	5200	4900	4300	3600	5800	5000	4400	3600
	20	4600	4400	4200	3600	5800	5100	4500	3700
	40	4000	3700	3400	3000	5000	4700	4500	3900
	60	3600	3200	3000	2600	4600	4300	4100	3600
	90	3100	2800	2600	2300	4200	3900	3600	3100
240x65	10	6100	5900	5600	4500	7300	6300	5600	4500
	20	5500	5200	4900	4500	6800	6500	5800	4700
	40	4800	4500	4200	3900	6000	5600	5300	4800
	60	4300	4100	3900	3400	5500	5100	4800	4400
	90	4000	3600	3400	2900	4900	4600	4400	4000
290x65	10	6900	6600	6400	5500	8400	7700	6800	5500
	20	6200	5900	5700	5200	7700	7400	7000	5700
	40	5500	5200	4900	4500	6800	6400	6100	5600
	60	5000	4700	4500	4100	6300	5900	5600	5100
	90	4600	4300	4100	3600	5700	5400	5100	4600
140x80	10	4400	4000	3500	2800	4600	4000	3600	2900
	20	3900	3600	3300	2900	4800	4100	3700	3000
	40	3200	2900	2700	2400	4200	3900	3700	3200
	60	2800	2500	2400	2100	3800	3400	3200	2800
	90	2400	2200	2100	1800	3300	3000	2800	2400
190x80	10	5400	5200	4900	4000	6400	5500	4900	4000
	20	4800	4600	4400	4000	6000	5700	5100	4100
	40	4200	3900	3700	3200	5200	4900	4700	4300
	60	3800	3500	3200	2800	4800	4500	4300	3900
	90	3300	3100	2800	2500	4400	4100	3900	3300
240x80	10	6300	6000	5800	5100	7800	7000	6300	5100
	20	5700	5400	5200	4700	7100	6700	6400	5200
	40	5000	4700	4500	4100	6200	5900	5600	5100
	60	4600	4300	4100	3600	5700	5400	5100	4600
	90	4200	3900	3600	3200	5200	4900	4600	4200
290x80	10	7100	6800	6600	6100	8400	8400	7600	6200
	20	6400	6100	5900	5500	8000	7700	7400	6300
	40	5700	5400	5100	4700	7100	6700	6400	5900
	60	5300	4900	4700	4300	6600	6200	5900	5400
	90	4800	4500	4300	3800	6000	5600	5400	4800

NOTES :

- D = member depth, B = member breadth, NS = not suitable.
- End bearing lengths = 70 mm at end supports and 70 mm at internal supports for continuous members.
- Overhangs shall not exceed 25% of the actual backspan. Minimum bearing length = 35mm at end supports and 70mm at continuous supports.