

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			
118x32	10	2400	2200	2100	1600	2700	2400	2100	1800
	20	2000	1800	1700	NS	2600	2400	2200	1700
	40	1600	NS	NS	NS	2100	1900	1800	1500
	60	NS	NS	NS	NS	1900	1600	1500	NS
	90	NS	NS	NS	NS	1600	NS	NS	NS
118x44	10	2600	2400	2300	2000	3200	2800	2500	2100
	20	2200	2000	1900	1600	2900	2700	2500	2100
	40	1800	1600	1500	NS	2300	2200	2000	1800
	60	1500	NS	NS	NS	2100	1900	1800	1500
	90	NS	NS	NS	NS	1800	1600	1500	NS
118x68	10	2900	2700	2600	2300	4000	3400	3100	2500
	20	2400	2300	2100	1900	3300	3100	2900	2500
	40	2000	1900	1700	1500	2700	2500	2300	2000
	60	1800	1600	1500	NS	2400	2200	2000	1800
	90	1500	NS	NS	NS	2100	1900	1800	1500
140x32	10	2800	2600	2400	2000	3300	2800	2500	2100
	20	2300	2100	2000	1700	3200	2900	2600	2100
	40	1900	1700	1600	NS	2500	2300	2200	1900
	60	1600	1500	NS	NS	2200	2000	1900	1600
	90	NS	NS	NS	NS	1900	1800	1600	NS
140x44	10	3100	2900	2700	2300	3900	3300	3000	2400
	20	2500	2300	2200	2000	3500	3200	3000	2400
	40	2100	2000	1800	1500	2800	2500	2300	2100
	60	1900	1600	1500	NS	2400	2300	2100	1800
	90	1600	NS	NS	NS	2200	2000	1800	1500
140x68	10	3500	3200	3100	2700	4500	4100	3700	3000
	20	2900	2700	2500	2200	3900	3700	3400	3000
	40	2400	2200	2100	1800	3200	2900	2700	2400
	60	2100	2000	1800	1500	2800	2600	2400	2100
	90	1900	1700	1500	NS	2500	2300	2100	1800
168x32	10	3400	3100	2900	2400	4000	3400	3100	2500
	20	2800	2500	2400	2100	3800	3400	3200	2500
	40	2200	2100	1900	1600	3000	2800	2600	2300
	60	2000	1800	1600	NS	2700	2400	2300	2000
	90	1700	1500	NS	NS	2300	2100	2000	1700
168x44	10	3700	3400	3200	2800	4600	4000	3600	2900
	20	3100	2800	2600	2300	4100	3800	3600	3000
	40	2500	2300	2100	1900	3400	3100	2900	2500
	60	2200	2000	1900	1600	2900	2700	2500	2200
	90	2000	1700	1600	NS	2600	2300	2200	1900
168x68	10	4000	3800	3600	3300	5000	4800	4400	3600
	20	3500	3200	3000	2600	4500	4200	4000	3600
	40	2800	2600	2400	2200	3900	3500	3300	2900
	60	2500	2300	2200	1900	3400	3100	2900	2500
	90	2200	2100	1900	1600	3000	2700	2500	2200

NOTES :

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



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TABLES 51 & 52 (cont)

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		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			
190x32	10	3800	3500	3300	2700	4500	3900	3500	2800
	20	3200	2900	2700	2400	4200	3900	3600	2900
	40	2500	2300	2200	1900	3400	3100	2900	2500
	60	2200	2100	1900	1600	3000	2700	2500	2200
	90	2000	1800	1600	NS	2600	2400	2200	1900
190x44	10	4100	3900	3600	3200	5100	4500	4100	3300
	20	3400	3200	3000	2600	4500	4200	4000	3400
	40	2800	2600	2400	2100	3800	3500	3200	2800
	60	2500	2300	2100	1800	3300	3100	2800	2500
	90	2200	2000	1800	1600	2900	2700	2500	2200
190x68	10	4400	4200	4000	3700	5500	5200	5000	4100
	20	3900	3600	3400	3000	4900	4600	4400	4100
	40	3200	3000	2700	2400	4300	4000	3800	3300
	60	2800	2600	2400	2100	3900	3500	3300	2900
	90	2500	2300	2100	1900	3400	3100	2900	2500
218x44	10	4500	4300	4100	3700	5600	5200	4700	3800
	20	4000	3600	3400	3000	4900	4600	4400	3900
	40	3200	3000	2700	2400	4300	4000	3800	3300
	60	2800	2600	2400	2100	3900	3500	3300	2800
	90	2500	2300	2100	1800	3400	3100	2800	2500
218x68	10	4800	4600	4400	4100	6000	5700	5500	4700
	20	4300	4100	3900	3400	5400	5100	4900	4500
	40	3700	3400	3200	2800	4700	4400	4200	3800
	60	3300	3000	2800	2400	4300	4000	3800	3300
	90	2900	2600	2400	2200	3900	3600	3300	2900
240x44	10	4800	4500	4400	4000	6000	5700	5200	4200
	20	4200	4000	3800	3300	5300	5000	4700	4300
	40	3500	3300	3000	2600	4600	4300	4100	3600
	60	3100	2900	2600	2300	4200	3900	3600	3200
	90	2700	2500	2300	2100	3700	3400	3200	2700
240x68	10	5100	4900	4700	4400	6400	6100	5900	5200
	20	4600	4300	4200	3800	5700	5400	5200	4800
	40	4000	3700	3500	3100	5000	4700	4500	4100
	60	3600	3300	3100	2700	4600	4300	4100	3700
	90	3200	2900	2700	2400	4200	3900	3700	3200
265x68	10	5400	5200	5100	4700	6800	6500	6300	5700
	20	4900	4700	4500	4100	6200	5800	5600	5100
	40	4300	4100	3900	3400	5400	5100	4800	4400
	60	4000	3600	3400	3000	4900	4600	4400	4000
	90	3500	3200	3000	2600	4500	4200	4000	3500
290x68	10	5800	5500	5400	5000	7200	6900	6700	6200
	20	5200	5000	4800	4400	6500	6200	6000	5500
	40	4600	4300	4100	3700	5700	5400	5200	4700
	60	4200	4000	3700	3300	5300	5000	4700	4300
	90	3800	3500	3300	2900	4800	4500	4300	3900

NOTES :

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



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