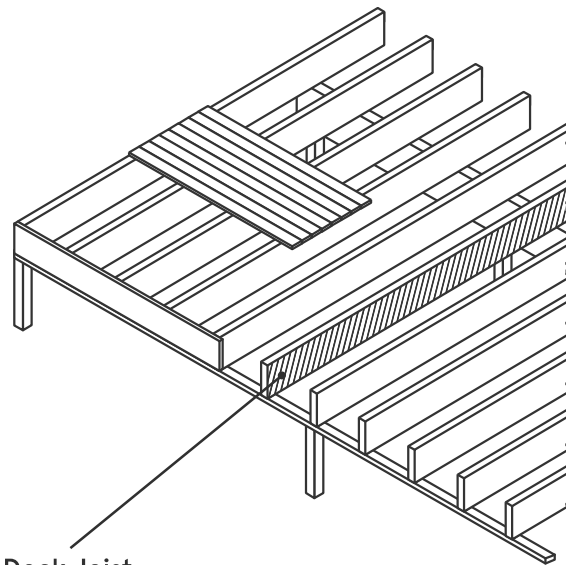


DECK JOIST: T3 GREEN+ MGP10

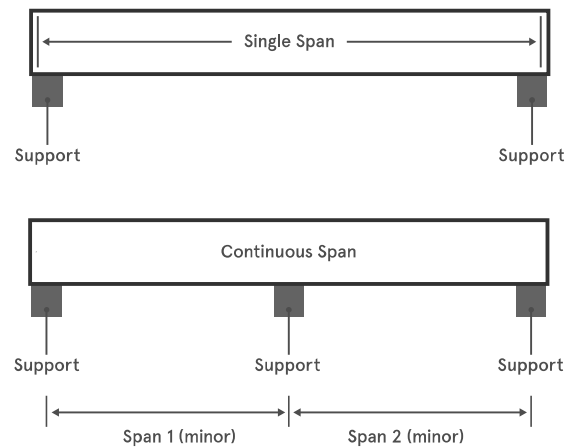
Size	Single Span	Continuous Span
70 x 35	0	0
90 x 35	900	1500
140 x 35	2300	2800
190 x 35	3300	3700
240 x 35	4300	4500
70 x 45	0	0
90 x 45	1400	1800
140 x 45	2600	3000
190 x 45	3600	4100
240 x 45	4800	5100

Table values relate to allowable maximum joist span @450mm.



Deck Joist

A floor joist is one of a number of parallel members to support flooring. In the case of a deck joist, the joists are designed for timber deck areas.



For a member to be considered 'continuous' it shall span at least 2 adjacent spans such that span 1 is greater than or equal to $0.75 \times \text{Span 2}$.

The major span is taken from the continuous span table e.g. if span 2 = 6.0 then span 1 is greater or equal to 4.5m. Otherwise each span is to be considered 'single.'

DECK JOIST: LGL

Size	Single Span	Continuous Span
130 x 44	2600	3100
150 x 44	3000	3700
170 x 44	3500	4300
200 x 44	4300	4900
240 x 44	5100	5600
300 x 44	6000	6700
360 x 44	6900	7700
130 x 35	3000	3600
150 x 65	3600	4300
170 x 65	4100	4800
200 x 65	4900	5400
240 x 65	5600	6200
300 x 65	6500	7400
360 x 65	7400	8500

Table values relate to allowable maximum joist span @450mm.

Dimensional Data:

Top Edge Restraint = Continuous Restraint

Bottom Edge Restraint = Nil

Basic Loading Data:

Flooring = PR Decking (25)

Floor Live Load = Balcony (2.0, 1.8)

Standard AS1720.3 Dynamics for 1. kN static load

Wind Area = N2

Wind Design Strength Pressure = 0.96 kPa

Wind Serviceability Pressure = 0.4056 kPa

Min. End Bearing Length = 30mm

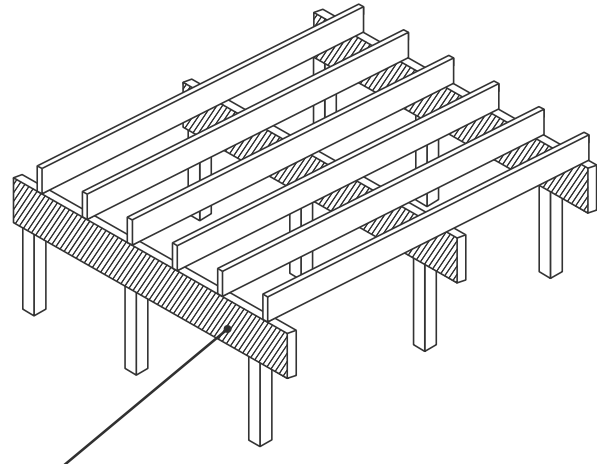
Min. Intermediate Bearing = 45mm

Minimum J2 Factor = 2.

FLOOR BEARER: BEAM 15 (CAMBERED)

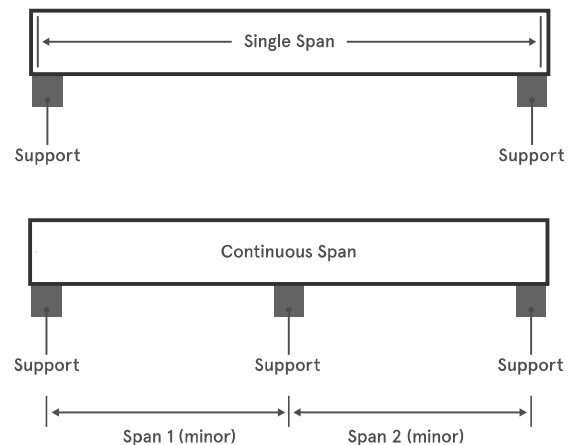
Size	Single Span	Continuous Span
130 x 65	2100	2300
165 x 65	2700	2900
195 x 65	3200	3500
230 x 65	3600	4000
260 x 65	4000	4400*
295 x 65	4400	4800^
330 x 65	4800	5300^
360 x 65	5100	5600^
395 x 65	5500	6000^
425 x 65	5800	6100^
460 x 65	6200*	6100^
495 x 65	6500*	6100^
130 x 85	2300	2600
165 x 85	3000	3300
195 x 85	3400	3800
230 x 85	3900	4300
260 x 85	4300	4700
w295 x 85	4700	5200
330 x 85	5100	5600*
360 x 85	5500	6000^
395 x 85	5900	6400^
425 x 85	6200	6800^
460 x 85	6600	7200^
495 x 85	7000	7600^
525 x 85	7300	7900^
560 x 85	7700	7800^
590 x 85	8000*	7800^
625 x 85	8300*	7800^
655 x 85	8600*	7800^
690 x 85	9000*	7700^

Table values relate to allowable maximum span @2400mm floor load width.



Floor Bearer

A floor bearer is a beam required to support floor joists. The joists may be on top of, level with, or below the bearer.



For a member to be considered 'continuous' it shall span at least 2 adjacent spans such that span 1 is greater than or equal to $0.75 \times \text{Span 2}$.

The major span is taken from the continuous span table e.g. if span 2 = 6.0 then span 1 is greater or equal to 4.5m. Otherwise each span is to be considered 'single.'

FLOOR BEARER: BEAM 15 (CAMBERED)

Size	Single Span	Continuous Span
725 x 85	9300*	7700^
760 x 85	9600*	7700^
790 x 85	9900*	7700^
825 x 85	10300*	7600^
855 x 85	10500*	7600^
890 x 85	10900^	7600^
920 x 85	11100^	7600^
955 x 85	11500^	7500^
990 x 85	11800^	7500^
1020 x 85	12000^	7500^
1055 x 85	12300^	7500^
1090 x 85	12700^	7500^
1120 x 85	12900^	7400^
1155 x 85	13200^	7400^
1190 x 85	13500^	7400^
130 x 130	2700	3100
165 x 130	3400	3700

Size	Single Span	Continuous Span
195 x 130	3800	4200
230 x 130	4300	4800
260 x 130	4800	5200
295 x 130	5300	5700
330 x 130	5700	6300
360 x 130	6100	6700
395 x 130	6500	7200
425 x 130	6900	7600
460 x 130	7300	8000*
495 x 130	7800	8500*
525 x 130	8100	8900^
560 x 130	8500	9300^
590 x 130	8900	9700^
625 x 130	8900	9700^
655 x 130	9600	10500^
690 x 130	10000	10900^

Table values relate to allowable maximum span @2400mm floor load width.

FLOOR BEARER SPAN TABLES



FLOOR BEARER: LGL

Size	Single Span	Continuous Span
130 x 44	1700	1700
150 x 44	2000	2000
170 x 44	2300	2300
200 x 44	2700	2700
240 x 44	3200	3200^
300 x 44	3900	3800^
360 x 44	4500*	4100^
130 x 65	2000	2200
150 x 65	2300	2600
170 x 65	2600	2900
200 x 65	3100	3400
240 x 65	3700	4000
300 x 65	4300	4800^
360 x 65	5000	5500^

Table values relate to allowable maximum span @2400mm floor load width.

Note:

*denotes member must have a minimum 85mm bearing length at the internal support.

^denotes member must have a minimum 115mm bearing length at the internal support.

FLOOR BEARER: T3 GREEN MGP10

Size	Single Span	Continuous Span
70 x 35	0	0
90 x 35	0	0
140 x 35	1200	1200
190 x 35	1600	1600
240 x 35	2000	2000
70 x 45	0	0
90 x 45	900	900
140 x 45	1400	1400
190 x 45	1800	1800
240 x 45	2200	2200

Table values relate to allowable maximum span @2400mm floor load width.

Dimensional Data:

Joist Spacing = 0.45m

Top Edge Restraint = 0.45m

Bottom Edge Restraint = Nil

Basic Loading Data:

Roofing = Metal Sheet (20)

Ceiling = 10mm Plasterboard (12)

Flooring = Particle Board (30)

Floor Live Load = Domestic Stud (1.5, 1.8)

Standard AS1720.3 Dynamics for 1. kN static load

Wind Area = N2

Wind Design Strength Pressure = 0.96 kPa

Wind Serviceability Pressure = 0.4056 kPa

Min. End Bearing Length = 45mm

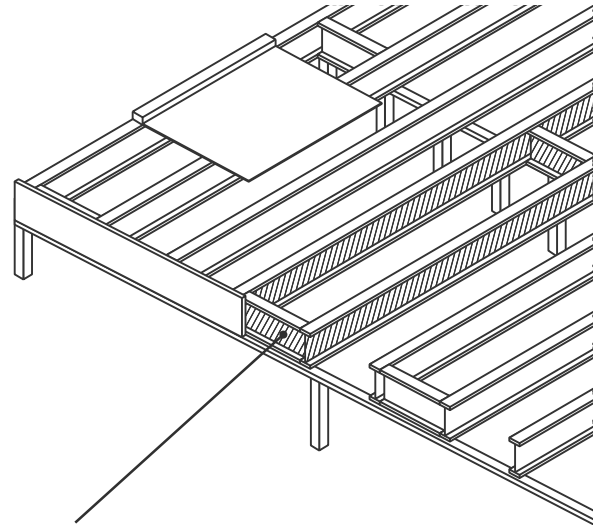
Min. Intermediate Bearing = 65mm

Minimum J2 factor = 2.

FLOOR JOIST: LGL

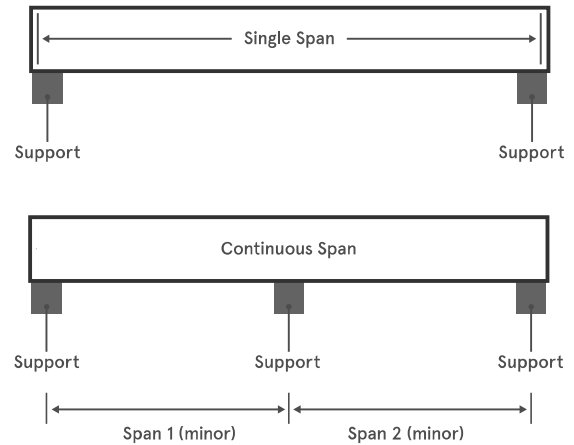
Size	Single Span	Continuous Span
130 x 44	2600	3100
150 x 44	3000	3700
170 x 44	3500	4300
200 x 44	4300	4800
240 x 44	5100	5500
300 x 44	6000	6600
360 x 44	6900	7500
130 x 65	3000	3600
150 x 65	3600	4300
170 x 65	4100	4700
200 x 65	4900	5300
240 x 65	5600	6100
300 x 65	6600	7300
360x x 65	7600	8300

Table values relate to allowable maximum joist span @450mm.



Deck Joist

A floor joist is one of a number of parallel members to support flooring.



For a member to be considered 'continuous' it shall span at least 2 adjacent spans such that span 1 is greater than or equal to $0.75 \times \text{Span 2}$.

The major span is taken from the continuous span table e.g. if span 2 = 6.0 then span 1 is greater or equal to 4.5m. Otherwise each span is to be considered 'single.'

FLOOR JOIST: T3 GREEN+ MGP10

Size	Single Span	Continuous Span
70 x 35	0	0
90 x 35	900	1500
140 x 35	2300	2800
190 x 35	3300	4000
240 x 35	4300	4900
70 x 45	0	0
90 x 45	1300	1800
140 x 45	2600	3000
190 x 45	3600	4400
240 x 45	4800	5200

Table values relate to allowable maximum joist span @450mm.

Dimensional Data:

Top Edge Restraint = Continuous Restraint

Bottom Edge Restraint = 0.6m

Basic Loading Data:

Roofing = Metal Sheet (20)

Ceiling = 10mm Plaster Board (12)

Flooring = Particle Board (30)

Floor Live Load = Domestic Stud (1.5, 1.8)

Standard AS1720.3 Dynamics for 1.0 kN Static Load

Wind Area = N2

Wind Design Strength Pressure = 0.96 kPa

Wind Serviceability Pressure = 0.4056 kPa

Min. End Bearing Length = 30mm

Min. Intermediate Bearing = 45mm

Minimum J2 factor = 1.5

SPAN TABLE REPORT

Span Table = ST1 -

Member Type = Deck Joist

Span Types = Single and Continuous

Dimensional Data:

Top Edge Restraint = continuous restraint

Bottom Edge Restraint = nil

Basic Loading Data:

Roofing = Metal Sheet (20)

Ceiling = 10mm P'Board (12)

Flooring = PR Decking (25)

No undefloor ceiling load is applied

Floor Live Load = Balcony (2.0,1.8)

Standard AS1720.3 Dynamics for 1.0 kN static load

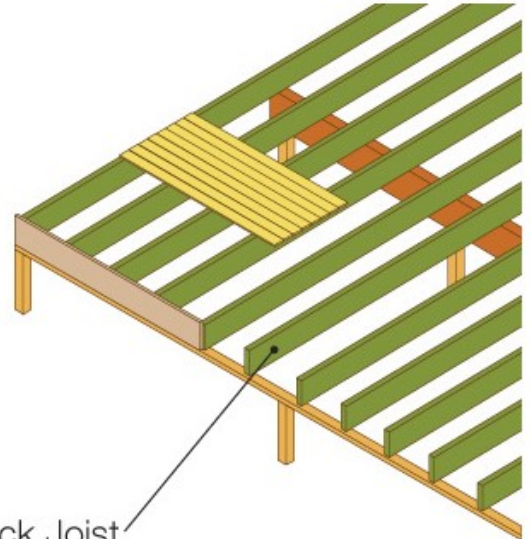
Wind Area = N2

Wind Design Strength Pressure = 0.96 kPa

Wind Serviceability Pressure = 0.4056 kPa

Min. End Bearing Length = 30 mm

Min. Intermediate Bearing = 45 mm.



Deck Joist

A Floor Joist is one of a number of parallel members to support flooring. In the case of a deck joist, the joists are designed for timber deck areas

Product = Hyne Timber Beam LGL GLT

Single Span

Size	Joist Spacing (m)				
	0.30	0.40	0.45	0.48	0.60
130x44	3300	2700	2600	2600	2500
150x44	3800	3200	3000	3000	2900
170x44	4300	3800	3500	3500	3300
200x44	4900	4600	4300	4200	4000
240x44	5600	5300	5100	5000	4800
300x44	6500	6200	6000	5900	5700
360x44	7400	7000	6900	6800	6400
130x65	4000	3200	3000	3000	2900
150x65	4400	3800	3600	3500	3400
170x65	4900	4400	4100	4100	3900
200x65	5500	5100	5000	4900	4600
240x65	6300	5900	5700	5600	5300
300x65	7500	6900	6700	6600	6300
360x65	8600	8000	7700	7600	7200

Table values relate to Allowable Maximum Joist Span in mm

Product = Hyne Timber Beam LGL GLT

Continuous Spans

Size	Joist Spacing (m)				
	0.30	0.40	0.45	0.48	0.60
130x44	3900	3300	3100	3000	2900
150x44	4400	4100	3700	3600	3400
170x44	4800	4500	4300	4200	3900
200x44	5400	5100	4900	4800	4600
240x44	6200	5800	5600	5500	5200
300x44	7400	6900	6700	6600	6200
360x44	8500	7900	7700	7500	7100
130x65	4300	4000	3600	3600	3400
150x65	4800	4500	4300	4200	4000
170x65	5300	4900	4800	4700	4500
200x65	6000	5600	5400	5300	5100
240x65	6900	6400	6200	6100	5800
300x65	8200	7600	7400	7300	6900
360x65	9400	8700	8500	8300	7900

Table values relate to Allowable Maximum Joist Span in mm

Product = E13 LVL

Single Span

Size	Joist Spacing (m)				
	0.30	0.40	0.45	0.48	0.60
290x35	6100	5700	5600	5500	5200
90x45	2100	1800	1700	1700	1600
95x45	2300	1900	1800	1800	1700
130x45	3400	2700	2600	2600	2500
150x45	3900	3300	3100	3000	2900
170x45	4400	3800	3600	3500	3400
200x45	4900	4600	4300	4200	4000
240x45	5600	5300	5100	5100	4800
290x45	6400	6000	5900	5800	5500
90x63	2500	2000	2000	1900	1900
130x63	3700	3100	3000	2900	2800
150x63	4300	3800	3500	3500	3300
170x63	4700	4400	4100	4000	3800
200x63	5300	5000	4900	4800	4600
290x63	6900	6500	6300	6300	6000
300x63	7000	6600	6500	6400	6100
360x63	7900	7500	7400	7300	7000
400x63	8500	8100	7900	7800	7500

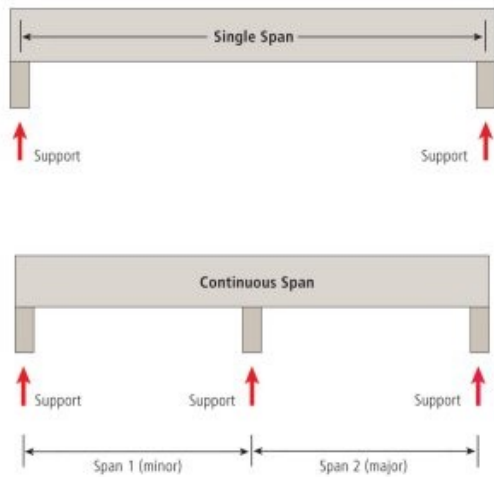
Table values relate to Allowable Maximum Joist Span in mm

Product = E13 LVL

Continuous Spans

Size	Joist Spacing (m)				
	0.30	0.40	0.45	0.48	0.60
290x35	6800	6300	6100	6000	5700
90x45	2800	2100	2000	2000	1900
95x45	3000	2300	2200	2100	2000
130x45	3900	3400	3100	3100	2900
150x45	4400	4100	3700	3600	3400
170x45	4800	4500	4300	4200	4000
200x45	5500	5100	4900	4900	4600
240x45	6300	5800	5700	5600	5300
290x45	7200	6700	6500	6400	6100
90x63	3200	2500	2300	2300	2200
130x63	4300	4000	3600	3500	3300
150x63	4800	4500	4300	4200	3900
170x63	5300	4900	4800	4700	4400
200x63	6000	5600	5400	5300	5000
290x63	7900	7400	7100	7000	6600
300x63	8100	7500	7300	7200	6800
360x63	9300	8700	8400	8300	7800
400x63	10100	9400	9100	9000	8500

Table values relate to Allowable Maximum Joist Span in mm



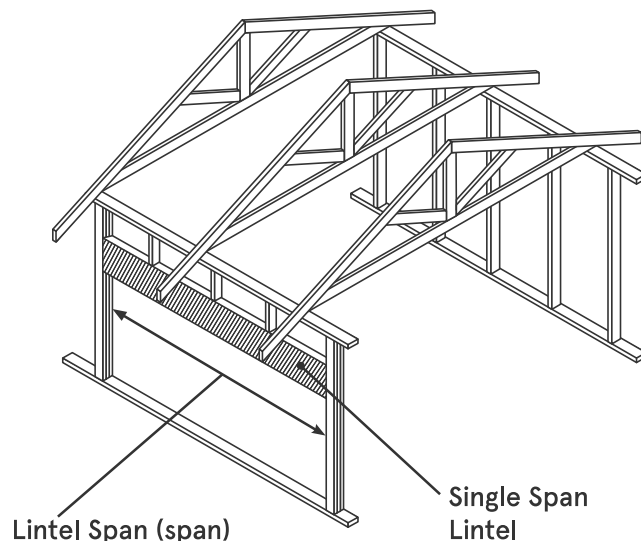
For a member to be considered 'continuous' it shall span at least 2 adjacent spans such that span 1 is greater than or equal to $0.75 \times \text{Span 2}$.

The major span is taken from the continuous span table e.g. if span 2 = 6.0 then span 1 is greater or equal to 4.5m. Otherwise each span is to be considered 'single'.

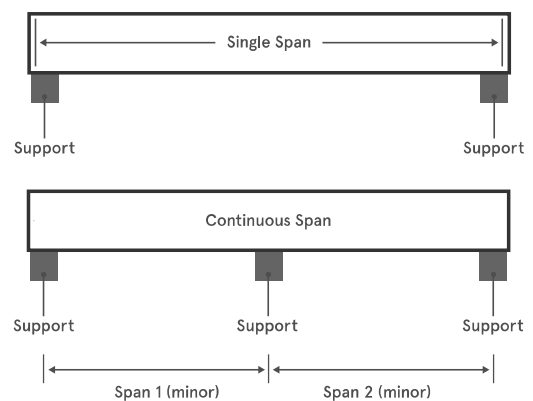
UPPER LINTEL: LGL – SINGLE SPAN

Size	Roof Load Width							
	0.70	1.20	1.80	2.10	2.40	3.00	4.00	5.00
130x44	3400	3000	2700	2600	2500	2300	2100	1900
150x44	3800	3400	3100	3000	2800	2600	2400	2200
170x44	4200	3700	3400	3200	3100	3000	2700	2500
200x44	4700	4200	3800	3700	3500	3400	3100	3000
240x44	5300	4800	4300	4200	4100	3900	3600	3400
300x44	6200	5600	5100	4900	4800	4500	4200	4000
360x44	7000	6300	5800	5600	5500	5200	4900	4600
130x65	4000	3600	3300	3100	3000	2900	2600	2400
150x65	4400	4000	3600	3500	3400	3200	3000	2800
170x65	4900	4300	4000	3800	3700	3500	3300	3100
200x65	5400	4900	4500	4300	4200	4000	3700	3500
240x65	6200	5600	5100	4900	4800	4600	4300	4000
300x65	7200	6500	6000	5800	5600	5400	5000	4800
360x65	8100	7400	6800	6600	6400	6100	5700	5500

Table values relate to Allowable Maximum Span in mm.



Lintels are beams contained within load bearing walls over windows or doors. They transfer the vertical loads applied over the opening to the jamb studs on each side.



For a member to be considered 'continuous' it shall span at least 2 adjacent spans such that span 1 is greater than or equal to $0.75 \times \text{Span 2}$.

The major span is taken from the continuous span table e.g. if span 2 = 6.0 then span 1 is greater than or equal to 4.5m. Otherwise each span is to be considered 'single.'

UPPER LINTEL: BEAM 15 (CAMBERED) – SINGLE SPAN

Size	Roof Load Width							
	0.70	1.20	1.80	2.10	2.40	3.00	4.00	5.00
130x65	4500	4000	3600	3400	3300	3100	2900	2600
165x65	5500	4800	4300	4200	4000	3600	3500	3300
195x65	6400	5600	5000	4800	4600	4400	4000	3800
230x65	7500	6500	5800	5600	5400	5100	4700	4400
260x65	8400	7300	6500	6300	6000	5600	5200	4900
295x65	9500	8300	7400	7100	6800	6400	5800	5500
330x65	10700	9300	8200	7900	7600	7100	6500	6100
360x65	11700	10100	9000	8600	8300	7700	7100	6600
395x65	12900	11200	9900	9500	9100	8500	7800	7200
425x65	13900	12400	10700	10200	9800	9200	8400	7800*
460x65	15200	13200	11700	11100	10700	10000	9100	8400*
495x65	16500	14300	12700	12100	11600	10800	9800*	9100*
130x85	4800	4200	3800	3700	3500	3300	3100	2900
165x85	5900	5200	4700	4500	4300	4100	3800	3600
195x85	6900	6000	5400	5200	5000	4700	4300	4100
230x85	8000	7000	6300	6000	5800	5500	5000	4700
260x85	9000	7900	7000	6700	6500	6100	5600	5300
295x85	10200	8900	8000	7600	7300	6900	6300	5900
330x85	11400	10000	8900	8500	8200	7700	7000	6600
360x85	12400	10900	9700	9300	8900	8400	7700	7200
395x85	13700	12000	10700	10300	9900	9200	8400	7900
425x85	14800	13000	11600	11100	10700	10000	9100	8500
460x85	16100	14200	12700	12100	11600	10800	9900	9200
495x85	17500	15400	13800	13100	12600	11800	10700	10000*
525x85	18600	16400	14700	14000	13500	12600	11400	10600*
560x85	20000	17700	15800	15100	14500	13500	12300*	11400*
590x85	20000	18500	16700	16100	15400	14400	1400*	12100^
625x85	20000	19300	17400	16800	16200	15300*	14000*	13000^

Table values relate to Allowable Maximum Span in mm.

UPPER LINTEL: BEAM 15 (CAMBERED) – SINGLE SPAN CONTINUED

Size	Roof Load Width							
	0.70	1.20	1.80	2.10	2.40	3.00	4.00	5.00
655x85	20000	20000	18100	17400	16800	15900*	14800^	13700^
690x85	20000	20000	18800	18100	17500	16500*	15400^	14500^
725x85	20000	20000	19500	18800	18100*	17200*	16000^	15100^
760x85	20000	20000	20000	19400*	18800*	17800*	16500^	15600^
790x85	20000	20000	20000	20000*	19400*	18300^	17000^	16100^
825x85	20000	20000	20000	20000*	20000*	18900^	17600^	16600^
855x85	20000	20000	20000	20000*	20000*	19400^	18100^	16600^
890x85	20000	20000	20000	20000*	20000*	20000^	18600^	16600^
920x85	20000	20000	20000	20000*	20000*	20000^	19100^	16500^
955x85	20000	20000	20000	20000*	20000*	20000^	19600^	16500^
990x85	20000	20000	20000	20000*	20000*	20000^	19900^	16400^
1020x85	20000	20000	20000	20000*	20000*	20000^	19900^	16300^
1055x85	20000	20000	20000	20000*	20000*	20000^	19800^	16300^
1090x85	20000	20000	20000	20000*	20000*	20000^	19700^	16200^
1120x85	20000	20000	20000	20000*	20000*	20000^	19600^	16200^
1155x85	20000	20000	20000	20000*	20000*	20000^	19500^	16100^
1190x85	20000	20000	20000	20000*	20000*	20000^	19400^	16000^

Table values relate to Allowable Maximum Span in mm.

UPPER LINTEL: BEAM 15 (CAMBERED) – SINGLE SPAN CONTINUED

Size	Roof Load Width							
	0.70	1.20	1.80	2.10	2.40	3.00	4.00	5.00
130x130	5300	4700	4200	4100	4000	3700	3500	3300
165x130	6500	5800	5200	5000	4800	4600	4200	4000
195x130	7500	6700	6000	5800	5600	5300	4900	4600
230x130	8800	7800	7000	6700	6500	6100	5700	5300
260x130	9800	8700	7900	7600	7300	6900	6300	6000
295x130	11100	9900	8900	8600	8300	7800	7200	6700
330x130	12400	11100	10000	9600	9300	8700	8000	7500
360x130	13600	12100	10900	10500	10100	9500	8700	8200
395x130	14900	13400	12100	11600	11200	10500	9600	9000
425x130	16100	14400	13100	12500	12100	11300	10400	9700
460x130	17500	15700	14300	13700	13200	12400	11300	10600
495x130	18900	17100	15500	14800	14300	13400	12300	11400
525x130	20000	18200	16500	15900	15300	14300	13100	12200
560x130	20000	19500	17800	17100	16500	15400	14100	13200
590x130	20000	20000	18600	17900	17300	16300	15000	14000*
625x130	20000	20000	18600	17900	17300	16300	15000	14000*
655x130	20000	20000	20000	19300	18700	17700	16500	15600*
690x130	20000	20000	20000	20000	19400	18400	17100*	16200*

Table values relate to Allowable Maximum Span in mm.

Note:

* denotes member must have a minimum 45mm bearing length at the 2 supports.

^ denotes member must have a minimum 65mm bearing length at the 2 supports.

UPPER LINTEL: MGP10 – SINGLE SPAN

Size	Roof Load Width							
	0.70	1.20	1.80	2.10	2.40	3.00	4.00	5.00
70x35	900	800	800	800	700	700	700	600
90x35	1400	1300	1200	1200	1100	1100	1000	900
140x35	2800	2600	2300	2200	2100	2000	1700	1500
190x35	4000	3600	3200	3100	2900	2600	2300	2000
240x35	4800	4200	3900	3700	3600	3200	2800	2500
70x45	1000	1000	900	900	900	800	800	700
90x45	1600	1500	1400	1400	1300	1300	1200	1100
140x45	3400	3000	2700	2500	2400	2200	1900	1700
190x45	4300	3800	3400	3300	3200	3000	2600	2300
240x45	5000	4500	4100	3900	3800	3600	3100	2800

Table values relate to Allowable Maximum Span in mm.

Dimensional Data:

Roof Pitch = 25.0 degrees

Load Spacing = 0.6m

Top Edge Restraint = 0.6m

Bottom Edge Restraint = Nil

Wind Coefficients:

Uplift Strength = 1.00

Downdrag Strength = 0.63

Uplift Deflection = 1.00

Downdrag Deflection = 0.63

Basic Loading Data:

Roofing = Metal Sheet (20)

Ceiling = 10mm Plaster Board (12)

Flooring = Particle Board (30)

Floor Live Load = Domestic Stud (1.5, 1.8)

Wind Area = N2

Wind Design Strength Pressure = 0.96 kPa

Wind Serviceability Pressure = 0.4056 kPa

Min. End Bearing Length = 35mm

Min. Intermediate Bearing = 45mm

Minimum J2 factor = 1.5