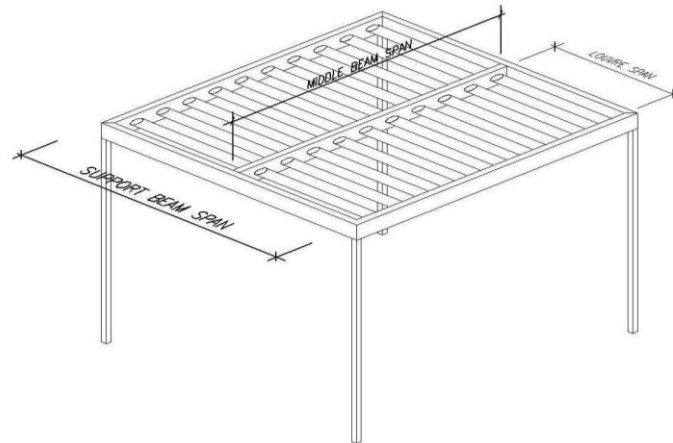




Unit 8, 357 Madras Street  
 Christchurch, New Zealand  
 P.O. Box 13-282  
 Armagh, Christchurch 8141  
 New Zealand  
 Telephone (03) 366-4320  
 Fax (03) 365-7069  
 Email eng@lewisandbarrow.co.nz  
 www.lewisandbarrow.co.nz

## Locarno Edge Beam Supporting Middle Beam Safe Span In Metres



### Locarno Edge Beam Supporting Middle Beam Safe Span In metres

MIDDLE BEAM SPAN <i>in metres</i>	WIND LOADS				SNOW LOADS	
	Light <i>up to 32m/sec</i>	Medium <i>up to 37m/sec</i>	High <i>up to 44m/sec</i>	Very High <i>up to 50m/sec</i>	0.5kPa	1.0kPa
2.5	6.6 (7.0)	6.4 (7.0)	5.3 (7.0)	4.6 (6.5)	6.4 (7.0)	5.2 (7.0)
3.0	6.4 (6.8)	5.8 (6.8)	4.8 (6.8)	4.2 (6.0)	6.1 (6.8)	4.7 (6.7)
3.5	6.2 (6.6)	5.4 (6.6)	4.5 (6.3)	3.9 (5.7)	5.8 (6.6)	4.4 (6.3)
4.0	6.0 (6.4)	5.1 (6.4)	4.2 (5.9)	3.6 (5.2)	5.5 (6.4)	4.1 (5.9)
4.5	5.7 (6.2)	4.8 (6.2)	4.0 (5.6)	3.4 (4.9)	5.2 (6.2)	3.9 (5.5)
5.0	5.4 (6.0)	4.5 (6.0)	3.7 (5.3)	-	4.9 (6.0)	3.7 (5.2)
5.5	5.1 (5.8)	4.3 (5.8)	-	-	4.7 (6.0)	-

Figures in brackets are for two beams screwed together to act as one beam

- Edge beam supporting middle beam is 220x50x2 3 cell proprietary section with screw ports. Alloy 6060-T5.
- Use horizontally as a canopy, awning, or sunshade.
- Can be used for a stand alone carport.
- Can be used as a canopy against a bigger building, with the bigger building side and other sides left open or walled off. Where a canopy against a bigger building is near a corner of the bigger building (i.e. within 20% of the lesser of:
  - The least overall bigger building dimension or,
  - The distance equal to the height of the bigger building) then the spans for wind load will need to be reduced to  $\frac{3}{4}$  of the tabulated spans.

Low wind speed (up to 32m/sec)	Allowable Span = 4.9 however practical limit is 4.0m
Medium wind speed (up to 37m/sec)	Allowable Span = 4.2 however practical limit is 4.0m
High Wind Speed (up to 44m/sec)	Allowable Span = 3.5m
Very High Wind Speed (up to 50m/sec)	Allowable Span = 3.1m
Up to 0.5kPa Snow Load	Allowable Span = 4.8m
Up to 1.0kPa Snow Load	Allowable Span = 3.4m

- Low, medium, high and very high wind speeds are determined for small buildings using NZS 3604:2011. The 32m/sec, 37m/sec, 44m/sec and 50m/sec wind speeds are site wind speeds as defined by NZS 1170:2002.