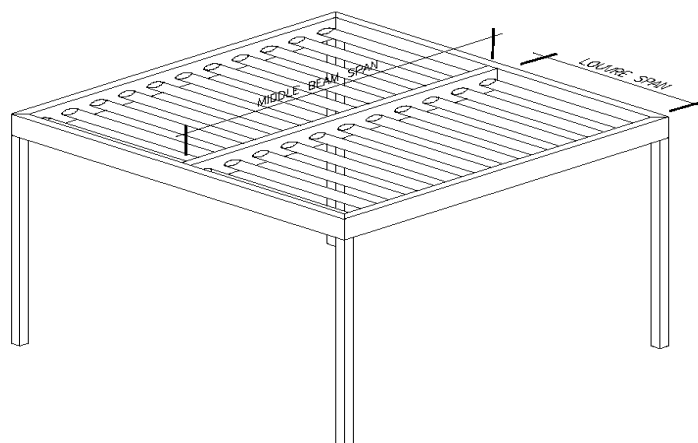




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## Locarno Middle Beam Safe Spans In Metres



RL200 LOUVRE SPAN in metres	WIND LOADS				SNOW LOADS	
	Light up to 32m/sec	Medium up to 37m/sec	High up to 44m/sec	Very High up to 50m/sec	0.5kPa	1.0kPa
2.5	5.6	4.7	3.8	3.3	5.0	3.7
2.75	5.3	4.4	3.7	3.2	4.7	3.5
3.0	5.1	4.3	3.5	3.1	4.5	3.4
3.25	4.9	4.1	3.4	-	4.4	3.3
3.50	4.7	3.9	3.2	-	4.2	3.1
3.75	4.5	3.8	-	-	4.1	3.0
4.0	4.4	3.7	-	-	3.9	2.9

- Middle beam to be 220 x 50 x 2mm 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 = <del>4.9</del> however practical limit is 4.0m
Medium wind speed (up to 37m/sec)	Allowable Span = <del>4.2</del> 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 N.Z.S. 3604:2011. The 32m/sec, 37m/sec, 44m/sec and 50m/sec wind speeds are site wind speeds as defined by N.Z.S. 1170:2002.