

## CONCERTINA LOUVRE FRAME MEMBER SPANS

### General Notes:

1. Site wind speed is to be verified by others.
2. Perimeter beam supports half of the louvre span while a central beam supports louvres on both sides.
3. Spans calculated rely on correct selection of louvre fin.
4. A maximum beam deflection limit of 40mm has been used for members aside from Table 2e. Specific Engineering Design is required for louvres which will be located within areas sensitive to deflections.
5. All spans shown below are maximum values and are measured from the inside edges of the posts.
6. It has been assumed that the louvres will remain in an "open" position during a heavy snow event.
7. Note that the central beam in the Concertina Louvre System is a double beam.
8. We have assumed a drive box will be located adjacent to the beams.

**Table 2k– Johnson & Couzins Max Double Beam (300x50x3.5 RHS) Spans with Snow Load  $\leq 2.0\text{kPa}$**

Beam Location	Medium wind zone (37m/s)		High wind zone (44m/s)		Very High wind zone (50m/s)	
	Light Louvre	Heavy Louvre	Light Louvre	Heavy Louvre	Light Louvre	Heavy Louvre
Perimeter	5.8 m	5.0 m	6.2 m	5.2 m	5.8 m	4.8 m
Central	8.1 m	7.2 m	7.7 m	7.1 m	7.4 m	6.8 m
Cantilever	1.6 m	1.6 m	1.6 m	1.6 m	1.6 m	1.6 m

### Table Specific Notes:

1. Includes allowance to resist up to 2.0 kPa open ground snow load.
2. Refer to the "General Notes" for all other notes which are not specific to this particular table.

**CONCERTINA  
LOUVRE**

**BEAM SPAN - SNOW LOAD 2.0KPA  
DOUBLE 300MM X 50MM X 3.5MM**

