

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 2e – Johnson & Couzins Max Perimeter Beam (200x50x3 RHS) Spans Supporting Shutters for various snow loads

Maximum Site Snow Loading	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
0.9 kPa	4.8 m	4.5 m	4.6 m	4.2 m	4.4 m	4.0 m
1.5 kPa	4.8 m	4.5 m	4.6 m	4.2 m	4.4 m	4.0 m
2.0 kPa	4.7 m	4.2 m	4.6 m	4.2 m	4.4 m	4.0 m

Table Specific Notes:

1. A maximum beam deflection limit of 15mm has been used. Specific Engineering Design is required for louvres which will be located within areas sensitive to deflections.
2. Refer to the "General Notes" for all other notes which are not specific to this particular table.

**CONCERTINA
LOUVRE**

**BEAM SPAN - SUPPORTING SHUTTERS
SINGLE 200MM X 50MM X 3MM**

