

## SILENCIO 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 above are maximum values.
6. It has been assumed that the louvres will remain in an "open" position during a heavy snow event.
7. For the perimeter beam spans we have assumed a drive box will be located adjacent to the beam.

**Table 2m – Johnson & Couzins Max Single Beam (200x50x5 RHS) Spans with Snow Load  $\leq$  1.5kPa**

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	6.8 m	5.9 m	6.4 m	5.8 m	6.2 m	5.2 m
Central	5.5 m	4.7 m	5.1 m	4.4 m	4.7 m	3.9 m
Cantilever	1.8 m	1.5 m	1.9 m	1.6 m	2.0 m	1.7 m

### Table Specific Notes:

1. Includes allowance to resist up to 1.5 kPa open ground snow load.
2. Refer to the "General Notes" for all other notes which are not specific to this particular table.

**SILENCIO LOUVRE**

**BEAM SPAN - SNOW LOAD 1.5KPA  
SINGLE 200MM X 50MM X 5MM RHS**

