## TABLE 1: CALCULATE OPENING ROOF SPANS

STUDIO89 LTD
CONSULTING ENGINEERS

OVERHEAD ADJUSTABLE OPENING ROOF

REFER STUDIO 89 PS1



| WIND ZONE | | L | M | H | VH | EH |
|---|---|---|---|---|---|---|
| Ultimate design factored wind speed at building | | 115km/h | 133km/h | 158km/h | 179km/h | 198km/h |
| | | 32 m/s | 37 m/s | 44 m/s | 50 m/s | 55 m/s |

| ROOF LOUVRE (3m ROOF HEIGHT) | L | M | H | VH | EH |
|---|---|---|---|---|---|
| Louvretec 180 opening slimline roof | 4000 | 4000 | 3750 | 3200 | 2850 |
| Louvretec 200 opening slimline roof | 4500 | 4500 | 4500 | 4300 | 4000 |
| Louvretec 220 opening slimline roof (retract compatible) | 4300 | 4300 | 4200 | 4000 | 3500 |
| Louvretec 220/45 opening alpine* roof (retract compatible) | 5000 | 5000 | 5000 | 5000 | 5000 |
| Louvretec 200 opening suburban roof | 4500 | 4500 | 4000 | 3600 | 3300 |
| Louvretec 270 opening translucent roof | 4500 | 4500 | 4000 | 3500 | 3250 |

| ROOF LOUVRE (6m ROOF HEIGHT) | L | M | H | VH | EH |
|---|---|---|---|---|---|
| Louvretec 180 opening slimline roof | 4000 | 4000 | 3300 | 2800 | 2500 |
| Louvretec 200 opening slimline roof | 4500 | 4500 | 4400 | 4000 | 3800 |
| Louvretec 220 opening slimline roof (retract compatible) | 4300 | 4300 | 4050 | 3500 | 3150 |
| Louvretec 220/45 opening alpine* roof (retract compatible) | 5000 | 5000 | 5000 | 5000 | 4700 |
| Louvretec 200 opening suburban roof | 4500 | 4500 | 3800 | 3250 | 3000 |
| Louvretec 270 opening translucent roof | 4500 | 4500 | 3550 | 3250 | 3000 |

*For larger spans, typically alpine and coastal locations



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