

VENTÜER VENTILATION LOUVRE STRUCTURAL FIXING GUIDE

Perimeter Fixing Spacings for Ventüer Ventilation Louvres

Wind Zone	None				Low				Medium				High				Very High				Extra High			
m/s	0.0 m/s				32 m/s				37 m/s				44 m/s				50 m/s				55 m/s			
Kpa	0.0 Kpa				0.88 Kpa				1.18 Kpa				1.68 Kpa				2.17 Kpa				2.63 Kpa			
Substrate	Timber		Concrete		Steel		Aluminium		Timber		Concrete		Steel		Aluminium		Timber		Concrete		Steel		Aluminium	
	Louvre Panel Size (mm)	600	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
700	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	700	750	750	750	610	570
800	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	690	610	750	750	530	500	750	630
900	750	750	750	750	750	750	750	750	750	750	750	750	750	750	700	750	750	610	540	750	680	470	450	700
1000	750	750	750	750	750	750	750	750	750	750	750	750	750	750	630	750	750	550	490	750	610	430	400	630
1100	750	750	750	750	750	750	750	750	750	750	750	750	710	570	750	710	500	440	690	550	390	370	570	460
1200	750	750	750	750	750	750	750	750	750	750	750	750	650	520	750	650	460	410	630	510	350	330	520	420
1300	750	750	750	750	750	750	750	750	750	750	690	750	600	480	750	600	420	370	580	470	330	310	480	390
1400	750	750	750	750	750	750	750	750	750	750	640	750	560	450	700	560	390	350	540	430	300	290	450	360
1500	750	750	750	750	750	750	750	750	700	600	750	750	520	420	650	520	370	320	510	410	280	270	420	330
1600	750	750	750	700	750	750	750	660	560	750	700	490	390	610	490	340	300	480	380	270	250	390	310	220
1700	750	750	750	660	710	750	750	620	530	750	660	460	370	580	460	320	290	450	360	250	240	370	300	210
1800	710	750	750	620	670	750	750	580	500	750	620	440	350	550	440	310	270	420	340	240	220	350	280	200
1900	670	750	750	590	630	750	750	550	470	740	590	410	330	520	410	290	260	400	320	220	210	330	260	180
2000	640	750	750	560	600	750	750	530	450	700	560	390	310	490	390	280	240	380	300	210	200	310	250	180
2100	610	750	750	530	570	750	710	500	430	670	530	370	300	470	370	260	230	360	290	200	190	300	240	170
2200	580	750	730	510	550	750	680	480	410	640	510	360	290	450	360	250	220	350	280	190	180	290	230	160
2300	560	750	700	490	520	750	650	460	390	610	490	340	270	430	340	240	210	330	260	190	170	270	220	150
2400	530	750	670	470	500	750	630	440	370	580	470	330	260	410	330	230	200	320	250	180	170	260	210	150
2500	510	750	640	450	480	750	600	420	360	560	450	310	250	390	310	220	190	300	240	170	160	250	200	140

Numbers in cells above are maximum recommended fixing spacings in mm

Recommended Fixing Types

Substrate	Fixing Type
Timber	14g Type 17 self tapping screw, minimum 45mm embedment
Concrete	6mm screw anchor, minimum 60mm embedment
Steel <4mm thick	12g self drilling self tapping screw
Steel >4mm thick	M6 machine screw
Aluminium	12g self drilling self tapping screw
<i>(all fixings in exterior applications to be S/S 316)</i>	

General Notes:

- "Louvre panel size" on this table refers to the shorter dimension of a rectangular shaped panel, i.e. a louvre 1800mm high x 900mm wide would use "900mm" for determining fixing spacings, and a louvre 1200mm x 3000mm wide would use "1200mm".
- Self weight of louvre panel is assumed to be maximum 30kg/m² (equivalent to Ventüer VL-3SD)
- Louvres are assumed to be non-porous and placed vertically for purpose of wind loadings.
- The information contained in this document is intended to be a design guide only. Project -specific details and applied loads may require specific engineering calculations.

