

Exposed Fastener Windload Design Guidelines

Vertical Applications on Walls

Panel Thickness 8mm

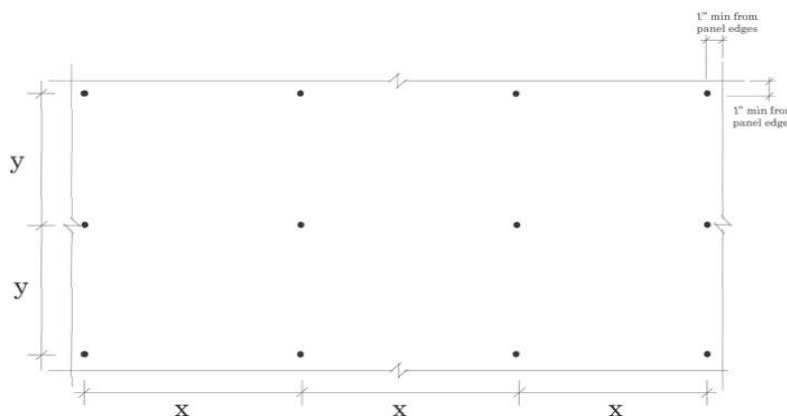
Number of Fasteners		Wind Pressure PSF					
		25	30	35	40	45	50
1 into J-shaped vertical extrusion	x-spacing (in)	32.00	32.00	32.00	32.00	32.00	32.00
	y-spacing (in)	31.25	26.00	22.25	19.50	17.25	15.50
	x-spacing (in)	24.00	24.00	24.00	24.00	24.00	24.00
	y-spacing (in)	*37.00	34.75	29.75	26.00	23.00	20.75
	x-spacing (in)	16.00	16.00	16.00	16.00	16.00	16.00
	y-spacing (in)	*41.00	*39.00	37.00	36.00	34.75	31.25
1 with 1" min. opening. Into SPF wood	x-spacing (in)	32.00	32.00	32.00	32.00	32.00	32.00
	y-spacing (in)	15.50	13.00	11.00	9.50	8.50	7.75
	x-spacing (in)	24.00	24.00	24.00	24.00	24.00	24.00
	y-spacing (in)	20.75	17.25	14.75	13.00	11.50	10.25
	x-spacing (in)	16.00	16.00	16.00	16.00	16.00	16.00
	y-spacing (in)	31.00	26.00	22.00	19.50	17.25	15.50

Panel Thickness 10mm

Number of Fasteners		Wind Pressure PSF					
		25	30	35	40	45	**50
1 into J-shaped vertical extrusion	x-spacing (in)	32.00	32.00	32.00	32.00	32.00	32.00
	y-spacing (in)	31.25	26.00	22.25	19.50	17.25	15.50
	x-spacing (in)	24.00	24.00	24.00	24.00	24.00	24.00
	y-spacing (in)	41.50	34.75	29.75	26.00	23.00	20.75
	x-spacing (in)	16.00	16.00	16.00	16.00	16.00	16.00
	y-spacing (in)	*49.00	*46.00	44.50	39.00	34.75	31.25
1 with 1" min. opening. Into SPF wood	x-spacing (in)	32.00	32.00	32.00	32.00	32.00	32.00
	y-spacing (in)	15.50	13.00	11.00	9.50	8.50	7.75
	x-spacing (in)	24.00	24.00	24.00	24.00	24.00	24.00
	y-spacing (in)	20.75	17.25	14.75	13.00	11.50	10.25
	x-spacing (in)	16.00	16.00	16.00	16.00	16.00	16.00
	y-spacing (in)	31.00	26.00	22.00	19.50	17.25	15.50

* Indicates that the panel control spacing

** For additional options and fastening variables on 10mm thick panels at 50 psf into Aluminum Extrusions see our ICC Evaluation Services Report #3340 at www.icc-es.org

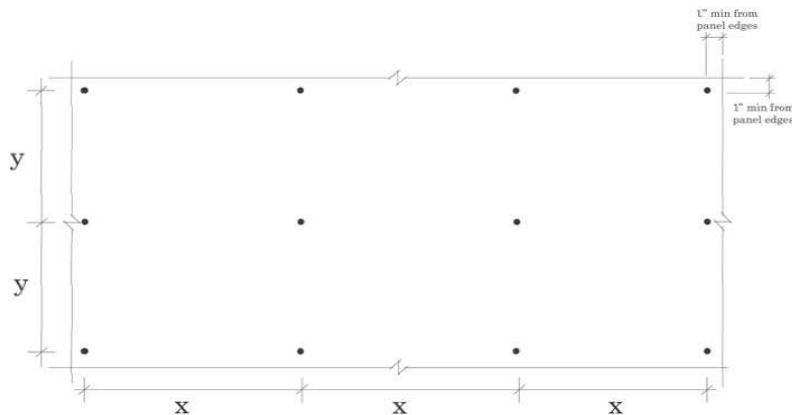


1. Chart utilizes AAMA TIR-A9-91 (2000 Addendum) Table 41 for the allowable pullout of #12 screw into 6063-T5 1/8" aluminum.
2. Chart utilizes TW-S-D12 Pan Head 304 Austenitic Stainless Steel self-tapping fasteners with a minimum 1" full wood penetration.
3. Wood is assumed to be spruce-pine-fir species.
4. Connection of vertical J-extrusion or wood batten to substrate beyond must be engineered by others.
5. These are design pressure guidelines only and not a substitute for project specific engineering calculations.

Horizontal Applications on Soffits

Panel Thickness:		8 mm					
No. of Fasteners		Wind Pressure (psf)					
		25	30	35	40	45	50
1 into J-shaped alum. extrusion	x-spacing (in)	32	32	32	32	32	32
	y-spacing (in)	22.9	19.4	16.8	14.8	13.2	12.0
	x-spacing (in)	24	24	24	24	24	24
	y-spacing (in)	30.5	25.8	22.3	19.7	17.6	15.9
	x-spacing (in)	16	16	16	16	16	16
	y-spacing (in)	39.6	38.0	33.5	29.6	26.4	23.9
1 with 1" min pen. Into SPF wood	x-spacing (in)	32	32	32	32	32	32
	y-spacing (in)	11.4	9.6	8.4	7.4	6.6	6.0
	x-spacing (in)	24	24	24	24	24	24
	y-spacing (in)	15.2	12.9	11.1	9.8	8.8	7.9
	x-spacing (in)	16	16	16	16	16	16
	y-spacing (in)	22.8	19.3	16.7	14.7	13.2	11.9

Panel Thickness:		10 mm					
No. of Fasteners		Wind Pressure (psf)					
		25	30	35	40	45	50
1 into J-shaped alum. extrusion	x-spacing (in)	32	32	32	32	32	32
	y-spacing (in)	22.4	19.0	16.5	14.6	13.1	11.8
	x-spacing (in)	24	24	24	24	24	24
	y-spacing (in)	29.9	25.3	22.0	19.4	17.4	15.8
	x-spacing (in)	16	16	16	16	16	16
	y-spacing (in)	44.8	38.0	33.0	29.2	26.1	23.7
1 with 1" min pen. Into SPF wood	x-spacing (in)	32	32	32	32	32	32
	y-spacing (in)	11.2	9.5	8.2	7.3	6.5	5.9
	x-spacing (in)	24	24	24	24	24	24
	y-spacing (in)	14.9	12.6	11.0	9.7	8.7	7.9
	x-spacing (in)	16	16	16	16	16	16
	y-spacing (in)	22.3	18.9	16.4	14.5	13.0	11.8



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