

Based on the Modified Bernoulli Equation
as defined at <http://gdjinc.com/pdf/WTLessonPlans.pdf>



mph	lb/sq ft	PSI	Safety Factor	Design PSI	Anchor & Strap 165 lb / 75 kg		Flexitie 99 lb / 45 kg		Monostud/Cable Tie 77 lb / 35 kg	
					Max sq ft per unit	Max distance (in) between units	Max sq ft per unit	Max distance (in) between units	Max sq ft per unit	Max distance (in) between units
2	0.01	0.000	2	0.000	8063.55	1077.57	4838.13	834.68	3762.99	736.12
4	0.04	0.000	2	0.001	2015.89	538.78	1209.53	417.34	940.75	368.06
6	0.09	0.001	2	0.001	895.95	359.19	537.57	278.23	418.11	245.37
8	0.16	0.001	2	0.002	503.97	269.39	302.38	208.67	235.19	184.03
10	0.26	0.002	2	0.004	322.54	215.51	193.53	166.94	150.52	147.22
12	0.37	0.003	2	0.005	223.99	179.59	134.39	139.11	104.53	122.69
14	0.50	0.003	2	0.007	164.56	153.94	98.74	119.24	76.80	105.16
16	0.65	0.005	2	0.009	125.99	134.70	75.60	104.33	58.80	92.01
18	0.83	0.006	2	0.012	99.55	119.73	59.73	92.74	46.46	81.79
20	1.02	0.007	2	0.014	80.64	107.76	48.38	83.47	37.63	73.61
22	1.24	0.009	2	0.017	66.64	97.96	39.98	75.88	31.10	66.92
24	1.47	0.010	2	0.020	56.00	89.80	33.60	69.56	26.13	61.34
26	1.73	0.012	2	0.024	47.71	82.89	28.63	64.21	22.27	56.62
28	2.01	0.014	2	0.028	41.14	76.97	24.68	59.62	19.20	52.58
30	2.30	0.016	2	0.032	35.84	71.84	21.50	55.65	16.72	49.07
32	2.62	0.018	2	0.036	31.50	67.35	18.90	52.17	14.70	46.01
34	2.96	0.021	2	0.041	27.90	63.39	16.74	49.10	13.02	43.30
36	3.31	0.023	2	0.046	24.89	59.86	14.93	46.37	11.61	40.90
38	3.69	0.026	2	0.051	22.34	56.71	13.40	43.93	10.42	38.74
40	4.09	0.028	2	0.057	20.16	53.88	12.10	41.73	9.41	36.81
42	4.51	0.031	2	0.063	18.28	51.31	10.97	39.75	8.53	35.05
44	4.95	0.034	2	0.069	16.66	48.98	10.00	37.94	7.77	33.46
46	5.41	0.038	2	0.075	15.24	46.85	9.15	36.29	7.11	32.01
48	5.89	0.041	2	0.082	14.00	44.90	8.40	34.78	6.53	30.67
50	6.39	0.044	2	0.089	12.90	43.10	7.74	33.39	6.02	29.44
52	6.92	0.048	2	0.096	11.93	41.44	7.16	32.10	5.57	28.31
54	7.46	0.052	2	0.104	11.06	39.91	6.64	30.91	5.16	27.26
56	8.02	0.056	2	0.111	10.29	38.48	6.17	29.81	4.80	26.29
58	8.60	0.060	2	0.120	9.59	37.16	5.75	28.78	4.47	25.38
60	9.21	0.064	2	0.128	8.96	35.92	5.38	27.82	4.18	24.54
62	9.83	0.068	2	0.137	8.39	34.76	5.03	26.93	3.92	23.75
64	10.48	0.073	2	0.146	7.87	33.67	4.72	26.08	3.67	23.00
66	11.14	0.077	2	0.155	7.40	32.65	4.44	25.29	3.46	22.31
68	11.83	0.082	2	0.164	6.98	31.69	4.19	24.55	3.26	21.65
70	12.53	0.087	2	0.174	6.58	30.79	3.95	23.85	3.07	21.03
72	13.26	0.092	2	0.184	6.22	29.93	3.73	23.19	2.90	20.45
74	14.01	0.097	2	0.195	5.89	29.12	3.53	22.56	2.75	19.90
76	14.77	0.103	2	0.205	5.58	28.36	3.35	21.97	2.61	19.37
78	15.56	0.108	2	0.216	5.30	27.63	3.18	21.40	2.47	18.87
80	16.37	0.114	2	0.227	5.04	26.94	3.02	20.87	2.35	18.40
82	17.20	0.119	2	0.239	4.80	26.28	2.88	20.36	2.24	17.95
84	18.05	0.125	2	0.251	4.57	25.66	2.74	19.87	2.13	17.53
86	18.92	0.131	2	0.263	4.36	25.06	2.62	19.41	2.04	17.12
88	19.81	0.138	2	0.275	4.17	24.49	2.50	18.97	1.94	16.73
90	20.72	0.144	2	0.288	3.98	23.95	2.39	18.55	1.86	16.36

Hurricane Wind

Not recommended for these wind exposures

Safety factor cannot be obtained with this fastener