

Wind rating comparison of various fence post types and sizes based on worst case post (1st line post next to end post)
 96' long straight fence run - 6' high solid fence - 8' post spacing - no return corners - no gap at the bottom - Exposure B
 For comparison only - not for design - no axial forces included in the values below which will reduce these speeds
 Shorter fence runs will increase these speeds - longer fence runs will lower the speeds

Mid rail braced, w/ or w/o top rail		2-3/8" O.D. Pipe	mph	1-1/2" Square	mph
Hat Channel	mph	18 Ga, 40 ksi	35	16 ga, 45 ksi	30
11 Ga H4"	30	17 Ga, 40 ksi	38	14 ga, 45 ksi	33
12 Ga H4-1/2"	30	16 Ga, 40 ksi	41	11 ga, 45 ksi	38
11 Ga H3-1/2"	39	15 wt, 50 ksi	49		
		20 wt, 50 ksi	55	2" Square	mph
Wood	mph	30 wt, 50 ksi	59	16 ga, 45 ksi	42
4 x 4 PT #2 Pine	52	Sched 40, 30 ksi	52	14 ga, 45 ksi	46
4 x 6 PT #2 Pine	72	40 wt, 50 ksi	63	11 ga, 45 ksi	54
6 x 6 PT #2 Pine	98	Sched 40, 50 ksi	68	1/4", 45 ksi	75
4 x 4 Red Cedar	41	Sched 80, 50 ksi	79		
4 x 6 Red Cedar	61			2-1/2" Square	mph
6 x 6 Red Cedar	82	2-7/8" O.D. Pipe	mph	16 ga, 45 ksi	52
		20 wt, 50 ksi	72	14 ga, 45 ksi	59
1-5/8" O.D. Pipe	mph	30 wt, 50 ksi	77	12 ga, 45 ksi	67
18 Ga, 40 ksi	24	Sched 40, 30 ksi	73	11 ga, 45 ksi	69
17 Ga, 40 ksi	26	40 wt, 50 ksi	84	1/4", 45 ksi	98
16 Ga, 40 ksi	28	Sched 40, 50 ksi	94		
15 wt, 50 ksi	33	Sched 80, 50 ksi	107	3" Square	mph
20 wt, 50 ksi	35			14 ga, 45 ksi	70
30 wt, 50 ksi	37	3-1/2" O.D. Pipe	mph	12 ga, 45 ksi	81
Sched 40, 30 ksi	34	Sched 40, 30 ksi	92	11 ga, 45 ksi	84
40 wt, 50 ksi	39	40 wt, 50 ksi	104	1/4", 45 ksi	121
Sched 40, 50 ksi	44	Sched 40, 50 ksi	119		
Sched 80, 50 ksi	50	Sched 80, 50 ksi	137	4" Square	mph
				13 ga, 45 ksi	103
1-7/8" O.D. Pipe	mph	4" O.D. Pipe	mph	11 ga, 45 ksi	111
18 Ga, 40 ksi	28	30 wt, 50 ksi	113	1/4", 45 ksi	166
17 Ga, 40 ksi	30	Sched 40, 30 ksi	109		
16 Ga, 40 ksi	32	40 wt, 50 ksi	120	6" Square	mph
15 wt, 50 ksi	38	Sched 40, 50 ksi	140	1/4", 45 ksi	257
20 wt, 50 ksi	42	Sched 80, 50 ksi	163		
30 wt, 50 ksi	45			Mid rail braced, w/ or w/o top rail	
Sched 40, 30 ksi	40	4-1/2" O.D. Pipe	mph	C Channel - Weak Axis	mph
40 wt, 50 ksi	47	Sched 40, 30 ksi	126	12 Ga C1-7/8"	30
Sched 40, 50 ksi	52	Sched 40, 50 ksi	162	11 Ga C1-7/8"	34
Sched 80, 50 ksi	59	Sched 80, 50 ksi	190	11 Ga C2-1/4"	38
				10 Ga C3-1/4	55
		6-5/8" O.D. Pipe	mph	9 Ga C3-1/4"	64
		Sched 40, 30 ksi	203		
		Sched 40, 50 ksi	263	Mid rail braced, w/ or w/o top rail	
		Sched 80, 50 ksi	320	C Channel - Strong Axis	mph
				12 Ga C1-7/8"	44
				11 Ga C1-7/8"	47
				11 Ga C2-1/4"	55
				10 Ga C3-1/4	96
				9 Ga C3-1/4"	102