

Allowable Wind Force at Mid-height, F_a (lbs) & Allowable Axial Force, P_a (lbs) - Hat Channels												
Post Size	Wt	F_y		Fence Height, H (ft)								
	plf	ksi		3	4	5	6	7	8	9	10	11
Cold Formed Hat Channels - Weak Axis / Weak Direction Bending - No Lateral Bracing												
11 Ga H4"	2.5	34	F_a	237	178	142	118	101	89	-	-	-
			P_a	4,552	2,571	1,645*	1,142*	839*	642*	-	-	-
12 Ga H4-1/2"	2.5	50	F_a	287	187	136	106	85	71	60	51	-
			P_a	4,943	3,810	2,439	1,693*	1,244*	952*	752*	609*	-
11 Ga H3-1/2"	2.6	50	F_a	400	268	193	146	115	93	77	65	-
			P_a	6,026	4,338	2,776	1,928*	1,416*	1,084*	857*	694*	-
Cold Formed Hat Channels - Weak Axis / Weak Direction Bending -Top Bracing												
11 Ga H4"	2.5	34	F_a	237	178	142	118	101	89	-	-	-
			P_a	4,552	2,571	1,645*	1,142*	839*	642*	-	-	-
12 Ga H4-1/2"	2.5	50	F_a	300	198	148	118	97	83	72	63	-
			P_a	5,042	3,810	2,439	1,693*	1,244*	952*	752*	609*	-
11 Ga H3-1/2"	2.6	50	F_a	429	303	232	186	153	128	109	95	-
			P_a	6,763	4,338	2,776	1,928*	1,416*	1,084*	857*	694*	-
Cold Formed Hat Channels - Mid Rail bracing - Weak Axis / Weak Direction												
11 Ga H4"	2.5	34	F_a	-	-	142	118	101	89	-	-	-
			P_a	-	-	1,645*	1,142*	839*	642*	-	-	-
12 Ga H4-1/2"	2.5	50	F_a	-	-	151	121	101	87	76	68	-
			P_a	-	-	2,439	1,693*	1,244*	952*	752*	609*	-
11 Ga H3-1/2"	2.6	50	F_a	-	-	243	199	167	144	126	112	-
			P_a	-	-	2,776	1,928*	1,416*	1,084*	857*	694*	-
Post Size	plf	ksi		3	4	5	6	7	8	9	10	11
	Wt	F_y		Fence Height, H (ft)								

Notes: (*) Keep p_w / P_a and $p_i / P_a \leq 0.2$ as KH / r exceeds 200

(-) KH / r exceeds 400 or Not Applicable