

Broadband

Pole Design Properties

150 Ft. AGL Standard Tapered Steel Poles

Phys	Physical Properties for 150 Ft. Tapered Steel Poles				
	Light	Medium	Heavy		
Design Number	T150LA	T150MA	T150HA		
Tip OD, in.	6.50	9.00	12.00		
OD @ grade, in.	31.80	34.30	37.30		
Butt OD, in.	36.12	39.00	42.19		
Number Sides	12	16	18		
Δ Dia, in/ft	0.1802	0.1810	0.1809		
Side Taper, in/ft	0.0901	0.0905	0.0905		
Embedment, ft.	24	26	27		
Auger Dia, ft.	4.0	4.5	5.0		
Backfill Type	Aggregate	Aggregate	Aggregate		
Total Length, ft.	174	176	177		
Bare Pole Wt, lbs.	10,312	12,293	13,961		
No. of Sections	4	4	4		

		EPA (ft ²) for	150 Ft.	Tapere	d Stee	l Poles			
Wind Spe	ed, MPH		Light		N	1ediu n	n		Heavy	
Fastest	3-sec	Sv	vay Lin	nit	Sw	ay Lir	nit	Sv	vay Lir	nit
Mile	Gust	4°	3°	2°	4°	3°	2°	4°	3°	2°
70	85	17	5		47	26	6	89	63	31
80	100	17	5	and the same of th	47	26	6	89	63	31
90	110	17	5		30	26	6	65	63	31
100	120		below management of the second	Enoughphros	10	10	6	39	39	31
110	130						- I	22	22	22
120	140					-	-	6	6	6

Notes

- 1. The tabulated EPA values represent the total EPA capacity of the pole. The capacity is based on the assumption that 80% of the total EPA is located at the top of the pole and the remaining 20% is located 20 ft. below the top. When all loading is located at the top of the pole, the tabulated EPA capacity must be reduced by 20%. Refer to *Antenna Index* for the EPA values and sway limitations for specific antenna types.
- 2. The dash (—) in the table indicates that the pole is not adequate to support antennas for the indicated wind speed.
- 3. Bare pole weight represents the weight of the pole without accessories.
- 4. Designs are based on a maximum of (6) ½" internally routed coax per elevation, 90 lbs per elevation for mounts, and antenna weights in pounds equal to 6 times the tabulated EPA values.
- 5. Pole embedment is based on ANSI/TIA/EIA-222-F normal soil conditions.

Designed By:	Mar	Checked By:	- HA	Approved By:	44
Date:	7/31/07	Date:	7/31/07	Date:	7/31/07
7/31/2007			€		A070102R1-10A



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150 Ft. AGL Standard Tapered Steel Poles Section Data

C 4. N.		Light	Medium	Heavy
Section No.	Design Number	T150LA	T150MA	T150HA
	Length, ft.	38.17	41.25	43.50
1	Galv. Wt., lbs	809	1,114	1,470
(top)	Min. Splice, in.	21.0	26.0	31.0
	Max. Splice, in.	23.0	28.5	34.0
	Length, ft.	48.00	48.00	48.00
2	Galv. Wt., lbs	1,740	2,705	3,155
2	Min. Splice, in.	33.0	37.0	42.0
	Max. Splice, in.	36.0	40.5	46.0
	Length, ft.	48.00	48.00	48.00
3	Galv. Wt., 1bs	3,371	3,734	4,171
	Min. Splice, in.	44.0	48.0	53.0
	Max. Splice, in.	48.0	52.5	58.0
	Length, ft.	48.00	48.00	48.00
4	Galv. Wt., lbs	4,391	4,740	5,164
(bottom)	Min. Splice, in.	Name of the last o		
	Max. Splice, in.	e-months and		

	Maximum Reactions			
	Light	Medium	Heavy	
Download, kips	13.3	15.7	17.7	
OTM, ft-kips	845.4	995.0	1,153.7	
Shear, kips	11.4	14.3	16.0	

Designed By:

<u>Mar</u> Checked By: <u>7/31/07</u> Date:

7/31/2007

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