

Broadband

Pole Design Properties

30 Ft. AGL Standard Tapered Steel Poles

Physical Properties for 30 Ft. Tapered Steel Poles					
	Light	Medium	Heavy		
Design Number	T30LA	T30MA	T30HA		
Tip OD, in.	6.50	9.00	12.00		
OD @ grade, in.	10.70	13.20	16.20		
Butt OD, in.	12.10	14.74	18.02		
Number Sides	12	16	18		
Δ Dia, in/ft	0.1400	0.1400	0.1400		
Side Taper, in/ft	0.0700	0.0700	0.0700		
Embedment, ft.	10	16	13		
Auger Dia, ft.	2.5	2.5	3.0		
Backfill Type	Aggregate	Aggregate	Aggregate		
Total Length, ft.	40	41	43		
Bare Pole Wt, lbs.	793	1,031	1,368		
No. of Sections	1	1	1		

		EPA	(ft ²) for	· 30 Ft.	Tapere	d Steel	Poles			
Wind Spe	ed, MPH		Light		1	Mediun	1		Heavy	
Fastest	3-sec	Sway Limit		Sway Limit Sway Limit		nit	Sway Limit			
Mile	Gust	4°	3°	2°	4°	3°	2°	4°	3°	2°
70	85	69	49	29	110	108	68	170	170	143
80	100	52	49	29	80	80	68	126	126	126
90	110	38	38	29	59	59	59	95	95	95
100	120	27	27	27	44	44	44	74	74	74
110	130	19	19	19	32	32	32	57	57	57
120	140	13	13	13	24	24	24	45	45	45

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:	144
Date:	7/31/07	Date:	7/3/107	Date:	7/3/107
6/11/2007			, ,		A070102R1-aA



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Section Data

C43 NI-	·	Light	Medium	Heavy
Section No.	Design Number	T30LA	T30MA	T30HA
	Length, ft.	40.00	41	43
1	Galv. Wt., lbs	793	1,031	1,368
(bottom)	Min. Splice, in.			1 <u>- 1 - 1</u>
	Max. Splice, in.			<u>. 44</u> 1, 16

	Maximum Reactions			
	Light	Medium Heavy		
Download, kips	2.0	2.6 3.6		
OTM, ft-kips	46.7	69.9 102.4		
Shear, kips	2.2	3.1 2.0		

Designed By: Date:

Checked By:
Date:

A070102R1-aB

6/11/2007