

## Guyed Towers

### Guyed Tower Land Requirements at 80% Guying\*

Tower Height	Acres	Layout 1		Layout 2	
		A	B	Acres	C
200'	1.92	310'	270'	2.81	350'
210'	2.13	325'	285'	3.14	370'
220'	2.31	340'	295'	3.40	385'
230'	2.50	350'	310'	3.57	400'
240'	2.68	365'	320'	3.95	415'
250'	2.88	380'	330'	4.24	430'
260'	3.13	395'	345'	4.65	450'
270'	3.34	410'	355'	4.96	465'
280'	3.57	420'	370'	5.29	480'
290'	3.80	435'	380'	5.63	495'
300'	4.03	450'	390'	5.97	510'
310'	4.33	465'	405'	6.45	530'
320'	4.53	475'	415'	6.82	545'
330'	4.84	490'	430'	7.20	560'
340'	5.10	505'	440'	7.59	575'
350'	5.37	520'	450'	8.00	590'
360'	5.71	535'	465'	8.54	610'
370'	5.94	545'	475'	8.97	625'
380'	6.30	560'	490'	9.40	640'
390'	6.60	575'	500'	9.85	655'
400'	6.91	590'	510'	10.31	670'
410'	7.23	600'	525'	10.93	690'
420'	7.55	615'	535'	11.41	705'
430'	7.96	630'	550'	11.90	720'
440'	8.29	645'	560'	12.40	735'
450'	8.54	660'	570'	12.91	750'
460'	9.00	670'	585'	13.81	770'
470'	9.38	685'	595'	14.15	785'
480'	9.80	700'	610'	14.69	800'
490'	10.18	715'	620'	15.25	815'
500'	10.49	725'	630'	15.81	830'

\*The distance between the tower and outer guy anchor equals 80% of the tower height. Other ratios to 60% can usually be accommodated.

#### General Notes:

1. Space allowance has been made for concrete anchors as shown on layouts.
2. Information in table is based on outer anchors being located 80% of tower height from base and oriented 120° apart.
3. All information is based on level ground site conditions.
4. Height of tower = H (ft)
  - A(ft) = ((H x 0.80) COS 30°) x 2 + 30
  - B(ft) = ((H x 0.80) x (1 + SIN 30°)) + 30
  - C(ft) = ((H x 0.80) + 15) x 2