



N - SERIES

SELF-SUPPORTING TOWERS

ALLOWABLE ANTENNA AREAS

(SQ.FT. - C_AA_A)

Nello Corporation
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Height (Ft.)	70 MPH								80 MPH								90 MPH							
	No Ice				1/2" Ice				No Ice				1/2" Ice				No Ice				1/2" Ice			
	25N	45N	55N	65N	25N	45N	55N	65N	25N	45N	55N	65N	25N	45N	55N	65N	25N	45N	55N	65N	25N	45N	55N	65N
10	19.7	42.5	75.0	175.9	22.8	55.0	99.0	231.4	14.3	30.0	57.0	133.0	15.5	40.0	74.0	174.3	10.5	25.0	45.0	103.6	10.5	30.0	57.0	135.0
20	14.2	22.0	43.0	117.0	14.4	25.0	52.0	150.0	9.0	16.0	30.0	85.0	7.1	16.0	35.0	105.0	6.9	11.0	23.0	65.0	2.1	10.0	26.0	85.0
30	6.4	12.0	26.0	76.2	2.5	9.0	27.0	95.0	3.7	7.5	17.0	55.8		2.7	16.0	65.0	1.7	4.0	12.0	40.0			9.0	49.0
35	3.6	8.7	21.9	61.2		4.7	22.2	76.4	1.4	4.7	14.5	44.0			12.4	53.4		1.9	9.4	32.2			5.7	37.7
40	1.5	5.1	15.0	48.8			8.0	59.1		1.4	8.0	34.1			2.5	39.0			4.0	24.1				25.0
45		2.3	11.4	39.0			5.5	45.7			5.9	26.2				28.8			2.2	17.7				17.2
50			6.5	29.3				33.5			1.5	19.7				19.1				14.5				8.0
55			4.0	24.4				25.0				14.5				11.4				7.7				2.6
60				18.4				16.0				9.4				4.1				3.3				0.0
70				8.7				1.9				1.3				0.0				0.0				0.0
80				0.9				0.0				0.0				0.0				0.0				0.0

Notes:

1. Nello Corporation designs conform to ANSI/TIA/EIA-222-F unless otherwise specified under tower design loading.
2. The design loading criteria has been provided to Nello Corporation. The design loading criteria has been assumed to be based on site-specific data in accordance with ANSI/TIA/EIA-222-F and must be verified by others prior to installation.
3. Tower member design does not include stresses due to erection since erection equipment and condition are unknown.
4. Design assumes competent and qualified personnel will erect the tower.
5. Work shall be in accordance with ANSI/TIA/EIA-222-F. "Structural Standards For Steel Antenna Towers and Antenna Supporting Structures."
6. Field connections shall be bolted. No field welds shall be allowed.
7. Structural steel shall be hot-dipped galvanized after fabrication in accordance with ANSI/TIA/EIA-222-F.
8. Purchaser shall verify the installation is in conformance with local, state and federal requirements for construction marking and lighting.
9. Tolerance on tower steel height is equal to plus 1% or minus 1/2%.
10. Design assumes, as a minimum, maintenance and inspection will be performed over the life of the structure in accordance with ANSI/TIA/EIA-222-F.
11. Design assumes level grade at tower site.
12. Tower must have "fixed" base. Pinned base must not be used.
13. Design assumes two 7/8" transmission lines on each face of tower for a total of six lines.
14. Antennas and mounts are assumed to be symmetrically placed at tower apex.
15. Do not install or dismantle towers within falling distance of electrical and/or telephone lines.
16. Install Anit-climb warning sign in highly visible location.