


## SELF-SUPPORTING TOWERS - ALLOWABLE ANTENNA AREAS (SQ.FT.)

HT.	70 MPH								80 MPH								90 MPH							
	NO ICE				1/2" ICE (NOTE 7)				NO ICE				1/2" ICE (NOTE 7)				NO ICE				1/2" ICE (NOTE 7)			
	#25	#45	#55	#65	#25	#45	#55	#65	#25	#45	#55	#65	#25	#45	#55	#65	#25	#45	#55	#65	#25	#45	#55	#65
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	0.0	2.7	16.0	65.0	1.7	4.0	12.0	40.0	0.0	0.0	9.0	49.0
35'	3.6	8.7	21.9	61.2	0.0	4.7	22.2	76.4	1.4	4.7	14.5	44.0	0.0	0.0	12.4	53.4	1.9	9.4	32.2		0.0	5.7	37.7	
40'	1.5	5.1	15.0	48.8	0.0	0.0	8.0	59.1	1.4	8.0	34.1		0.0	2.5	39.0		4.0	24.1			0.0	25.0		
45'		2.3	11.4	39.0			5.5	45.7		5.9	26.2			0.0	28.8		2.2	17.7			0.0	17.2		
50'			6.5	29.3			0.0	33.5		1.5	19.7			0.0	19.1			14.5				8.0		
55'			4.0	24.4			0.0	25.0			14.5				11.4			7.7				2.6		
60'			0.8	18.4			0.0	16.0			9.4				4.1			3.3				0.0		
70'				8.7				1.9			1.3				0.0									
80'				0.9				0.0																

**NOTES:**

1. TOWER DESIGNS ARE IN ACCORDANCE WITH APPROVED NATIONAL STANDARD ANSI/EIA-222-F.
2. ALL TOWERS MUST HAVE "FIXED" BASES. PINNED BASES MUST NOT BE USED.
3. DESIGNS ASSUME TRANSMISSION LINES SYMMETRICALLY PLACED AS FOLLOWS:
  - #25 TOWER - ONE 5/8" LINE ON EACH FACE (TOTAL = 3).
  - #45 TOWER - ONE 7/8" AND ONE 1/2" LINE ON EACH FACE (TOTAL = 3 @ 7/8" & 3 @ 1/2").
  - #55 & #65 TOWERS - TWO 7/8" LINES ON EACH FACE (TOTAL = 6)
4. ANTENNAS AND MOUNTS ASSUMED SYMMETRICALLY PLACED AT TOWER TOP.
5. ALLOWABLE ANTENNA AREAS ASSUME ALL ROUND ANTENNA MEMBERS.
6. ALLOWABLE FLAT-PLATE ANTENNA AREAS, BASED ON EIA RS-222-C, MAY BE OBTAINED BY MULTIPLYING AREAS SHOWN BY 0.6.
7. FOR WIND CONDITIONS WITH ICE, THE ANTENNA AREAS SHOWN INCLUDE 1/2" RADIAL ICE. ANTENNA AREAS WITHOUT ICE MUST NOT EXCEED THE AREAS SHOWN FOR THE NO ICE CONDITION.
8. DO NOT INSTALL OR DISMANTLE TOWERS WITHIN FALLING DISTANCE OF ELECTRICAL AND/OR TELEPHONE LINES.
9. TOWER ERECTION AND DISMANTLING MUST BE DONE BY QUALIFIED AND EXPERIENCED PERSONNEL.
10. INSTALL WARNING PLATE (P/N ACWS) IN A HIGHLY VISIBLE LOCATION.
11. ALL ANTENNA INSTALLATIONS MUST BE GROUNDED IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
12. FOR FOUNDATION DETAILS SEE DRAWING B870725.

FILE NO. Standard-SSV				
REVISIONS				
REV.	DESCRIPTION	DWN	CHK	APP
2	REDRAWN INTO AUTOCAD FORMAT	JDA	JDM	HA
DATE: Jun/12/2007				
DWG REFERENCE				
 6718 WEST PLANK ROAD PEORIA, IL 61604 TOLL FREE 800-727-ROHN				
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ERECTION PROFILE 10 FT.-- 80 FT. 70, 80 & 90MPH TOWER				
DWN:	RWM	CHK'D:	AED	DATE: Sep/24/1987
ENG'R:	TWS			
DRAWING NO:	A871266			REV:
				2

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Junction