



# Amerite 55 Guyed Tower Specifications - 90 MPH



## 90 MPH Basic wind speed no ice

Tower height (ft.)	Part Number	Allowable projected area (Sq. ft.) top of tower [CaAc per EIA-222-F]	Base foundation drawing	Base horizontal reaction (Klbs.)	Base vertical reaction (Klbs.)	First guy height (ft.)	First guy radius (ft.)	First guy length (ft.)	First guy diameter (in.)	Second guy height (ft.)	Second guy radius (ft.)	Second guy length (ft.)	Second guy diameter (in.)	Third guy height (ft.)	Third guy radius (ft.)	Third guy length (ft.)	Third guy diameter (in.)	Fourth guy height (ft.)	Fourth guy radius (ft.)	Fourth guy length (ft.)	Fourth guy diameter (in.)	Fifth guy height (ft.)	Fifth guy radius (ft.)	Fifth guy length (ft.)	Fifth guy diameter (in.)
100	AME 55 10B	49.8	1306	0	10	32.7	70.0	76.3	3/16	62.6	70.0	93.2	1/4	95.1	70.0	117.6	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
110	AME 55 11B	46.75	1306	0	10	35.5	77.0	84.0	3/16	71.1	77.0	104.2	1/4	105.0	77.0	129.7	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
120	AME 55 12B	45.5	1306	0	10	38.2	84.0	91.5	3/16	76.6	84.0	113.0	1/4	115.0	84.0	141.9	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
130	AME 55 13B	45	1306	0	11	42.7	91.0	99.8	3/16	82.4	91.0	122.2	1/4	124.9	91.0	154.0	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
140	AME 55 14B	44.25	1306	0	12	34.1	98.0	103.0	3/16	100.9	98.0	140.1	1/4	134.8	98.0	188.2	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
150	AME 55 15B	43.5	1306	0	12	35.5	105.0	110.0	3/16	72.5	105.0	127.0	3/16	107.7	105.0	149.9	1/4	144.8	105.0	178.4	5/16	n/a	n/a	n/a	n/a
160	AME 55 16B	42.5	1306	0	13	38.5	112.0	117.7	3/16	78.2	112.0	135.8	3/16	116.3	112.0	160.9	1/4	154.7	112.0	190.5	5/16	n/a	n/a	n/a	n/a
170	AME 55 17B	42	1306	0	13	41.9	119.0	125.3	3/16	82.4	119.0	144.1	3/16	123.5	119.0	171.0	1/4	164.6	119.0	202.8	5/16	n/a	n/a	n/a	n/a
180	AME 55 18B	41.5	1306	0	14	36.8	126.0	130.5	3/16	71.7	126.0	144.0	3/16	106.4	126.0	164.3	3/16	141.3	126.0	188.3	1/4	174.6	126.0	214.8	5/16
190	AME 55 19B	41	1306	0	15	36.8	133.0	137.3	3/16	73.9	133.0	151.4	3/16	111.5	133.0	172.5	3/16	147.8	133.0	198.0	1/4	184.5	133.0	227.0	5/16
200	AME 55 20B	40.5	1306	0	15	41.9	140.0	145.3	3/16	78.2	140.0	159.5	3/16	116.3	140.0	181.4	3/16	156.1	140.0	209.1	1/4	194.5	140.0	239.1	5/16
210	AME 55 21B	40	1306	0	16	41.9	147.0	151.9	3/16	82.4	147.0	167.8	3/16	123.5	147.0	191.4	3/16	164.6	147.0	220.3	1/4	204.4	147.0	251.3	5/16
220	AME 55 22B	39.5	1306	0	17	35.5	154.0	157.4	3/16	72.5	154.0	169.5	3/16	112.2	154.0	189.9	3/16	144.8	154.0	210.8	3/16	181.0	154.0	236.7	1/4
230	AME 55 23B	39	1306	0	18	35.5	161.0	164.0	3/16	72.5	161.0	175.8	3/16	111.5	161.0	194.8	3/16	151.2	161.0	219.9	3/16	187.5	161.0	246.4	1/4
240	AME 55 24B	38.75	1306	0	20	32.7	90.0	95.0	3/16	66.6	90.0	111.3	3/16	101.5	90.0	134.9	3/16	133.5	168.0	214.0	3/16	167.6	168.0	236.8	3/16
250	AME 55 25B	38.5	1306	0	21	35.5	90.0	96.0	3/16	71.7	90.0	114.0	3/16	105.0	90.0	137.8	3/16	141.3	175.0	223.9	3/16	174.6	175.0	246.7	3/16
260	AME 55 26B	38	1306	0	22	38.5	90.0	97.0	3/16	75.5	90.0	116.6	3/16	111.5	90.0	142.3	3/16	147.8	182.0	233.7	3/16	183.2	182.0	257.7	3/16
270	AME 55 27B	37.75	1306	0	23	34.1	90.0	95.5	3/16	66.6	90.0	111.3	3/16	101.5	90.0	134.8	3/16	133.5	189.0	230.8	3/16	166.0	189.0	251.0	3/16
280	AME 55 28B	37	1306	0	24	35.5	90.0	96.0	3/16	71.7	90.0	114.0	3/16	105.0	90.0	137.8	3/16	141.3	196.0	240.7	3/16	173.2	196.0	261.0	3/16
290	AME 55 29B	35.75	1306	0	25	38.5	90.0	97.0	3/16	75.5	90.0	116.7	3/16	111.5	90.0	142.3	3/16	144.8	203.0	248.8	3/16	181.0	203.0	271.0	3/16
300	AME 55 30B	34	1306	0	25	41.9	90.0	98.3	3/16	81.6	90.0	120.5	3/16	115.0	90.0	145.5	3/16	151.2	210.0	257.8	3/16	187.5	210.0	280.8	3/16

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Tower height (ft.)	Part Number	Allowable projected area (Sq. ft.) top of tower [CaAc per EIA-222-F]	Sixth guy height (ft.)	Sixth guy radius (ft.)	Sixth guy length (ft.)	Sixth guy diameter (in.)	Seventh guy height (ft.)	Seventh guy radius (ft.)	Seventh guy length (ft.)	Seventh guy diameter (in.)	Eighth guy height (ft.)	Eighth guy radius (ft.)	Eighth guy length (ft.)	Eighth guy diameter (in.)	Inner anchor block drawing 1306	Inner anchor horizontal reaction (Klbs.)	Inner anchor vertical reaction (Klbs.)	Inner anchor rod angle	Inner anchor rod	Outer anchor block drawing 1306	Outer anchor horizontal reaction (Klbs.)	Outer anchor vertical reaction (Klbs.)	Outer anchor rod angle	Outer anchor rod	
100	AME 55 10B	49.8	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4	5			51.3	n/a	n/a	n/a	n/a	n/a	n/a
110	AME 55 11B	46.75	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4	5			51.3	n/a	n/a	n/a	n/a	n/a	n/a
120	AME 55 12B	45.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5	5			45.0	n/a	n/a	n/a	n/a	n/a	n/a
130	AME 55 13B	45	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5	5			45.0	n/a	n/a	n/a	n/a	n/a	n/a
140	AME 55 14B	44.25	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6			45.0	n/a	n/a	n/a	n/a	n/a	n/a
150	AME 55 15B	43.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6			45.0	n/a	n/a	n/a	n/a	n/a	n/a
160	AME 55 16B	42.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6			45.0	n/a	n/a	n/a	n/a	n/a	n/a
170	AME 55 17B	42	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	6	6			45.0	n/a	n/a	n/a	n/a	n/a	n/a
180	AME 55 18B	41.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7	7			45.0	n/a	n/a	n/a	n/a	n/a	n/a
190	AME 55 19B	41	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7	7			45.0	n/a	n/a	n/a	n/a	n/a	n/a
200	AME 55 20B	40.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	8	7			41.2	n/a	n/a	n/a	n/a	n/a	n/a
210	AME 55 21B	40	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	8	8			45.0	n/a	n/a	n/a	n/a	n/a	n/a
220	AME 55 22B	39.5	214.3	154.0	263.5	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9	8			41.6	n/a	n/a	n/a	n/a	n/a	n/a
230	AME 55 23B	39	224.3	161.0	275.8	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	9	9			45.0	n/a	n/a	n/a	n/a	n/a	n/a
240	AME 55 24B	38.75	201.7	168.0	262.0	1/4	234.2	168.0	287.8	5/16	n/a	n/a	n/a	n/a	3	2			33.7	n/a	7	8		48.8	
250	AME 55 25B	38.5	210.8	175.0	273.0	1/4	244.1	175.0	299.9	5/16	n/a	n/a	n/a	n/a	3	2			33.7	n/a	7	8		48.8	
260	AME 55 26B	38	220.8	182.0	285.1	1/4	254.1	182.0	312.0	5/16	n/a	n/a	n/a	n/a	3	2			33.7	n/a	8	9		48.4	
270	AME 55 27B	37.75	200.9	189.0	274.9	3/16	231.5	189.0	298.3	1/4	264.0	189.0	324.3	5/16	3	2			33.7	n/a	9	9		45.0	
280	AME 55 28B	37	207.4	196.0	284.7	3/16	241.4	196.0	310.5	1/4	274.0	196.0	338.4	5/16	3	2			33.7	n/a	9	10		48.0	
290	AME 55 29B	35.75	214.3	203.0	294.7	3/16	250.6	203.0	321.5	1/4	283.9	203.0	348.5	5/16	3	2			33.7	n/a	9	10		48.0	
300	AME 55 30B	34	222.9	210.0	305.8	3/16	260.5	210.0	333.7	1/4	293.8	210.0	360.8	5/16	3	2			33.7	n/a	9	10		48.0	