Amerite 45 Guyed Tower Specifications

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 (lbs.)	Base vertical reaction (lbs.)	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.)	Anchor drawing 1306	Anchor horizontal reaction (lbs.)	Anchor vertical reaction (lbs.)	Anchor rod drawing	Anchor rod angle
40	AME 45 4B	67	1306	54	6527	34.5	28.0	44.0	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4G	2795	3502	1315	51.4
50	AME 45 5B	64	1306	100	6882	44.4	35.0	56.0	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4J	2854	3655	1315	52.0
60	AME 45 6B	61	1306	73	7344	24.6	42.0	48.0	3/16	54.4	42.0	68.2	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4J	3283	3869	1315	49.7
70	AME 45 7B	59	1306	88	7694	28.5	49.0	56.0	3/16	64.3	49.0	80.4	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4H	3407	4025	1315	49.8
80	AME 45 8B	57	1306	127	8046	34.5	56.0	65.1	3/16	74.3	56.0	92.5	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4H	3527	4179	1315	49.8
90	AME 45 9B	55.5	1306	146	8429	38.4	63.0	73.1	3/16	84.2	63.0	104.7	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4H	3692	4347	1315	49.7
100	AME 45 10B	54	1306	145	9292	31.9	70.0	76.2	3/16	61.7	70.0	92.7	3/16	94.1	70.0	116.8	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5A	4170	4697	1315	48.4
110	AME 45 11B	53	1306	148	9666	34.5	77.0	83.6	3/16	66.9	77.0	101.5	3/16	104.1	77.0	129.0	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5A	4360	4878	1315	48.2
120	AME 45 12B	51.5	1306	161	10002	38.4	84.0	91.6	3/16	78.2	84.0	114.2	3/16	114.0	84.0	141.1	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5A	4521	5045	1315	48.1
130	AME 45 13B	50	1306	177	10323	41.8	91.0	99.4	3/16	82.9	91.0	122.5	3/16	123.9	91.0	153.3	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5A	4700	5198	1315	47.9
140	AME 45 14B	50	1306	150	11421	34.5	98.0	103.1	3/16	75.6	98.0	123.1	3/16	105.4	98.0	143.4	3/16	133.9	98.0	165.5	5/16	n/a	n/a	n/a	n/a	5C	5403	5632	1315	46.2
150	AME 45 15B	49	1306	135	11778	34.5	105.0	109.8	3/16	75.6	105.0	128.7	3/16	115.3	105.0	155.3	3/16	143.8	105.0	177.7	5/16	n/a	n/a	n/a	n/a	5C	5645	5811	1315	45.8
160	AME 45 16B	48	1306	183	12205	41.8	112.0	118.8	3/16	81.6	112.0	137.8	3/16	121.3	112.0	164.5	3/16	153.8	112.0	189.7	5/16	n/a	n/a	n/a	n/a	5C	5844	6025	1315	45.9
170	AME 45 17B	47	1306	152	13279	35.8	119.0	123.5	3/16	71.6	119.0	138.2	3/16	105.4	119.0	158.4	3/16	139.1	119.0	181.5	3/16	163.7	119.0	201.8	5/16	5D	6580	6561	1281	44.9
180	AME 45 18B	47	1306	150	13706	25.8	126.0	130.2	3/16	71.6	126.0	144.2	3/16	105.4	126.0	163.6	3/16	141.2	126.0	188.7	3/16	173.6	126.0	214.1	5/16	5E	6861	6753	1281	44.5
190	AME 45 19B	46	1306	157	14146	35.8	133.0	137.7	3/16	75.6	133.0	152.3	3/16	114.0	133.0	174.5	3/16	152.4	133.0	201.8	3/16	183.6	133.0	226.2	5/16	5E	7113	6986	1281	44.5
200	AME 45 20B	44	1306	147	14424	38.5	140.0	144.4	3/16	78.2	140.0	159.6	3/16	117.9	140.0	182.5	3/16	157.7	140.0	210.3	3/16	193.5	140.0	238.4	5/16	5F	7336	7114	1281	44.1

110 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 (lbs.)	Base vertical reaction (lbs.)	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.)	Anchor drawing 1306	Anchor horizontal reaction (lbs.)	Anchor vertical reaction (lbs.)	Anchor rod drawing	Anchor rod angle
40	AME 45 4C	44	1306	99	6918	34.5	28.0	44.0	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4J	2970	3712	1315	51.3
50	AME 45 5C	42	1306	237	7397	44.4	35.0	56.0	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4J	3081	3934	1315	51.9
60	AME 45 6C	40	1306	108	7964	24.6	42.0	48.0	3/16	54.4	42.0	68.2	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	4H	3663	4209	1315	49.0
70	AME 45 7C	39	1306	149	8507	28.5	49.0	56.0	3/16	64.3	49.0	80.4	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5A	3898	4466	1315	48.9
80	AME 45 8C	37.5	1306	202	9015	34.5	56.0	65.1	3/16	74.3	56.0	92.5	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5A	4107	4698	1315	48.8
90	AME 45 9C	36.5	1306	222	9587	38.4	63.0	73.1	3/16	84.2	63.0	104.7	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5A	4382	4956	1315	48.5
100	AME 45 10C	35.5	1306	202	10436	31.9	70.0	76.2	3/16	61.7	70.0	92.7	3/16	94.1	70.0	116.8	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5B	4945	5383	1315	47.4
110	AME 45 11C	34.5	1306	214	10964	34.5	77.0	83.6	3/16	66.9	77.0	101.5	3/16	104.1	77.0	129.0	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5B	5232	5633	1315	47.1
120	AME 45 12C	34	1306	223	11650	38.4	84.0	91.6	3/16	78.2	84.0	114.2	3/16	114.0	84.0	141.1	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5C	5562	5952	1315	46.9
130	AME 45 13C	31	1306	244	11922	41.8	91.0	99.4	3/16	82.9	91.0	122.5	3/16	123.9	91.0	153.3	5/16	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	5C	5754	6043	1315	46.4
140	AME 45 14C	32.5	1306	179	13388	34.5	98.0	103.1	3/16	75.6	98.0	123.1	3/16	105.4	98.0	143.4	3/16	133.9	98.0	165.5	5/16	n/a	n/a	n/a	n/a	5E	6736	6757	1281	45.1
150	AME 45 15C	30.5	1306	169	13799	34.5	105.0	109.8	3/16	75.6	105.0	128.7	3/16	115.3	105.0	155.3	3/16	143.8	105.0	177.7	5/16	n/a	n/a	n/a	n/a	5E	7032	6940	1281	44.6

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1/06
American Tower Company

www.amertower.com
Email: info@amertower.com
Ph: 419-347-1185
Fax 419-347-1654
PO Box 29
Shelby, OH 44875