

ANDREWS HIGH PERFORMANCE ANTENNAS

ELETRICAL SPECIFICATIONS

ANTENNA CODE: A-ANT-XXG-YY-C-A

XX: FREQUENCY (GHz); YY: Diameter (inches); C/W: (Clip mount (Single Pole))/Waveguide (Dual Pole)); A: Andrew's Antenna

Frequency Band, GHz	Dish Size (ft)	Mid Band Gain, dBi	Beam width, degrees	Front/Back, dB	ETSI 302 217 Class	FCC Part 101	Dragonwave Antenna PN*	Andrews Antenna PN
06GHz 5.925-7.125	4	35	2.9	61	R1 C3	Cat B2	A-ANT-06G-48-C-A	VHLP4-6W-DW
	6	39	1.8	65			A-ANT-06G-72-C-A	HPC-6W-DW
	8	41.9	1.4	66			A-ANT-06G-96-W-A	HP8-59
	10	43.6	1.1	69			A-ANT-06G-120-W-A	HP10-59
L6GHz 5.725-6.425	4	35	2.9	52			A-ANT-L6G-48-C-A	HP4-57W
	6	38.5	2	60			A-ANT-L6G-72-C-A	HP6-59
	8	41.5	1.4	66			A-ANT-L6G-96-W-A	HP8-59
	10	32.3	1.1	69			A-ANT-L6G-120-W-A	HP10-59
	12	45	0.9	71			A-ANT-L6G-144-W-A	HP12-59
	15	46.4	0.8	71			A-ANT-L6G-180-W-A	HP15-59
U6GHz 6.425-7.125	4	36	2.7	58			A-ANT-U6G-48-C-A	HP4-65
	6	39.8	1.7	64			A-ANT-U6G-72-C-A	HP6-65
	8	42.3	1.3	66			A-ANT-U6G-96-W-A	HP8-65
	10	43.9	1	70			A-ANT-U6G-120-W-A	HP10-65
	12	45.6	0.8	71			A-ANT-U6G-144-W-A	HP12-65
	15	47.1	0.7	71			A-ANT-U6G-180-W-A	HP15-65
7GHz 7.125 – 8.500	2	31.1	4.7	57	R1 C3	0	A-ANT-07G-24-C-A	VHLP2-7W
	2.5	N/A	N/A	N/A			A-ANT-07G-30-C-A	VHLP2.5-7W
	4	37.3	2.2	6	R1 C3	n/a	A-ANT-07G-48-C-A	VHLP4-7W
	6	40.8	1.3	67	R1 C3	n/a	A-ANT-07G-72-C-A	VHLP6-7W
	8	42.9	1.1	68			A-ANT-07G-96-W-A	HP8-71W
	10	44.8	0.9	70			A-ANT-07G-120-W-A	HP10-71W
	12	46.3	0.7	71			A-ANT-07G-144-W-A	HP12-71W
	15	48.3	0.6	71			A-ANT-07G-180-W-A	HP15-71W
8GHz 7.750-8.500	2	31.1	4.7	57	R1 C3	0	A-ANT-08G-24-C-A	VHLP2-7W
	2.5	N/A	N/A	N/A			A-ANT-08G-30-C-A	VHLP2.5-7W
	4	37.3	2.2	6	R1 C3	n/a	A-ANT-08G-48-C-A	VHLP4-7W
	6	40.8	1.3	67	R1 C3	n/a	A-ANT-08G-72-C-A	VHLP6-7W
	8	42.9	1.1	68			A-ANT-08G-96-W-A	HP8-71W
	10	44.8	0.9	70			A-ANT-08G-120-W-A	HP10-71W

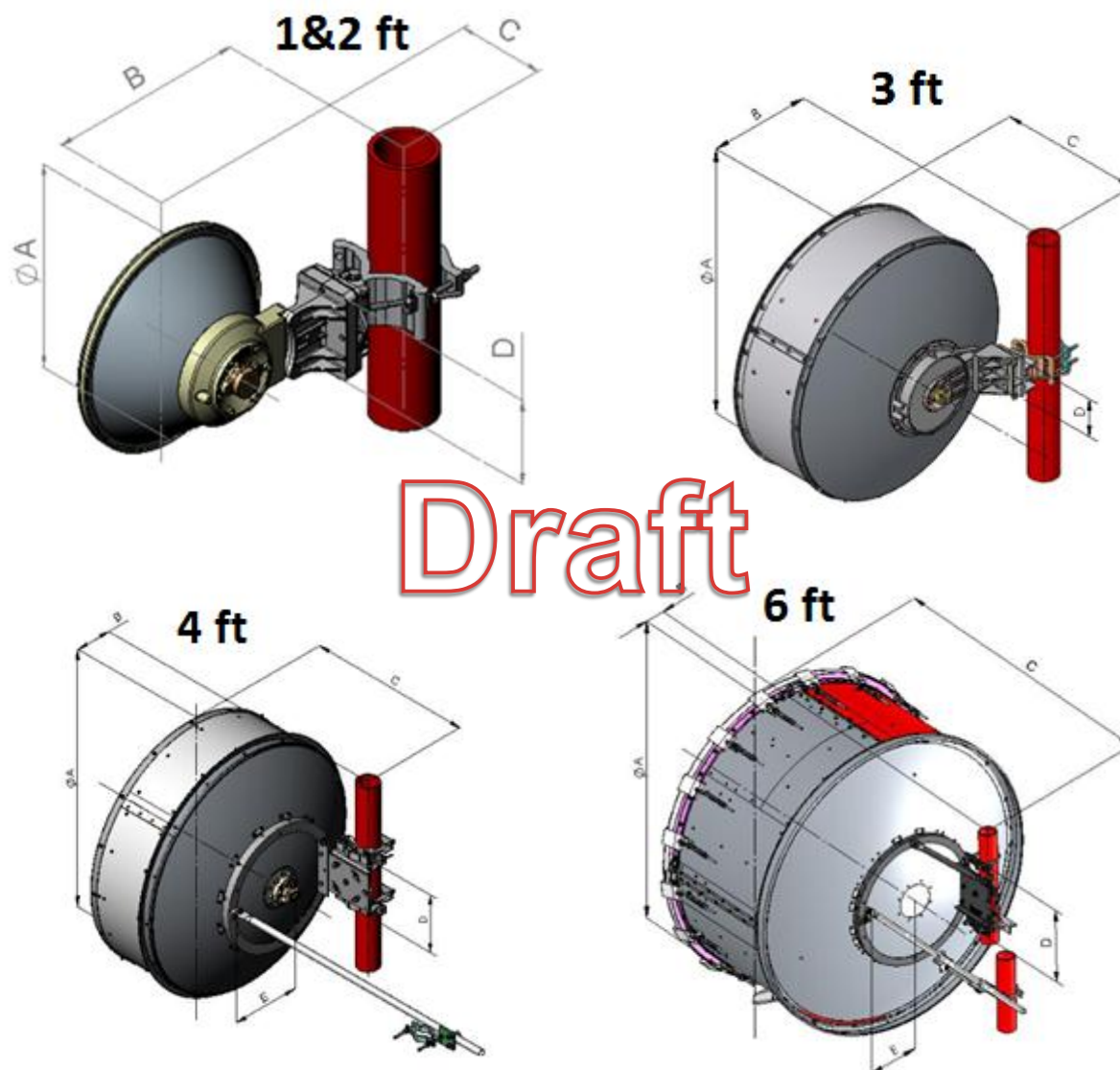
8GHz 7.750-8.500	12	46.3	0.7	71			A-ANT-08G-144-W-A	HP12-71W
	15	48.3	0.6	71			A-ANT-08G-180-W-A	HP15-71W
10.5GHz 10.5-10.7	2	N/A	N/A	N/A			A-ANT-10.5G-2C-A	VHLP2-11W-DW1
	3	N/A	N/A	N/A			A-ANT-10.5G-3C-A	VHLP3-11W-DW1
11GHz 10.7-11.7	2	34.5	3.3	60			A-ANT-11G-24-C-A	VHLP2-11-DW1
	2.5	37.4	2.1	59			A-ANT-11G-30-C-A	VHLP800-11DW
	4	40.7	1.5	66			A-ANT-11G-48-C-A	VHLP4-11-DW1B
	6	43.8	1.1	70			A-ANT-11G-72-C-A	VHLP6-11-DW1B
12GHz 12.2-12.7	2	N/A	N/A	N/A			A-ANT-12G-24-C-A	VHLP2-13DW
	2.5	N/A	N/A	N/A			A-ANT-12G-30-C-A	VHLP2.5-13DW
13GHz 12.7-13.25	1	30.9	4.7	5			A-ANT-13G-12-C-A	VHLP1-13DW
	2	36	2.7	6			A-ANT-13G-24-C-A	VHLP2-13DW
	2.5	N/A	N/A	N/A			A-ANT-13G-30-C-A	VHLP2.5-13DW
	4	42	1.3	68			A-ANT-13G-48-C-A	VHLP4-13DW
	6	45.2	0.9	72			A-ANT-13G-72-C-A	VHLP6-13DW
15GHz 14.250-15.350	1	32.1	4.3	54			A-ANT-15G-12-C-A	VHLP1-15DW1
	2	36.8	2.5	54			A-ANT-15G-24-C-A	VHLP2-15DW1
	2.5	N/A	N/A	N/A			A-ANT-15G-30-C-A	VHLP2.5-15DW
	4	43	1.2	71			A-ANT-15G-48-C-A	VHLP4-15-DW1B
	6	46.2	0.8	74			A-ANT-15G-72-C-A	VHLP6-15DW1B
18GHz 17.7-19.7	1	34.2	3.3	57	R2 C2	Cat B2	A-ANT-18G-12-C-A	VHLP1-18
	2	38.9	2.1	66			A-ANT-18G-24-C-A	VHLP2-18-DW1
	2.5	N/A	N/A	N/A			A-ANT-18G-30-C-A	VHLP2.5-18
	4	44.7	0.9	72			A-ANT-18G-48-C-A	VHLP4-18-DW1B
	6	47.8	0.7	7			A-ANT-18G-72-C-A	VHLP6-18-DW1B
23GHz 21.200-23.600	0.8	31.1	4.5	52	R3 C2	Cat B2	A-ANT-23G-0.8C-A	VHLP200-23
	1	35.3	3	62			A-ANT-23G-12-C-A	VHLP1-23-DW1
	2	40.5	1.7	65			A-ANT-23G-24-C-A	VHLP2-23-DW1
	2.5	N/A	N/A	N/A			A-ANT-23G-30-C-A	VHLP2.5-23
	4	46.7	0.75	74			A-ANT-23G-48-C-A	VHLP4-23-DW1B
	6	49.3	0.5	79	R3 C3	Cat A	A-ANT-23G-72-C-A	VHLP6-23-DW
26GHz 24.250-26.500	0.6	32.4	3.8	58			A-ANT-26G-0.6C-A	WM18-24-DW2
	1	36.6	2.5	63	R4 C3	n/a	A-ANT-26G-12-C-A	VHLP1-26
	2	41.6	1.5	68	R4 C3	Cat A	A-ANT-26G-24-C-A	VHLP2-26
	2.5	N/A	N/A	N/A			A-ANT-26G-30-C-A	VHLP2.5-26
	4	47.4	0.6	75	R4 C3	Cat A	A-ANT-26G-48-C-A	VHLP4-26
28GHz 27.500-29.500	0.6	N/A	N/A	N/A			A-ANT-28G-0.6C-A	WM18-28-DW2
	1	38.1	2.2	64	R4 C3	n/a	A-ANT-28G-12-C-A	VHLP1-28
	2	42.6	1.2	68	R4 C3	n/a	A-ANT-28G-24-C-A	VHLP2-28

31GHz 31.000-33.400	1	N/A	N/A	N/A			A-ANT-31G-12-A	VHLP1-32DW
	2	N/A	N/A	N/A			A-ANT-31G-24-A	VHLP2-32DW
32GHz 31.800-33.400	1	38.9	1.8	58			A-ANT-32G-12-A	VHLP1-32DW
	2	43.5	1	61			A-ANT-32G-24-A	VHLP2-32DW
38GHz 37.000-40.000	0.6	34.5	2.6	60	R5 C2(H) C3(V)	n/a	A-ANT-38G-0.6A	VHLP200-38
	1	40.1	1.6	6	R5 C3B	Cat A	A-ANT-38G-12-A	VHLP1-38
	2	45.2	0.9	64	R5 C3B	Cat A	A-ANT-38G-24-A	VHLP2-38

Draft

Actual antenna appearances may differ from shown.

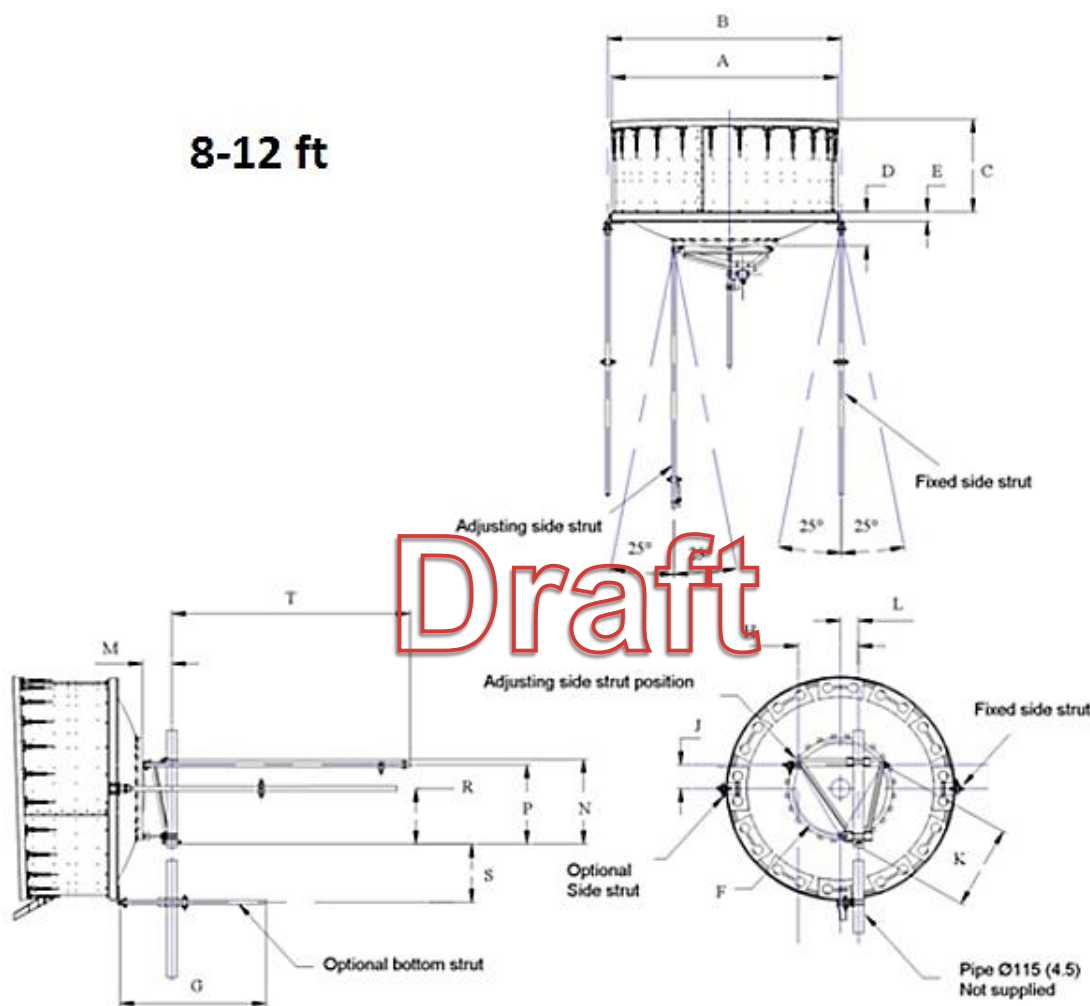
ANDREW ANTENNA DIMENSIONS



Diameter = inches (mm)

Antenna Diameter	A	B	C	D	E
1 ft (30 cm)	15.3(388)	147(372)	6.5(166)	6.3(160)	
2 ft (60 cm)	25.9 (658)	14.6 (372)	10.2(259)	6.4(162)	
3 ft (90 cm)	39.4(1000)	17.5(445)	23.1(586)	6.3(160)	
4 ft (120 cm)	49.3(1251)	17.5(445)	27.4(697)	6.3(160)	11.9(303)
6 ft (180 cm)	73.6(1871)	16.3(415)	36.5(927)	19.3(490)	11.6(295)

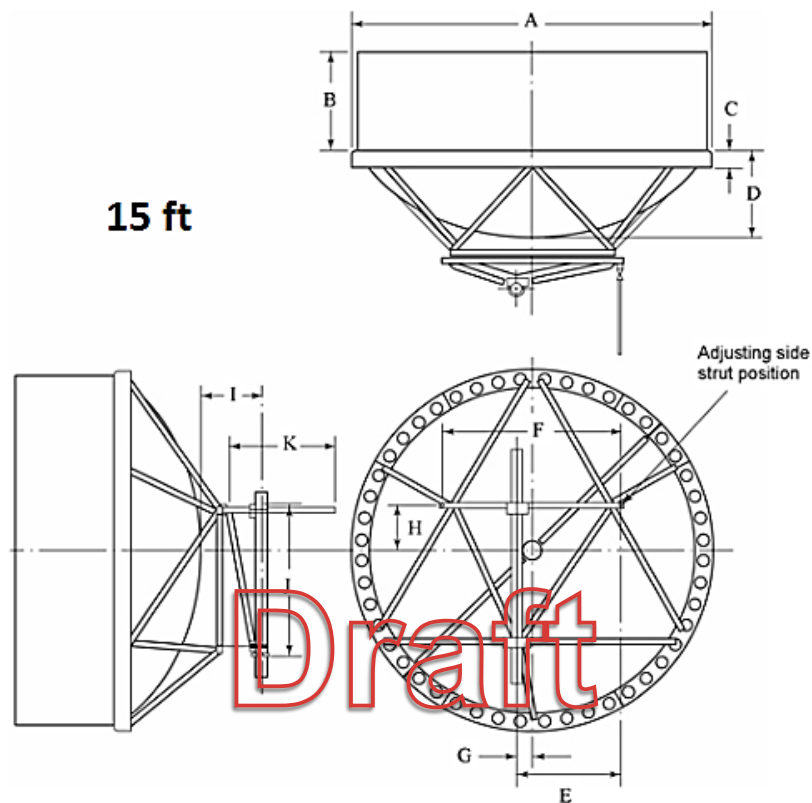
8-12 ft



Antenna Dimensions (8-12 ft)

All dimensions in mm (inches)

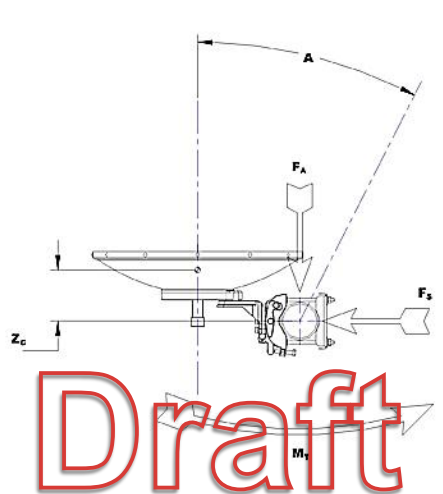
	8 ft	10 ft	12 ft		8 ft	10 ft	12 ft
A	2555(100.5)	3160(124.5)	3775(148.5)	K	950(37.5)	950(37.5)	1205(47.5)
B	2705(106.5)	3315(130.5)	3915(154.5)	L	200(8)	200(8)	215(8.5)
C	1060(41.75)	800(31.5)	1090(43)	M	330(13)	330(13)	330(13)
D	395(15.5)	615(24.25)	685(27)	N	950(37.5)	950(37.5)	1225(48.25)
E	125(5.0)	140(5.5)	145(5.75)	P	895(35.25)	895(35.25)	1145(45)
F	1100(43.25)	1100(43.25)	1430(56.25)	R	625(24.5)	625(24.5)	790(31)
G	1525(60)	1525(60)	1525(60)	S	695(27.25)	1000(39.25)	1140(44.75)
H	680(26.75)	680(26.75)	635(32.75)	T	3050(120)	3050(120)	3050(120)
J	275(10.75)	275(10.75)	355(14)				



ANTENNA DIMENSIONS All dimensions in mm (inches)			
A	4685 (184.5)	G	200 (8)
B	1245 (49.0)	H	595 (23.5)
C	135 (5.3)	I	595 (23.5)
D	865 (34.0)	J	1930 (76.0)
E	1310 (51.5)	K	1240 (108)
F	2210 (87)		

Adjusted Ranges	1-2ft	3-6ft	8-12ft	15ft
Fine Azimuth +/-	15°	15°	5°	5°
Fine Elevation +/-	15°	20°	5°	3.6°

ANDREW HP WIND FORCES



Wind Forces At Wind Velocity Survival Rating	
Axial Force (FA)	7128 N 1602 lbf
Side Force (FS)	3531 N 794 lbf
Twisting Moment (MT)	3197 N•m
Weight with 1/2 in (12 mm) Radial Ice	205 kg 452 lb
Zcg with 1/2 in (12 mm) Radial Ice	450 mm 18 in
Zcg without Ice	425 mm 17 in

ANDREW ANTENNA WEIGHTS

Antenna Diameter	Shipping Weight (kg)	Mounting Weight (kg)
1 ft (30 cm)		
2 ft (60 cm)		
3 ft (90 cm)		
4 ft (120 cm)		
6 ft (180 cm)		
8 ft (240 cm)		
10 ft (305 cm)		
12 ft (366 cm)		
15 ft (457 cm)		