

ANDREWS HIGH PERFORMANCE ANTENNAS

ELETRICAL SPECIFICATIONS

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

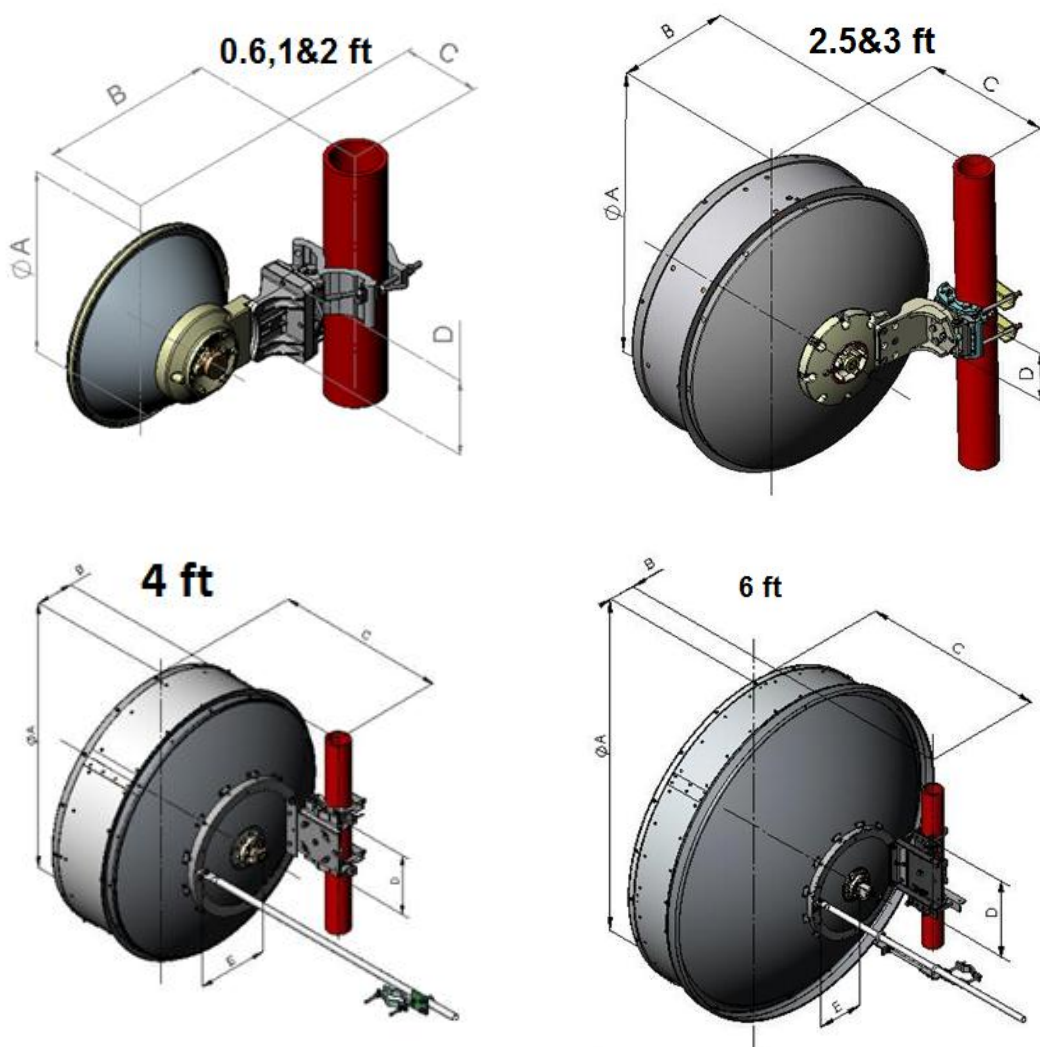
XX: FREQUENCY (GHz); YY: Diameter (inches); C/W: (Clip mount/Waveguide); A: Andrew's Antenna

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	Class 3	Cat B2	A-ANT-06G-48-C-A	VHLP4-6W
	6	39	1.8	65	N/A	N/A	A-ANT-06G-72-C-A	HP6-59W
	8	41.9	1.4	66	Class 2	Cat A	A-ANT-06G-96-W-A	HP8-59
	10	43.6	1.1	69	Class 2	Cat A	A-ANT-06G-120-W-A	HP10-59
L6GHz 5.725-6.425	4	35	2.9	52	Class 1	N/A	A-ANT-L6G-48-C-A	HP4-57W
	6	38.5	2	60	Class 2	Cat A	A-ANT-L6G-72-C-A	HP6-59
	8	41.5	1.4	66	Class 2	Cat A	A-ANT-L6G-96-W-A	HP8-59
	10	32.3	1.1	69	Class 2	Cat A	A-ANT-L6G-120-W-A	HP10-59
	12	45	0.9	71	Class 2	Cat A	A-ANT-L6G-144-W-A	HP12-59
	15	46.4	0.8	71	Class 2	Cat A	A-ANT-L6G-180-W-A	HP15-59
U6GHz 6.425-7.125	4	36	2.7	58	Class 2	N/A	A-ANT-U6G-48-C-A	HP4-65
	6	39.8	1.7	64	Class 2	Cat A	A-ANT-U6G-72-C-A	HP6-65
	8	42.3	1.3	66	Class 2	Cat A	A-ANT-U6G-96-W-A	HP8-65
	10	43.9	1	70	Class 2	Cat A	A-ANT-U6G-120-W-A	HP10-65
	12	45.6	0.8	71	Class 2	Cat A	A-ANT-U6G-144-W-A	HP12-65
	15	47.1	0.7	71	Class 2	Cat A	A-ANT-U6G-180-W-A	HP15-65
7GHz 7.125 – 8.500	2	31.1	4.7	57	Class 3	N/A	A-ANT-07G-24-C-A	VHLP2-7W
	4	37.3	2.2	6	Class 3	N/A	A-ANT-07G-48-C-A	VHLP4-7W
	6	40.8	1.3	67	Class 3	N/A	A-ANT-07G-72-C-A	VHLP6-7W
	8	42.9	1.1	68	Class 2	N/A	A-ANT-07G-96-W-A	HP8-71W
	10	44.8	0.9	70	Class 2	N/A	A-ANT-07G-120-W-A	HP10-71W
	12	46.3	0.7	71	Class 2	N/A	A-ANT-07G-144-W-A	HP12-71W
	15	48.3	0.6	71	Class 2	N/A	A-ANT-07G-180-W-A	HP15-71W
8GHz 7.750-8.500	2	31.1	4.7	57	Class 3	N/A	A-ANT-08G-24-C-A	VHLP2-7W
	4	37.3	2.2	6	Class 3	N/A	A-ANT-08G-48-C-A	VHLP4-7W
	6	40.8	1.3	67	Class 3	N/A	A-ANT-08G-72-C-A	VHLP6-7W
	8	42.9	1.1	68	Class 2	N/A	A-ANT-08G-96-W-A	HP8-71W
	10	44.8	0.9	70	Class 2	N/A	A-ANT-08G-120-W-A	HP10-71W
	12	46.3	0.7	71	Class 2	N/A	A-ANT-08G-144-W-A	HP12-71W
	15	48.3	0.6	71	Class 2	N/A	A-ANT-08G-180-W-A	HP15-71W

10.5GHz 10.5-10.7	2	N/A	N/A	N/A	Class 3	Cat A	A-ANT-10.5G-2C-A	VHLP2-11W
	3	N/A	N/A	N/A	Class 3	Cat A	A-ANT-10.5G-3C-A	VHLP3-11W
11GHz 10.7-11.7	2	34.5	3.3	60	Class 3	Cat B	A-ANT-11G-24-C-A	VHLP2-11W
	2.5	37.4	2.1	59	Class 2	Cat A	A-ANT-11G-30-C-A	VHLP800-11
	4	40.7	1.5	66	Class 3	Cat A	A-ANT-11G-48-C-A	VHLP4-11W
	6	43.8	1.1	70	Class 3	Cat A	A-ANT-11G-72-C-A	VHLP6-11
13GHz 12.7-13.25	1	30.9	4.7	5	Class 3	N/A	A-ANT-13G-12-C-A	VHLP1-13
	2	36	2.7	6	Class 3	N/A	A-ANT-13G-24-C-A	VHLP2-13
	4	42	1.3	68	Class 3	Cat B	A-ANT-13G-48-C-A	VHLP4-13
	6	45.2	0.9	72	Class 3	Cat A	A-ANT-13G-72-C-A	VHLP6-13
15GHz 14.250-15.350	1	32.1	4.3	54	Class 2	N/A	A-ANT-15G-12-C-A	VHLP1-15
	2	36.8	2.5	64	Class 3	N/A	A-ANT-15G-24-C-A	VHLP2-15
	4	43	1.2	71	Class 3	N/A	A-ANT-15G-48-C-A	VHLP4-15
	6	46.2	0.8	74	Class 3	N/A	A-ANT-15G-72-C-A	VHLP6-15
18GHz 17.7-19.7	1	34.2	3.3	57	Class 2	Cat B2	A-ANT-18G-12-C-A	VHLP1-18
	2	38.9	2.1	66	Class 3	Cat A	A-ANT-18G-24-C-A	VHLP2-18
	4	44.7	0.9	72	Class 3	Cat A	A-ANT-18G-48-C-A	VHLP4-18
	6	47.8	0.7	7	Class 3	Cat A	A-ANT-18G-72-C-A	VHLP6-18
23GHz 21.200-23.600	0.8	31.1	4.5	52	Class 2	Cat B2	A-ANT-23G-0.8C-A	VHLP200-23
	1	35.3	3	62	Class 3	Cat A	A-ANT-23G-12-C-A	VHLP1-23
	2	40.5	1.7	65	Class 3	Cat A	A-ANT-23G-24-C-A	VHLP2-23
	4	46.7	0.75	74	Class 3	Cat A	A-ANT-23G-48-C-A	VHLP4-23
	6	49.3	0.5	79	Class 3	Cat A	A-ANT-23G-72-C-A	VHLP6-23
26GHz 24.250-26.500	0.6	32.4	3.8	58	N/A	N/A	A-ANT-26G-0.6C-A	VHLP200-26
	1	36.6	2.5	63	Class 3	N/A	A-ANT-26G-12-C-A	VHLP1-26
	2	41.6	1.5	68	Class 3	Cat A	A-ANT-26G-24-C-A	VHLP2-26
	4	47.4	0.6	75	Class 3	Cat A	A-ANT-26G-48-C-A	VHLP4-26
28GHz 27.500-29.500	1	38.1	2.2	64	Class 3	N/A	A-ANT-28G-12-C-A	VHLP1-28
	2	42.6	1.2	68	Class 2	N/A	A-ANT-28G-24-C-A	VHLP2-28
31GHz 31.000-33.400	1	N/A	N/A	N/A	Class 3	N/A	A-ANT-31G-12-A	VHLP1-32
	2	N/A	N/A	N/A	Class 3	N/A	A-ANT-31G-24-A	VHLP2-32
32GHz 31.800-33.400	1	38.9	1.8	58	Class 3	N/A	A-ANT-32G-12-A	VHLP1-32
	2	43.5	1	61	Class 3	N/A	A-ANT-32G-24-A	VHLP2-32
38GHz 37.000-40.000	0.6	34.5	2.6	60	Class 2(H) Class 3(V)	N/A	A-ANT-38G-0.6A	VHLP200-38
	1	40.1	1.6	6	Class 5	Cat A	A-ANT-38G-12-A	VHLP1-38
	2	45.2	0.9	64	Class 5	Cat A	A-ANT-38G-24-A	VHLP2-38

ANDREW ANTENNA DIMENSIONS

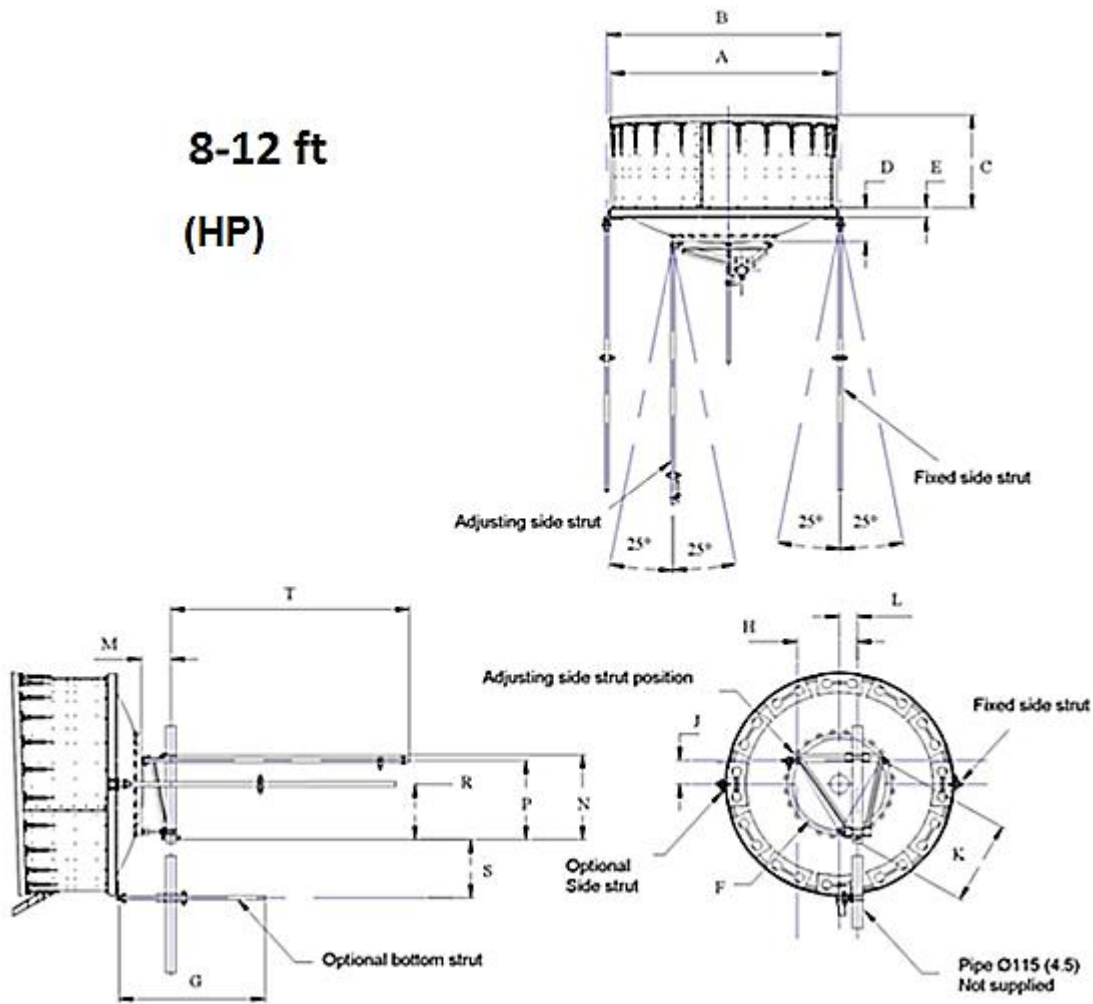
Actual antenna appearances may differ from shown.



Diameter = inches (mm)

Antenna Diameter	A	B	C	D	E
0.6 ft (18 cm)	9.0(230)	14.2(360)	4.6(118)	6.0(150)	
1 ft (30 cm)	15.3(388)	14.7(372)	6.5(166)	6.3(160)	
2 ft (60 cm)	25.9 (658)	14.6(372)	10.2(259)	6.4(162)	
2.5 ft (76 cm)	33.6(853.9)	16.5(418.0)	19.9(483.3)	5.9(150)	
3 ft (90 cm)	39.4(1000)	17.5(445)	23.1(586)	6.3(160)	
4 ft (120 cm) (VHLP)	49.3(1251)	17.5(445)	27.4(697)	6.3(160)	11.9(303)
4 ft (120 cm) (HP)	50.8(1291)	15.0(382)	29.5(751)	12.2(310)	11.6(295)
6 ft (180 cm) (VHLP)	73.6(1871)	16.3(415)	36.5(927)	19.3(490)	11.6(295)
6 ft (180 cm) (HP)	77.5(1970)	17.1(435)	53.3(1355)	19.3(490)	11.7(296)

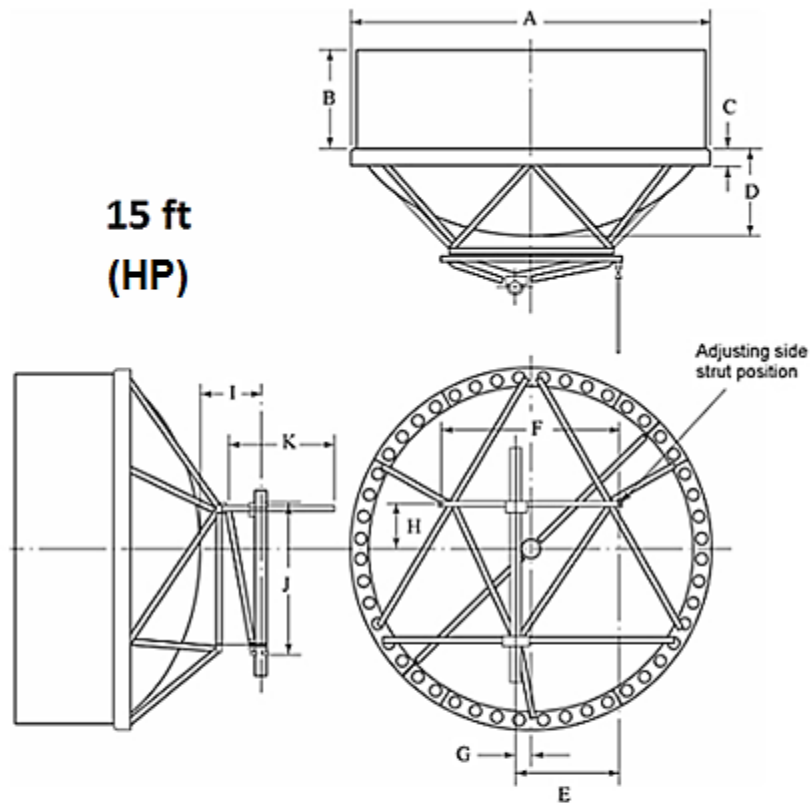
8-12 ft (HP)



Antenna Dimensions (8-12 ft)

All dimensions in mm (inches)

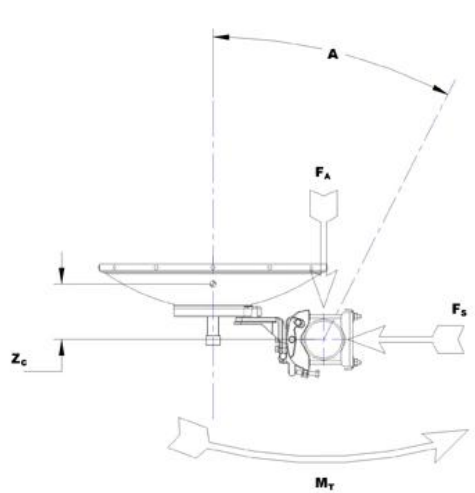
	8 ft	10 ft	12 ft		8 ft	10 ft	12 ft
A	2555(100.5)	3160(124.5)	3775(148.5)	K	950(37.5)	950(37.5)	1205(47.5)
B	2705(106.5)	3315(130.5)	3915(154.5)	L	200(8)	200(8)	215(8.5)
C	1060(41.75)	800(31.5)	1090(43)	M	330(13)	330(13)	330(13)
D	395(15.5)	615(24.25)	685(27)	N	950(37.5)	950(37.5)	1225(48.25)
E	125(5.0)	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	0.6ft&2.5ft	1&2ft	3-6ft	8-12ft	15ft
Fine Azimuth +/-	10°	15°	15°	5°	5°
Fine Elevation +/-	25°	15°	20°	5°	3.6°

ANDREW ANTENNA WIND FORCES



Wind Forces At Wind Velocity Survival Rating	0.6ft	1ft	2ft	2.5ft
Wind Velocity Survival Rating (km/h)	250	250	250	250
Axial Force (FA)	200 N 45 lbf	445 N 100 lbf	1272 N 286 lbf	1500 N 337 lbf
Side Force (FS)	90 N 20 lbf	221 N 50 lbf	630 N 142 lbf	743 N 167 lbf
Twisting Moment (MT)	70 N•m	166 N•m	473 N•m	673 N•m
Weight with 1/2 in (12 mm) Radial Ice	13 kg 20 lbf	13 kg 28 lbf	17 kg 37 lbf	35 kg 77 lbf
Zcg with 1/2 in (12 mm) Radial Ice	100 mm 4 in	50 mm 2 in	162 mm 6 in	305 mm 12 in
Zcg without Ice	50 mm 2 in	25 mm 1 in	157 mm 6 in	178 mm 7 in

Wind Forces At Wind Velocity Survival Rating	3ft	4ft(VHLP)	4ft(HP)	6ft(VHLP)	6ft(HP)
Wind Velocity Survival Rating (km/h)	250	250	200	200	200
Angle α for MT Max	N/A	N/A	-130°	N/A	-130°
Axial Force (FA)	2979 N 670 lbf	5326 N 1197 lbf	3158 N 710 lbf	7128 N 1602 lbf	7744 N 1741 lbf
Side Force (FS)	936 N 210 lbf	2638 N 593 lbf	1546 N 348 lbf	3531 N 794 lbf	3836 N 862 lbf
Twisting Moment (MT)	1184 N•m	2370 N•m	1072 N•m	3197 N•m	2955 N•m
Weight with 1/2 in (12 mm) Radial Ice	46 kg 101 lbf	75 kg 165 lbf	356 kg 784 lbf	205 kg 452 lbf	235 kg 518 lbf
Zcg with 1/2 in (12 mm) Radial Ice	220 mm 9 in	310 mm 12 in	524 mm 21 in	450 mm 18 in	660 mm 26 in
Zcg without Ice	324 mm 13 in	210 mm 8 in	335 mm 13 in	425 mm 17 in	466 mm 18 in

Wind Forces At Wind Velocity Survival Rating	8ft	10ft	12ft	15ft
Wind Velocity Survival Rating (km/h)	200	200	200	200
Angle α for MT Max	-110°	-110°	-110°	110°
Axial Force (FA)	11284 N 2537 lbf	17632 N 3964 lbf	25390 N 5708 lbf	39672 N 8919 lbf
Force on Inboard Strut Side	4260 N 958 lbf	5870 N 1320 lbf	8000 N 1798 lbf	35233 N 7921 lbf
Force on Outboard Strut Side	5630 N 1266 lbf	8840 N 1987 lbf	11500 N 2585 lbf	N/A
Side Force (FS)	5590 N 1257 lbf	8734 N 1963 lbf	12577 N 2827 lbf	19652 N 4418 lbf
Twisting Moment (MT)	4901 N•m	-8630 N•m	-14132 N•m	29826 N•m
Weight with 1/2 in (12 mm) Radial Ice	454 kg 1001 lbf	577 kg 1272 lbf	895 kg 1973 lbf	952 kg 2099 lbf
Zcg with 1/2 in (12 mm) Radial Ice	729 mm 29 in	818 mm 32 in	914 mm 36 in	1372 mm 54 in
Zcg without Ice	673 mm 26 in	767 mm 30 in	808 mm 32 in	1306 mm 51 in

ANDREW ANTENNA WEIGHTS

Antenna Diameter	Shipping Weight approx (lbs)	Mounting Weight (lbs)
0.6ft (18 cm)	<i>Contact Manufacturer</i>	14
1 ft (30 cm)	20	14
2 ft (60 cm)	35	25
2.5 ft (76 cm)	<i>Contact Manufacturer</i>	49
3 ft (90 cm)	85	53
4 ft (120 cm)	<i>Contact Manufacturer</i>	88(VHLP)/152(HP)
6 ft (180 cm)	<i>Contact Manufacturer</i>	137(VHLP)/254(HP)
8 ft (240 cm)	945	500
10 ft (305 cm)	<i>Contact Manufacturer</i>	575
12 ft (366 cm)	<i>Contact Manufacturer</i>	950
15 ft (457 cm)	<i>Contact Manufacturer</i>	1100

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