ValuLine® Antenna Products

VHP2-71

0.6m (2 ft) High Performance Parabolic Antenna

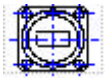
Andrew VHP high performance antennas are designed to satisfy the demands of cellular, PCS and Private User Networks worldwide.

The Valuline® antenna is a cost-effective antenna for terrestrial microwave communications .

Andrew antennas satisfy the widely accepted EIA 195C and 222E standards for electrical, mechanical and structural characteristics and are backed by a 3 year warranty.

This antenna can also be customized to allow direct integration of a customers radio equipment

In order to reduce shipping costs and delivery times to sites worldwide, Valuline® antennas are available from Andrew locations at Lochgelly, Scotland; Denton, Texas; Melbourne, Australia; Soro-caba, Brazil and Suzhou China.

Flange Options			
Standard (Others on application)			
CPR112G		PDR84	
UBR84		PBR84	

Regulatory Compliances	
U.S. FCC Part 101	ETSI EN 300833
-	RPE Class R1 C2

Electrical Characteristics		
Antenna Type		**VHP2-71W**
Frequency Band (GHz)		**7.125-8.5**
Gain (dBi)	Bottom	**29.8**
	Middle	**30.4**
	Top	**31.1**
3dB Beamwidth (deg.)		**4.9**
Cross Polar Disc. (dB)		**30**
F/B Ratio (dB)		**53**
VSWR (R.L. dB)		**1.15**
RPE Number		**3396B**

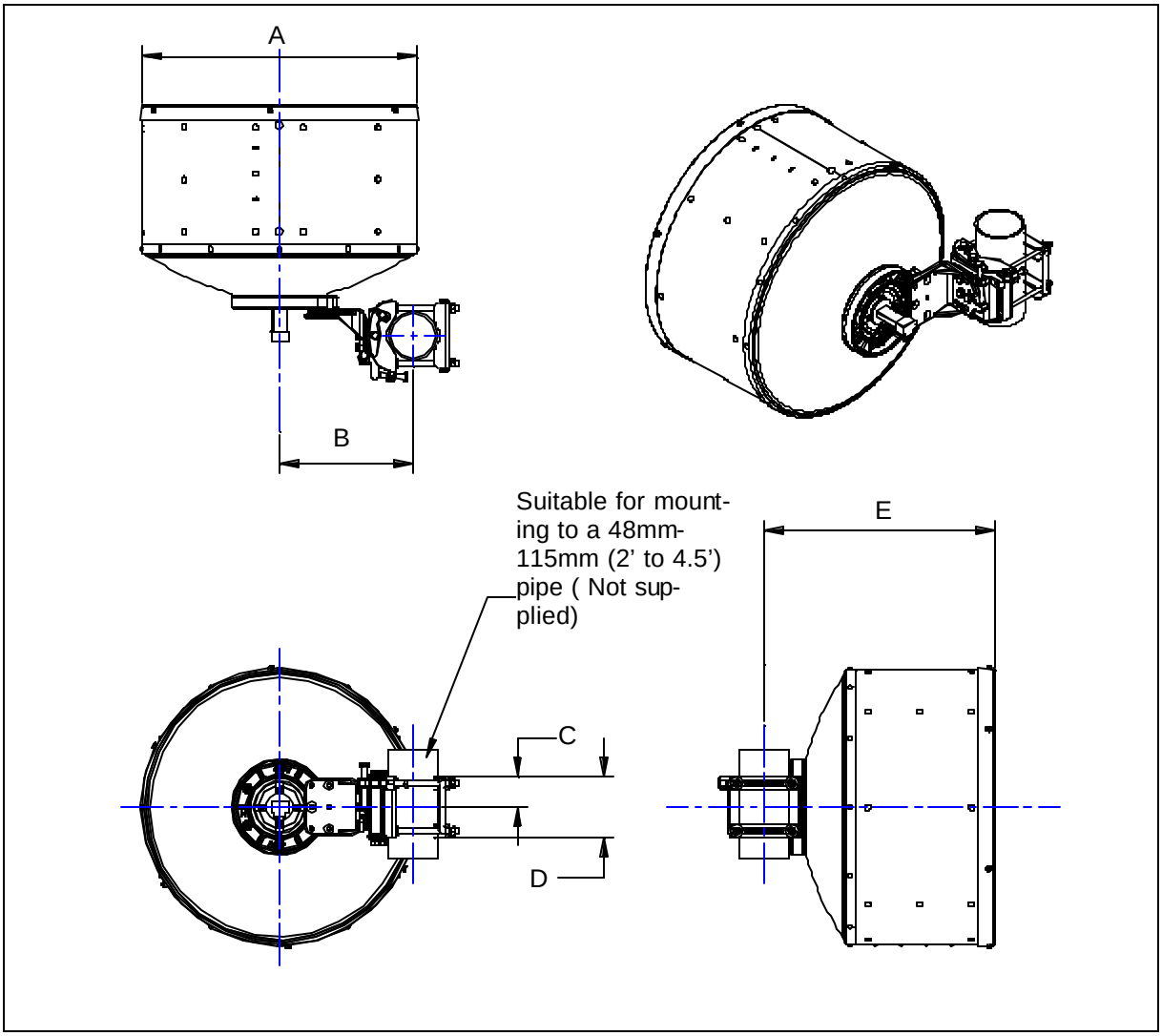
For applications assistance, please contact the Andrew Customer Support Center :

United States : TOLL FREE : 1-800-255 1479
Telephone : (708) 349 3300
Fax : (708) 349 5943

United Kingdom : TOLL FREE : 0800 250055
Telephone : (+44) 1592 780561
Fax : (+44) 1592 782380

ANDREW®

Outline Dimensions



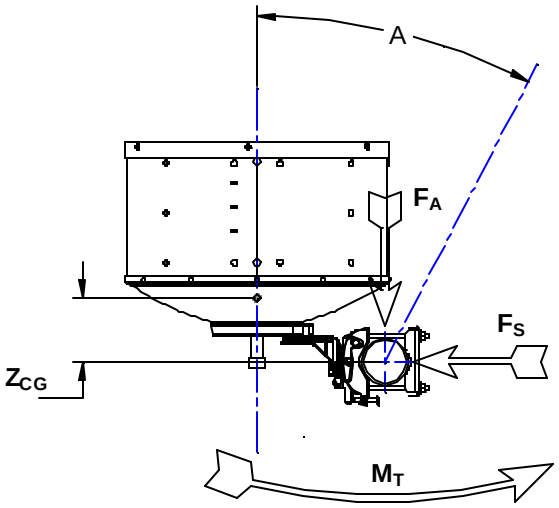
ANTENNA DIMENSIONS All dimensions in mm (inches)			
A	638 (25.1)	D	143 (5.6)
B	310 (12.2)	E	534 (21.0)
C	72 (2.8)		

ANTENNA FINE ADJUSTMENT	
FINE AZIMUTH	FINE ELEVATION
±10°	±25°

Wind Forces

Wind loading

The axial, side and twisting moment forces stated are maximum loads applied to the tower by the antenna at a survival wind speed of 200 km/h (125 mph). They are, in every case, the result of wind from the most critical direction for each parameter. The individual maximums may not occur simultaneously. All forces are referenced to the antenna mounting pipe.



Axial force	F_A	682N	(153lb)
Side force	F_S	424 N	(95lb)
Moment	M_T	227Nm	(168lb-ft)

Angle 'A' For M_T maximum -110°

Where side struts are fitted, the loads carried by the side struts are components of, not in addition to F_A F_s and M_T .

Z_{CG} Without Ice 148 mm (5.77")

Z_{CG} With 12 mm (1/2") Radial Ice 243 mm (9.47")

Z_{CG} is the axial distance from the centre of gravity to the mounting pipe

Antenna Weights kg (lb)	
Antenna Without Ice	Antenna With 12 mm (1/2") Radial Ice
15(33)	37 (81.4)

Antenna Packed Weights (Gross) and Dimensions (Single Unit Pack)	
Weight kg (lb)	Dimensions in cm (inches)
17.4 (38.3)	70 x 70 x 73.5 (27½ x 27½ x 29)

ValuLine® Antenna Products

VHP4-71

1.2m (4 ft) High Performance Parabolic Antenna

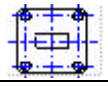
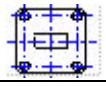
Andrew VHP high performance antennas are designed to satisfy the demands of cellular, PCS and Private User Networks worldwide.

The Valuline® antenna is a cost-effective antenna for terrestrial microwave communications .

Andrew antennas satisfy the widely accepted EIA 195C and 222E standards for electrical, mechanical and structural characteristics and are backed by a 3 year warranty.

This antenna can also be customized to allow direct integration of a customers radio equipment

In order to reduce shipping costs and delivery times to sites worldwide, Valuline® antennas are available from Andrew locations at Lochgelly, Scotland; Denton, Texas; Melbourne, Australia, Soro-caba, Brazil and Suzhou China.

Flange Options			
Standard (Others on application)			
CPR112G		PDR84	
PBR84		UBR84	

Regulatory Compliances	
U.S. FCC Part 101	ETSI EN 300833
-	RPE Class R1 C2

Electrical Characteristics		
Antenna Type		**VHP4-71**
Frequency Band (GHz)		**7.125-7.75**
Gain (dBi)	Bottom	**36.0**
	Middle	**36.4**
	Top	**36.7**
3dB Beamwidth (deg.)		**2.4**
Cross Polar Disc. (dB)		**32**
F/B Ratio (dB)		**60**
VSWR (R.L. dB)		**1.15**
RPE Number		**1326A**

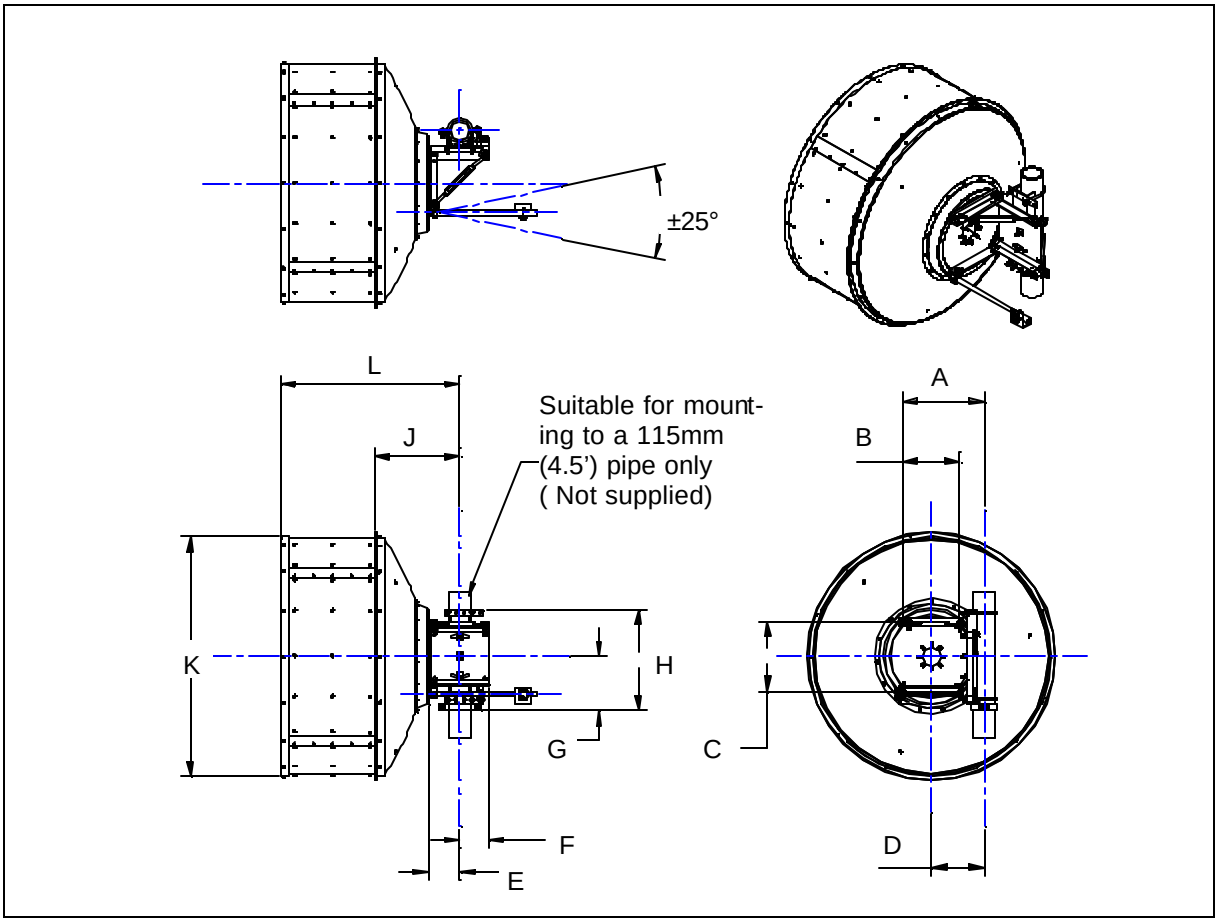
For applications assistance, please contact the Andrew Customer Support Center :

United States : TOLL FREE : 1-800-255 1479
Telephone : (708) 349 3300
Fax : (708) 349 5943

United Kingdom : TOLL FREE : 0800 250055
Telephone : (+44) 1592 780561
Fax : (+44) 1592 782380

ANDREW®

Outline Dimensions



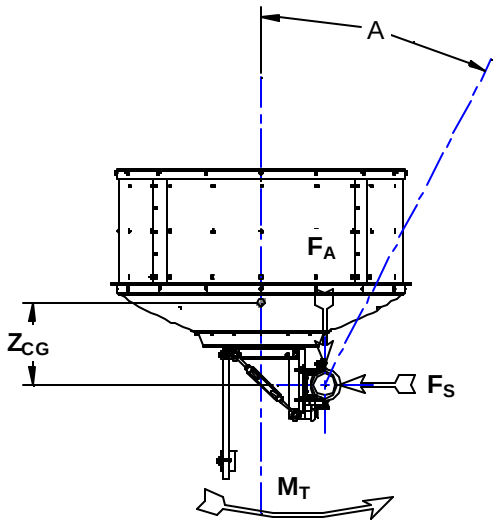
ANTENNA DIMENSIONS All dimensions in mm (inches)			
A	421 (16.6)	G	209 (8.2)
B	295 (11.6)	H	528 (20.8)
C	361 (14.2)	J	445 (17.5)
D	273 (10.7)	K	1247 (49.1)
E	165 (6.5)	L	933 (36.7)
F	152 (6)		

ANTENNA FINE ADJUSTMENT	
FINE AZIMUTH	FINE ELEVATION
±15°	±20°

Wind Forces

Wind loading

The axial, side and twisting moment forces stated are maximum loads applied to the tower by the antenna at a survival wind speed of 200 km/h (125 mph). They are, in every case, the result of wind from the most critical direction for each parameter. The individual maximums may not occur simultaneously. All forces are referenced to the antenna mounting pipe.



Axial force	F_A	2821 N	(634 lb)
Side force	F_S	1398 N	(314 lb)
Moment	M_T	894 Nm	(659 lb-ft)

Angle 'A' For M_T maximum -110°

Where side struts are fitted, the loads carried by the side struts are components of, not in addition to F_A F_s and M_T.

Z_{CG} Without Ice	317 mm (12.5')
Z_{CG} With 12 mm (1/2") Radial Ice	424 mm (16.7')

Z_{CG} is the axial distance from the centre of gravity to the mounting pipe

Antenna Weights kg (lb)	
Antenna Without Ice	Antenna With 12 mm (1/2") Radial Ice
64 (140)	128 (282)

Antenna Packed Weights (Gross) and Dimensions (Single Unit Pack)	
Weight kg (lb)	Dimensions in cm (inches)
137.0 (301.40)	134x134x71 (53x53x28)

ValuLine® Antenna Products

VHP4-77

1.2m (4 ft) High Performance Parabolic Antenna

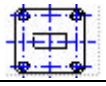
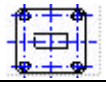
Andrew VHP high performance antennas are designed to satisfy the demands of cellular, PCS and Private User Networks worldwide.

The Valuline® antenna is a cost-effective antenna for terrestrial microwave communications .

Andrew antennas satisfy the widely accepted EIA 195C and 222E standards for electrical, mechanical and structural characteristics and are backed by a 3 year warranty.

This antenna can also be customized to allow direct integration of a customers radio equipment

In order to reduce shipping costs and delivery times to sites worldwide, Valuline® antennas are available from Andrew locations at Lochgelly, Scotland; Denton, Texas; Melbourne, Australia, Soro-caba, Brazil and Suzhou China.

Flange Options			
Standard (Others on application)			
CPR112G		PDR84	
PBR84		UBR84	

Regulatory Compliances	
U.S. FCC Part 101	ETSI EN 300833
-	RPE Class R1 C2

Electrical Characteristics		
Antenna Type		**VHP4-71**
Frequency Band (GHz)		**7.75-8.5**
Gain (dBi)	Bottom	**36.0**
	Middle	**36.4**
	Top	**36.7**
3dB Beamwidth (deg.)		**2.4**
Cross Polar Disc. (dB)		**32**
F/B Ratio (dB)		**60**
VSWR (R.L. dB)		**1.15**
RPE Number		**1326A**

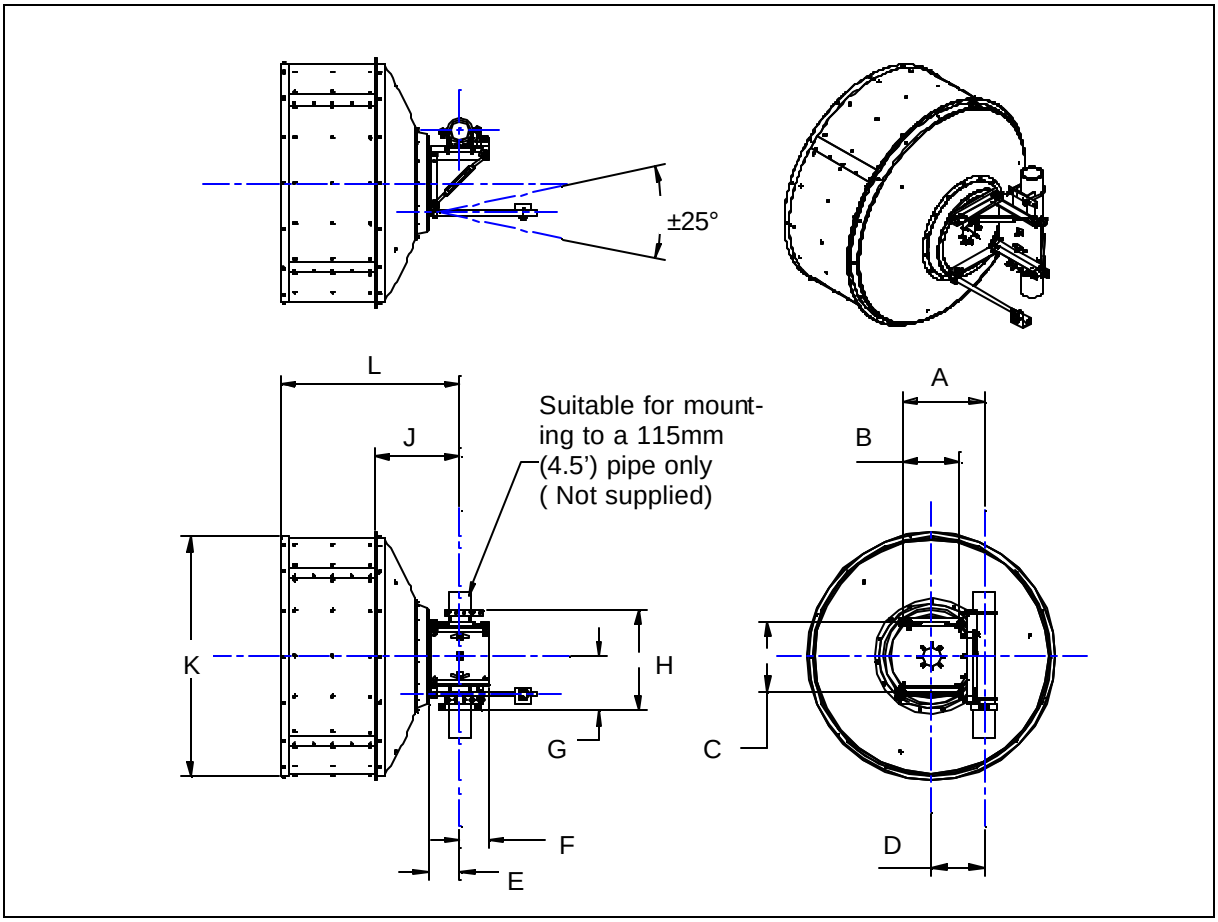
For applications assistance, please contact the Andrew Customer Support Center :

United States : TOLL FREE : 1-800-255 1479
Telephone : (708) 349 3300
Fax : (708) 349 5943

United Kingdom : TOLL FREE : 0800 250055
Telephone : (+44) 1592 780561
Fax : (+44) 1592 782380

ANDREW®

Outline Dimensions



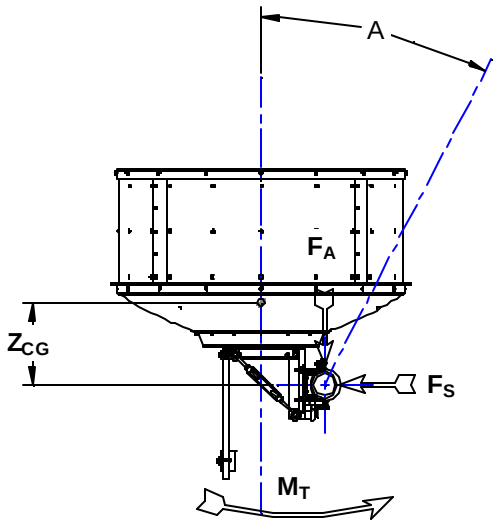
ANTENNA DIMENSIONS All dimensions in mm (inches)			
A	421 (16.6)	G	209 (8.2)
B	295 (11.6)	H	528 (20.8)
C	361 (14.2)	J	445 (17.5)
D	273 (10.7)	K	1247 (49.1)
E	165 (6.5)	L	933 (36.7)
F	152 (6)		

ANTENNA FINE ADJUSTMENT	
FINE AZIMUTH	FINE ELEVATION
±15°	±20°

Wind Forces

Wind loading

The axial, side and twisting moment forces stated are maximum loads applied to the tower by the antenna at a survival wind speed of 200 km/h (125 mph). They are, in every case, the result of wind from the most critical direction for each parameter. The individual maximums may not occur simultaneously. All forces are referenced to the antenna mounting pipe.



Axial force	F_A	2821 N	(634 lb)
Side force	F_S	1398 N	(314 lb)
Moment	M_T	894 Nm	(659 lb-ft)

Angle 'A' For M_T maximum -110°

Where side struts are fitted, the loads carried by the side struts are components of, not in addition to F_A F_s and M_T.

Z_{CG} Without Ice	317 mm (12.5')
Z_{CG} With 12 mm (1/2") Radial Ice	424 mm (16.7')

Z_{CG} is the axial distance from the centre of gravity to the mounting pipe

Antenna Weights kg (lb)	
Antenna Without Ice	Antenna With 12 mm (1/2") Radial Ice
64 (140)	128 (282)

Antenna Packed Weights (Gross) and Dimensions (Single Unit Pack)	
Weight kg (lb)	Dimensions in cm (inches)
137.0 (301.40)	134x134x71 (53x53x28)

ValuLine® Antenna Products

VHP6-71

1.8m (6 ft) High Performance Parabolic Antenna

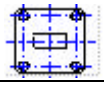
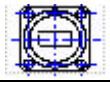
Andrew VHP high performance antennas are designed to satisfy the demands of cellular, PCS and Private User Networks worldwide.

The Valuline® antenna is a cost-effective antenna for terrestrial microwave communications .

Andrew antennas satisfy the widely accepted EIA 195C and 222E standards for electrical, mechanical and structural characteristics and are backed by a 3 year warranty.

This antenna can also be customized to allow direct integration of a customers radio equipment

In order to reduce shipping costs and delivery times to sites worldwide, Valuline® antennas are available from Andrew locations at Lochgelly, Scotland; Denton, Texas; Melbourne, Australia, Soro-caba, Brazil and Suzhou China.

Flange Options			
Standard (Others on application)			
CPR112G		PDR84	
UBR84		PBR84	

Regulatory Compliances	
U.S. FCC Part 101	ETSI EN 300833
-	RPE Class R1 C3

Electrical Characteristics		
Antenna Type		**VHP6-71**
Frequency Band (GHz)		**7.125-7.75**
Gain (dBi)	Bottom	**39.7**
	Middle	**40.0**
	Top	**40.4**
3dB Beamwidth (deg.)		**1.6**
Cross Polar Disc. (dB)		**32**
F/B Ratio (dB)		**68**
VSWR (R.L. dB)		**1.15**
RPE Number		**3318A**

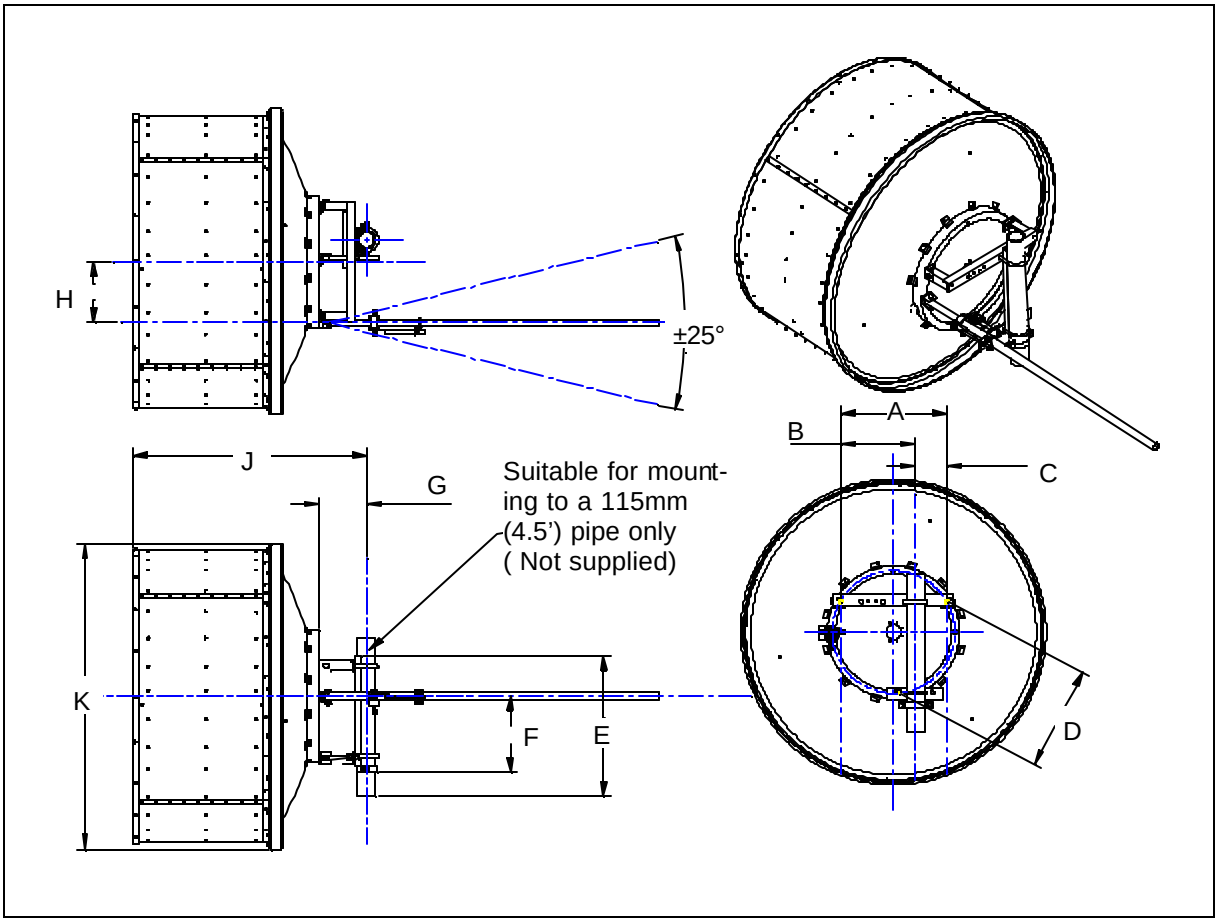
For applications assistance, please contact the Andrew Customer Support Center :

United States : TOLL FREE : 1-800-255 1479
Telephone : (708) 349 3300
Fax : (708) 349 5943

United Kingdom : TOLL FREE : 0800 250055
Telephone : (+44) 1592 780561
Fax : (+44) 1592 782380

ANDREW®

Outline Dimensions



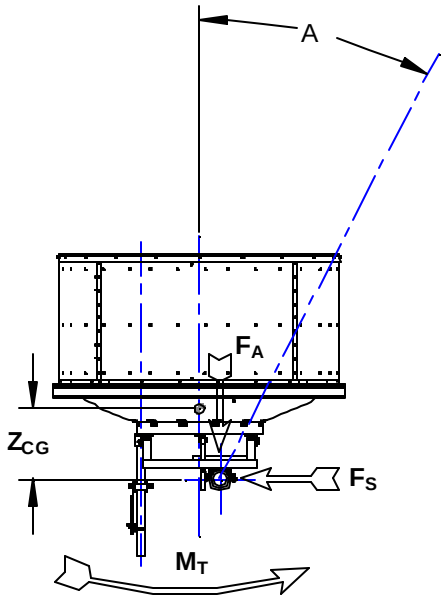
ANTENNA DIMENSIONS All dimensions in mm (inches)			
A	674 (26.5)	F	737 (29.0)
B	474 (18.7)	G	298 (11.7)
C	200 (7.9)	H	389 (15.3)
D	656 (25.8)	J	1484 (58.4)
E	483 (19.0)	K	1939 (76.3)

ANTENNA FINE ADJUSTMENT	
FINE AZIMUTH	FINE ELEVATION
±15°	±20°

Wind Forces

Wind loading

The axial, side and twisting moment forces stated are maximum loads applied to the tower by the antenna at a survival wind speed of 200 km/h (125 mph). They are, in every case, the result of wind from the most critical direction for each parameter. The individual maximums may not occur simultaneously. All forces are referenced to the antenna mounting pipe.



Axial force	F_A	6348N	(1427 lb)
Side force	F_S	3144 N	(707 lb)
Moment	M_T	2209 Nm	(1629 lb-ft)
Angle 'A' For M_T maximum			-110°

Where side struts are fitted, the loads carried by the side struts are components of, not in addition to F_A F_s and M_T .

Z_{CG} Without Ice	508 mm (20.0')
Z_{CG} With 12 mm (1/2") Radial Ice	848 mm (33.3')

Z_{CG} is the axial distance from the centre of gravity to the mounting pipe

Antenna Weights kg (lb)	
Antenna Without Ice	Antenna With 12 mm (1/2") Radial Ice
173 (380)	282 (620)

Antenna Packed Weights (Gross) and Dimensions (Single Unit Pack)	
Weight kg (lb)	Dimensions in cm (inches)
308 (677.6)	208x208x122 (82x82x48)