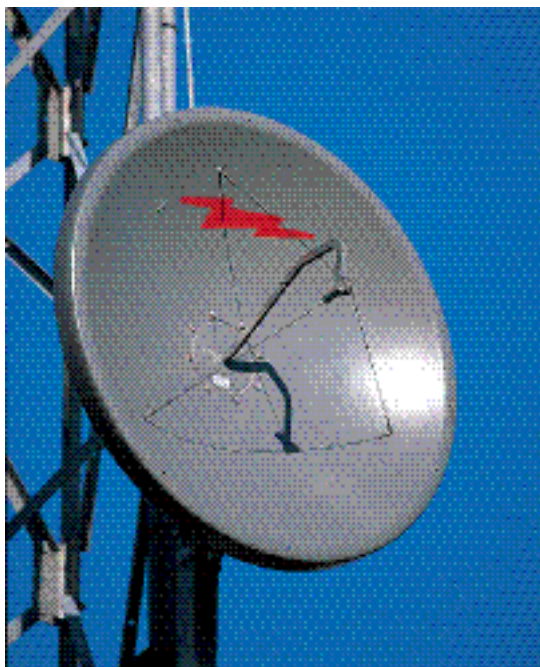




# Product Specifications

## PAR6-65-PXA

6 ft Parabolic Unshielded Antenna for Relocation-Category A, single-polarized, 6.425–7.125 GHz, CPRG flange, gray antenna, molded gray radome with flash, standard pack—one-piece reflector



## CHARACTERISTICS

### General Specifications

Diameter, nominal	1.8 m   6 ft
Antenna Input	CPR137G
Antenna Type	PAR - Parabolic Unshielded Antenna for Relocation-Category A, single-polarized
Polarization	Single
Reflector Construction	One-piece reflector
Antenna Color	Gray

Radome Color	Gray
Radome Material	Molded
Flash Included	Yes
Packing *	Standard pack

## Electrical Specifications

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Operating Frequency Band *	6.425 – 7.125 GHz
Gain, Top Band	39.0 dBi
Gain, Mid Band *	38.8 dBi
Gain, Low Band	38.7 dBi
Front-to-Back Ratio *	59 dB
Cross Polarization Discrimination (XPD) *	30 dB
Beamwidth, Horizontal	1.8 °
Beamwidth, Vertical	1.8 °
VSWR *	1.06
Return Loss *	30.7 dB
Radiation Pattern Envelope Reference (RPE) *	1290A
Electrical Compliance	US FCC Part 101A   US FCC Part 74B   ETSI Class 2

## Mechanical Specifications

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Wind Velocity Operational *	113 km/h   70 mph
Wind Velocity Survival Rating *	201 km/h   125 mph
Fine Azimuth Adjustment	±5°
Fine Elevation Adjustment	±5°
Mounting Pipe Diameter	115 mm   4.5 in
Side Struts, Included	0
Side Struts, Optional	2 inboard
Net Weight	73 kg   161 lb

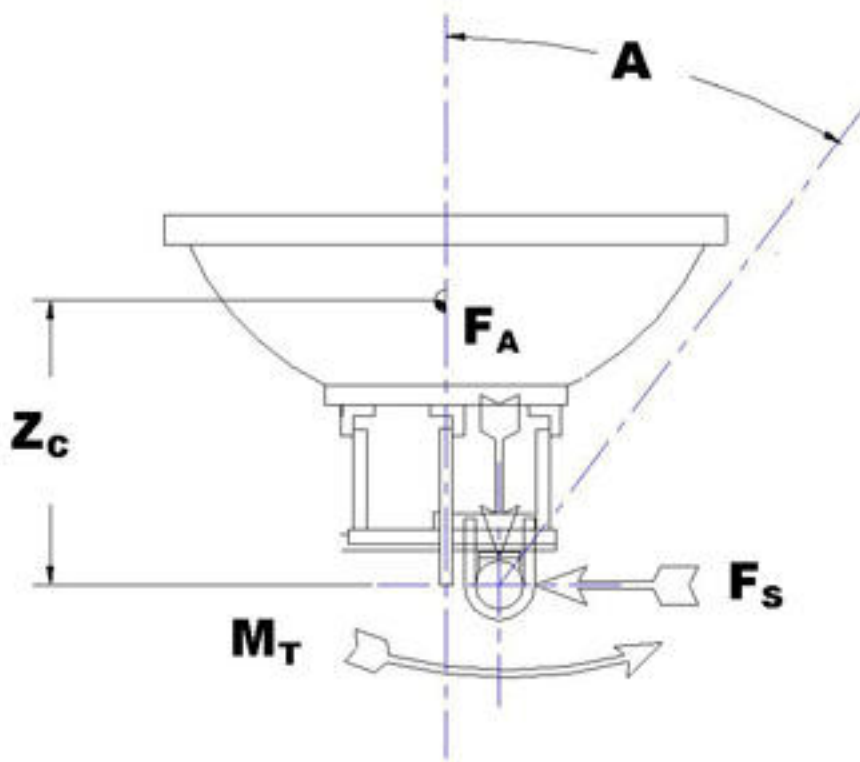
## Wind Forces At Wind Velocity Survival Rating

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Axial Force (FA) *	4343 N   976 lbf
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Side Force (FS) *	2673 N   601 lbf
Twisting Moment (MT) *	2309 N•m
Angle $\alpha$ for MT Max	100 °
Zcg without Ice	348 mm   14 in
Zcg with 1/2" (12 mm) Radial Ice	498 mm   20 in
Weight with 1/2" (12 mm) Radial Ice	146 kg   322 lb

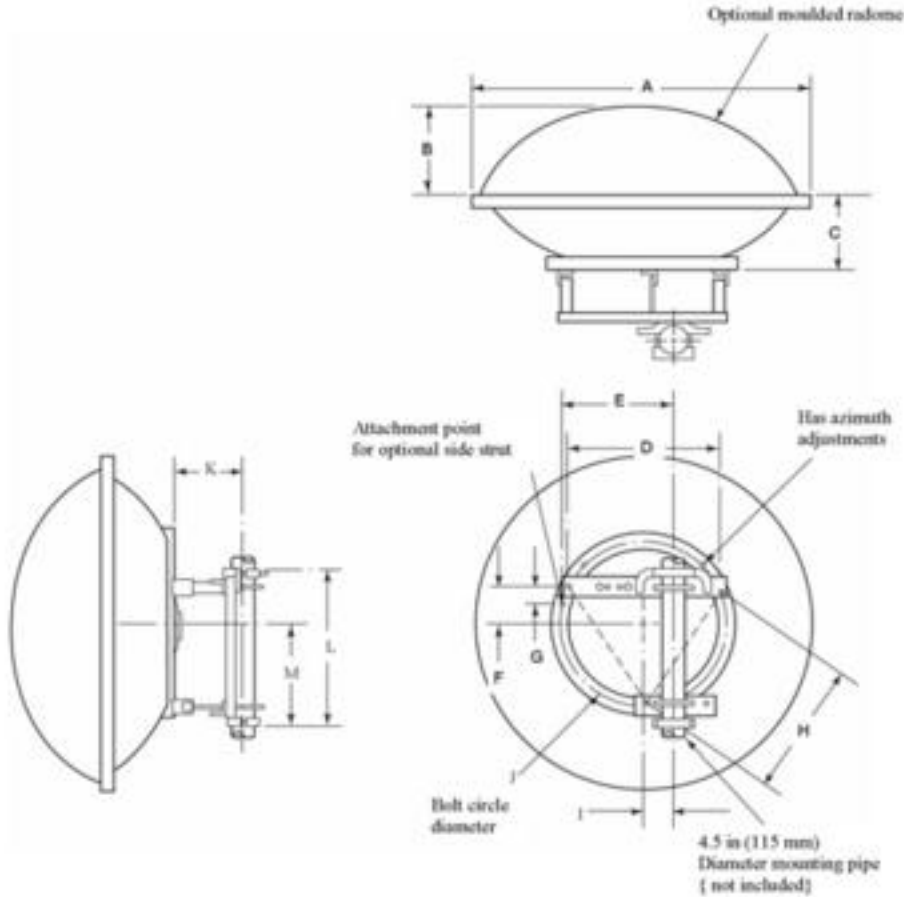
## Wind Forces At Wind Velocity Survival Rating Image



## Packed Dimensions

Gross Weight, Packed Antenna	308.0 kg   679.0 lb
Length	2070.0 mm   81.5 in
Width	880.0 mm   34.6 in
Height	2100.0 mm   82.7 in
Volume	3.8 m <sup>3</sup>

## Antenna Dimensions And Mounting Information



<b>ANTENNA DIMENSIONS</b>			
All dimensions in mm (inches)			
A	1940 (76.3)	H	675 (26.5)
B	690 (27.75)	I	137 (5)
C	335 (13.2)	J	780 (30.6)
D	675 (26.5)	K	295 (11.6)
E	545 (21.5)	L	780 (30.75)
F	195 (7.75)	M	480 (19)
G	60 (2.25)		

### \* Footnotes

*Axial Force (FA)*

*Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.*

*Cross Polarization Discrimination (XPD)*

*The difference between the peak of the co-polarized main beam and the maximum cross-polarized signal over an angle twice the 3 dB beamwidth of the co-polarized main beam.*

*Front-to-Back Ratio*

*Denotes highest radiation relative to the main beam, at  $180^\circ \pm 40^\circ$ , across the band. Production antennas do not exceed rated values by more than 2 dB unless stated otherwise.*

*Gain, Mid Band*

*For a given frequency band, gain is primarily a function of antenna size. The gain of Andrew antennas is determined by either gain by comparison or by computer integration of the measured antenna patterns.*

*Operating Frequency Band*

*Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.*

*Packing*

*Andrew standard packing is suitable for export. Antennas are shipped as standard in totally recyclable cardboard or wire-bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options.*

*Radiation Pattern Envelope Reference (RPE)*

*Radiation patterns determine an antenna's ability to discriminate against unwanted signals under conditions of radio congestion. Radiation patterns are dependent on antenna series, size, and frequency.*

*Return Loss*

*The figure that indicates the proportion of radio waves incident upon the antenna that are rejected as a ratio of those that are accepted.*

*Side Force (FS)*

*Maximum axial forces exerted on support structures by side struts as a result of a 200 km/h (125 mph) wind from the most critical direction and extreme angle permitted. The forces are a component of, not in addition to, the maximum forces specified above.*

*Twisting Moment (MT)*

*Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.*

*VSWR*

*Maximum; is the guaranteed Peak Voltage-Standing-Wave-Ratio within the operating band.*

*Wind Velocity Operational*

*The wind speed where the antenna deflection is equal to or less than 0.1 degrees.*

*Wind Velocity Survival Rating*

*Microwave antennas, including mounts and radomes, where applicable, will withstand the simultaneous wind and ice conditions as specified.*



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