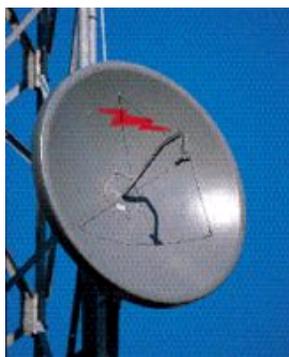


## PAR10-65-P7A

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



## CHARACTERISTICS

### General Specifications

Diameter, nominal	3.0 m   10 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
Flash Included	Yes
Packing	Standard pack

### Electrical Specifications

Operating Frequency Band	6.425 – 7.125 GHz
Gain, Top Band	43.8 dBi
Gain, Mid Band	43.6 dBi
Gain, Low Band	43.4 dBi
Front-to-Back Ratio	63 dB
Cross Polarization Discrimination (XPD)	30 dB
Beamwidth, Horizontal	1.0°
Beamwidth, Vertical	1.0°
VSWR	1.06
Return Loss	30.7 dB
Radiation Pattern Envelope Reference (RPE)	1257
Electrical Compliance	US FCC Part 101A   US FCC Part 74A   ETSI Class 1

### Mechanical Specifications

Wind Velocity Operational	70 mph   113 km/h
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# Product Specifications



Wind Velocity Survival Rating	125 mph   201 km/h
Fine Azimuth Adjustment	±5°
Fine Elevation Adjustment	±5°
Mounting Pipe Diameter	115 mm   4.5 in
Side Struts, Included	1 inboard
Side Struts, Optional	2 outboard
Net Weight	144 kg   317 lb

## Wind Forces At Wind Velocity Survival Rating

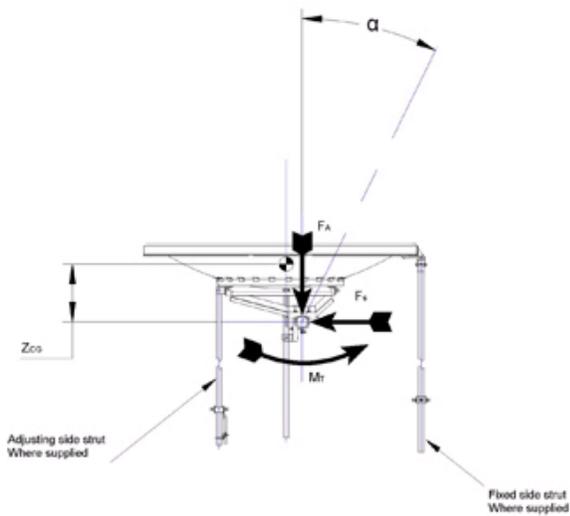
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Axial Force (FA)	24019 N   5400 lbf
Side Force (FS)	6556 N   1474 lbf
Twisting Moment (MT)	-9605 N•m
Angle $\alpha$ for MT Max	-125°
Zcg without Ice	457 mm   18 in
Zcg with 1/2" (12 mm) Radial Ice	551 mm   22 in
Weight with 1/2" (12 mm) Radial Ice	356 kg   785 lb

# Product Specifications



## Wind Forces At Wind Velocity Survival Rating Image



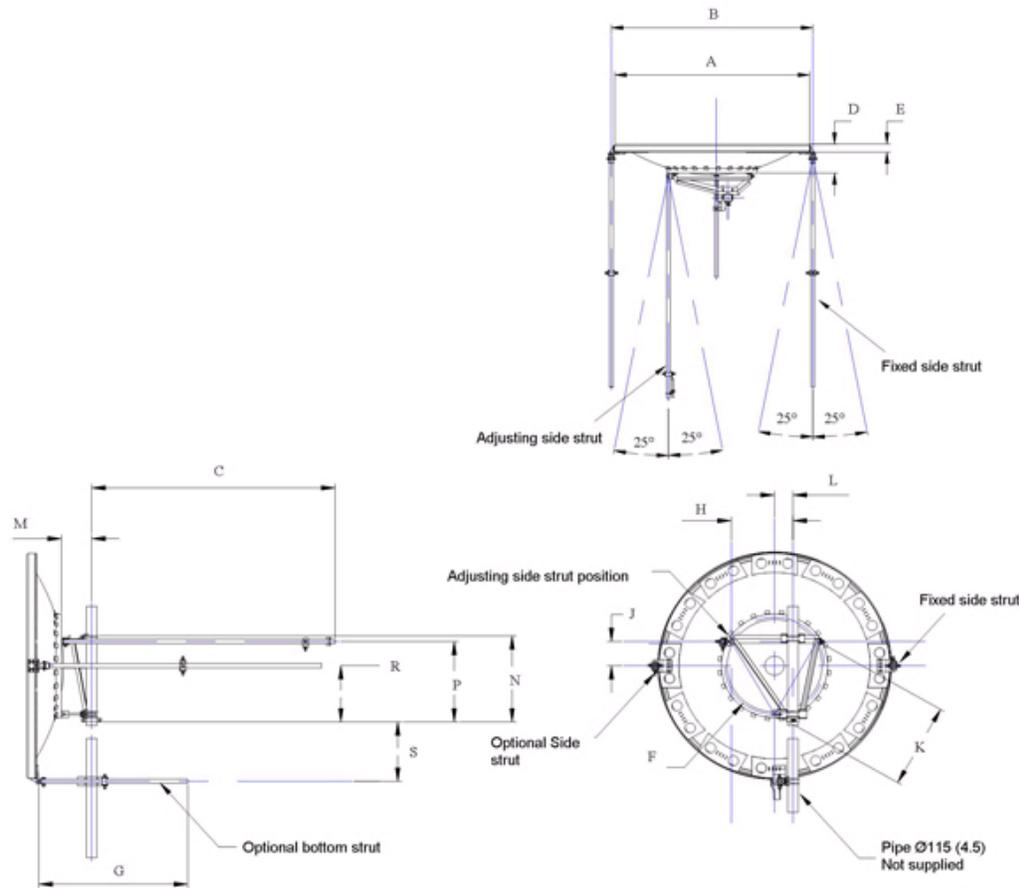
## Packed Dimensions

Gross Weight, Packed Antenna	398.0 kg		877.4 lb
Length	3280.0 mm		129.1 in
Width	2290.0 mm		90.2 in
Height	2490.0 mm		98.0 in
Volume	9.3 m <sup>3</sup>		

# Product Specifications



## Antenna Dimensions And Mounting Information



<b>ANTENNA DIMENSIONS</b>			
All dimensions in mm (inches)			
A	3160 (124.5)	J	275 (10.75)
B	3315 (130.5)	K	950 (37.5)
C	3050 (120)	L	200 (8)
D	615 (24.25)	M	330 (13)
E	140 (5.5)	N	950 (37.5)
F	1100 (43.25)	P	895 (35.25)
G	1525 (60)	R	625 (24.5)
H	680 (26.75)	S	695 (27.25)

# Product Specifications



## \* Footnotes

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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.