



JUN 16 2008

Rapid City Growth
Management Department

3.0, 3.4 & 3.7M

C OR KU-BAND

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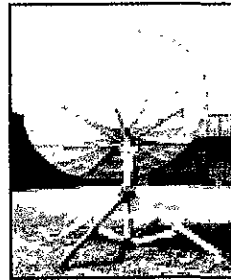
SERIES

1304-1305

1344-1345

1374-1375

Prodelin Corporation is the world's largest manufacturer of Rx/Tx VSAT antennas. We have the broadest product line in the industry including Receive Only, Rx/Tx and Rural Telephony antenna systems. Prodelin offers nineteen antenna sizes, 47cm to 4.5M. Prodelin is the leader in obtaining type certifications and approvals for Intelsat, AsiaSat and Eutelsat. Prodelin antennas provide the best quality in the market due to the sophisticated, precision SMC compression molding process technology. Prodelin provides the best value antenna solution to the market with competitive prices, the highest quality products and superb engineering support. Prodelin is ISO registered, KEMA # 70022.01. *Prodelin - The Market Leader in VSAT Antennas.*



Back View
Series 1374



Feed
C-Band Feed

Key Features

- Precision Compression Molded Centered Reflector
- Low transportation cost with eight panel reflector
- Individual panels interchangeable and field replaceable
- Fully galvanized steel mounts
- Az/EI or declination corrected polar mounts
- Optional galvanized king post available

(828) 464-4141

This model
↓

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Electrical	Series 1304-1305		Series 1344-1345		Series 1374-1375	
	C-Band	Ku-Band	C-Band	Ku-Band	C-Band	Ku-Band
Antenna Size	3.0M (10 ft)		3.4M (11 ft)		3.7M (12 ft)	
Operating Frequency (GHz)	3.7, 4.2, 10.95, 12.75		3.825, 4.2, 10.95, 12.75		3.825, 4.2, 10.95, 12.75	
Midband Gain (±.5dB)	40 dBi	49 dBi	40.2 dBi	49.8 dBi	40.9 dBi	50.7 dBi
3 dB Beamwidth	1.7°	0.8°	1.6°	0.59°	1.45°	0.5°
Antenna Noise Temperature						
20° elevation	30 K	29 K	29 K	28 K	25 K	23 K
30° elevation	28 K	26 K	27 K	25 K	23 K	22 K
Feed Interface	CPR 229F WR 75		CPR 229F WR 75		CPR 229F WR 75	
First Sidelobe (typical)	-20 dB		-20 dB		-20 dB	
Cross-Pol Isolation (Linear)	>30 dB (on axis)		>30 dB (on axis)		>30 dB (on axis)	
VSWR	1.3:1 Max		1.3:1 Max		1.3:1 Max	
Insertion Loss	-30 dB		0.2 dB Max		0.2 dB Max	
Reflector Material			Eight Segment Glass Fiber Reinforced Polyester SMC			
Antenna Optics			Prime Focus, Axisymmetric			
Mast Pipe Size			6" SCH 80 Pipe (6.62" OD) 16.83 cm			
Elevation Adjustment Range			10° to 70° Continuous Fine Adjustment (90° optional)			
Azimuth Adjustment Range			360° Continuous Polar mount covers any 90° segment of arc 90° arc coverage with 36° actuator			
Declination Corrected Polar Range (1305/1345/1375)			36/Quad Feed Support			
TD Ratio/Feed Support	30/Quad Feed Support		36/Quad Feed Support		37/Quad Feed Support	
Shipping Specifications	380 lbs (173 kg.)		520 lbs (234 kg.)		575 lbs. (259 kg)	
Wind Loading	Operational	45 mph (72 km/h)				
	Survival	125 mph (201 km/h)				
Temperature	Operational	140° to 140° F (-40° to 60° C)				
	Survival	60° to 160° F (-46° to 71° C)				
Rain	Operational	1/2" / hr.				
	Survival	2" / hr				
Ice	Operational	1/2" radial				
	Survival	1/2" radial				
Atmospheric Conditions			Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas			
Solar Radiation			360 BTU/hr/ft ²			

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SATELLITE DISH FOUNDATION

PRODELIN CORPORATION

4096-225
3.4M & 3.7M Az/EI TRUSS MOUNT

1.4 FOUNDATION REQUIREMENTS

Prodelin's recommended foundation for the antenna systems shown in figure 1. however, each installation must be tailored to the specific requirements of the site. It may be necessary to contact a local engineer or building department for foundation design or approval at any particular site.

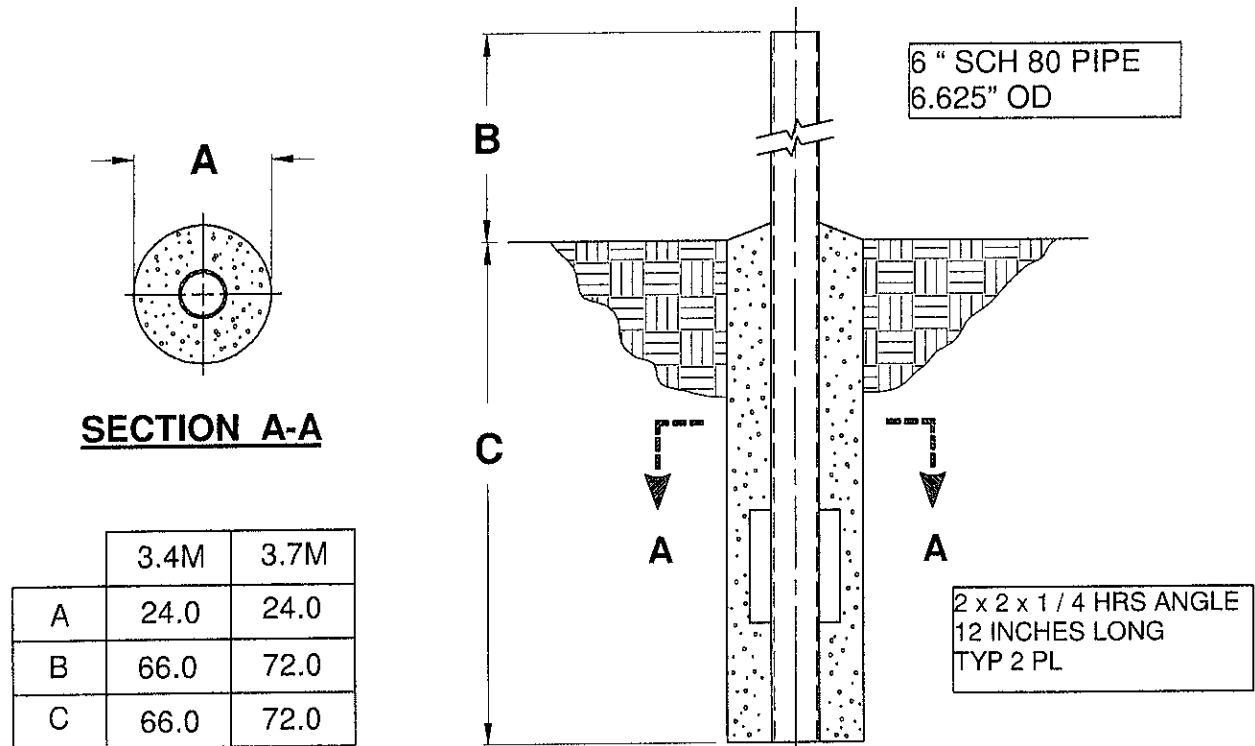


FIGURE 1.

NOTES:

1. 2 x 2 x 1/4 HRS Angle and schedule 40 pipe should conform with ASTM A36 and ASTM A53 Type E and S Grade B.
2. All concrete should conform to building code standards and have a minimum compressive strength of 3000 PSI at 28 days. (Per ACI-318-77)
3. Soil bearing capacity should be no less than 2000 PSF.
4. Concrete should be poured against undisturbed soil.
5. Allow concrete 24 hours set time before installation of antenna.
6. The antenna should be properly grounded to meet applicable local codes.
7. Minimum depth as shown or extend to local frost line

PRODELIN CORPORATION DOES NOT REPRESENT OR WARRANT THAT ANY PARTICULAR DESIGN OR SIZE OF FOUNDATION IS APPROPRIATE FOR ANY LOCALITY OR EARTH STATION INSTALLATION

SECTION 2

REFLECTOR AND SUPPORT STRUCTURE ASSEMBLY