

3.7 m | 12 ft High Performance Parabolic Shielded Antenna, dual-polarized, 7.125–7.750 GHz, CPR112G, gray antenna, standard white radome with flash, standard pack—two-piece reflector

Product Classification

Product Type Microwave antenna

General Specifications

Antenna Type HPX - High Performance Parabolic Shielded Antenna, dual-polarized

Diameter, nominal3.7 m | 12 ftPackingStandard pack

Radome ColorWhiteRadome MaterialStandard

Reflector Construction Two-piece reflector

Antenna Input CPR112G
Antenna Color Gray

Antenna Type HPX - High Performance Parabolic Shielded Antenna, dual-polarized

Diameter, nominal 3.7 m | 12 ft

Flash Included Yes
Polarization Dual

Electrical Specifications

Operating Frequency Band 7.125 – 7.750 GHz
Operating Frequency Band 7.125 – 7.750 GHz

Radiation Pattern Envelope Reference (RPE) 2758E

Mechanical Specifications

Fine Azimuth Adjustment ±5°
Fine Elevation Adjustment ±5°

 Mounting Pipe Diameter
 115 mm | 4.5 in

 Net Weight
 431 kg | 950 lb

Side Struts, Included 1 inboard | 1 outboard

Side Struts, Optional 2 outboard

page 1 of 10 September 6, 2019



HPX12-71-P1M

Wind Velocity Operational110 km/h68 mphWind Velocity Survival Rating200 km/h125 mph

Wind Forces At Wind Velocity Survival Rating

Angle α for MT Max -110 $^{\circ}$

 Axial Force (FA)
 25390 N | 5708 lbf

 Force on Inboard Strut Side
 8000 N | 1798 lbf

 Force on Outboard Strut Side
 11500 N | 2585 lbf

 Side Force (FS)
 12577 N | 2827 lbf

Twisting Moment (MT) -14132 N-m | -10423 ft lb

 Weight with 1/2 in (12 mm) Radial Ice
 895 kg | 1973 lb

 Zcg with 1/2 in (12 mm) Radial Ice
 914 mm | 36 in

 Zcg without Ice
 808 mm | 32 in



page 2 of 10

Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

 Gross Weight, Packed Antenna
 730.0 kg | 1609.4 lb

 Height
 2140.0 mm | 84.3 in

 Length
 3990.0 mm | 157.1 in

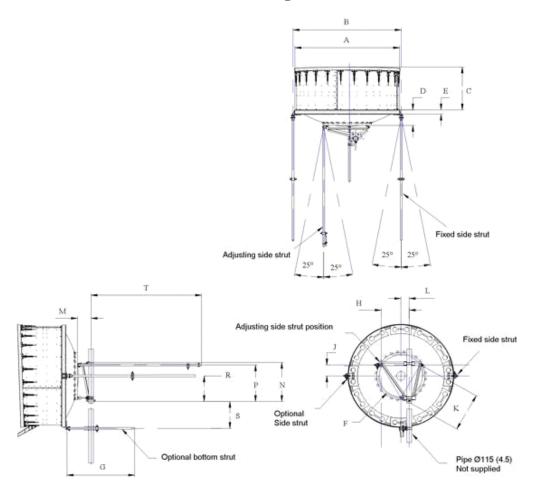
Volume 13.1 m³

Width 1530.0 mm | 60.2 in

page 3 of 10 September 6, 2019



Antenna Dimensions And Mounting Information



ANTENNA DIMENSIONS All dimensions in mm (inches)				
A	3775 (148.5)	K	1205 (47.5)	
В	3915 (154.5)	į.	215 (8.5)	
С	1090 (43.0)	М	330 (13)	
D	685 (27.0)	N	1225 (48.25)	
E	145 (5.75)	Р	1145 (45.0)	
F	1430 (56.25)	R	790 (31.0)	
G	1525 (60)	s	1140 (44.75)	
н	835 (32.75)	Ť	3050 (120)	
J.	355 (14.0)			

Regulatory Compliance/Certifications

page 4 of 10 September 6, 2019



HPX12-71-P1M

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



* 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.

Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used throughout

the world. Other ranges can be accommodated on special order.

PackingAndrew 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 define an antenna's ability to discriminate against unwanted signals.

Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an angular accuracy of +/-1° throughout

Side Force (FS) Maximum side force exerted on the mounting pipe 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.

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.

Wind Velocity Operational The wind speed where the antenna deflection is equal to or less than 0.1 degrees. In the

case of ValuLine antennas, it is defined as a maximum deflection of 0.3 x the 3 dB

beam width of the antenna.

Wind Velocity Survival Rating

The maximum wind speed the antenna, including mounts and radomes, where

applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of radial

ice.





3.7 m | 12 ft High Performance Parabolic Shielded Antenna, dual-polarized, 7125–7750 GHz

Product Classification

Product TypeMicrowave antenna

General Specifications

Antenna Type HPX - High Performance Parabolic Shielded Antenna, dual-polarized

Diameter, nominal 3.7 m | 12 ft

Polarization Dual

Electrical Specifications

Operating Frequency Band 7.125 – 7.750 GHz

Radiation Pattern Envelope Reference (RPE) 2758E

Mechanical Specifications

Fine Azimuth Adjustment ±5°
Fine Elevation Adjustment ±5°

 Mounting Pipe Diameter
 115 mm | 4.5 in

 Net Weight
 431 kg | 950 lb

Side Struts, Included 1 inboard | 1 outboard

Side Struts, Optional 2 outboard

Wind Velocity Operational110 km/h68 mphWind Velocity Survival Rating200 km/h125 mph

Wind Forces At Wind Velocity Survival Rating

Angle α for MT Max -110 $^{\circ}$

 Axial Force (FA)
 25390 N | 5708 lbf

 Force on Inboard Strut Side
 8000 N | 1798 lbf

 Force on Outboard Strut Side
 11500 N | 2585 lbf

 Side Force (FS)
 12577 N | 2827 lbf

 Twisting Moment (MT)
 -14132 N-m | -10423 ft lb

page 6 of 10 September 6, 2019



HPX12-71

 Weight with 1/2 in (12 mm) Radial Ice
 895 kg | 1973 lb

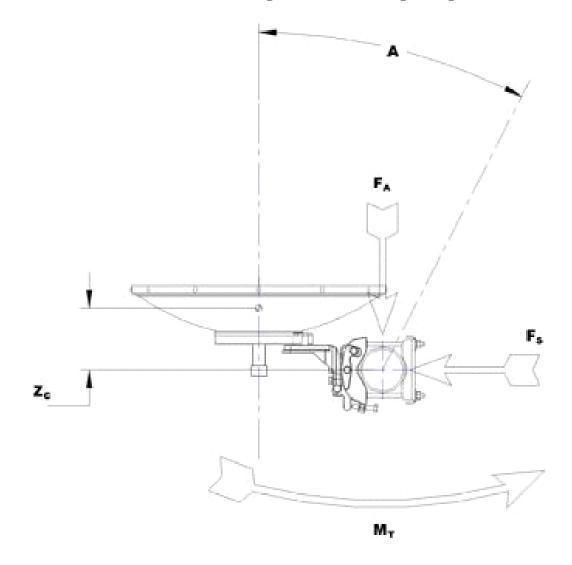
 Zcg with 1/2 in (12 mm) Radial Ice
 914 mm | 36 in

 Zcg without Ice
 808 mm | 32 in

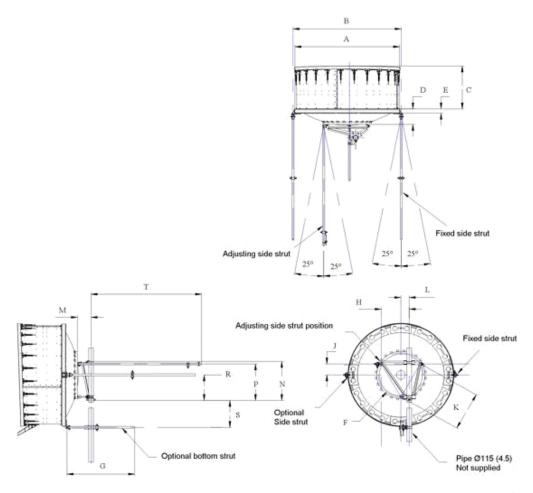


page 7 of 10

Wind Forces At Wind Velocity Survival Rating Image



Antenna Dimensions And Mounting Information



ANTENNA DIMENSIONS All dimensions in mm (inches)				
A	3775 (148.5)	K	1205 (47.5)	
В	3915 (154.5)	Ŀ	215 (8.5)	
С	1090 (43.0)	М	330 (13)	
D	685 (27.0)	N	1225 (48.25)	
E	145 (5.75)	Р	1145 (45.0)	
F	1430 (56.25)	R	790 (31.0)	
G	1525 (60)	s	1140 (44.75)	
н	835 (32.75)	T	3050 (120)	
J.	355 (14.0)			

Regulatory Compliance/Certifications

page 9 of 10 September 6, 2019



Agency C

Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



* 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.

Operating Frequency BandBands correspond with CCIR recommendations or common allocations used throughout

the world. Other ranges can be accommodated on special order.

Radiation Pattern Envelope Reference (RPE) Radiation patterns define an antenna's ability to discriminate against unwanted signals.

Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an angular accuracy of +/-1° throughout

Side Force (FS)Maximum side force exerted on the mounting pipe 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.

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.

Wind Velocity Operational The wind speed where the antenna deflection is equal to or less than 0.1 degrees. In the

case of ValuLine antennas, it is defined as a maximum deflection of 0.3 x the 3 dB

beam width of the antenna.

Wind Velocity Survival Rating

The maximum wind speed the antenna, including mounts and radomes, where

applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of radial

ice.

page 10 of 10 September 6, 2019

