Antenna HP 30-100 D

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General Specifications

Diameter	3.0 m
Standard Colour	RAL 3070
Shroud	Standard profile
Antenna Input	Interface for IEC waveguide R 100
Polarization	Dual

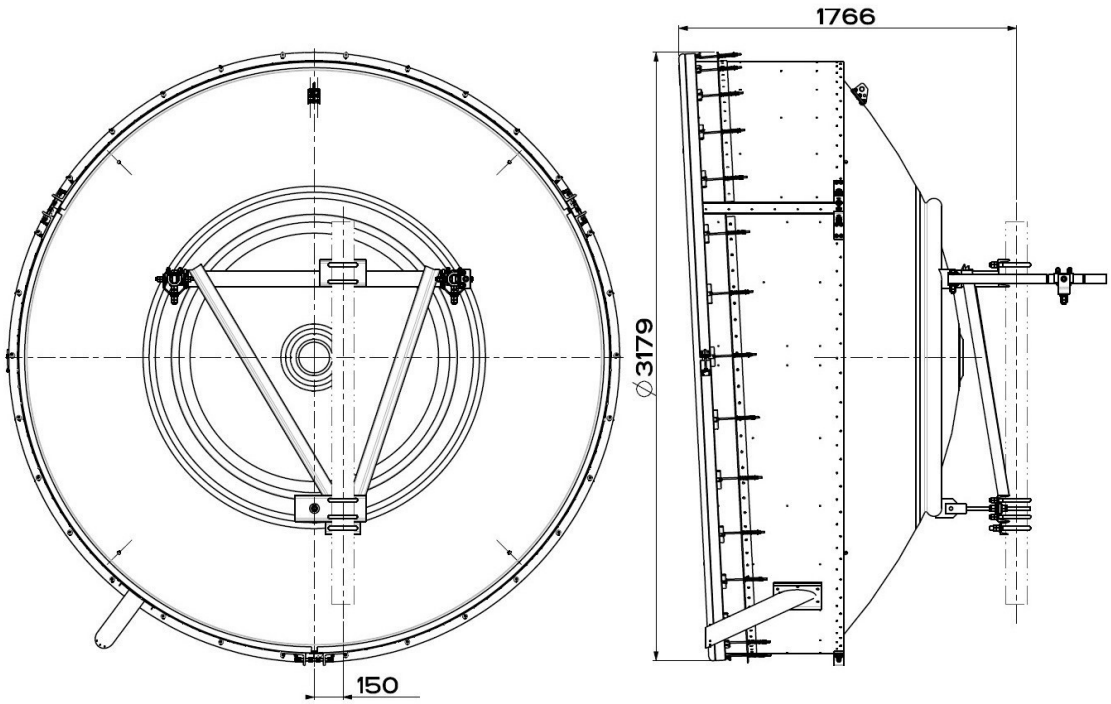
Mechanical Characteristics

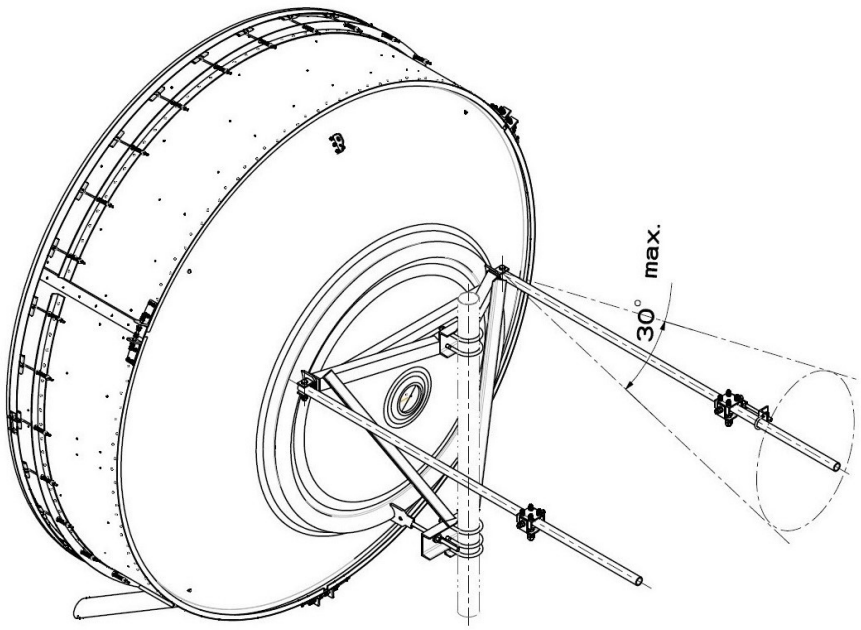
Pole	115 mm
Elevation-fine adjustment	±5°
Azimuth-fine adjustment	±5°
Side struts, included	2
Side struts, optional	0
Net weight	360 Kg
Radome	Complan fabric
Wind velocity Operational	30 m/s
Wind velocity Survival	55 m/s
Wind deflection	<0.3 times the -3 dB beamwidth
(with a wind velocity of 30 m/s)	Specified wind deflection applies for 115 mm dia mounting pipe only

Antenna Dimensions

(pole mount included)

Height	3179 mm
Width	3179 mm
Depth	1766 mm





Wind forces at wind velocity survival rating and with 25 mm (1") ice load

Axial force	18130 N
Side force	8980 N
Twisting Moment	8530 N?m

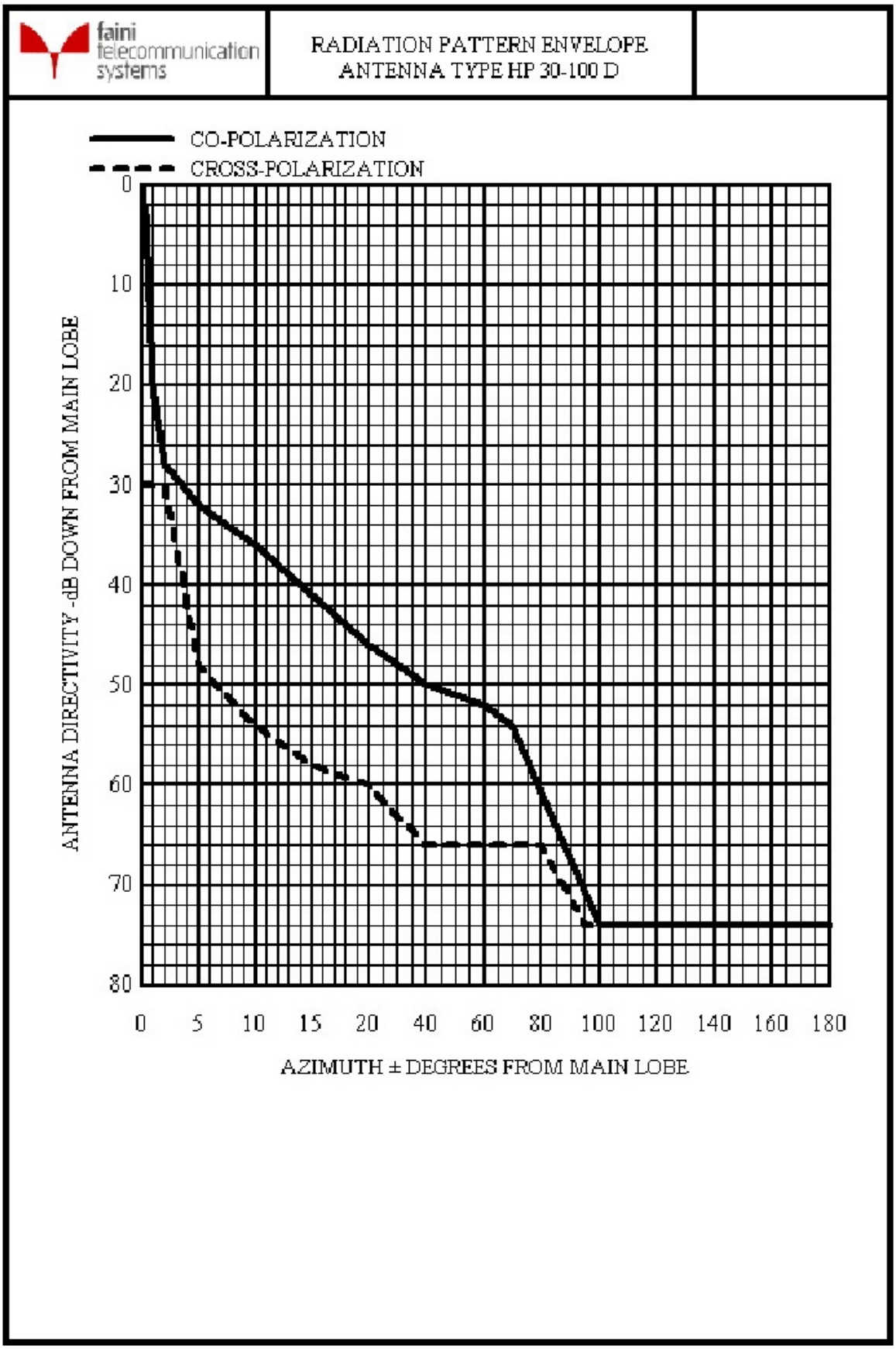
Maximum forces exerted on a supporting structure as a result of wind (survival rating) from the most critical direction for each parameter. These values may not occur simultaneously. All forces are referenced to the mounting pipe (diameter 115 mm)

Electrical Characteristics

Frequency range	10-10.7 GHz
Gain, low band	47.3 dBi
Gain, mid band	47.6 dBi
Gain, top band	47.9 dBi
Return Loss	30.7 dB
VSWR	1.06
HPBW	0.64°
Front to back ratio	74 dB
Isolation	40 dB
XPD	30 dB
Electrical Compliance	Class 3

Shipping Information

Gross weight	700 Kg
Height	3150 mm
Depth	2900 mm
Width	1800 mm


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telecommunication
systems
RADIATION PATTERN ENVELOPE
ANTENNA TYPE HP 30-100 D
CO-POLARIZATION
CROSS-POLARIZATION
ANTENNA DIRECTIVITY -dB DOWN FROM MAIN LOBE
0
10
20
30
40
50
60
70
80
0 5 10 15 20 40 60 80 100 120 140 160 180
AZIMUTH ± DEGREES FROM MAIN LOBE