

# 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

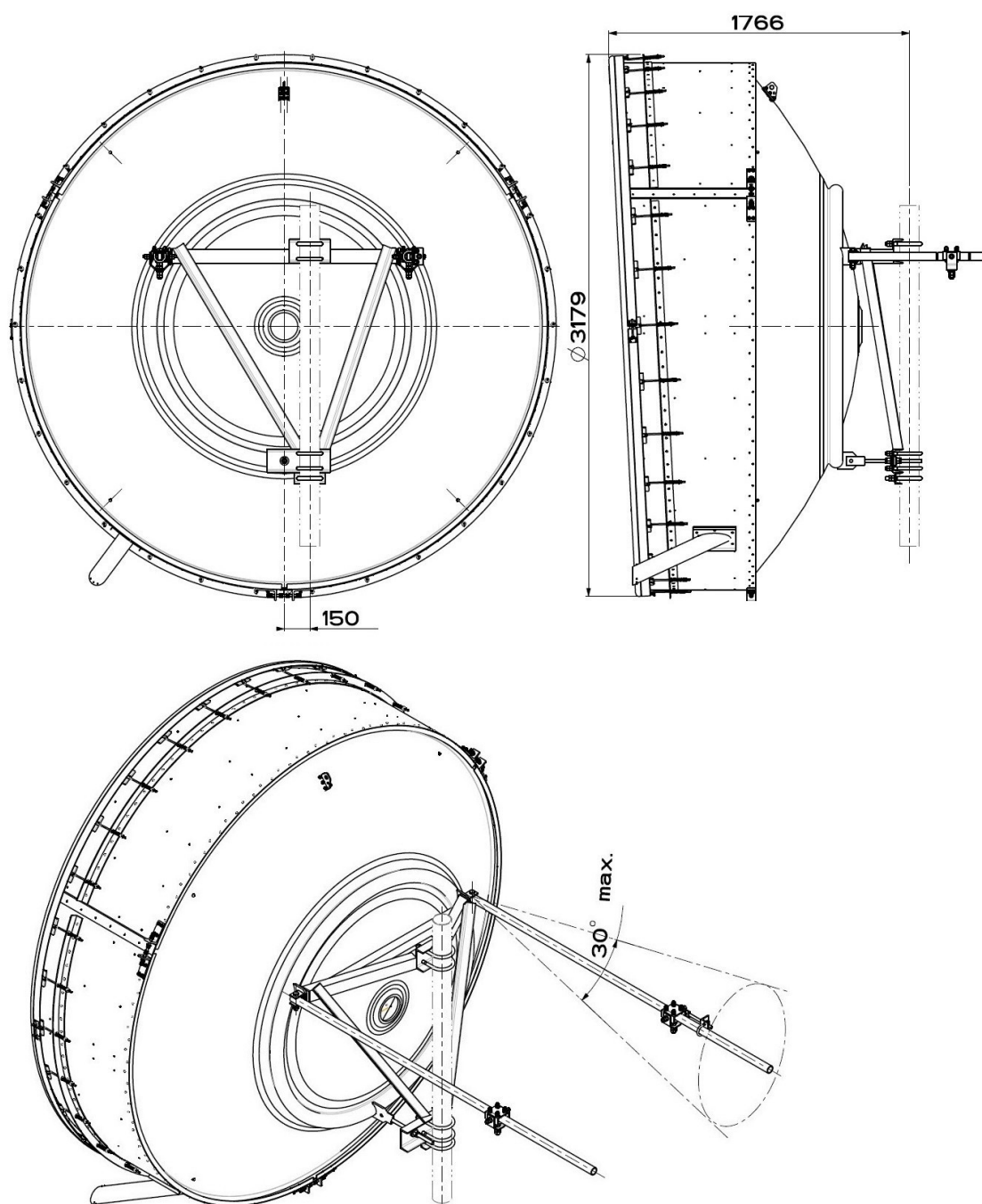
## Mechanical Characteristics

Pole	115 mm
Elevation-fine adjustment	$\pm 5^\circ$
Azimuth-fine adjustment	$\pm 5^\circ$
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

