Antenna HP 24-144 D

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General Specifications

Diameter	2.4 m
Standard Colour	RAL 7030
Shroud	Standard profile
Antenna Input	Interface for IEC waveguide R 140
Polarization	Dual

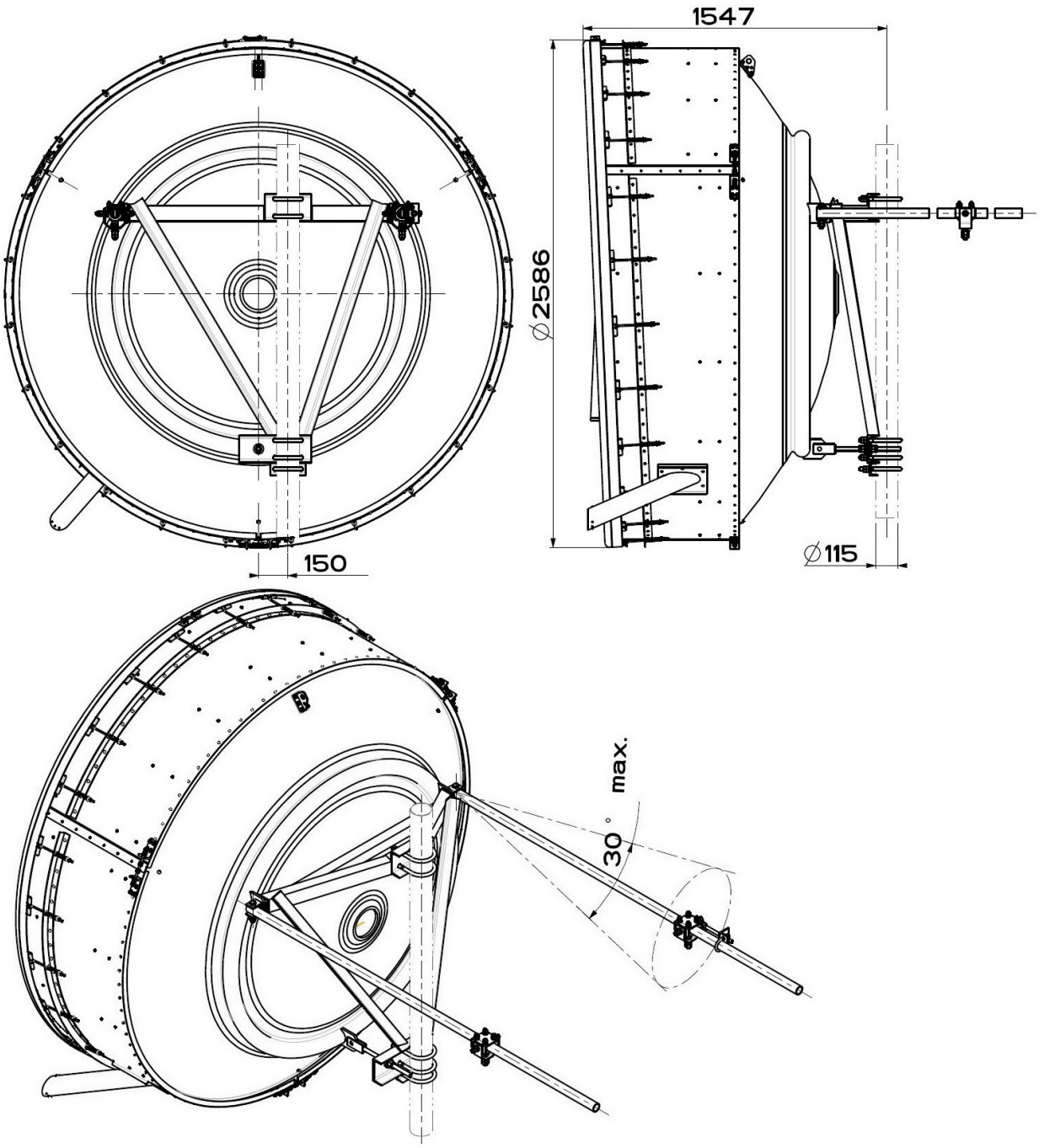
Mechanical Characteristics

Pole	115 mm
Elevation-fine adjustment	±5°
Azimuth-fine adjustment	±5°
Side struts, included	2
Side struts, optional	0
Net weight	250 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	2550 mm
Width	2550 mm
Depth	1560 mm



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

Axial force	12750 N
Side force	6315 N
Twisting Moment	5220 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 referred to the mounting pipe of 115 mm diameter.

Electrical Characteristics

Frequency range	12.7-13.25 GHz
Gain, low band	48.4 dBi
Gain, mid band	48.6 dBi
Gain, top band	48.8 dBi
Return Loss	30.7 dBi
VSWR	1.06
HPBW	0.6°
Front to back ratio	76 dB
Isolation	40 dB
XPD	30 dB
Electrical Compliance	Class 3

Shipping Information

Gross weight	500 Kg
Height	2850 mm
Depth	2500 mm
Width	970 mm

faini telecommunication systems	RADIATION PATTERN ENVELOPE ANTENNA TYPE HP 24-144 S	1120

