Antenna THP 12-245 DI



General Specifications

Diameter	1.2 m
Standard Colour	RAL 7035
Shroud	Low profile
Antenna Input	Interface for IEC waveguide R 220
Polarization	Dual

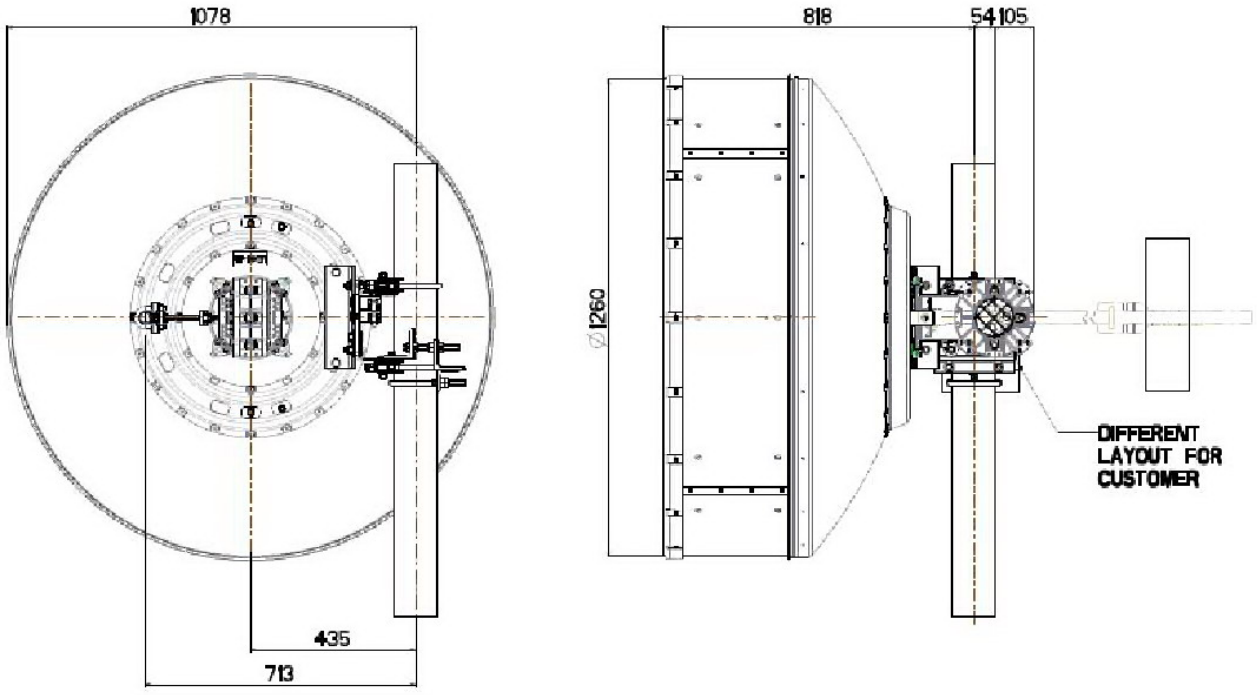
Mechanical Characteristics

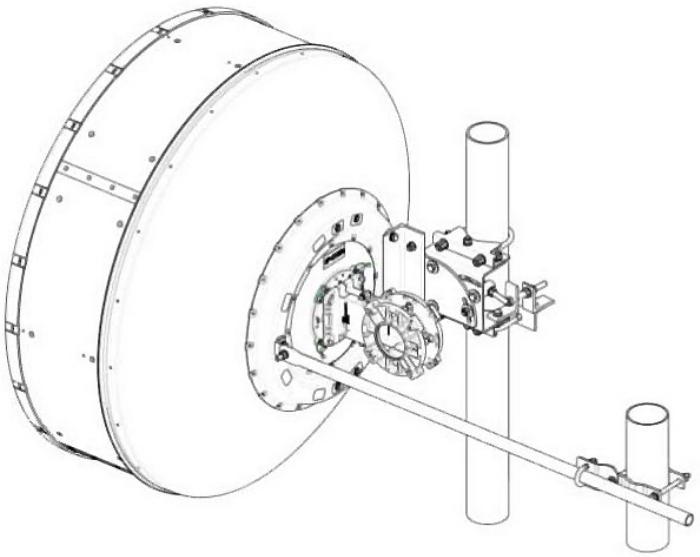
Pole	115 mm
Elevation-fine adjustment	+/- 15 deg
Azimuth-fine adjustment	+/- 10 deg
Side struts, included	1
Side struts, optional	0
Net weight	55 Kg
Radome	Rigid plastic
Wind velocity Operational	180 Km/h (200 Km/h with second additional side strut)
Wind velocity Survival	250 Km/h
Wind deflection	<0.3 times the -3 dB beam width
(with a wind velocity of 45 m/s)	Specified wind deflection applies for 115 mm dia mounting pipe only

Antenna Dimensions

(pole mount included)

Height	1260 mm
Width	1260 mm
Depth	808 mm





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

Axial force	5270 N
Side force	2610 N
Twisting Moment	2110 N?m

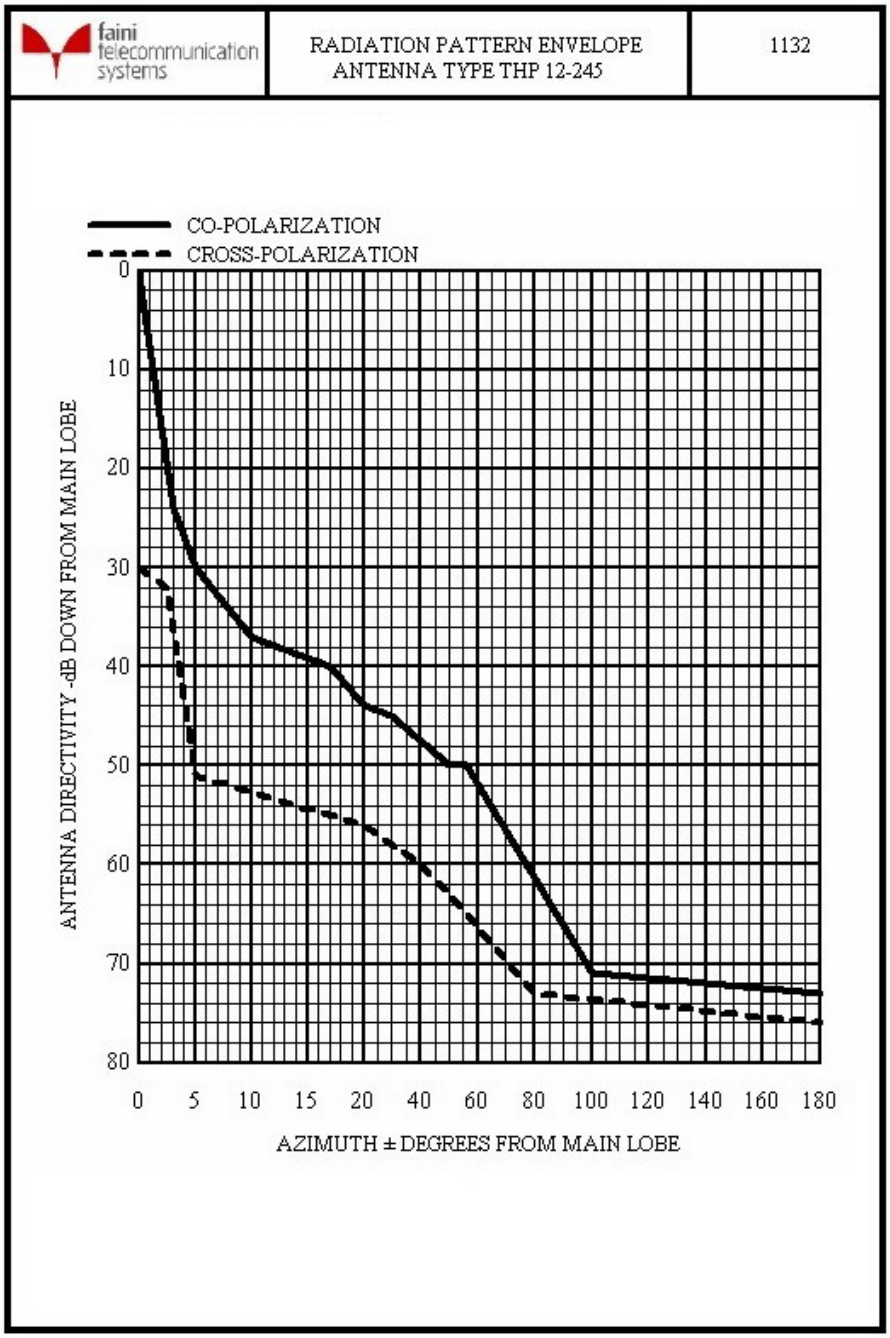
Maximum forces exerted on a supporting structure as a result of wind (survival rating) from the most criticaldirection for each parameter. These values may not occur simultaneously. All forces are refered to themounting pipe of 115 mm diameter.

Electrical Characteristics

Frequency range	24.25 - 26.5 GHz
Gain, low band	46.1 dBi
Gain, mid band	46.5 dBi
Gain, top band	47.0 dBi
Return Loss	17.7 dB
VSWR	1.3
HPBW	0.7°
Front to back ratio	73 dB
Isolation	35 dB
XPD	30 dB
Electrical Compliance	Class 3
	ETSI 302 217

Shipping Information

Gross weight	83 Kg
Height	1530 mm
Depth	480 mm
Width	1380 mm


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telecommunication
systems
RADIATION PATTERN ENVELOPE
ANTENNA TYPE THP 12-245
1132
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