General data of antenna system

TX station	EXAMPLE
Site name	TEST21
Site longitude (+ddd°pp'ss")	
Site latitude (+dd°pp'ss")	
Ground level a.s.l. (m)	100
Antenna system height a.g.l. (m)	50.0
Transmitter power (Watt)	10000.0
Carrier wave frequency (MHz)	180.00
Antenna system central frequency (MHz)	200.00
Filename of antenna base diagrams type 1	LABEL_BKK2-H.ANT
Filename of antenna base diagrams type 2	
Antenna system polarization (H, V, C)	H
Transmitting cable attenuation (dB)	0.5
Additional attenuations (dB)	0.5
Base diagrams sectors (A = all, F = front)	A
Velocity factor of cables to antennas (0÷1)	0.88
Coordinate system (C = cartesian, P = polar)	P
Mast side/diameter (cm):	200.0
Mast cross section (Triangular, Square, Circular)	S
Mast rotation w.r.t. North (°)	0
Project picture filename (*.bmp)	

Information about antennas used in the project

Antenna of type 1

Manufacturer	LABEL ITALY
Antenna model	BKK/2 - PANEL VHF WB
Band start (MHz)	174
Band stop (MHz)	225
Diagrams frequency (MHz)	200
Polariz. (H, V, C)	H
Vertical dist. (cm)	130
Height (cm)	125
Width (cm)	85
Thickness (cm)	40
Weight (Kg)	25
Maximum power (KW)	5
Gain (dBd)	8
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	-22
R.C. phase (°)	0

TX station: EXAMPLE Site name: TEST21

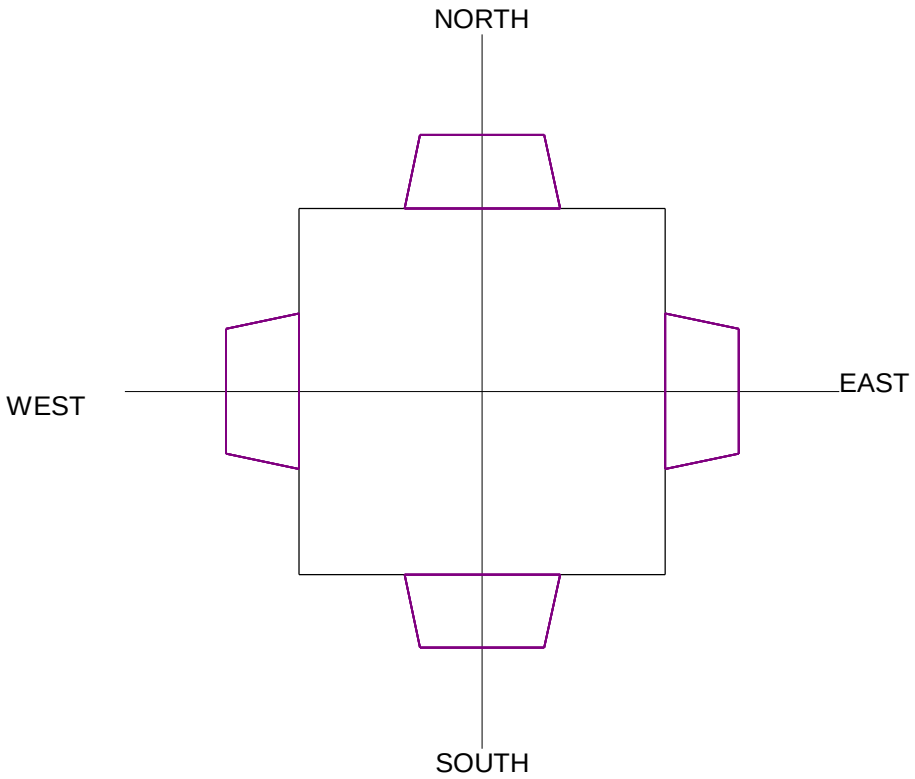
Geometr. and electrical data of antenna system

	Power (%)	*Tilt (°)*	*Az. (°/N)*	*Phase (°)*	*V dist. (m)*	*Scr-D (cm)*	*Scr-Az (°/N)*	*Rot. (1÷4)*	*Type (1÷2)*	*L cables (cm)*	*Car. phase (°)*
1	6.250	0	0	0 + 0	0.00	100.0	0.0	1	1	0.0	0.0
2	6.250	0	90	0 + 0	0.00	100.0	90.0	1	1	0.0	0.0
3	6.250	0	180	0 + 0	0.00	100.0	180.0	1	1	0.0	0.0
4	6.250	0	270	0 + 0	0.00	100.0	270.0	1	1	0.0	0.0
5	6.250	0	0	0 + 0	1.50	100.0	0.0	1	1	0.0	0.0
6	6.250	0	90	0 + 0	1.50	100.0	90.0	1	1	0.0	0.0
7	6.250	0	180	0 + 0	1.50	100.0	180.0	1	1	0.0	0.0
8	6.250	0	270	0 + 0	1.50	100.0	270.0	1	1	0.0	0.0
9	6.250	0	0	0 + 0	3.00	100.0	0.0	1	1	0.0	0.0
10	6.250	0	90	0 + 0	3.00	100.0	90.0	1	1	0.0	0.0
11	6.250	0	180	0 + 0	3.00	100.0	180.0	1	1	0.0	0.0
12	6.250	0	270	0 + 0	3.00	100.0	270.0	1	1	0.0	0.0
13	6.250	0	0	0 + 0	4.50	100.0	0.0	1	1	0.0	0.0
14	6.250	0	90	0 + 0	4.50	100.0	90.0	1	1	0.0	0.0
15	6.250	0	180	0 + 0	4.50	100.0	180.0	1	1	0.0	0.0
16	6.250	0	270	0 + 0	4.50	100.0	270.0	1	1	0.0	0.0

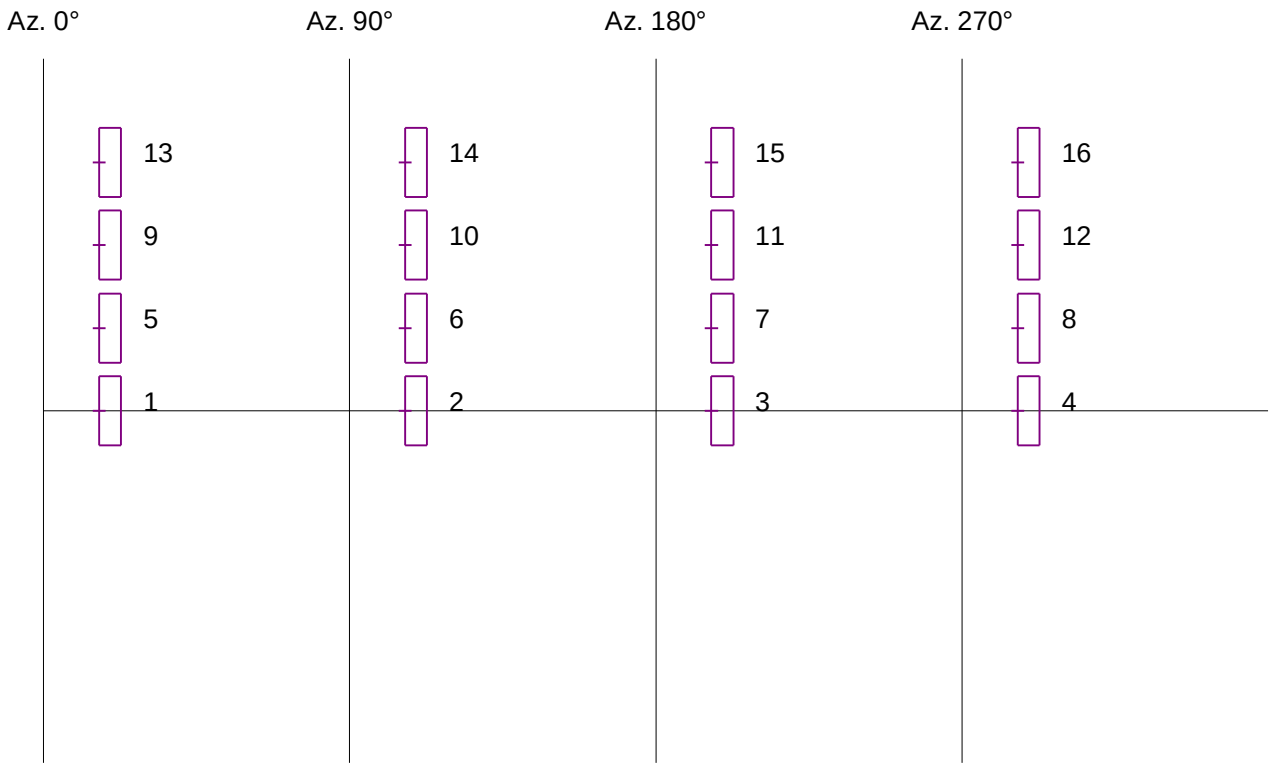
TX station: EXAMPLE

Site name: TEST21

Plan of antenna system



Side of antenna system



TX station: EXAMPLE Site name: TEST21

Frequency: 180.00 MHz

Antennas arrays data

A. Antennas array azimuth (°/N)	0	90	180	270
B. Number of antennas	4	4	4	4
C. Nominal power supply (W)	2500.00	2500.00	2500.00	2500.00
D. Losses (addit. + cables) (dB)	1.0	1.0	1.0	1.0
E. Effective power supply (W)	1985.82	1985.82	1985.82	1985.82
F. Theor. maximum gain (dBd)	14.02	14.02	14.02	14.02
G. Distribution losses (dB)	0.00	0.00	0.00	0.00
H. Nominal max gain [F - G] (dBd)	14.02	14.02	14.02	14.02
I. Compensation losses (dB)	0.00	0.00	0.00	0.00
J. Effec. max gain [H - I] (dBd)	14.02	14.02	14.02	14.02
K. Effec. max gain (times)	25.24	25.24	25.24	25.24
L. Effec. max power [E * K] (KW)	50.1187	50.1187	50.1187	50.1187
M. Max power depr. angle (°)	0.0	0.0	0.0	0.0

Diagram in dBK calculated at horizon

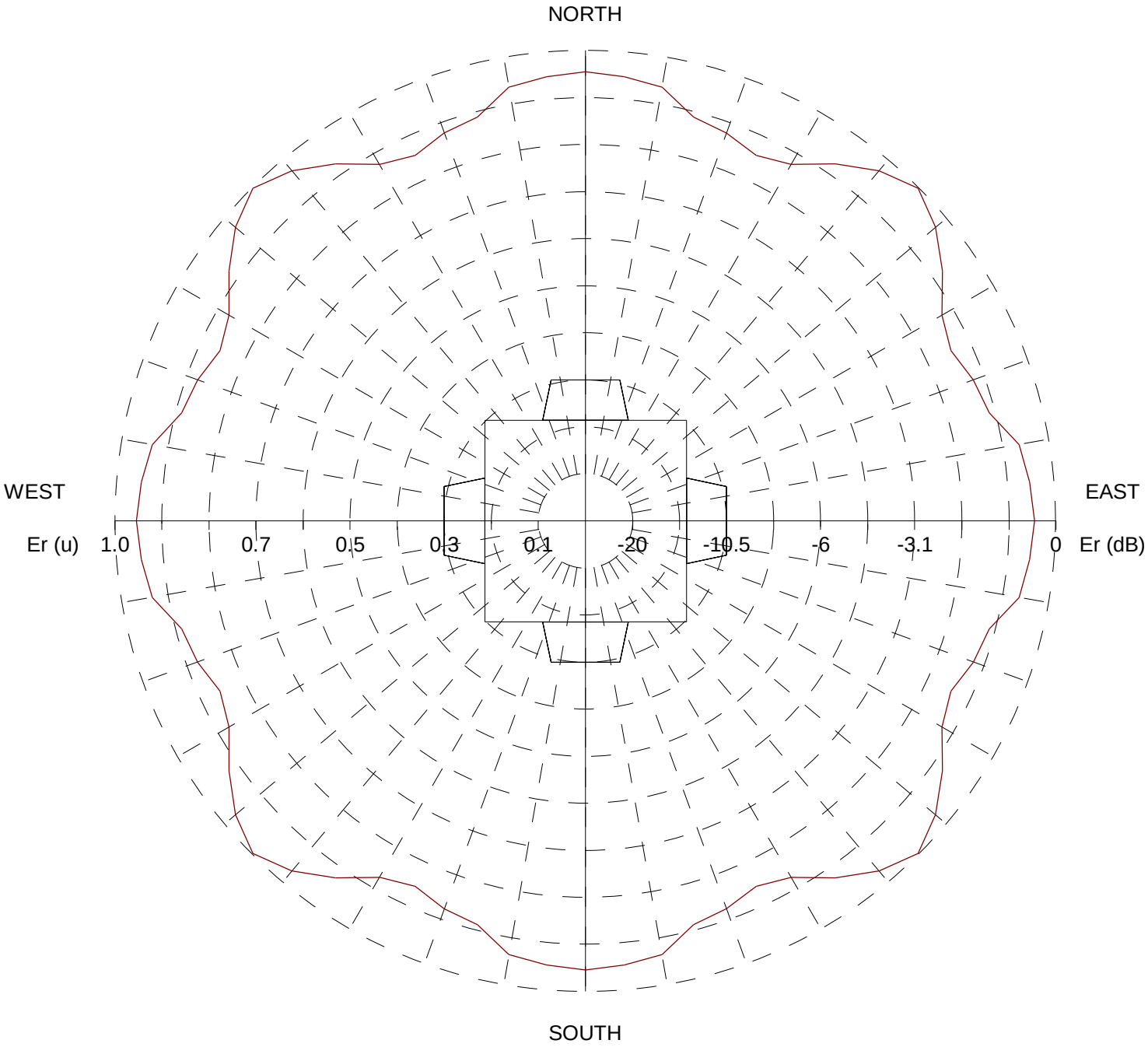
Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	15.9	90	15.9	180	15.9	270	15.9
10	15.7	100	15.7	190	15.7	280	15.7
20	15.2	110	15.2	200	15.2	290	15.2
30	15.1	120	15.1	210	15.1	300	15.1
40	16.0	130	16.0	220	16.0	310	16.0
50	16.0	140	16.0	230	16.0	320	16.0
60	15.1	150	15.1	240	15.1	330	15.1
70	15.2	160	15.2	250	15.2	340	15.2
80	15.7	170	15.7	260	15.7	350	15.7

TX station: EXAMPLE

Site name: TEST21

Frequency: 180.00 MHz

Horizontal diagram



0.0° depres. (Total antenna), Gain (dBd): 7.3 ERP T.max (KW): 53.594 ERP E.max (KW): 42.571

TX station: EXAMPLE

Site name: TEST21

Frequency: 180.00 MHz