

Building Biology (BauBiologie) Part A

Guidelines for Fields, Waves & Radiation in Sleeping Areas

Relevance

	NO ANOMALY	WEAK ANOMALY	STRONG ANOMALY	EXTREME ANOMALY
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AC Electric Fields (ELF)

Field strength in volt per meter	V/m	< 1	1 - 5	5 - 50	> 50
Body voltage in millivolt	mV	< 10	10 - 100	100 - 1000	> 1000

AC Magnetic Fields (ELF)

Flux density in nanotesla	nT	< 20	20 - 100	100 - 500	> 500
Flux density in milliGauss	mG	< 0.2	0.2 - 1	1 - 5	> 5

RF Radiofrequency Fields - Power Density

Pulsed	μW/m ²	< 0.1	0.1 - 5	5 - 100	> 100
Unpulsed	μW/m ²	< 1	1 - 50	50 - 1,000	> 1,000

Static Electric Fields (DC) / Air Electricity

Surface potential in volt	V	< 100	100 - 500	500 - 2000	> 2000
Discharge time in seconds	sec	< 10	10 - 20	20 - 30	> 30

Small air ions per cubic cm air	/cm ³	> 500	200 - 500	100 - 200	< 100
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Static Magnetic Fields (DC)

Deviation of flux density in microtesla	μT	< 1	1 - 2	2 - 10	> 10
in milliGauss	mG	< 10	10 - 20	20 - 100	> 100
Deviation of compass needle in degree	°	< 2	2 - 10	10 - 100	> 100

Radioactivity (Gamma Radiation and Radon)

Increase of equivalent dose rate	%	< 50	50 - 70	70 - 100	> 100
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Radon in becquerel per cubic meter	Bq/m ³	< 20	20 - 50	50 - 200	> 200
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DC Geomagnetic Field

Disturbance of geomagnetic field	nT	< 100	100 - 200	200 - 1,000	> 1,000
	mG	< 1	1 - 2	2 - 10	> 10
Disturbance of terrestrial radiation	%	< 10	10 - 20	20 - 50	> 50
