

Accredited method (see www.latak.gov.lv)

NOISE LEVEL MEASUREMENTS ON SITE, Indoors and in territory

STANDARDS:

LVS ISO 1996 – 1: 2017 "Acoustics – environmental noise characterization, measurements and evaluation. Part 1: Basic values and assessment procedures";

LVS ISO 1996 – 2: 2018 "Acoustics. Environmental noise characterization, measurements and evaluation. Part 2: Determination of environmental noise levels."

CABINET RULES:

LR MK rules Nr.016 „Noise evaluation and management procedure of territory and buildings”.

Measured parameters:

$L_{Aeq,T}$, L_{Amax} A-weighted, equivalent continuous sound pressure level (dB(A)).

Evaluable parameters (in accordance with LR MK rules):

L_{dvn} – 24-hour noise index, which characterizes total discomfort created by environmental noise

L_{diena} – day noise index, which characterizes discomfort created in daytime


L_{vakars} – evening noise index, which characterizes discomfort created in the evening

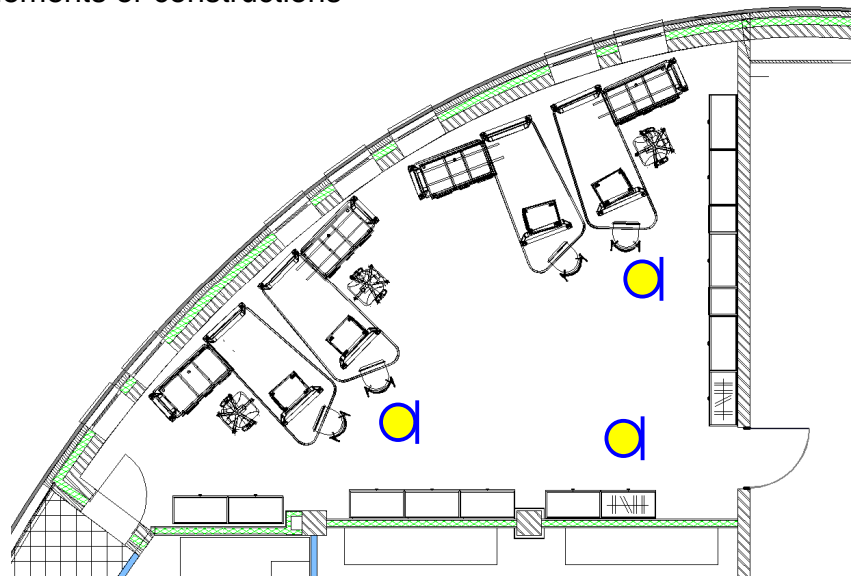
L_{nakts} – night noise index, which characterizes sleep disturbances created by noise

$L_{A,eq,60}$ – hour noise index, which characterizes noise created in one hour time (L_{stunda})

LR MK rules limit noise threshold values for different areas, residential and public buildings. In case those limits are exceeded, anti-noise measures must be planned and executed to limit noise source activities, or additional noise insulation elements, screening or absorbing elements or constructions must be made.

*Measurement situation
example in office area*

 Measuring microphone positions



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(Measurement result example (report with accreditation mark)

1	2	3		4		5
Parametrs	Average value [dB]	Standard uncertainty, u_j [dB]		Weight coefficient value, c_j		Refference of standard [2]
$L + \delta_{slm}$	56,6	u_{slm}	0,5	c_L	1,38	Annex F
δ_{sou}	0	u_{sou}	0,53	c_{sou}	1,00	7.2 to 7.5 Annex D
δ_{met}	0	$u_{met,fav}$	2	$c_{met,fav}$	1,00	Clause 8, Annex A
δ_{loc}	0	u_{loc}	0	u_{loc}	1,00	Annex B,
$L_{res} + \delta_{res}$	51	u_{res}	2	c_{res}	-0,38	Annex F

Measurement situation examples in pictures:

