

Accredited field (see www.latak.lv)

LABORATORY MEASUREMENTS OF IMPACT NOISE REDUCTION
STANDARD LVS EN ISO 10140-3

Acoustics. Building element sound insulation measurements in laboratory. Part 3: impact sound insulation measurement

Measured parameters :

L_n – normalized impact noise level on heavy weight reference floor with overlay

L_{n0} – L_n for heavy weight reference floor (220mm hollow reinforced concrete panel)

$L_{i, Fmax}$ – normalized max impact noise level on light weight reference floor with overlay

$L_{i, Fmax, 0}$ – normalized max impact sound level for light reference floor

Calculable parameters (in accordance with LVS EN ISO 717-2 standard) :

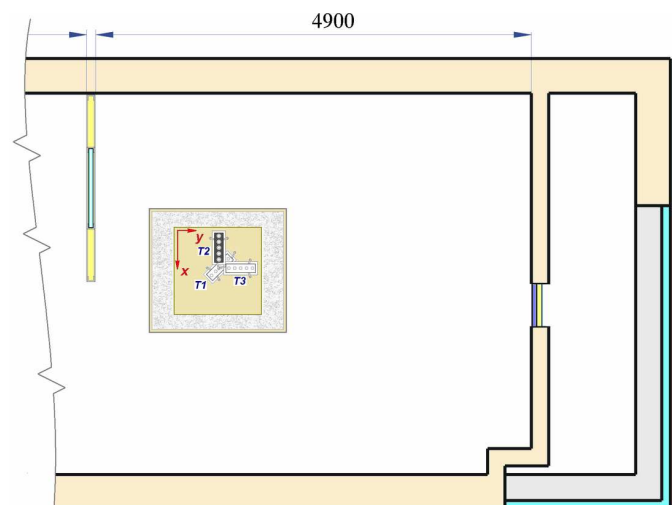
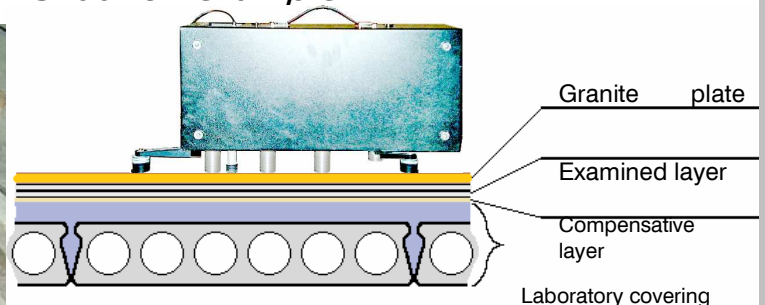
ΔL – impact sound level decrease for overlay of heavy weight floor

ΔL_r – impact noise decrease for overlay of light weight floor

$L_{n,w}$ – reduced impact noise level with sample in laboratory conditions

ΔL and ΔL_r parameters are used in floating floor advertising materials and used in calculations to prognosticate conformity of limiting L_n borderline values in construction standard LBN 016-11 “Building acoustics” for building coverings, floors between apartments, from stairs to apartment etc., where sound transfer to building structures is possible.

Measurement situation example



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Measurement result example (given in measurement report with LATAK logo)

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