

Accredited field (see [www.latak.lv](http://www.latak.lv))

IMPACT NOISE SOUND INSULATION MEASUREMENTS (in situ)

**STANDARD LVS EN ISO 16283-2:2018:**

*Acoustics Field measurement of sound insulation in buildings and of building elements.*

**Measured parameters :**

$L'n$  – Normalised impact noise level in operational conditions in  $\frac{1}{3}$  octave bands

$L'nT$  – Standardised impact noise level in operational conditions in  $\frac{1}{3}$  octave bands

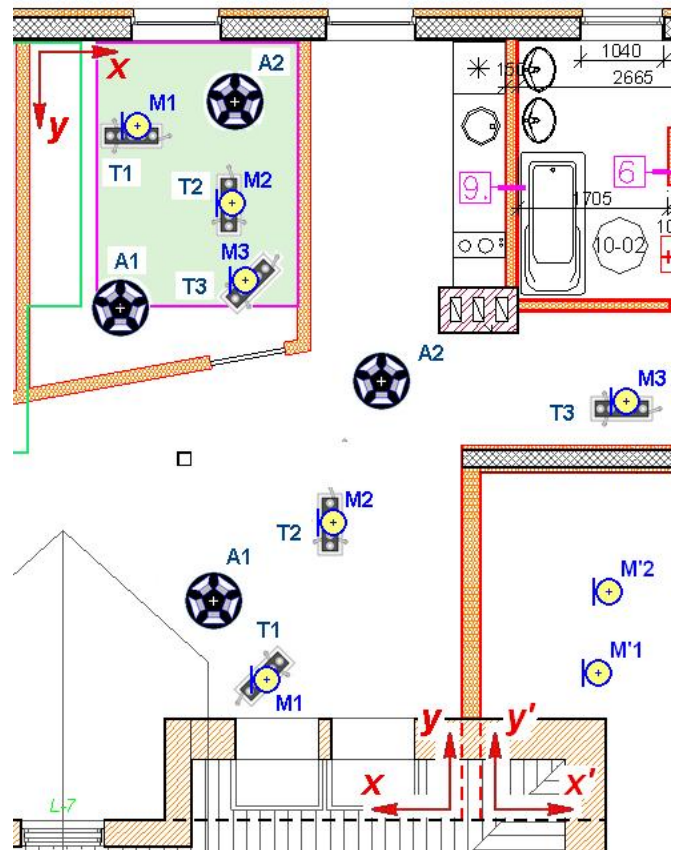
**Calculable parameters** ( in accordance with standard LVS EN ISO 717-2 ) :

$L'n,w$  – reduced impact noise level in operational conditions

$C_{l, 50-2500}$  – impact noise level spectral correction with expanded range up to 50 Hz

Construction standard LBN 016-11 „Building acoustics” limits parameter borderline values for enclosing constructions with sound transmission into structure (coverings, floors between apartments, from stairs to apartment etc.) for different building types (A,B,C and D). It is possible to evaluate construction conformity with requirements of specific building type using measured  $L'n,w$  and  $L'n,w+C_{l, 50-2500}$  values.

*Measurement situation example*



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(in situ)**

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

**LVS EN ISO 16283-2:2018 Acoustics Field measurement of sound insulation in buildings and of building elements**  
**Field measurements of impact sound insulation of floors**

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Client: \_\_\_\_\_ Date of test: ( \_\_\_\_\_ )

Description and identification of the building construction and test arrangement:

Parsegums starp 2. stava dzivokli Nr.6 un 1. stava dz.Nr.3  
 Primarais skanas lauks: Dziv. Nr.6 gulamistaba  
 Sekundarais skanas lauks: Dziv. Nr.3 gulamistaba  
 Koka delu grida + koka siju parsegums + gipskartona iekartie griesti

Receiving room volume V: 37.10 m<sup>3</sup>

| Frequency<br>f<br>Hz | L'n<br>1/3 Octave<br>dB |
|----------------------|-------------------------|
| 50                   | 60.2                    |
| 63                   | 64.4                    |
| 80                   | 61.1                    |
| 100                  | 59.2                    |
| 125                  | 61.5                    |
| 160                  | 62.3                    |
| 200                  | 60.6                    |
| 250                  | 59.2                    |
| 315                  | 54.4                    |
| 400                  | 53.0                    |
| 500                  | 55.1                    |
| 630                  | 53.9                    |
| 800                  | 51.5                    |
| 1000                 | 48.1                    |
| 1250                 | 48.8                    |
| 1600                 | 44.7                    |
| 2000                 | 41.5                    |
| 2500                 | 41.2                    |
| 3150                 | 37.1                    |
| 4000                 | 32.3                    |
| 5000                 | 29.9                    |

----- Frequency range according to the  
 \_\_\_\_\_ curve of reference values (ISO 717-2)

Rating according to ISO 717-2

$L'_{n,w} (C_i) = 54 ( 0) \text{ dB}$        $C_{i,50-2500} = 2 \text{ dB}$

Evaluation based on field measurement results obtained in one-third-octave bands by an engineering method

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No. of test report: N      Name of test institute: Acoustics laboratory T-282

Date: \_\_\_\_\_      Signature: \_\_\_\_\_