Limited liability company
R&D AKUSTIKA

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

IMPACT NOISE SOUND INSULATION MEASUREMENTS (in situ)

STANDARD LVS EN ISO 16283-2:2020:

Acoustics Field measurement of sound insulation in buildings and of building elements (ISO 16283-2:2020).

Measured parameters :

L'n – Normalised impact noise level in operational conditions in ⅓ octave bands

L'nT – Standardised impact noise level in operational conditions in ⅓ octave bands

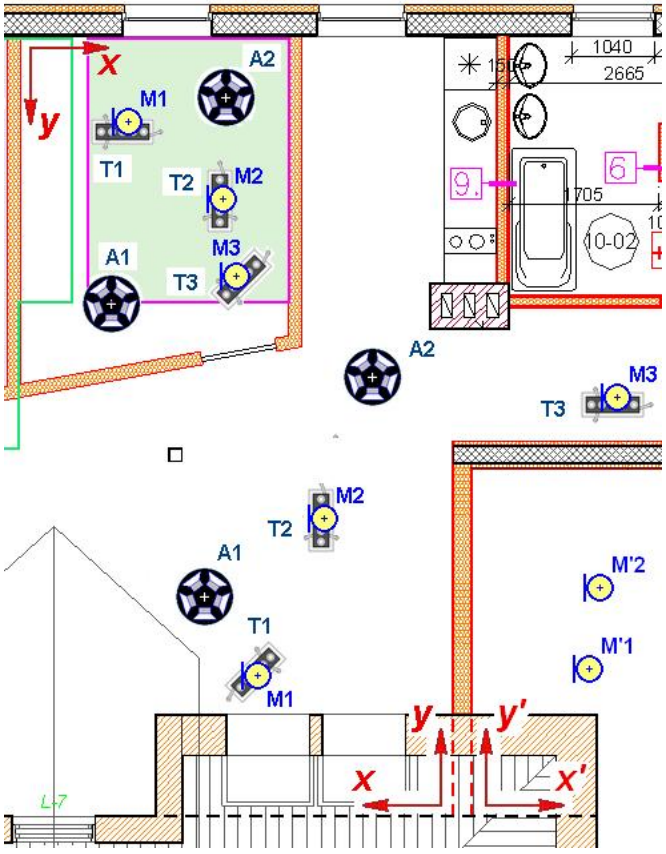
Calculable parameters (in accordance with standard LVS EN ISO 717-2:2021) ***:***

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

C I, 50-2500 – impact noise level spectral correction with expanded range up to 50 Hz

Construction legal act LBN 016-15 „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*** I, 50-2500 values.

Measurement situation example



Kr. Valdemara 157, LV - 1013, RIGA, REPUBLIC OF LATVIA, Registration No.: LV 40103100457, tel.+371 67815008
mob.t.. +371 29217605, E-mail: rd.akustika@apollo.lv, http://www.akustika.lv/rdindex_lv.html

IMPACT NOISE SOUND INSULATION MEASUREMENTS (in situ)

Measurement result example (report with accreditation mark)

LVS EN ISO 16283-2:2020 Acoustics Field measurement of sound insulation in buildings and of building elements
Field measurements of impact sound insulation of floors

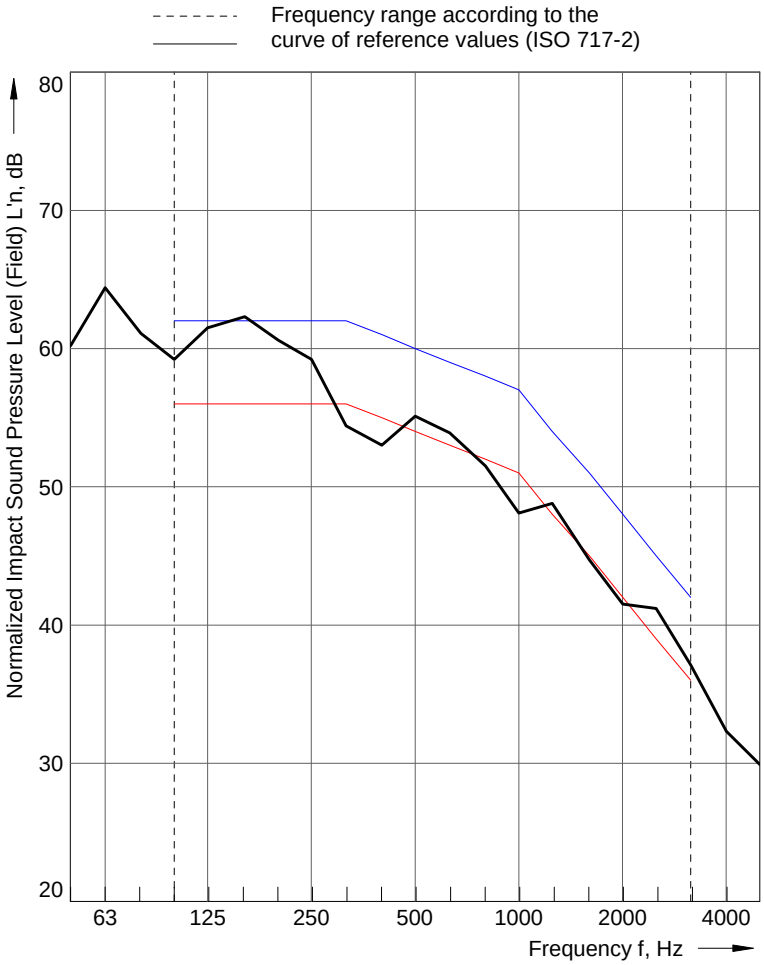
Client: Date of test: (

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 m³

Frequency f Hz	L'n 1/3 Octave 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



Rating according to ISO 717-2 : 2021

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

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

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

Date: Signature: