

Reduction of impact sound pressure level according to DIN EN ISO 10140-1,2,3,4,5:2021-09Annex TS - ΔL_w

Laboratory measurement of the reduction of transmitted impact sound by floor coverings on a reference floor

Evaluation according DIN EN ISO 717-2:2021-05

Measurement uncertainty according DIN EN ISO 12999-1:2021-04

Date of test: 18.01.2023

Construction: self leveling screed Knauf FE 50 Largo (78mm, bonding time 5 days)
(from top to bottom) PE-film
SONO-Eco 12 mm

Test floor: 14 cm concrete slab floor (4,27 m x 4,45 m) with an area-related mass $m' \approx 322 \text{ kg/m}^2$ (no ceiling)

Remarks: The sample area does not fulfill the requirements for categorie II according ISO 10140.

The Test was performed on just one tapping machine position.

Installation: by the testing institute

Receiving room:

Volume: 53,6 m³

Sending room:

Volume: 52,1 m³

Air temperature: 16,6 °C

Relative air humidity: 54,3 %

Boundary conditions:

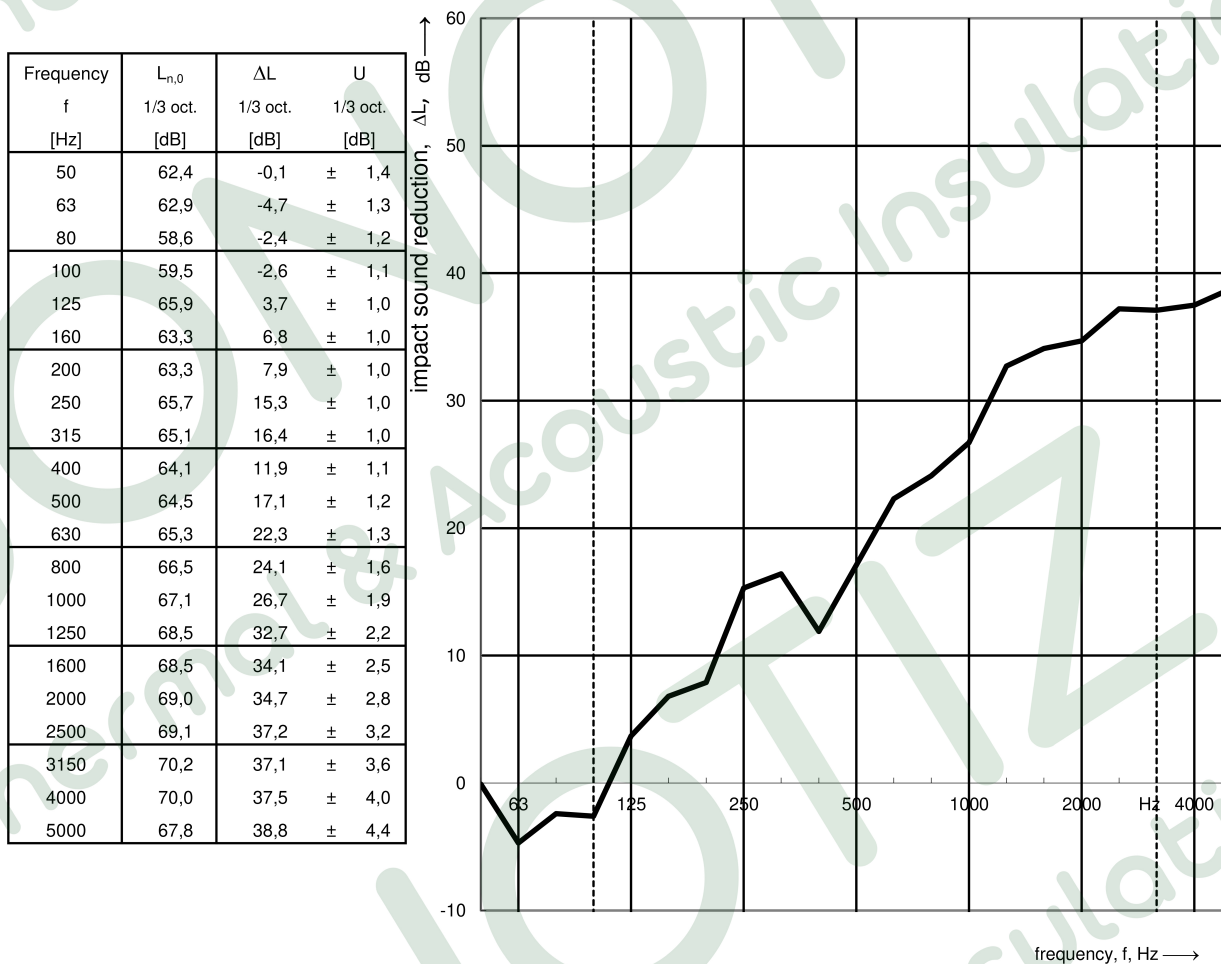
Tapping Machine positions: 1

Microphone positions: 4

Category / sample area: II / $\sim 1,0 \text{ m}^2$

Type of reference floor: heavyweight reference floor

----- Frequency range for rating according to DIN EN ISO 717-2:2021-05



Evaluation according DIN EN ISO 717-2:2021-05

$\Delta L_w = 23 \text{ dB}$ $C_{l,\Delta} = -13 \text{ dB}$

$\Delta L_{in} = 10 \text{ dB}$ $C_{l,r} = 2 \text{ dB}$

Measurement uncertainty according DIN EN ISO 12999-1:2021-04

$\Delta L_w = (23,1 \pm 1,1) \text{ dB}$ ($k = 1$, two-sided)

These results are based on a test performed with an artificial source under laboratory conditions (engineering method) with the specified reference floor.

Test report no.: A-2022-367-01

