

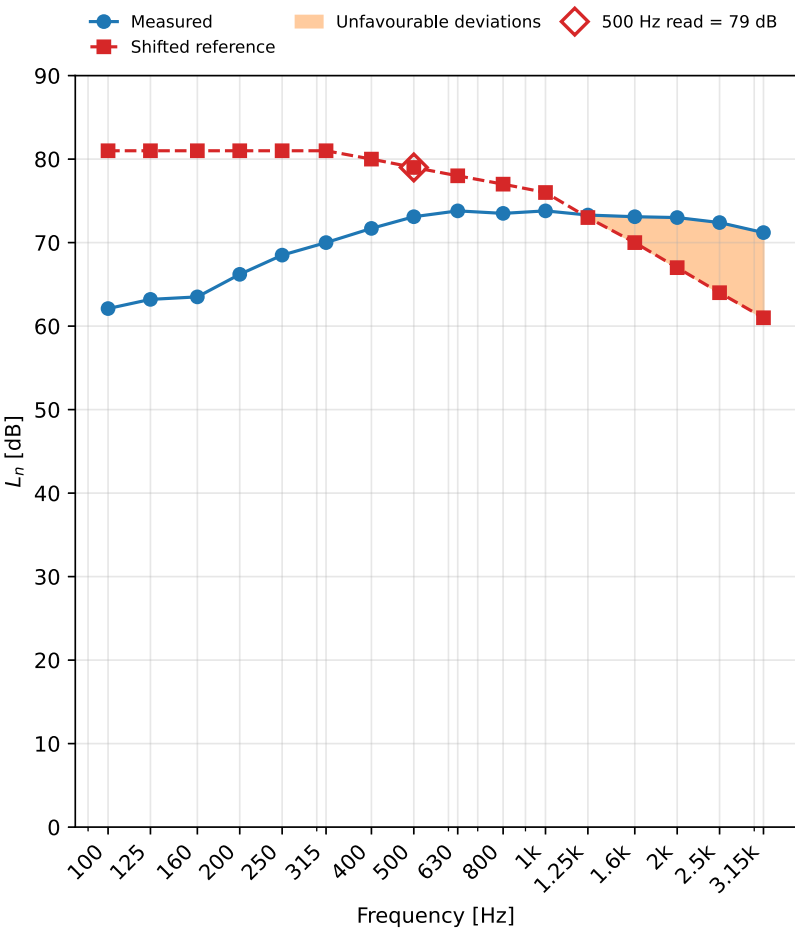
# Laboratory impact sound insulation of floors

Normalized impact sound pressure level  $L_n$  measured in accordance with ISO 10140-3:2010 using the tapping machine. Rating per ISO 717-2:2020.

|                                          |                                              |                                          |                                            |
|------------------------------------------|----------------------------------------------|------------------------------------------|--------------------------------------------|
| Client:                                  | Example client                               | Sample area $S$ [m <sup>2</sup> ]:       | 10                                         |
| Description:                             | 140 mm concrete slab, bare (reference floor) | Test room:                               | Transmission suite (example)               |
| Date of test:                            | 2026-07-18                                   | Receiving room volume [m <sup>3</sup> ]: | 50                                         |
| Receiving room temp. [°C]:               | 20.6                                         | Receiving room humidity [%]:             | 45                                         |
| Mass per unit area [kg/m <sup>2</sup> ]: | 336                                          | Mounting:                                | Bare slab, no floor covering (ISO 10140-1) |

One-third-octave  $L_n$  [dB]

| Frequency $f$ [Hz] | $L_n$ [dB] |
|--------------------|------------|
| 100                | 62.1       |
| 125                | 63.2       |
| 160                | 63.5       |
| 200                | 66.2       |
| 250                | 68.5       |
| 315                | 70.0       |
| 400                | 71.7       |
| 500                | 73.1       |
| 630                | 73.8       |
| 800                | 73.5       |
| 1000               | 73.8       |
| 1250               | 73.3       |
| 1600               | 73.1       |
| 2000               | 73.0       |
| 2500               | 72.4       |
| 3150               | 71.2       |



$L_{n,w} (C_I) = 79 (-11) \text{ dB}$

Evaluation based on laboratory measurement results obtained by a precision method with the standard tapping machine.

Result vs requirement:  $L_{n,w} = 79 \text{ dB}$ , required  $\leq 80 \text{ dB}$  → **PASS**

**Laboratory:** Phonometry reference example

**Report no.:** EXAMPLE-10140-3

**Date:** 2026-07-18

Operator: phonometry Signature: \_\_\_\_\_

■ The results relate only to the tested specimen.

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