
Determination of the impact sound reduction

Laboratory:

EVA-International, Steenkaai 32, B-8000 Bruges

References:

The measurements were carried out in the spirit of ISO 16251-1: 2014. The determination of the weighted impact sound reduction was calculated according to ISO 717-2: 2013.

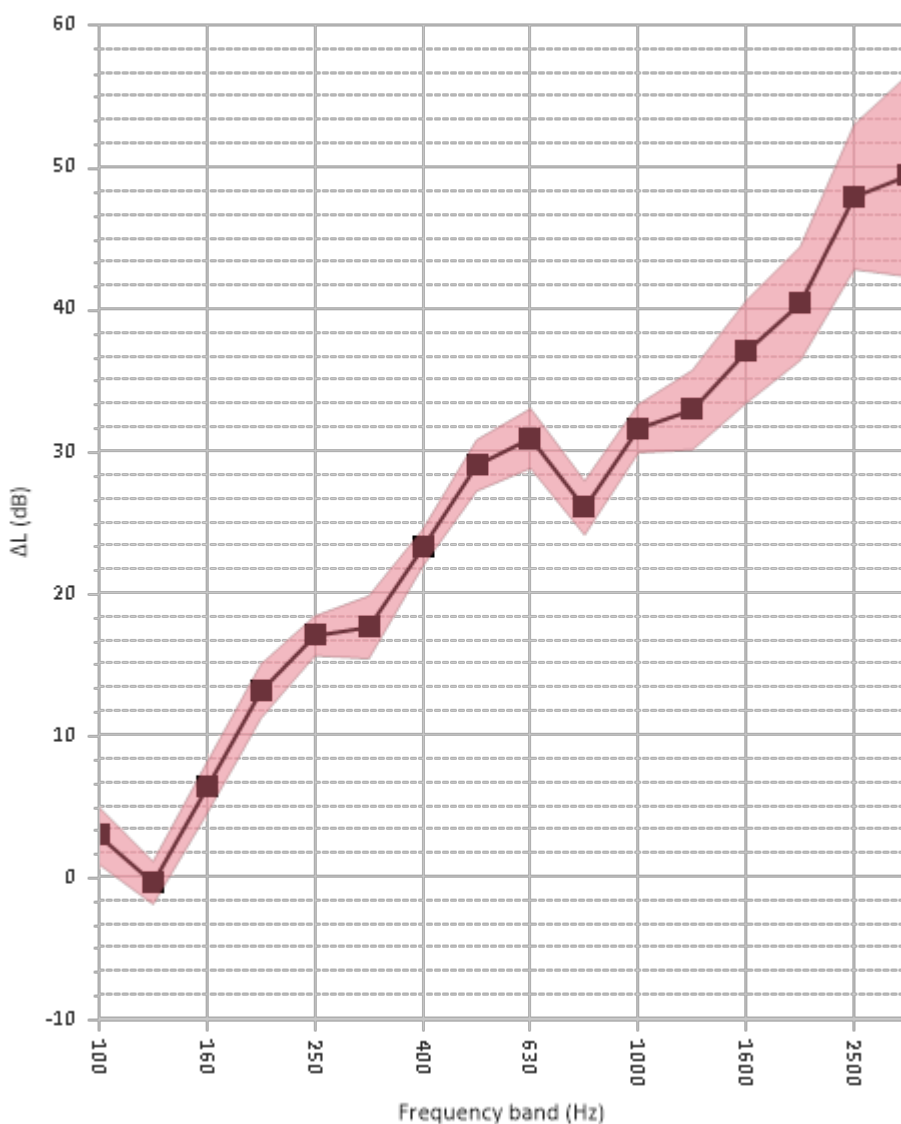
Used measuring equipment:

Measuring system	SINUS Messtechnik Soundbook (06150)
Accelerometers	Monitran MTN/1010 (368053) Monitran MTN/1010 (368056) Monitran MTN/1010 (368057) Monitran MTN/1010 (393201)
Calibrator	MMF VC10 (005037)
Tapping machine	Tapping machine type 211 (15306)

Test report

Impact sound reduction

Date of the measurement: 19/05/2022
Operator: Bart Van de Velde
Client:
Name: Acoustic Silence 825
Compression layer: Beton (100 kg)



f (Hz)	L (dB)	3 x r (dB)
100	2.9	± 2.0
125	-0.4	± 1.5
160	6.3	± 1.8
200	13.1	± 1.9
250	17.0	± 1.4
315	17.6	± 2.2
400	23.2	± 1.3
500	29.0	± 1.8
630	30.9	± 2.1
800	26.0	± 1.9
1000	31.6	± 1.7
1250	32.9	± 2.8
1600	37.0	± 3.6
2000	40.4	± 4.0
2500	47.9	± 5.1
3150	49.4	± 7.1

$L_W = 25 (\pm 1.5) \text{ dB}$

$C_1 = -13 \text{ dB}$

$L_{in} = 12 \text{ dB}$

The uncertainty was determined for the repeatability of the measurement set-up. The reliability level is 99%.