
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: 15/12/2020
Operator: Bart Van de Velde
Client:
Name: ScanUnderlay Acoustic Silence 1050 5 mm
Compression layer: Beton (100 kg)



f (Hz)	L (dB)	3 x r (dB)
100	0.0	± 2.0
125	-2.5	± 1.5
160	-0.6	± 1.8
200	5.2	± 1.9
250	13.7	± 1.4
315	14.2	± 2.2
400	20.1	± 1.3
500	23.2	± 1.8
630	27.2	± 2.1
800	23.1	± 1.9
1000	29.8	± 1.7
1250	28.9	± 2.8
1600	33.2	± 3.6
2000	36.0	± 4.0
2500	38.7	± 5.1
3150	40.5	± 7.1

$L_W = 20 (\pm 1.5) \text{ dB}$

$C_i = -12 \text{ dB}$

$L_{lin} = 8 \text{ dB}$

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