

Reduction of impact sound pressure level according to ISO 10140-3

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

Client: Jacobsen Vcreative Surfaces Ltd.

Date of test: 25 October 2017

Test rooms: Reverberation Chambers A and B

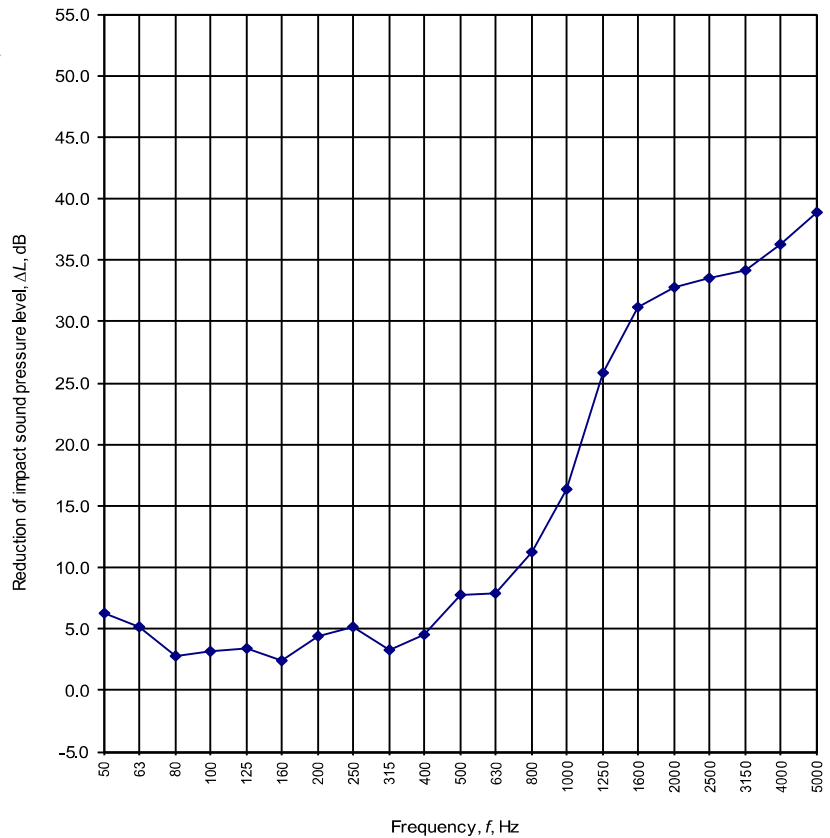
Description and identification of the test specimen and test arrangement: -

Flooring: 5 mm Decotile LVT Vinyl flooring
Flooring adhesive: Uzin KE 2000S adhesive
Underlay: 4.5 mm Regupol 4515 Rubber/Cork mix underlay
Underlay Adhesive: Uzin KE 2000S adhesive
 Concrete Slab

Source chamber was Chamber A and receiving chamber was Chamber B. Test specimen installed by the client. Curing times: 20hrs
 Deviation from standard: The bare test floor used is of uniform thickness for an area of only 2.6m x 2.6m. The description of the bare test floor is given in the full report.

Air temp in the test rooms: 19 °C
 Air humidity in test rooms: 52 %
 Receiving room volume: 153 m³

Frequency <i>f</i> Hz	$L_{n,0}$ One-third octave dB	ΔL One-third octave dB
50	54.4	6.3
63	50.0	5.2
80	56.8	2.8
100	63.7	3.2
125	65.8	3.4
160	66.1	2.4
200	68.7	4.4
250	72.1	5.2
315	71.3	3.3
400	69.9	4.5
500	74.2	7.8
630	72.0	7.9
800	71.2	11.2
1000	71.3	16.3
1250	71.3	25.8
1600	71.1	31.2
2000	72.0	32.8
2500	72.5	33.5
3150	72.6	34.1
4000	71.1	36.3
5000	68.2	38.9



Notes: #NA = Value not available. **Bold** values are used to calculate ΔL_w .
 < indicates that the true value is lower.
 $L_{n,0}$ are the bare floor impact sound levels.

Rating according to ISO 717-2:

 $\Delta L_w = 18$ dB $C_{1,\Delta} = 10$ dB $C_{1,r} = -1$ dB $C_{1,50-2500} = -1$ dB

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

No. of test report: T1741-1

Name of test institute: University of Auckland Acoustics Testing Service.

Date: 30-October-2017

Signature: