

## Improvement of impact insulation according to ISO 10140-3

Laboratory measurement of the reduction of transmitted impact noise by floor coverings on a heavy standard floor

Client: ScanUnderlay  
 Manufacturer: ScanUnderlay  
 Installation: EPH

Product identification: Variant-1  
 Test room identification: Schalllabor 2 (OG)/Schalllabor 1 (EG)  
 Date of test: 1 August 2017

Description of the specimen/test set-up:  
 (top down)

LVT Flooring moduleo Select click 1316 x 191 x 4.5 mm  
 (measured thickness: 4.4 mm);  
 Underlayment Acoustic Silence 1.2 mm LVT / Grip  
 (loosely laid; thickness: 1.2 mm);  
 Reinforced concrete floor (thickness: 140 mm)

Area-related mass [kg/m<sup>2</sup>]:

-

Curing time:

-

Temperature [°C]:

24.0

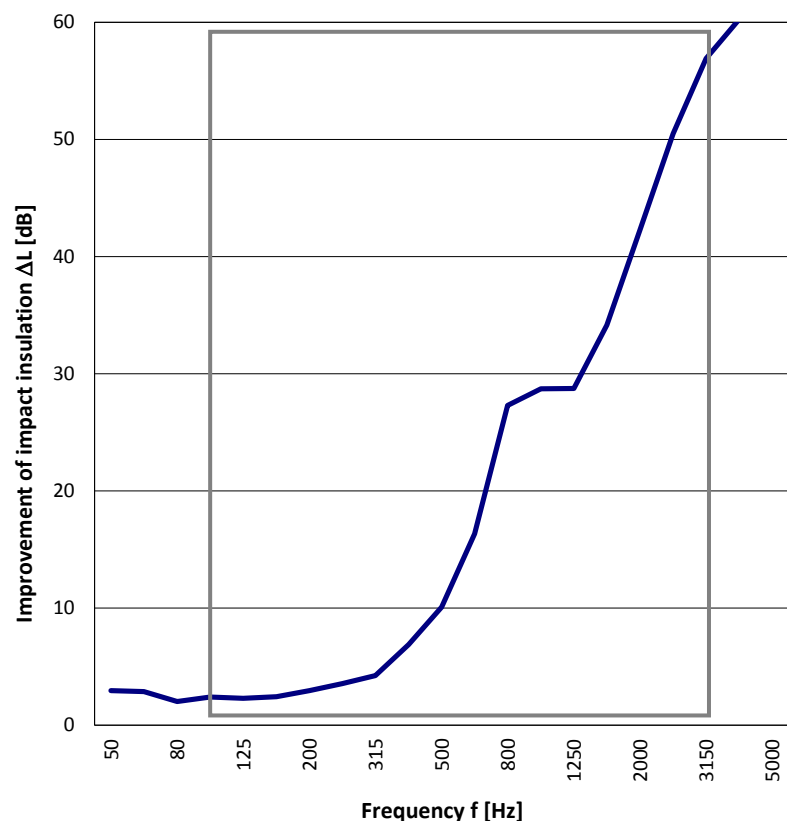
Relative Humidity [%]:

47.5

Volume of receiving room: [m<sup>3</sup>]:

76.9

Frequency [Hz]	$L_{n,0}$ 1/3 oct. [dB]	$\Delta L$ 1/3 oct. [dB]
50	54.1	3.0
63	61.7	2.9
80	61.1	2.0
100	57.3	2.4
125	63.9	2.3
160	63.8	2.4
200	68.7	2.9
250	69.4	3.6
315	73.2	4.2
400	72.1	6.9
500	72.8	10.1
630	75.6	16.4
800	77.4	27.3
1000	78.7	28.7
1250	77.3	28.8
1600	78.0	34.2
2000	77.3	42.2
2500	77.6	50.5
3150	76.5	56.9
4000	74.9	60.3
5000	72.3	60.5



Frequency range for the  
 rating according to ISO 717-2



Rating according to ISO 717-2:

$$\Delta L_w = 19 \text{ dB}$$

$$L_{n,w} = 59 \text{ dB}$$

$$L_{n,0,w} = 78 \text{ dB}$$

$$C_{l,\Delta} = -11 \text{ dB}$$

$$C_{l,r} = 0 \text{ dB}$$

$$C_l = 0 \text{ dB}$$

These results are based on tests made with an artificial source under laboratory conditions  
 (third-octave band measurements).

Name of the testing institut: Entwicklungs- und Prüflabor Holztechnologie GmbH  
 No. test report/variant: 2617089/Variant-1

Date: 15 August 2017

Signature: Hauswald

