Reduction of impact sound pressure level according to ISO 10140

Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor

Manufacturer: Gerflor

Product identification: Gerflor Ac plus 19dB+Creation 40 Clic

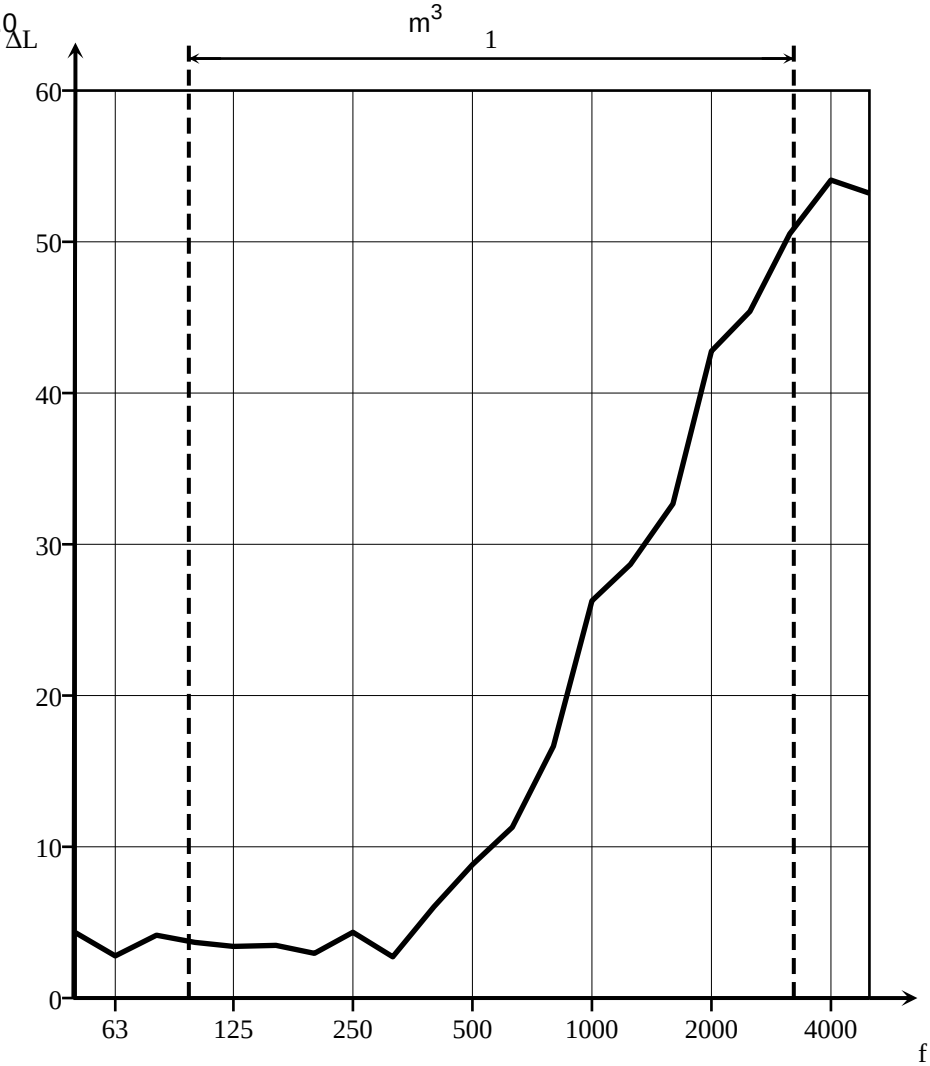
Test room identification: Emission-pose libre

Test specimen mounted by: O. ROUX

Description of test specimen:

Test specimen area:	1.0	m^2
Base floor thickness:	140.0	mm
Air temperature in test rooms:	21.5	°C
Air humidity in test rooms:	45.0	%
Atmospheric pressure:	0.101	MPa
Receiving room volume:	52.0	m^3

Frequency f Hz	$L_{n,0}$ 1/3 octave dB	ΔL 1/3 octave dB
50	53.7	4.3
63	56.2	2.8
80	60.9	4.2
100	62.2	3.7
125	59.7	3.4
160	66.6	3.5
200	66.8	3.0
250	66.8	4.3
315	68.3	2.7
400	71.1	6.0
500	70.6	8.8
630	71.7	11.3
800	72.6	16.6
1000	75.3	26.3
1250	77.2	28.7
1600	77.3	32.7
2000	77.7	42.8
2500	77.9	45.4
3150	79.5	50.5
4000	78.7	54.1*
5000	76.1	53.2*



Legend:

f: Frequency (Hz)

ΔL: Reduction of impact sound pressure level (dB)

1: Frequency range according to the curve of reference values (ISO 717-2)

Rating according to ISO 717-2:

ΔL_w = 19 dB $C_{I,\Delta}$ = -11 dB $C_{I,r}$ = 0 dB

These results are based on test made with artificial source under laboratory conditions (engineering method).

Name of test institute: LEC GERFLOR

Date: 2026-03-20

Signature: