

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 Smart Fix 16dB+Creation 40

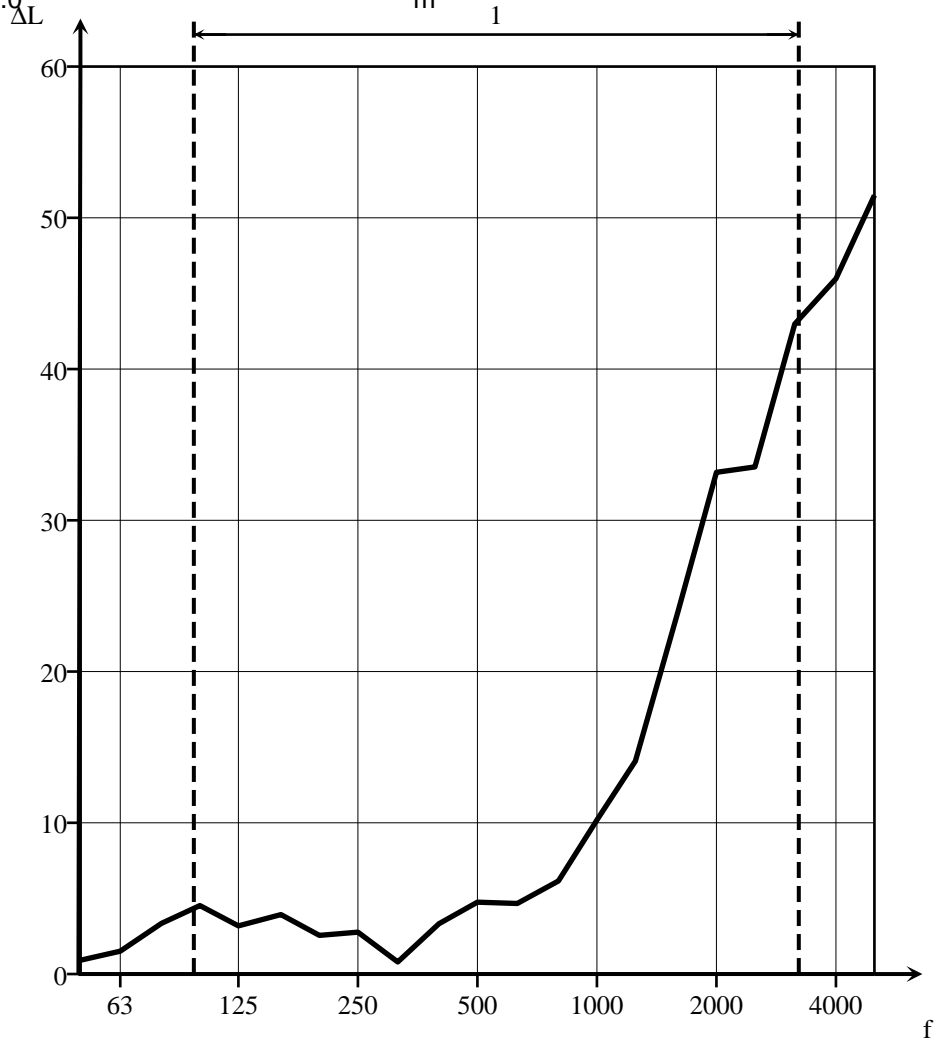
Test room identification: Emission-pose libre

Test specimen mounted by: O. ROUX

Description of test specimen:

Test specimen area: 1.0 m²
 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 m³

Frequency <i>f</i> Hz	$L_{n,0}$ 1/3 octave dB	ΔL 1/3 octave dB
50	52.6	0.9
63	54.7	1.5
80	61.9	3.3
100	64.3	4.5
125	60.3	3.2
160	67.4	3.9
200	67.5	2.6
250	66.6	2.8
315	68.2	0.8
400	71.3	3.3
500	70.8	4.8
630	71.9	4.7
800	72.5	6.2
1000	75.4	10.2
1250	77.0	14.1
1600	77.7	24.0
2000	77.9	33.2
2500	78.2	33.5
3150	80.0	43.0
4000	79.3	46.0
5000	77.1	51.5*



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:

$$\Delta L_w = 16 \text{ dB}$$

$$C_{l,\Delta} = -10 \text{ dB}$$

$$C_{l,r} = -1 \text{ dB}$$

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

Date: 2026-03-20

Name of test institute: LEC GERFLOR

Signature: