

## 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 15dB+Creation 40 Clic

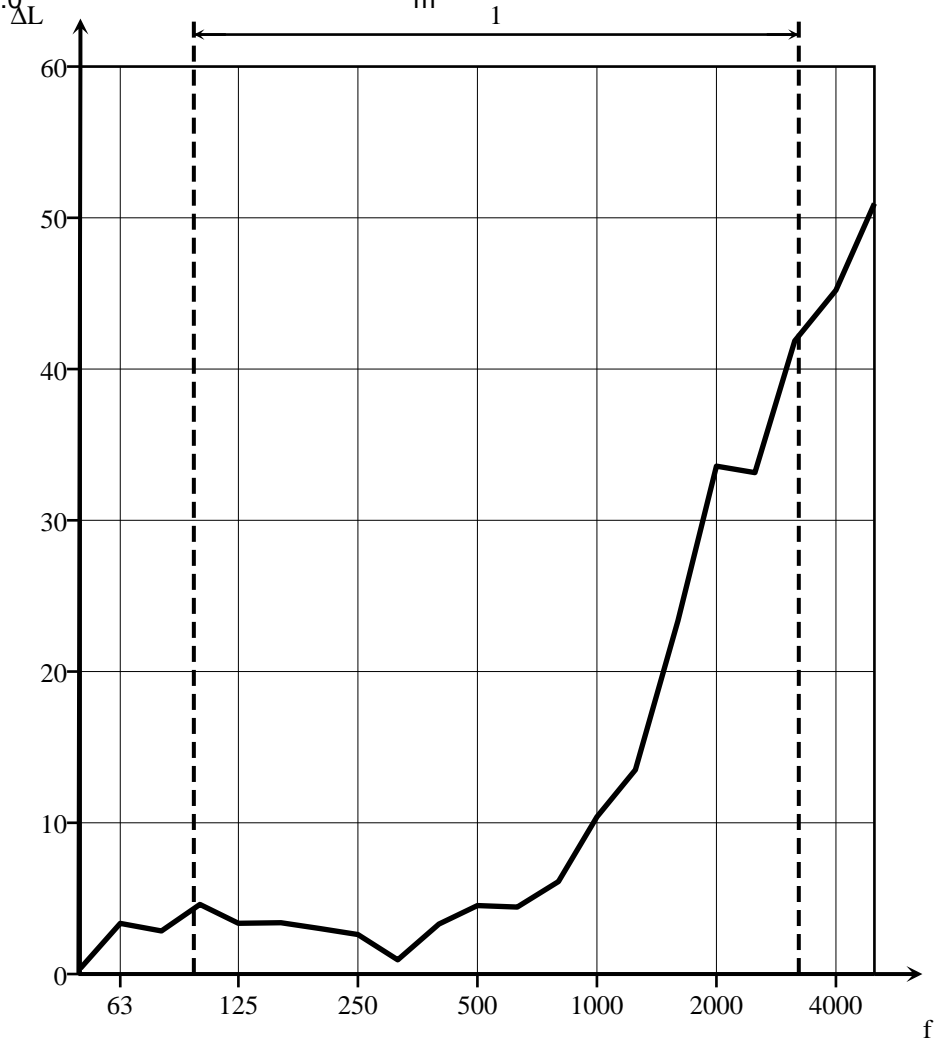
Test room identification: Emission-pose libre

Test specimen mounted by: O. ROUX

Description of test specimen:

Test specimen area: 1.0 m<sup>2</sup>  
 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<sup>3</sup>

| Frequency<br><i>f</i><br>Hz | $L_{n,0}$<br>1/3 octave<br>dB | $\Delta L$<br>1/3 octave<br>dB |
|-----------------------------|-------------------------------|--------------------------------|
| 50                          | 52.6                          | 0.4                            |
| 63                          | 54.7                          | 3.3                            |
| 80                          | 61.9                          | 2.8                            |
| 100                         | 64.3                          | 4.6                            |
| 125                         | 60.3                          | 3.4                            |
| 160                         | 67.4                          | 3.4                            |
| 200                         | 67.5                          | 3.0                            |
| 250                         | 66.6                          | 2.6                            |
| 315                         | 68.2                          | 0.9                            |
| 400                         | 71.3                          | 3.3                            |
| 500                         | 70.8                          | 4.5                            |
| 630                         | 71.9                          | 4.4                            |
| 800                         | 72.5                          | 6.1                            |
| 1000                        | 75.4                          | 10.4                           |
| 1250                        | 77.0                          | 13.5                           |
| 1600                        | 77.7                          | 23.4                           |
| 2000                        | 77.9                          | 33.6                           |
| 2500                        | 78.2                          | 33.2                           |
| 3150                        | 80.0                          | 41.9                           |
| 4000                        | 79.3                          | 45.2                           |
| 5000                        | 77.1                          | 50.9*                          |



Legend:

f: Frequency (Hz)

—  $\Delta L$ : 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:

$\Delta L_w = 15$  dB

$C_{l,\Delta} = -9$  dB

$C_{l,r} = -2$  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: