

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:

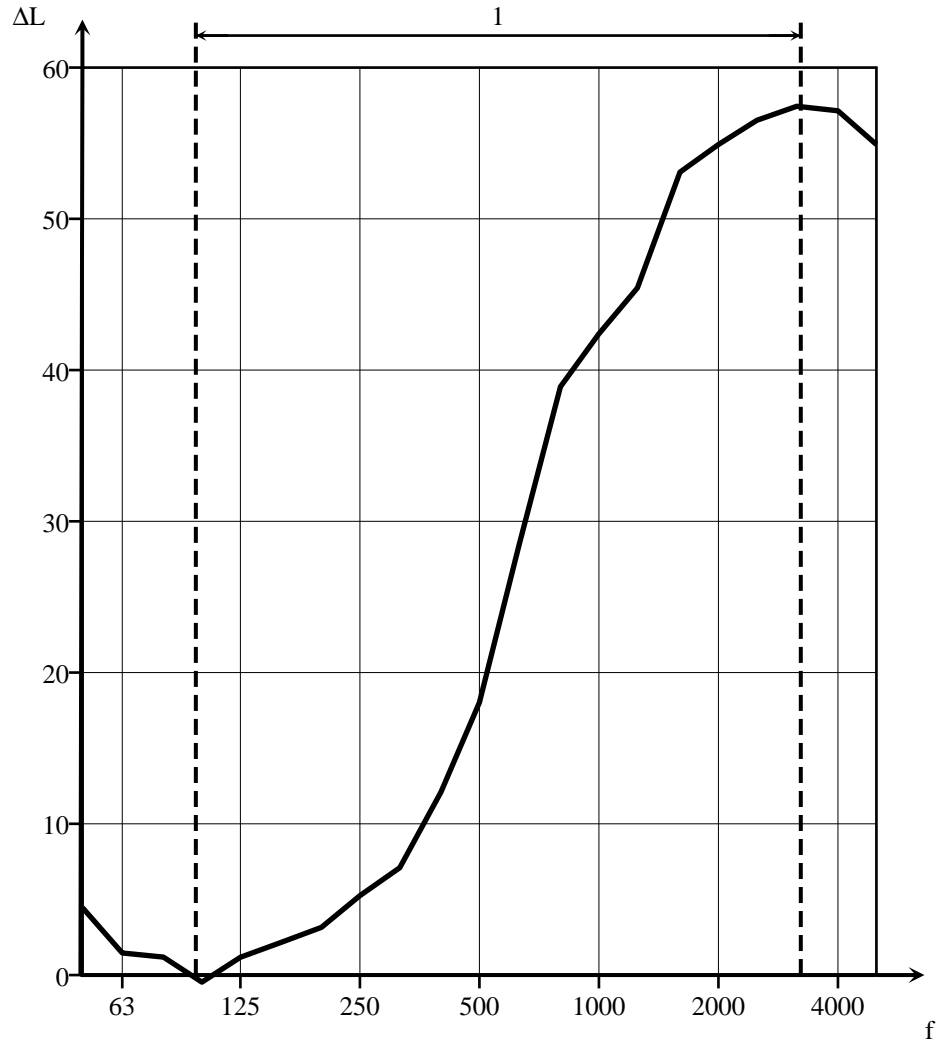
TARAFLEX PERFORMANCE DTX

Date of test: 2024-10-22

Description of test specimen:

Test specimen area:	1.0				
Mass per unit area:	/		m ²		
Air temperature in test rooms:	22.4		kg/m ²		
Air humidity in test rooms:	45.0		°C		
Thickness std floor:	14		%		
Receiving room volume:	52.0		cm		
			m ³		

Frequency <i>f</i> Hz	<i>L</i> _{n,0} one-third octave dB	ΔL one-third octave dB
50	56.4	4.5
63	58.2	1.5
80	58.5	1.2
100	60.3	-0.5
125	59.0	1.2
160	68.0	2.2
200	67.8	3.2
250	67.6	5.3
315	67.0	7.1
400	71.0	12.1
500	71.2	18.0
630	71.5	28.5
800	71.8	38.9
1000	74.4	42.4
1250	76.0	45.4
1600	77.1	53.1*
2000	78.2	54.9*
2500	77.9	56.5*
3150	79.3	57.4*
4000	78.8	57.1*
5000	77.0	54.9*



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:

$$\Delta L_w = 20 \text{ dB}$$

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

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

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

Name of test institute: Gerflor

Signature:

Corrected impact sound pressure levels, $L_{n,e}$, according to NF S31-074

Measurements of walking noise

Manufacturer: Gerflor

Product identification:

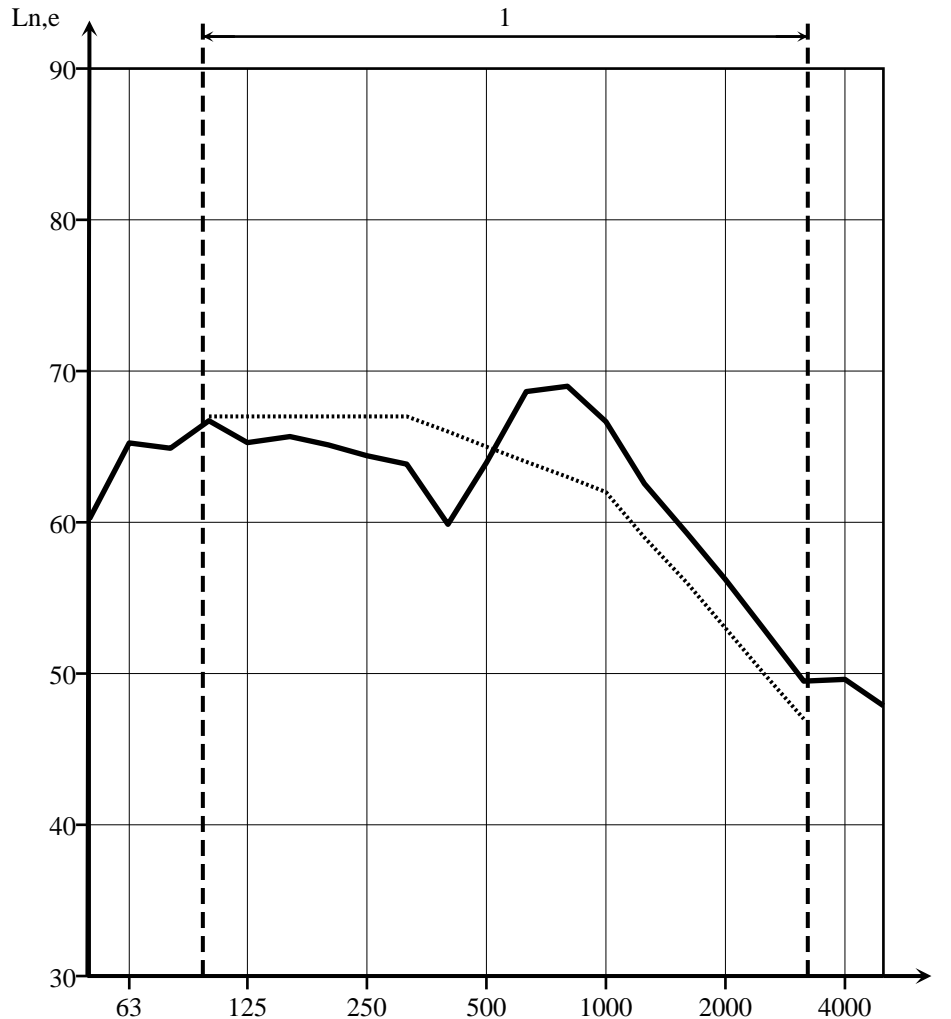
TARAFLEX PERFORMANCE DTX

Date of test: 2024-10-22

Description of test specimen:

Test specimen area: 1.0 m²
 Mass per unit area: / kg/m²
 Air temperature in test rooms: 22.4 °C
 Air humidity in test rooms: 45.0 %
 Thickness std floor: 14 cm
 Receiving room volume: 52.0 m³

f Hz	$L_{n,e}$ one-third octave dB
50	60.2
63	65.2
80	64.9
100	66.7
125	65.3
160	65.7
200	65.1
250	64.4
315	63.8
400	59.9
500	63.9
630	68.6
800	69.0
1000	66.7
1250	62.6
1600	59.3*
2000	56.2*
2500	52.9*
3150	49.5*
4000	49.6*
5000	47.9*



Legend:

f : Frequency (Hz)

— L_n : Normalized impact sound pressure level (dB)

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

Rating according to ISO 717-2:

$$L_{n,e,w}(C_1) = 65 (-3) \text{ dB}$$

Evaluation based on laboratory measurement results obtained by an engineering method.

Name of test institute: Gerflor

Signature: