

Reduction of impact sound pressure level according to ISO 10140

No. of test report: 15-208-M2
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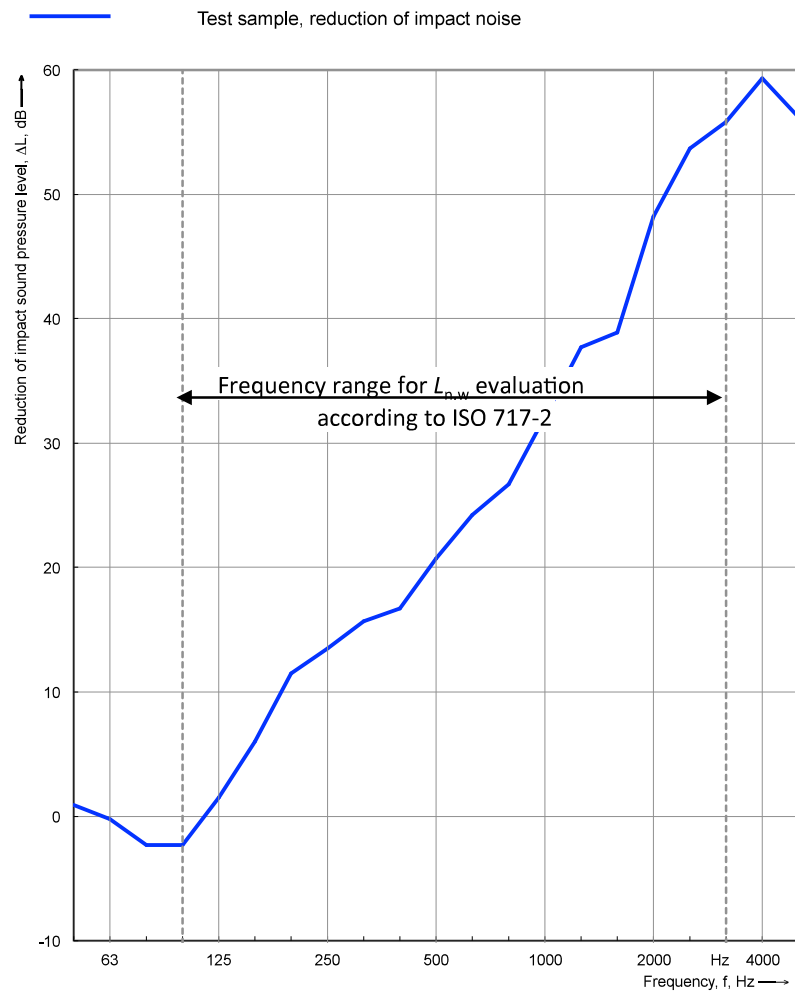
Laboratory measurements of the reduction of transmitted impact noise by floor coverings on a heavyweight standard floor

Client: Stig-Åke Ljungkvist AB
Manufacturer: Stig-Åke Ljungkvist AB
Test specimen mounted by: Stig-Åke Ljungkvist AB
Test room identification:
 Test room 3 to Test room 2
Product identification:
 Subfloor 60 Shore with 100 mm airgap. No absorption in airgap.

Description of the specimen:
 Upside and down: 22 floor chipboard, 45 mm wooden studs, 100 mm Subfloor screws with 60 Shore feet (feet fastened to concrete with double-sided tape).

Mass per unit area: 15,3 kg/m²
Curing time: 3600 s
Barometric pressure: 101,0 kPa
Temperature - source room: 15,0 °C
 - receiving room: 15,0 °C
Air humidity - source room: 75 %
 - receiving room: 75 %
Source room volume: 105 m³
Receiving room volume: 123,0 m³

Frequency f [Hz]	L _{n,0} 1/3 octave [dB]	ΔL 1/3 octave [dB]
50	52,4	0,9
63	59,1	-0,2
80	61,4	-2,3
100	62,4	-2,3
125	60,9	1,5
160	61,4	6,0
200	66,2	11,5
250	64,4	13,5
315	64,5	15,7
400	64,6	16,7
500	64,1	20,7
630	63,9	24,2
800	65,7	26,7
1000	67,5	32,1
1250	68,2	37,7
1600	69,8	38,9
2000	70,6	48,2
2500	70,7	53,7
3150	70,7	55,8
4000	69,2	59,3
5000	66,4	56,2



Rating according to ISO 717-2

$\Delta L_w = 24$ dB

$C_{1,s} = -14$ dB

$C_{1,r} = 3$ dB

These results are based on test made with an artificial source under laboratory conditions obtained in one-third-octave bands by an engineering method.