

## Reduction of impact sound pressure level according to ISO 10140

No. of test report: 19-148-M42  
Date of report: 2021-01-19  
Date of test: 2020-05-07  
Name: Pontus Thorsson

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

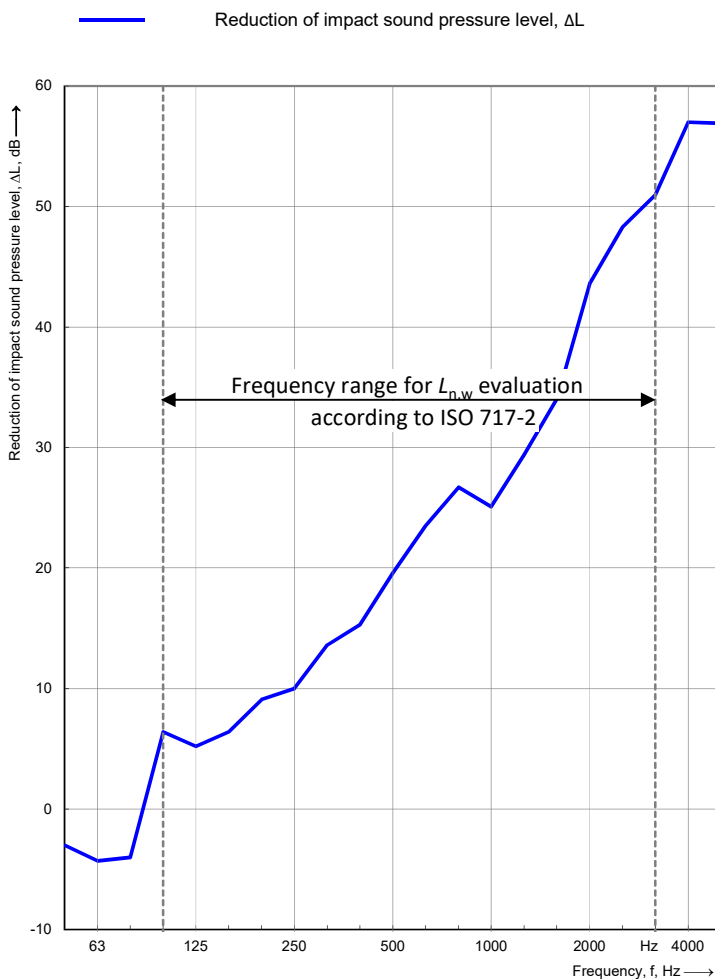
**Client:** Prästängen AB  
**Manufacturer:** Prästängen AB  
**Test specimen mounted on:** Prästängen AB  
**Test room identification:** Measurement room (impact sound room) -> Measurement room (reception room)  
**Product identification:** Acoustic foot with 12 mm TPE

### Description of the specimen:

22 mm chipboard screwed into 45 mm wooden joist, 115 mm air gap without insulation, feet fastened to concrete with double-sided tape. Edges covered with 3 x GN13

**Mass per unit area:** 20 kg/m<sup>2</sup>  
**Curing time:** 3600 s  
**Barometric pressure:** 100,0 kPa  
**Temperature source room:** 17,0 °C  
- receiving room: 17,0 °C  
**Air humidity - source room:** 37 %  
- receiving room: 37 %  
**Source room volume:** 120 m<sup>3</sup>  
**Receiving room volume:** 130,0 m<sup>3</sup>

Frequency f [Hz]	L <sub>n,0</sub> 1/3 octave [dB]	ΔL 1/3 octave [dB]
50	52,5	-3,0
63	47,7	-4,3
80	57,6	-4,0
100	73,3	6,4
125	70,4	5,2
160	75,7	6,4
200	86,3	9,1
250	82,9	10,0
315	83,4	13,6
400	81,3	15,3
500	84,7	19,6
630	83,9	23,5
800	83,3	26,7
1000	82,6	25,1
1250	81,5	29,4
1600	81,5	34,0
2000	81,0	43,6
2500	80,0	48,3
3150	78,4	51,0
4000	76,2	57,0
5000	71,3	56,9



Rating according to ISO 717-2

ΔL<sub>w</sub> = 25 dB

C<sub>1,Δ</sub> = -11 dB

C<sub>1,r</sub> = 0 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.