

Standardized Impact Sound Pressure Level according to ISO 140-7

Field measurements of impact sound insulation of floors

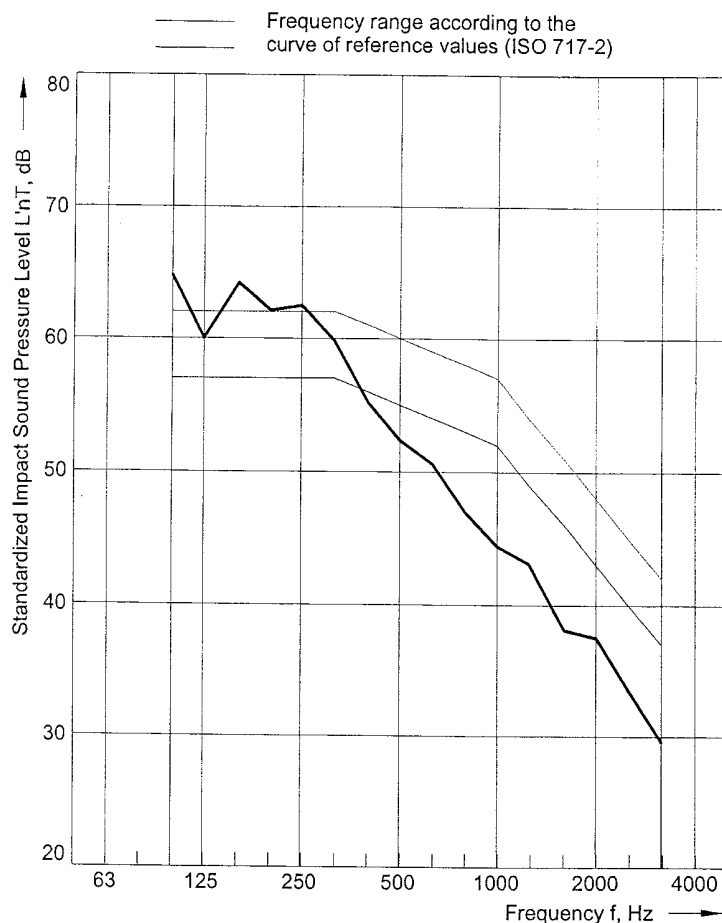
Date of test: 03/07/2007

Description and identification of the building construction and test arrangement:

The separating floor and ceiling incorporated the existing timber joists with mineral wool insulation in between joists, with resilient bar fitted to the underside of the joists and two layers of 15mm Gyproc Soundbloc fixed to the resilient bar. Above the joists 19mm tongue and groove Quietboard laid on top, with a single layer of Sound Barrier Mat glued to the Quietboard, a single layer of 10mm Acoustical R10 and a single layer of 19mm Quietboard on top.

Receiving room volume: 43.00 m³

Frequency f Hz	L'nT 1/3 Octave dB
50	
63	
80	
100	64.8
125	60.0
160	64.2
200	62.1
250	62.5
315	59.8
400	55.2
500	52.4
630	50.6
800	46.9
1000	44.4
1250	43.1
1600	38.1
2000	37.5
2500	33.6
3150	29.6
4000	
5000	



Rating according to ISO 717-2

$$L'_{nT,w}(C_i) = 55 (1) \text{ dB}$$

$$C_{i,50-2500} = \text{N/A dB}$$

Evaluation based on field measurement results obtained in one-third-octave bands by an engineering method

No. of test report: BS4258-0004

Name of test institute: Building Sciences Limited

Date: 06/07/2007

Signature: