Building Sciences
The Building Envelope Consultants

Standardized Impact Sound Pressure Level according to ISO 140-7

Field measurements of impact sound insulation of floors

Client: Alex Osbourne

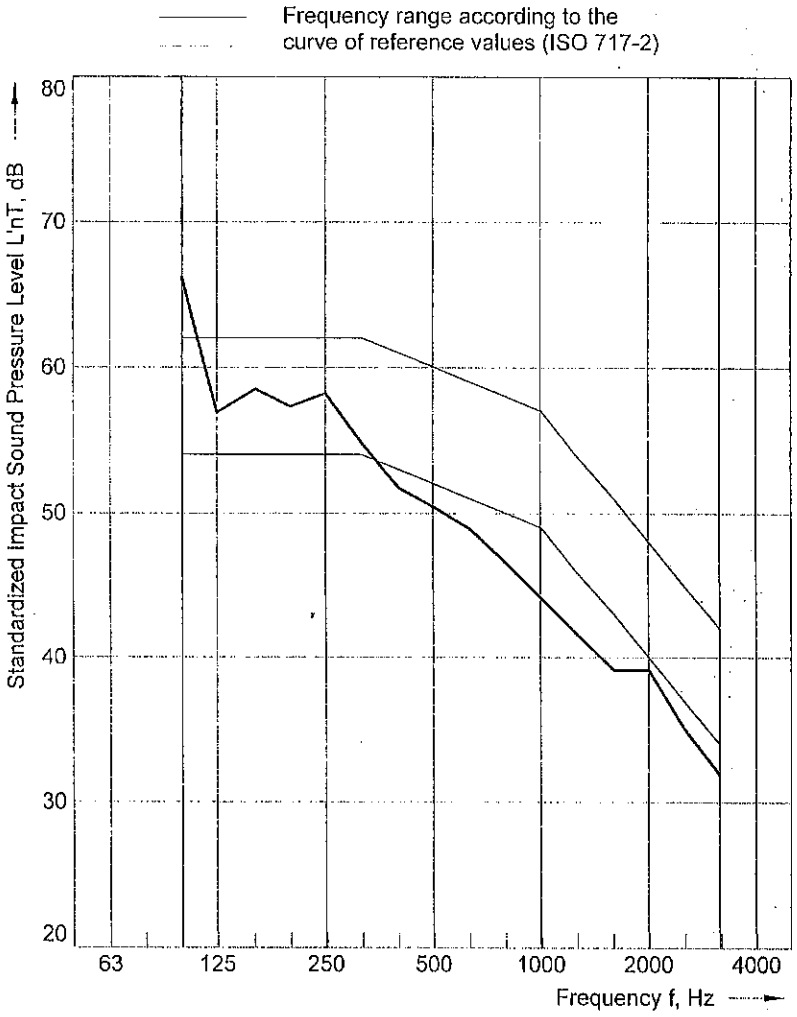
Date of test: 14/02/2007

Description and identification of the building construction and test arrangement:

The floor construction tested was based around the original floorboards and joists. 100mm thick sound slab insulation was placed between the joists. A floating floor and a ceiling of two layers of plasterboard suspended from resilient bars have been added.

Receiving room volume: 41.00 m³

Frequency f Hz	L'nT 1/3 Octave dB
50	
63	
80	
100	66.1
125	56.9
160	58.5
200	57.3
250	58.2
315	54.8
400	51.7
500	50.4
630	48.9
800	46.5
1000	44.1
1250	41.7
1600	39.1
2000	39.1
2500	35.1
3150	31.9
4000	
5000	



Rating according to ISO 717-2

$L'_{nT,w}(C_i)$ = 52 (2) dB $C_{i,50\text{-}2500}$ = N/A dB

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

No. of test report: BS4187-0002

Name of test institute: Building Sciences Ltd

Date: 14/02/2007

Signature: