

Standardized Level Difference according to ISO 140-4
Field measurements of airborne sound insulation between rooms

Date of test: 03/07/2007

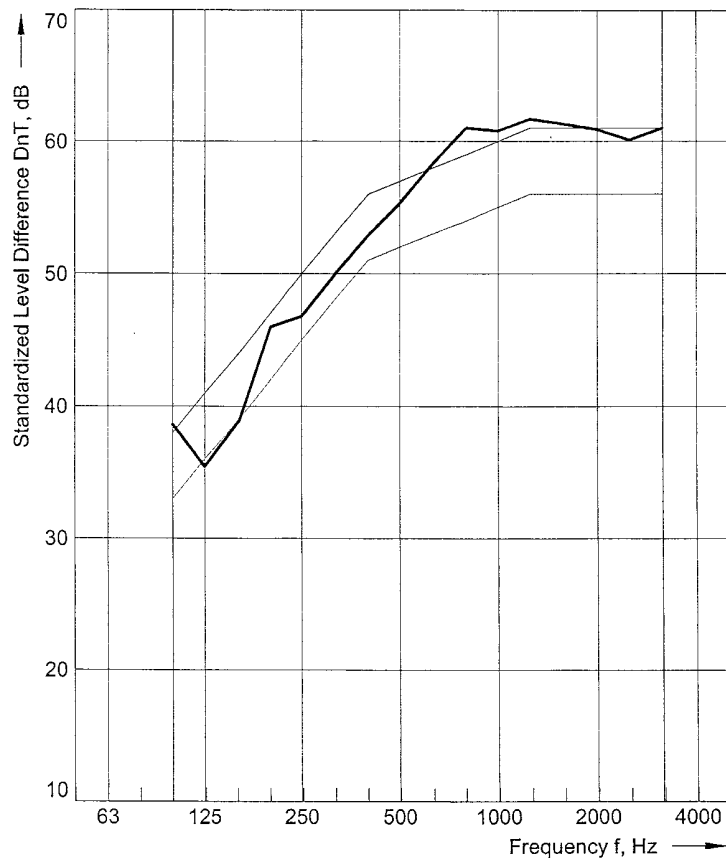
Description and identification of the building construction and test arrangement, direction of measurement:

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.

Source room volume: 43.00 m³
 Receiving room volume: 38.00 m³

— Frequency range according to the
 — curve of reference values (ISO 717-1)

Frequency f Hz	DnT 1/3 Octave dB
50 63 80	
100	38.6
125	35.4
160	38.9
200	46.0
250	46.8
315	49.9
400	52.9
500	55.3
630	58.3
800	61.0
1000	60.8
1250	61.7
1600	61.3
2000	60.9
2500	60.1
3150	61.0
4000	
5000	



Rating according to ISO 717-1

$D_{nT,w}(C;C_{tr}) = 57 (-2; -7) \text{ dB}$ $C_{50-3150} = \text{N/AdB}; C_{50-5000} = \text{N/AdB}; C_{100-5000} = \text{N/AdB};$
 Evaluation based on field measurement $C_{tr,50-3150} = \text{N/AdB}; C_{tr,50-5000} = \text{N/AdB}; C_{tr,100-5000} = \text{N/AdB};$
 results obtained in one-third-octave
 bands by an engineering method

No. of test report: BS4258-0001

Name of test institute: Building Sciences Limited

Date: 06/07/2007

Signature: