

STANDARDIZED LEVEL DIFFERENCE - D_{nT}

Original data rated using BS EN ISO 717-1:1997 to obtain spectrum adaptation terms C and C_{tr}

This test certificate presents the results of an on-site measurement carried out in the detached test house located within the grounds of TRADA Technology Ltd. AIRO is a UKAS accredited testing laboratory No 0483.

The dwelling tested was a two storey building with a pitched tiled roof. The sub-floor comprised 18mm T&G chipboard on 44mm x 219mm timber joists at 600mm centres built into the inner leaf of the external blockwork wall. The ceiling consisted of 19mm Gyproc Plank and 12.5mm Gyproc Wallboard fixed to the underside of the joists. The floor cavity contained 100mm mineral wool (~60kg/m³) laid between the joists. The total thickness of the subfloor was 269mm and the estimated mass excluding joists was 44kg/m³. The timber subfloor was overlaid with 10mm Acoustical R10 (the resilient layer) and 19mm Viroc cement impregnated T&G chipboard. All Viroc panels were staggered, all board joints glued and the perimeter of the floor system sealed with a flexible mastic. The total thickness of the floor was 298mm.

For full details reference should be made to the original test report.

Frequency Hz	D _{nT} dB	Frequency Hz	D _{nT} dB
50	XX	630	54.8
63	XX	800	56.0
80	XX	1000	59.9
100	32.3	1250	61.1
125	29.9	1600	61.9
160	41.5	2000	63.7
200	38.6	2500	63.3
250	37.8	3150	64.0
315	46.2	4000	XX
400	47.5	5000	XX
500	52.0		

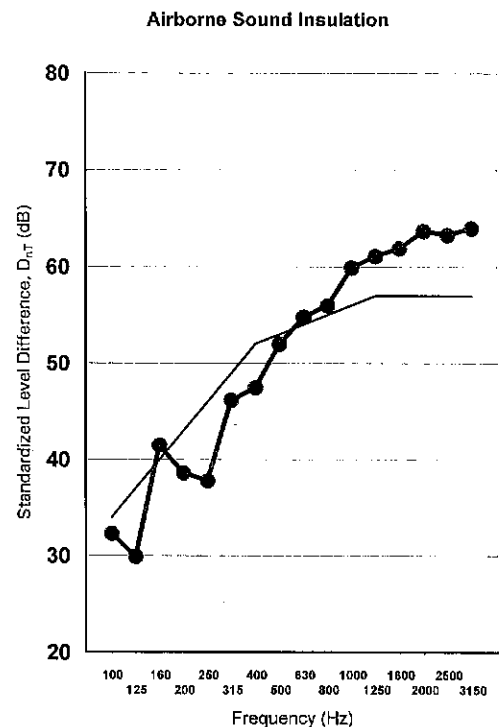
D _{nT,w}	53	C	-3
D _{nT,w} +C _{tr}	45	C _{tr}	-8

Rating according to BS EN ISO 717-1:1997

$$D_{nT,w}(C;C_{tr}) = 53 (-3;-8) \text{ dB}$$



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Client: Sound Service (Oxford) Limited
 Standard: BS 2750:Part 4:1980
 Report No: PG/4094
 Dated: 16 September 1996
 Test No: 1

AIRO Ref 4028-V1.2

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