

ACOUSTIC SOLUTIONS

Consultant in Noise and Vibration

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Calculation of Standardised Level Difference

Field Measurements of airborne Insulation between Rooms

Test Report No: AS25-100 T1AIR **Test Date:** 10 December 2025.

Client: Citadel Investment Group Limited

Address: 185 Mauldeth Road, Burnage, Manchester M19 1BA

Details: Ceiling at 185 Mauldeth Road, Burnage, Manchester M19 1BA

Source Room: Ground floor commercial

Receiver Room: First floor, Flat 1, bedroom

Ceiling Construction (nominal)

Layer of 12.5mm fireline plaster board onto existing ceiling. Wooden frame suspended with acoustic bars

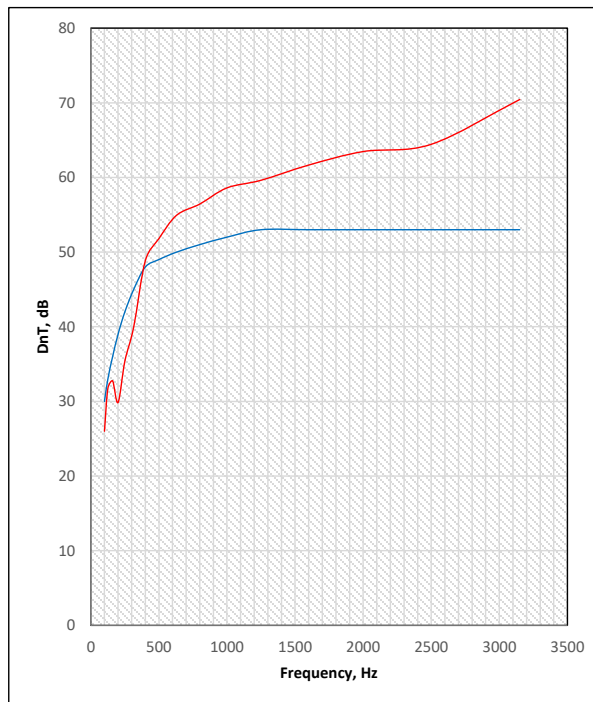
and filled with acoustic slab insulation further covered with another layer 12.5mm fireline plaster board.

Source Vol: 97.2

Rec Vol: 24.57

Hz	DnT (dB)
50	
63	
80	
100	26.00509385
125	31.73954068
160	32.74819282
200	29.85920514
250	35.40605915
315	39.97718361
400	48.82835103
500	51.80753139
630	54.93504706
800	56.43557749
1000	58.59817645
1250	59.62102485
1600	61.65579325
2000	63.46850438
2500	64.43460672
3150	70.43996967
4000	
5000	

Shifted Reference Curve / Measured DnT



Rating According to ISO 717-1

DnT,w + Ctr = 43.9794 (DnT,w: C, Ctr) = 49 -7.633228601 -5.0205999

Evaluation based on field measurement results obtained by an engineering method

Test Report No: AS25-100 T1AIR **Test Institute:** Acoustic Solutions

Report Date: 15 December 2025.

Signature: