

ACOUSTIC SOLUTIONS

Consultant in Noise and Vibration

20 Netherhall Road, Baildon, West Yorkshire, BD17 6QD. Telephone: 01274 580796/07786 028451

Email: acousticsolutions@email.com

Calculation of Standardised Level Difference

Field Measurements of airborne Insulation between Rooms

Test Report No: AS25-100 T3AIR **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: First floor, Flat 1, bedroom

Receiver Room: Second floor Flat 2, kitchen

Ceiling Construction (nominal)

Existing solid timber plank floorboards have been further covered by 22mm tongue and

groove boards further covered by single layer of marine plywood. 200 x 75mm timber joists.

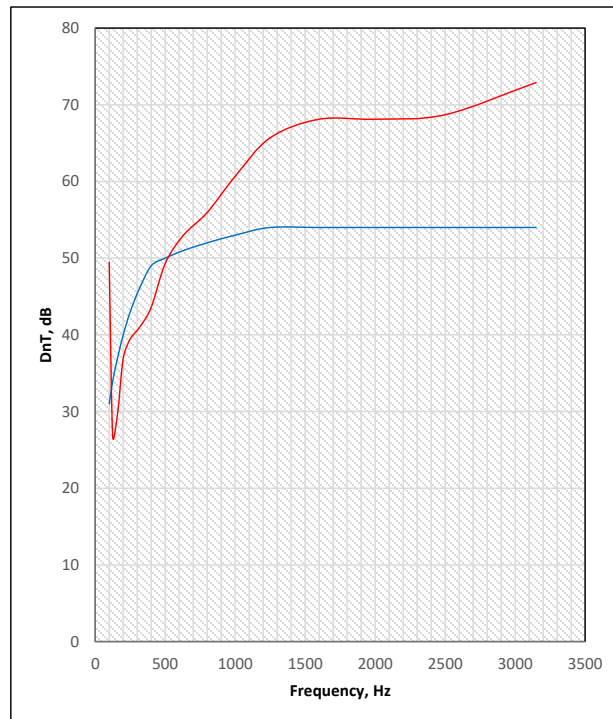
Double layer of 12.5mm fireline Double layer of 12.5mm fireline mounted on resilient bars. 150mm acoustic insulation.

Source Vol: 24.57

Rec Vol: 23.625

Hz	DnT (dB)
50	
63	
80	
100	49.45222918
125	26.74039909
160	29.76545705
200	36.89113694
250	39.45097918
315	40.93083065
400	43.59220229
500	49.29910103
630	52.97803569
800	55.95216646
1000	60.67082535
1250	65.69535802
1600	68.11861557
2000	68.11760872
2500	68.70658588
3150	72.90106047
4000	
5000	

Shifted Reference Curve / Measured DnT



Rating According to ISO 717-1

DnT,w + Ctr = 45.086383 (DnT,w: C, Ctr) = 50 -8.633228601 -4.9136169

Evaluation based on field measurement results obtained by an engineering method

Test Report No: AS25-100 T3AIR **Test Institute:** Acoustic Solutions

Report Date: 15 December 2025.

Signature:

