

# ACOUSTIC SOLUTIONS

## Consultant in Noise and Vibration

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### Calculation of Standardised Level Difference

Field Measurements of Impact Insulation between Rooms

**Test Report No:** AS25-100 T4IMP **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:** Second floor Flat 2, kitchen

**Receiving Room:** First floor, Flat 1, bedroom

#### 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.

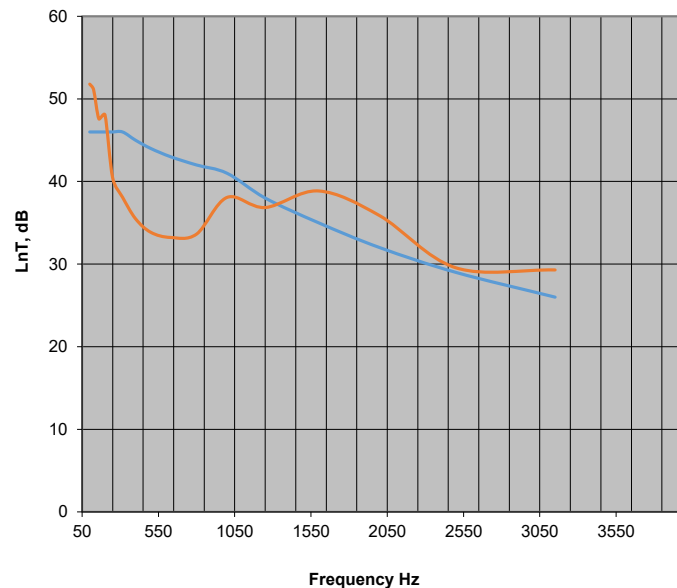
Double layer of 12.5mm fireline Double layer of 12.5mm fireline mounted on resilient bars. 150mm acoustic insulation.

**Source Vol:** 24.57

[Shifted Reference Curve](#) / [Measured DnT](#)

**Rec Vol:** 24.57

| Hz   | LnT (dB)   |
|------|------------|
| 50   |            |
| 63   |            |
| 80   |            |
| 100  | 36.1346843 |
| 125  | 66.8787562 |
| 160  | 68.9062871 |
| 200  | 68.0331057 |
| 250  | 69.5965941 |
| 0    | 71.0764334 |
| 400  | 65.738092  |
| 500  | 59.4429078 |
| 630  | 54.1257013 |
| 800  | 50.0619299 |
| 1000 | 45.6860879 |
| 1250 | 40.3950605 |
| 1600 | 38.022026  |
| 2000 | 35.6273355 |
| 2500 | 34.2171896 |
| 3150 | 30.8584432 |
| 4000 |            |
| 5000 |            |



#### Rating According to ISO 717-1

**LnT,w + CI** **62.37385** (LnT,w: CI) = **62** **0.37385305**

Evaluation based on field measurement results obtained by an engineering method

**Test Report No:** AS25-100 T4IMP **Test Institute:** Acoustic Solutions

**Report Date:** 15 December 2025.

**Signature:** .....

