



ACOUSTIC FIELD-TEST REPORT

PURPOSE: It is the intention of this report to illustrate the performance of the Modular Wall System in real-world applications. These testing environments were selected due to their ability to offer easily identifiable and comparable scenarios. This included:

- Origin of Sound, its Type and Extent
- Geographical Layout
- Wall Configuration

SCOPE: This information is to be used as a guide and in conjunction with the independent laboratory testing that has been performed on Modular Walls products. The test results reported below are an accurate account of the locations used. Should specific values be required for an application of the Modular Wall System, it is recommended that a formal acoustic analysis be undertaken for that environment.

TESTING EQUIPMENT SPECIFICATIONS

| | | |
|-----------------------|--------------------------------|---|
| Digitech Model | QM-1589 | |
| Standard applied | IEC651 type 2, ANSI S1.4 type2 | |
| Frequency Range | 31.5Hz~8kHz | |
| Measuring level range | 30~130dB | [Low range 30-100dB used for these records] |
| Frequency weighting | A/C | [A used for these records] |
| Microphone | 1/2" electret condenser. | |
| Time Weighing | Fast 125mS, Slow 1 Sec | [Slow used for these records] |
| Accuracy | +/-1.5dB | |

TEST 1 – Highway road noise

| | | |
|------------------------------|---|---------|
| Origin Source | 6 lane highway (70Km/hr) | |
| Location of Wall from Origin | 5.5 Meters | |
| Wall Type | 4.0 Meter high Barrier Type Wall (75mm panel) | |
| Readings at exposed side | Steady fluctuation | 71-81dB |
| | Peak Reading | 83dB |
| | Minimum Reading | 68dB |
| Readings at shielded side | Steady fluctuation | 58-60dB |
| | Peak Reading | 61dB |
| | Minimum Reading | 57dB |

NOTES: Further readings were taken at a distance of 5 meters back from the shielded side of the wall (approx 10.5M from origin). Readings at this distance displayed a fluctuating range of 1 to 2dB higher than at the shielded face of the wall. Readings at greater distances from the shielded face displayed only ambient sound levels and were not influenced by the fluctuating decibel range of the highway.

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TEST 2 – Lawnmower – Domestic application

| | | |
|------------------------------|---|--------------------------------|
| Origin Source | 2 Stroke Lawnmower | |
| Location of Wall from Origin | 2 Meters | |
| Wall Type | 2.1 Meter high Traditional Type Wall (75mm panel) | |
| Readings at exposed side | Steady fluctuation | 90-91dB (Min/Max reading also) |
| Readings at shielded side | Steady fluctuation | 66 dB (Min/Max reading also) |

NOTES: A secondary reading was taken at a distance of 5 meters back from the shielded side of the wall and a steady reading of 67 dB was recorded. This increase of approx 1 dB is consistent with the Highway values shown in Test 1. *The Peak and Minimum readings for the lawnmower test are not listed due to them being identical to the steady output values.*