



24th October, 2023.

Acoustic Report for Dunamis International Gospel Centre Manchester

Dear Members of the Manchester City Council,

I am writing to submit an acoustic report for Dunamis International Gospel Centre Manchester located at 1a New St, Manchester, M40 8AW. This report has been prepared to assess the acoustic conditions within the house of worship and to ensure compliance with local noise regulations. The assessment was conducted to address concerns regarding noise levels and potential impacts on the surrounding community.

1. Site Description

Dunamis International Gospel Centre Manchester is located at, 1a New St, Manchester, M40 8AW. The main auditorium is a medium sized hall with dimensions of 27m by 10m by 3m. The house of worship is primarily used for religious ceremonies, including worship services, weddings, and other events.

2. Acoustic Assessment

2.1. Background Noise Levels

The assessment included measurements of background noise levels within the church and its immediate surroundings. The average background noise level in the auditorium without the use of the PA or musical instruments was approximately 40dBA. During worship, the sound level averages around 83dBA for a short period of time within the auditorium. The worship is the loudest session of the service. The average sound level recorded outside the building was 50dBA. The sound was measured with a datum N05CC digital sound level meter.

2.2. Reverberation Time

Reverberation time (RT60) measurements were taken to evaluate the church's acoustic characteristics. The RT60 was found to be approximately 1.26 seconds, which is consistent with standard acoustical norms for a place of worship of this size.

2.3. Noise Impact on Surrounding Area

A noise impact assessment was conducted to determine if activities within the house of worship had a significant impact on the surrounding area. Noise levels from various activities, including music and gatherings, were measured and assessed. The results indicate that noise levels are generally within the acceptable limits and are not causing undue disturbance to the community. Furthermore, the house of worship is situated within industrial areas that typically remain closed during the times when the place of worship is active.

3. Compliance with Regulations

The acoustic assessment found that Dunamis International Gospel Centre Manchester is in compliance with the local noise regulations and does not pose any significant noise-related issues for the surrounding community.

4. Recommendations

Based on the acoustic assessment, the following recommendations are made:

4.1. Maintain Existing Conditions

The current acoustic conditions in Dunamis International Gospel Centre, Manchester are generally suitable for its intended use. It is recommended to continue regular maintenance to ensure the preservation of these conditions.

4.2. Acoustic Treatments

No acoustic treatments such as diffusers, absorbers, or reflectors are needed at this time as any further treatment will reduce the liveliness of the space.

4.3. Sound Reinforcement

Ensure that the sound reinforcement system, including microphones and speakers, is in good working condition to maintain high-quality audio during services and events.

5. Conclusion

In conclusion, Dunamis International Gospel Centre Manchester maintains satisfactory acoustic conditions, and its activities do not pose a noise issue for the surrounding community. This report is intended to provide assurance of compliance with local noise regulations and to address any concerns related to noise emissions.

If you have any further questions or require additional information, please do not hesitate to contact us.

Thank you for your attention to this matter.

Sincerely,

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