

Building Acoustics

www.vipac.com.au

Vipac's uniqueness stems from being among a handful of Australian organisations with expertise in the sound intensity probe methodology- virtually unknown in Australia.

Building acoustics is a key consideration of a building design and is critical to a building's functionality. The building's acoustic performance can make the difference between an award-winning development and a commercial disaster. Whether you're after a sound test to reduce noise pollution, an acoustic report to drown out background noise, sound consulting to meet health and safety regulations, or noise control to meet an environmental protection act, Vipac can help by:

- Improving speech intelligibility
- Maintaining privacy
- Reducing noise breakout
- Minimising external noise intrusion.

Our Services:

Planning & Design Phase

- Pre and sketch design
- Detailed design advice to assist in compliance with the Building Code of Australia (BCA) and other relevant standards (e.g. AS/NZS 2107)
- Support with planning submissions, including DA, MCU, EIS and ERA
- Tender documentation review and assessment of alternatives
- Commissioning measurements to ensure the acoustic design brief criteria are met.

Construction Phase

- Regular site inspections during construction to ensure the acoustic design intent is not compromised
- Site assessments and isolation of external noise such as traffic, rail and aircraft
- Achieve noise levels compliant with relevant standards, including EPA regulations.

Occupancy Phase

- Sound insulation to minimise sound transmission between adjacent spaces
- Interior acoustic separation and speech privacy
- Room acoustic performance
- Plant and equipment noise control (airborne and structure borne noise HVAC ducts such as ventilation systems)
- AV and PA systems
- Vibration isolation
- Acoustics testing and certification.

What industries do we service?

- Commercial
- Industrial
- Educational
- Entertainment
- Leisure.

Our knowledge of the sound intensity probe means we can characterise sound sources in complex acoustic environments - that is, different noise sources that operate simultaneously.



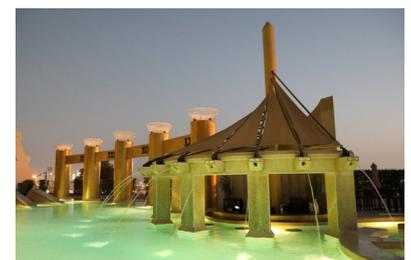
Ensured acoustic protection from traffic noise, outdoor air conditioners and gyms/spas located above some apartments at Melbourne's Eq. Tower.



We provided traffic noise attenuation for Ciputra World Theatre, Jakarta using lightweight materials to ensure aesthetics weren't compromised.



Our sound system design for Melbourne's iconic Hamer Hall, a world-class performance space, means symphonic music of the highest standard can be enjoyed.



Ensuring sound isolation between hotel rooms, and between the rooftop pool and grand ballroom below at the world's first newly built Raffles Hotel, Dubai.



Overcoming constraints relative to healthcare facilities (i.e. cleaning and not generating particles) at Singapore's Ng Teng Fong Hospital. Our noise control, noise insulation and room acoustic design helped ensure patients could recuperate faster.