

# Architectural acoustics



Trinity Consultants Australia are experts in architectural acoustics and have led sound design for diverse flagship buildings and public spaces.

Our team are passionate about delivering beautiful sound outcomes. With decades of experience, we deeply understand how architecture, physics and engineering connect. Our approach is to integrate acoustics into design from the start, seeking to both enhance desirable sounds and manage unwanted noise.

From train stations to convention centres, sporting arenas to concert halls, restaurants to hospitals, the Trinity team will work to ensure your architectural acoustics achieve clarity, symmetry, envelopment, vibrancy and warmth, no matter what your structure.

## Our capabilities

### Acoustic design

- Acoustic isolation, room acoustics, noise and vibration control
- Design of room finishes for internal acoustics
- Detailed design of acoustically sensitive spaces
- Minimising noise due to vibration
- Building envelopes and internal partitioning
- Acoustic privacy for speech and music

### External noise and vibration

- Analysis of external air or ground vibration effects
- Construction noise and vibration
- Permanent noise or vibration sources (traffic, rail)
- Internal building vibration assessment
- Vibration pre-feasibility studies

### Review and testing

- Acoustic assessments
- Review of mechanical plant noise
- Design of control measures
- Acoustic testing onsite or in laboratory

### Compliance and certification

- Green Star design and as-built acoustic certification
- Green Star assessment and reporting
- Building Code Australia compliance and certification
- Form 15 and form 16 building certification (Qld)
- Queensland Development Code MP4.4 certifications



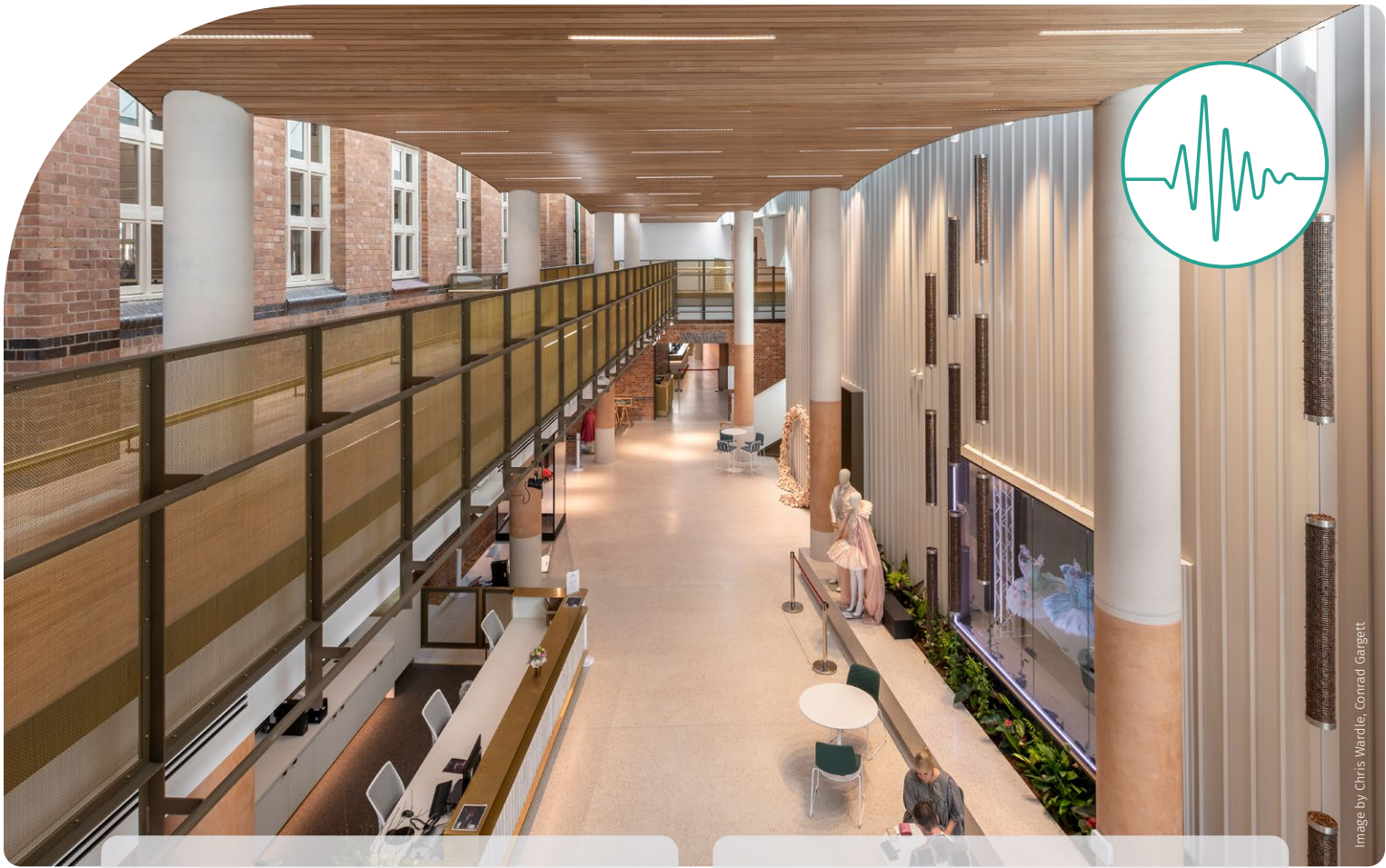


Image by Chris Wardle, Conrad Gargett

## Software and modelling

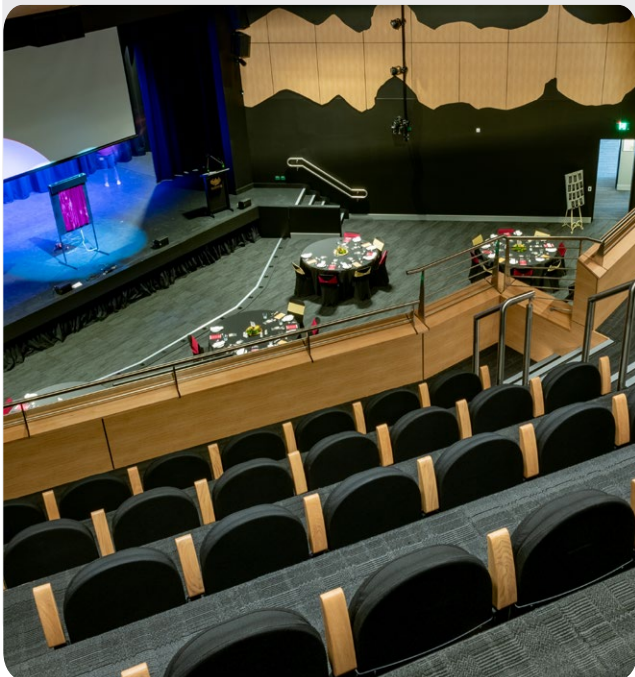
At Trinity, we use software including CadnaA, SoundPLAN, Insul, ODEON and more to create advanced 3d modelling of room acoustics and sound insulation.

We also offer acoustic virtual reality, where you can experience your project acoustics in real-time during the design phase to help you make crucial decisions about the soundscape of your space or building.

## Collaboration and experience

The Trinity team works closely with architects, planners, developers and constructors, providing acoustic advice from project inception throughout the whole project cycle. We can help you to identify your internal noise level and sound quality goals, and then bring together the right people, products and approaches to achieve those objectives.

We add immense value by bringing insights based on our local experience over the past 30 years, alongside international knowledge and experience contributed by our sister companies, Cerami in New York and AWN Consulting in Dublin.



## Our clients

- Gold Coast City Council, ARM Architecture (HOTA Art Gallery)
- Queensland Ballet (Thomas Dixon Centre)
- Abigroup (Queensland Children's Hospital)
- Queensland Government, Populous (HOK Architects (Robina Stadium))
- United Group (Clem7 tunnel)
- St Laurence's, Conrad Gargett (college theatre)
- SAE Adelaide, Creative Media Institute (live rooms, recording studios and production rooms)

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